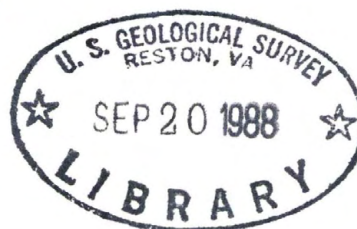


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Water Resources Data Georgia Water Year 1987



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-87-1
Prepared in cooperation with the State of Georgia
and with other agencies

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).

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1 2.54×10^{-2}	millimeters (mm) 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 4.047×10^{-1} 4.047×10^{-3}	square meters (m ²) square hectometers (hm ²) 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 3.785×10^0 3.785×10^{-3}	liters (L) cubic decimeters (dm ³) cubic meters (m ³)
million gallons	3.785×10^3 3.785×10^{-3}	cubic meters (m ³) cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1 2.832×10^{-2}	cubic decimeters (dm ³) cubic meters (m ³)
cfs-days	2.447×10^3 2.447×10^{-3}	cubic meters (m ³) cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3 1.233×10^{-3} 1.233×10^{-6}	cubic meters (m ³) cubic hectometers (hm ³) cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1 2.832×10^1 2.832×10^{-2}	liters per second (L/s) cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2} 6.309×10^{-2} 6.309×10^{-5}	liters per second (L/s) cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1 4.381×10^{-2}	cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons



Water Resources Data Georgia Water Year 1987

by W.R. Stokes, III, T.W. Hale, R.D. McFarlane, and G.R. Buell



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-87-1
Prepared in cooperation with the State of Georgia
and with other agencies

DEPARTMENT OF THE INTERIOR
DONALD PAUL HODEL, Secretary

U.S. GEOLOGICAL SURVEY
Dallas L. Peck, Director

For information on the water program in Georgia write to

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

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:

George A. Bailey	Stephen H. Jones
Frank G. Boucher	Coleman A. Leach
Audie J. Bradley	Charles A. Lee
Carolyn A. Casteel	Ronald T. Nichols
John S. Clarke	Howard H. Persinger, Jr.
Robert Coffin	McGlone Price
Darrell D. Dorminey	Mark S. Reynolds
James D. Everett	Welby L. Stayton
Gregg R. Geiger	Rodney L. Thompson
Susan C. Grams	John W. Tyler
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 [Letters after station names designate type of data: (d) discharge, (g) gage height, (c) chemical,
 (m) microbiological, (k) specific conductance, (h) pH, (t) water temperature,
 (o) dissolved oxygen, and (s) sediment]

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WATER RESOURCES DATA -- GEORGIA, 1987

INTRODUCTION

Water resources data for the 1987 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; ground-water levels; and precipitation quality. This report contains discharge records of 115 gaging stations; stage for 17 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 111 continuing-record stations; peak stage and discharge only for 105 crest-stage partial-record stations and 7 miscellaneous sites; water levels of 26 observation wells and water quality for 1 precipitation-quality site. 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 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 temperature, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25424, Denver, CO 80225.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis prior to the two 5-year series water-supply papers which cover this period. The data contained in the water-supply papers are considered the official record. 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 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-87-1." 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) 331-4858.

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, J. Leonard Ledbetter, Commissioner
Georgia Department of Transportation, Hal Rives, Commissioner
Bibb County
Glynn County
Gwinnett County
City of Albany
City of Brunswick
City of Covington
City of Helena
City of Moultrie
City of Thomaston
City of Thomasville
City of Valdosta
Albany Water, Gas and Light Commission
Clayton County Water Authority
Macon-Bibb County Water and Sewerage Authority

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

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

The following organizations aided in collecting records:

Georgia Power Company
Oglethorpe Power Company
Crisp County Power Commission
Alabama Power Company

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

Runoff for the 1987 water year was below normal throughout the State, except for the southeastern part where above-normal runoff during the winter months caused a surplus for the year. For unregulated streams having more than 10 years of streamflow record, the ratio of runoff during the 1987 water-year to long-term runoff ranged from about 1.8 at Little Satilla River near Offerman to 0.7 at Talking Rock Creek near Hinton. The runoff ratio for most of the State ranged between 0.8 and 1.0, except for the southeastern part where the ratio averaged about 1.5.

Monthly mean runoff in the northern part of the State was slightly above normal from October through January, near normal for February and March, and below normal for the remainder of the year. In central and southern Georgia, monthly mean runoff was above normal from December through March and below normal for the remaining months. Figure 1 shows monthly and yearly mean discharges for the 1987 water year at three representative long-term gaging stations, and the median monthly and yearly discharges for the period 1950-80.

No widespread flooding occurred in Georgia during the 1987 water year. However, during the winter months several streams in southeast Georgia did reach peak flows near 10-year recurrence intervals. This flooding occurred in rural areas and no major damage was reported. Elsewhere in the State, flood flows generally were under 5-year recurrence intervals.

The severe drought that affected Georgia in 1986 carried over into the first month of the 1987 water year. For several streams in north Georgia, the low flows that occurred in early October neared those experienced in July and August of 1986, when the drought was at its worst. Surplus rainfall throughout the State during November through February replenished streamflows to near normal rates. However, spring and summer rains were deficient in much of north Georgia, and during July through September, flows for streams in this area were about 50 percent of normal.

Water Quality

Georgia's surface-water resources are of generally good quality. A summary of surface-water quality for several constituents measured at 15 sites throughout the State is presented in table 1. Stations selected for this analysis were chosen to provide good areal coverage of the State, and to represent a wide range of basin characteristics, land use, and water use. Eleven of these sites are part of an 85-station cooperative network operated by the U.S. Geological Survey and the Georgia Department of Natural Resources, Environmental Protection Division. One site is part of the Georgia District water-quality monitoring network for small- to medium-sized watersheds in relatively undisturbed areas. Five sites are part of the Geological Survey's National Stream-Quality Accounting Network (NASQAN) program, and one is part of the Geological Survey's Hydrologic Bench-Mark (HBM) program. The statistics presented in table 1 were computed from water-quality data collected on a periodic basis (monthly for all but seven sites).

Surface-water quality conditions during the 1987 water year generally were representative of long-term conditions for those sites referenced in table 1. Notable exceptions were higher specific conductances for stations 02202500, 02212600, 02226160, 02337170, and 02353000; increased total-inorganic-nitrogen concentrations at stations 02202500, 02337170, and 02353000; and increased total-phosphorus concentrations at stations 02337170 and 02387050. These differences between current and long-term conditions probably are related to (1) a continuation of the 1986 drought into the first part of the 1987 water year for portions of the State, (2) increasing urbanization, or (3) a combination of both factors.

Water-quality profiles of the Chattahoochee River

Figure 2 shows a comparison of the variations in specific conductance (SC), total inorganic nitrogen (TIN), and total phosphorus (TP) along the Chattahoochee River for samples collected during the 1987 water year and those samples collected during water years 1976-86. The 1976-86 data bars identify the 90th percentile, median, and 10th percentile values, whereas the 1987 data bars show the maximum, median, and minimum values.

Station 02331600 is in the headwater portion of the Chattahoochee River drainage upstream from Lake Lanier. Both historic and current median values for SC, TIN, and TP are low, and representative of river quality in the Blue Ridge physiographic province of northeast Georgia.

The downstream patterns between stations 02336502 and 02344040 (both historic and current water-year data) show the combined effects of urban use, increasing drainage area, and impoundment on river quality. Increases in median SC, TIN, and TP values between stations 02331600 and 02336502 and, to a lesser extent, between stations 02336502 and 02337170, are likely attributable to discharges from waste-treatment facilities in the Atlanta metropolitan area. SC values remain relatively constant between stations 02338000 and 02344040, suggesting that the dilution effects of increasing streamflow and drainage area are somewhat offset by the effects of man downstream. Median TIN and TP values decrease between stations 02338000 and 02339500 for several reasons, including (1) dilution by increasing streamflow (no major waste-water discharges occur in this reach), (2) uptake of nitrogen and phosphorus by biota in the river and in West Point Lake located between stations 02338500 and 02339500, and (3) sedimentation of particulate phosphorus in West Point Lake.

The 1987 median values for all three constituents were at or above the 1976-86 medians at each station, suggesting increased use of the Chattahoochee River. However, some of the increases in SC, TIN, and TP for 1987 may be attributable to below-normal streamflow in the Chattahoochee River basin.

Water-quality profiles of the Ocmulgee and Altamaha Rivers

River-reach profiles of the Ocmulgee and the Altamaha Rivers, shown in figure 3, depict the effects of below-normal streamflow and wastewater discharge on river quality. Median SC values for 1987 were above 1976-86 medians for the upper Ocmulgee stations 02210500 through 02214265 and were close to historical median values for the lower Ocmulgee and Altamaha River reaches (stations 02215500 through 02226160). Municipal wastewater discharged to the Ocmulgee River between stations 02212950 and 02213700 contributed to increased TIN and TP concentrations observed at stations 02213700 and 02214265. As with the Chattahoochee River, the general decline in TIN and TP concentrations downstream from station 02213700 reflects the effects of both dilution and uptake of nutrients by biota along the Ocmulgee and the Altamaha Rivers.

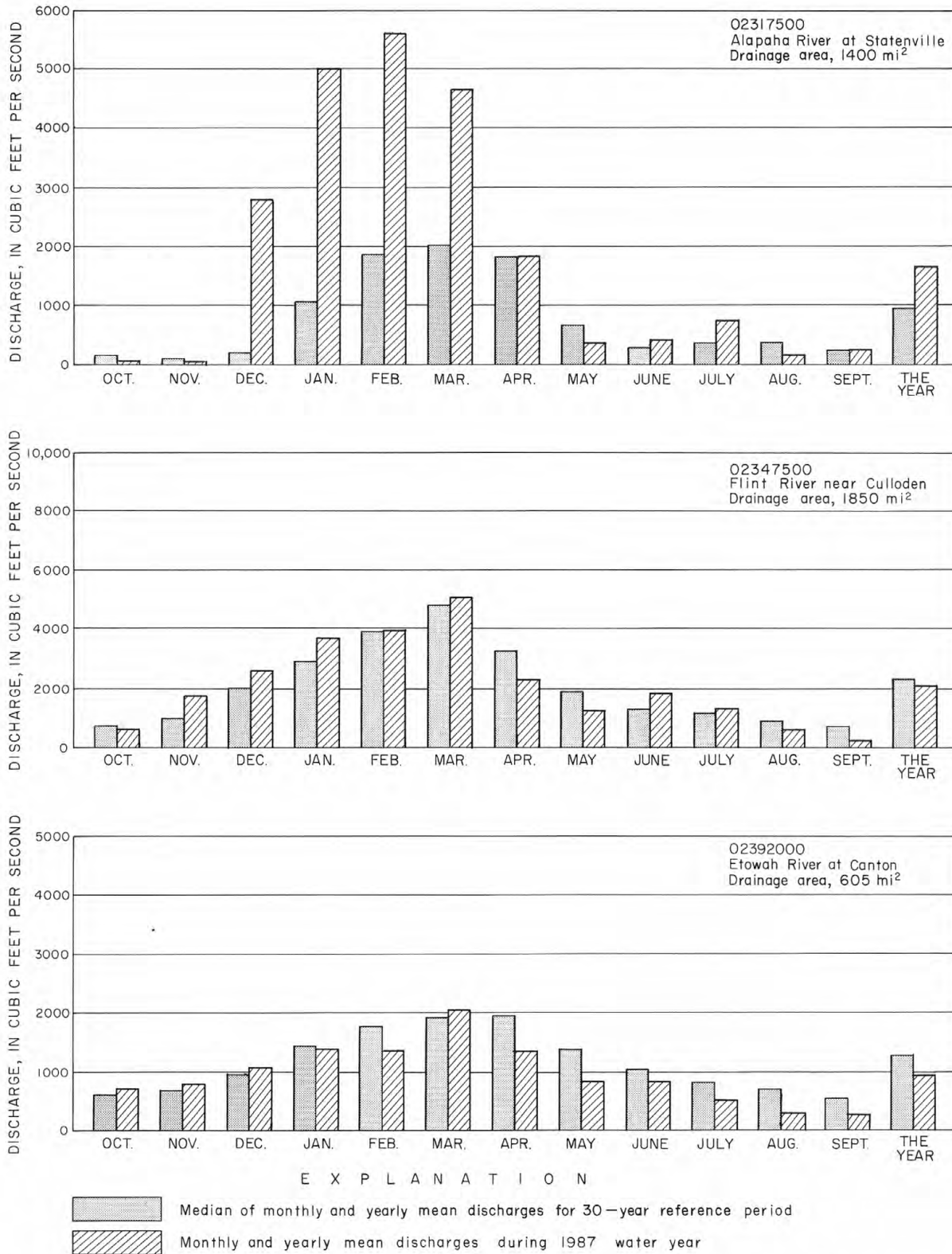
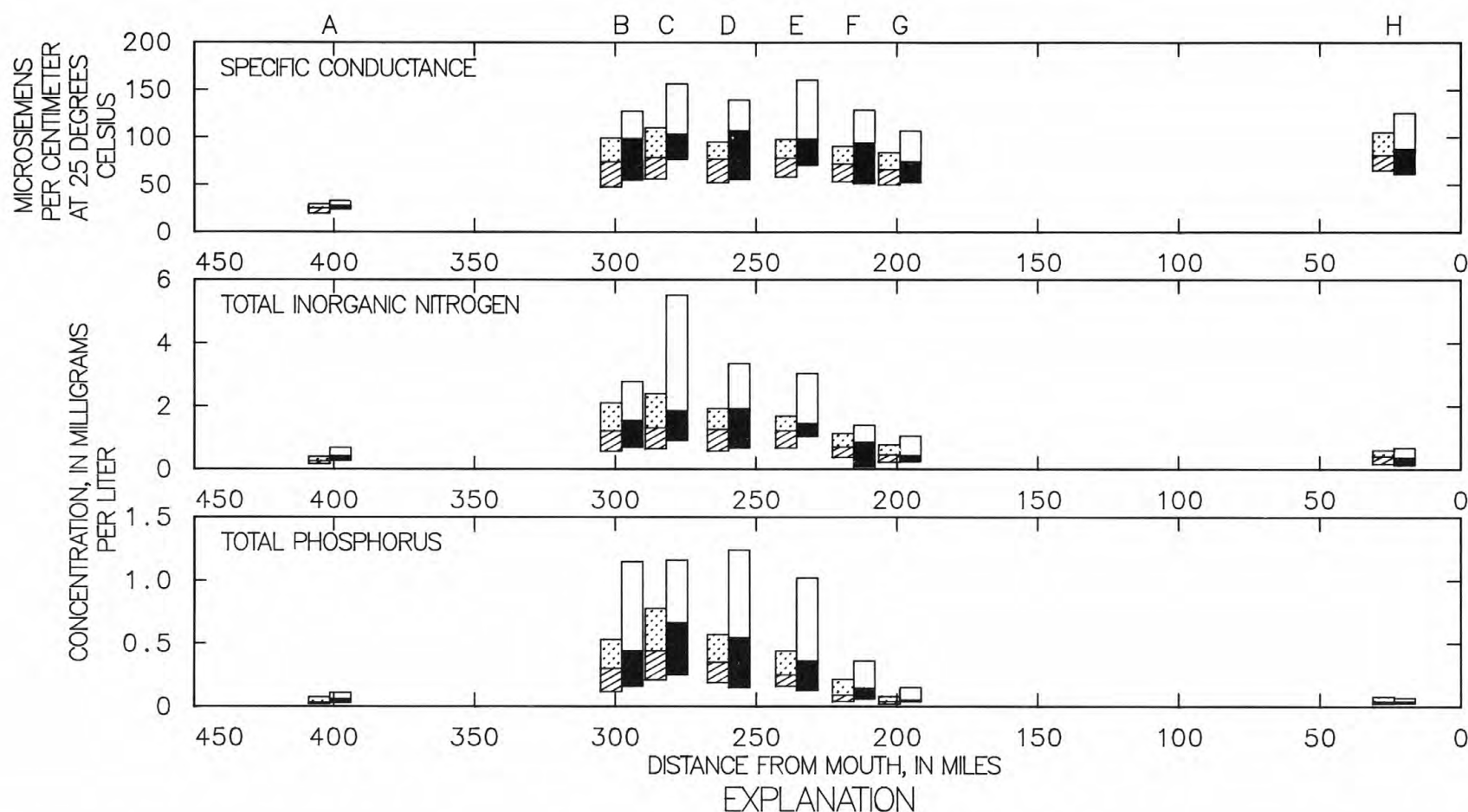


Figure 1.—Comparison of discharge at three representative long-term gaging stations during 1987 water year with median discharge for 30-year reference period.

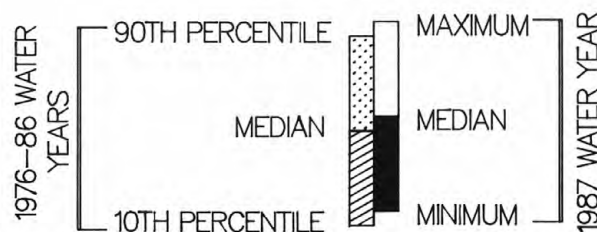
Table 1.--Water-quality characteristics of Georgia surface water at selected periodic sampling stations

[N, number of samples; mean pH values computed from antilogarithms; d, analysis discontinued;
na, analysis not included in the station schedule]

Stream and location	Downstream order number	Sample period (water years)	pH (standard units)		Specific conductance (μ S/cm at 25°C)		Alkalinity (mg/L as CaCO ₃)		Nitrogen, inorganic 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	1968-87 1987	185 12	6.6 6.8	173 12	14 14	162 12	5.4 5.8	166 12	0.07 .09	170 12	0.03 .02	144 12	2.3 3.5
Ogeechee River near Eden	02202500	1974-87 1987	164 6	6.5 7.0	155 6	78 96	141 6	24 26	82 2	.16 .39	151 6	.05 .07	55 0	8.8 --d--
Falling Creek near Juliette	02212600	1968-87 1987	182 4	6.7 7.5	183 4	118 141	168 4	51 50	41 0	.14 --d--	127 4	.07 .04	30 0	3.6 --d--
North Oconee River at Athens	02217740	1974-87 1987	149 12	7.0 7.1	149 12	56 61	137 12	21 22	149 12	.40 .47	149 12	.04 .04	145 12	3.0 3.0
Altamaha River near Everett	02226160	1974-87 1987	207 18	6.8 6.9	212 18	125 141	196 18	28 31	173 13	.29 .30	204 18	.07 .09	156 11	8.6 9.1
Satilla River at Atkinson	02228000	1968-87 1987	182 8	4.9 5.2	175 8	56 64	160 7	4.2 4.9	118 5	.26 .27	173 8	.09 .09	100 4	19 17
Suwanee River at Fargo	02314500	1968-87 1987	183 12	4.1 3.9	169 12	56 64	114 11	1.1 1.0	155 12	.19 .10	167 12	.03 .03	141 12	38 44
Withlacoochee River near Clyattsville	02318960	1975-87 1987	150 12	6.3 6.5	149 12	123 124	136 12	40 41	149 12	.36 .35	150 12	.17 .14	147 12	11 11
Chattahoochee River near Fairburn	02337170	1968-87 1987	326 12	6.5 6.9	357 12	82 109	169 12	20 23	358 12	1.4 2.1	368 12	.46 .68	322 12	5.8 5.1
Chattahoochee River at Andrew's L&D near Columbia	02343801	1983-87 1987	30 6	7.2 7.3	30 6	71 77	30 6	18 20	0 0	--na-- --na--	30 6	.04 .05	0 0	--na-- --na--
Kinchafoonee Creek at Preston	02350600	1970-87 1987	75 2	6.5 6.9	68 2	33 38	69 2	9.4 11	65 2	.22 .19	69 2	.03 .04	62 2	4.6 6.2
Flint River at Albany	02352500	1968-87 1987	108 4	7.1 7.0	93 4	74 81	88 4	24 22	87 4	.36 .38	92 4	.09 .03	64 4	5.0 9.0
Flint River at Newton	02353000	1968-87 1987	117 6	7.3 7.5	90 6	107 133	86 6	39 43	62 4	.50 .96	90 6	.08 .07	31 0	4.5 --na--
Conasauga River near Dalton	02384748	1974-87 1987	153 12	7.4 7.4	152 12	103 104	140 12	46 44	150 12	.25 .25	150 12	.05 .06	148 12	3.4 3.7
Conasauga River near Resaca	02387050	1974-87 1987	150 12	7.3 7.3	149 12	166 175	138 12	60 59	149 12	.61 .62	149 12	.65 .81	147 12	6.3 7.6



NOTE: 90 PERCENT OF ALL SAMPLES COLLECTED ARE LESS THAN THE 90TH PERCENTILE, 50 PERCENT LESS THAN THE MEDIAN, AND 10 PERCENT LESS THAN THE 10TH PERCENTILE



STATION IDENTIFICATION NUMBERS

A 02331600	E 02338500
B 02336502	F 02338720
C 02337170	G 02339500
D 02338000	H 02344040

Figure 2.—River—reach profiles of specific conductance, total inorganic nitrogen, and total phosphorus for the Chattahoochee River.

Ground Water

During the 1987 water year, annual mean ground-water levels determined from 26 observation wells ranged from 4 feet lower to 16 feet higher than during the 1986 water year.

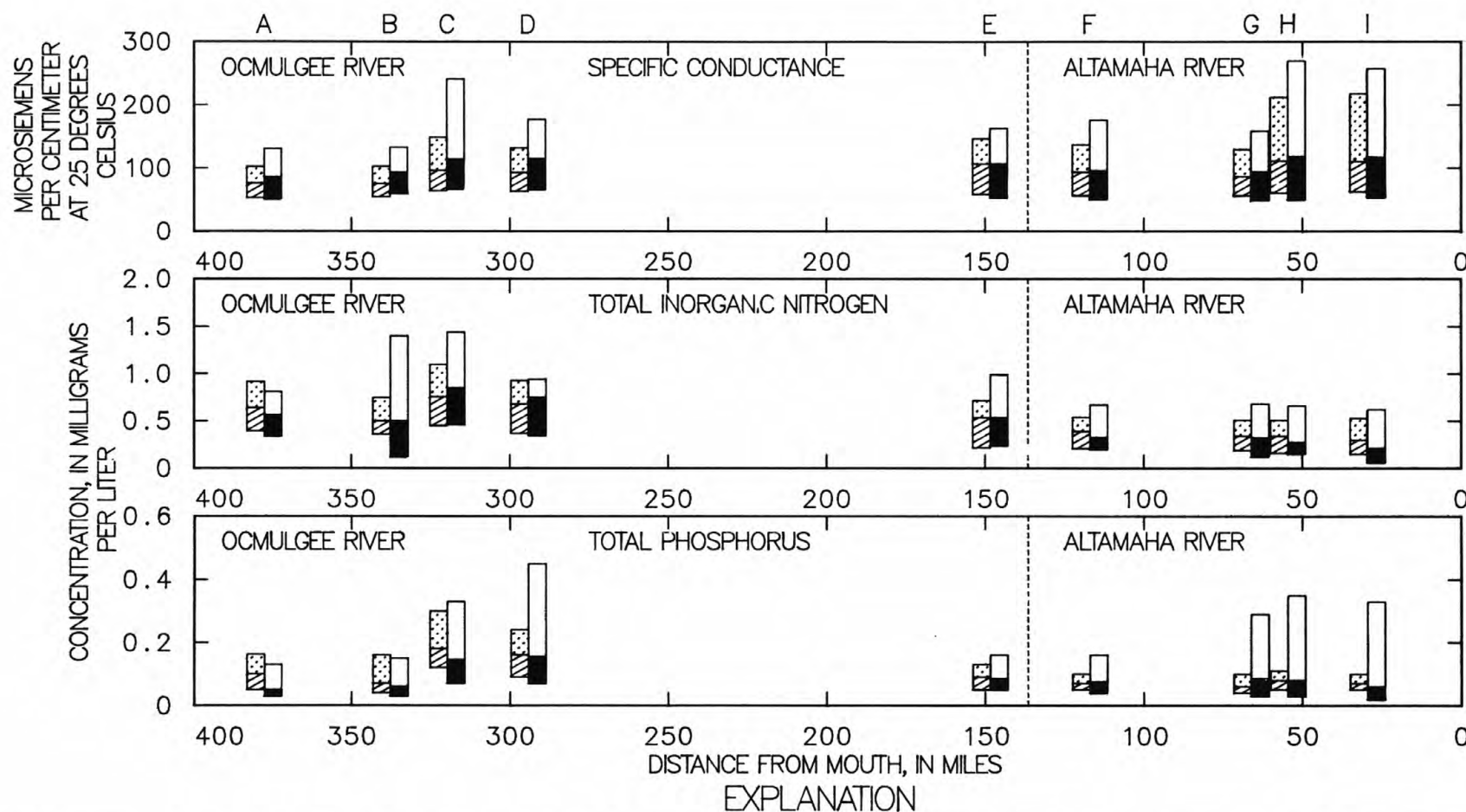
In the southwestern part of the State, mean water levels in the Floridan aquifer system were from 2 to 3 feet higher than during the 1986 water year. In the Clayton aquifer, mean water levels were from 4 feet lower to 16 feet higher than in 1986. By the end of March, water levels in seven wells tapping the two aquifers had recovered 14 to 80 feet from the lows measured during the 1986 drought.

Along the coast, mean water levels in the Floridan aquifer system were from 2 feet lower to 3 feet higher than in the 1986 water year. In Savannah, mean water levels were from 1 foot lower to 3 feet higher than in 1986. In the Jesup-Riceboro area, mean water levels were about 1 foot lower than in 1986, and record lows were measured in two wells in October and November 1986. Mean water levels in the Brunswick area were 2 feet lower than in 1986, and those in the Okefenokee Swamp area were about the same as in 1986. Mean water levels in the shallow water-table aquifer at Savannah were 3 feet higher than in 1986. By the end of March, water levels in 12 wells tapping the Floridan aquifer system, and one well tapping the shallow water-table aquifer on the coast had recovered 2 to 21 feet from the lows and record lows measured during the 1986 drought.

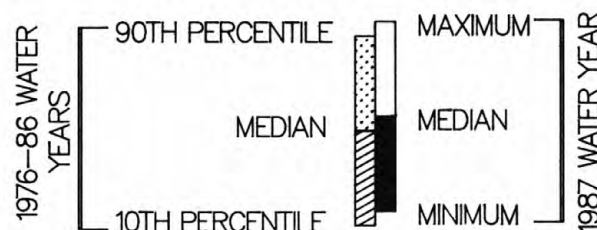
In the south-central and east-central parts of the State, mean water levels in the Floridan aquifer system were from about the same to 2 feet higher than in 1986. Water levels in four wells tapping the Floridan aquifer system recovered 4 to 26 feet from the lows and record lows measured during the 1986 drought. A record high water level was measured at well 21T001 near Dublin in January 1987.

In the crystalline rock aquifers of the Piedmont Province, mean water levels were from about the same to 2 feet higher than in 1986. However, record low water levels were measured in two wells in the Atlanta area during the year. One well reached its record low in November and the other in the following September. These record-low occurrences corresponded with the two distinct low water-level periods experienced in the crystalline rock aquifers during the water year: one in the fall of 1986, and the other in late summer of 1987.

More information concerning water-level fluctuations in the State can be found in open-file reports entitled, "Groundwater data for Georgia, 1986," which includes calendar year 1986, and "Ground-water data for Georgia, 1987," which includes calendar year 1987.



NOTE: 90 PERCENT OF ALL SAMPLES COLLECTED ARE LESS THAN THE 90TH PERCENTILE, 50 PERCENT LESS THAN THE MEDIAN, AND 10 PERCENT LESS THAN THE 10TH PERCENTILE



STATION IDENTIFICATION NUMBERS
 A 02210500 F 02225000
 B 02212950 G 02225990
 C 02213700 H 02226010
 D 02214265 I 02226160
 E 02215500

Figure 3.—River-reach profiles of specific conductance, total inorganic nitrogen, and total phosphorus for the Ocmulgee and Altamaha Rivers.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in national or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are to (1) obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis and reporting such that the data may be used for, (2) describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detect changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the spatial and temporal variability of the composition of atmospheric deposition which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP). The NADP was initiated by the North Central Region of the State Agricultural Experiment Stations (U.S. Department of Agriculture) to address the problem of atmospheric deposition and its effects on agriculture, forest, rangelands, and fresh-water streams and lakes.

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

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

EXPLANATION OF RECORDS

The surface-water and ground-water records published in this report are for the 1987 water year that began on October 1, 1986, and ended September 30, 1987. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and contents data for lakes and reservoirs, water-quality data for surface water, ground-water-level data, and precipitation-quality data. The locations of the stations and wells where the data were collected are shown in figures 5-9. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station in this report, whether streamsite, well, or other site, is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The system used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for surface-water stations and the "latitude-longitude" system is used for wells and other off-stream sites.

Downstream Order System

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 mainstream station are listed before that station. A station on a tributary that enters between two mainstream 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 with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show in stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. 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 number for each station, such as 02351890, which appears just to the left of the station name includes the two-digit Part number "02" plus the downstream-order number "351890", which can be from six to 12 digits. Most of the station-identification numbers in this report are eight digits; however, up to 14 digit numbers are permissible.

Latitude-Longitude System

The identification numbers for wells and other off-stream sites, such as rain gages, are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid as shown in figure 4. This site-identification number, once assigned, is a pure number, and has no location significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description.

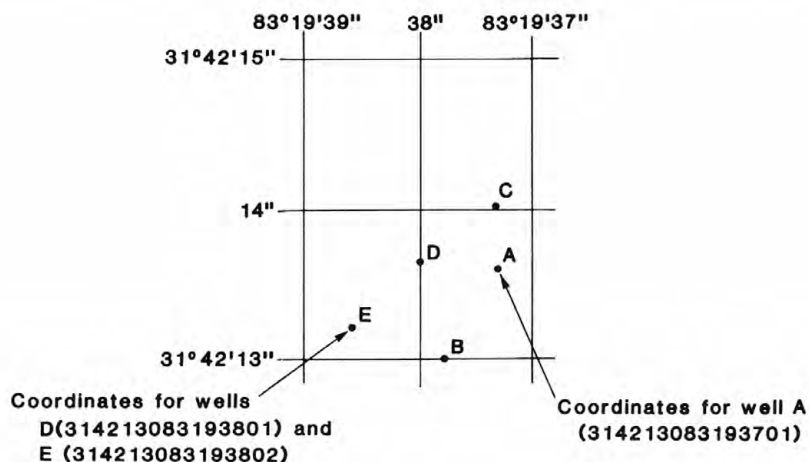


Figure 4.--System for numbering wells and other off-stream sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of stage or discharge are those obtained using a continuous or specified time-interval stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Occasionally, other parameters such as tainter gage openings and stream velocity will also be needed to compute discharges. Stations for which daily mean discharges or gage heights are published are referred to as "daily stations".

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous peak discharge at selected sites or of measurements from specific studies, such as low-flow seepage studies, may be considered as partial records and these are presented under the appropriate heading. Locations of all complete-record and crest-stage partial-record stations for which data are given in this report are shown in figures 5, 6, and 7.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relations between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges.

Continuous records of stage are obtained with devices that record stage values at selected time intervals or with analog recorders that trace continuous graphs of stage. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. 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 determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method is also used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations the stage-discharge relations are 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 relations are affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous and following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Computation of records of lake or reservoir contents requires a stage-contents relation which can be obtained from surveys, curves, or tables defining this relationship. The application of stage to the stage-contents curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-contents relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relation.

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or stage. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October, 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available at the time of determination of drainage area varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps and funds become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision does not include daily, monthly, or annual figures of discharge, that fact is noted 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 most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges. Unless otherwise qualified, the maximum discharge is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE THE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtain the record from published data reports may wish to contact the district office to determine if the published records were revised after the station was discontinued. Data obtained from computer files for discontinued stations will be current since these files are updated with appropriate revisions at the time revisions are made.

Manuscript information for lake or reservoir stations differs slightly from that for stream and stage stations. A paragraph describing the dam, beginning storage date, if known, and pertinent contents and elevation information is included in the description. Normally there is no "REMARKS" section. "EXTREMES" sections are presented only for those reservoirs where daily or more frequent pool elevations are available.

The daily table for stream-gaging stations gives 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 is usually expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and/or yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

The daily table of gage-height stations gives mean gage-height for each day. In the monthly summary, the line headed "MEAN" gives the average gage height during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily gage heights, respectively, for the month.

Data for reservoirs are presented following the continuous-station data for the basin in which they are located. Monthend elevations, contents, and monthly and yearly change in contents are presented in tabular form following the reservoir station description.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The data contained in the partial-record station tables are often supplemented by information gathered at miscellaneous sites which are neither continuous record nor partial-record stations. This information is presented in tables similar to those for the partial-record stations and the table headings explain the data which are shown.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurement of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS". "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned, are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to the nearest whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for values more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

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

Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Georgia District office. Also, most of the daily mean discharges are in computer-readable form, and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

The National Water Data Exchange (NAWDEx), U.S. Geological Survey, Reston, VA 22092, indexes the water data available from more than 400 organizations, and serves as a focal point to help those in need of water data to determine what information is available. Information and assistance on how to use this system can be obtained from the Georgia District office.

Records of Surface-Water Quality

Records of surface-water quality are usually obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, quarterly or semi-annually. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous station is a site other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records", as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 8.

On-Site Measurements and Sample Collection

A primary concern of the water-quality data acquisition efforts of the U.S. Geological Survey is how well the data collected represent on-site water-quality conditions. Measurements of unstable variables such as water temperature, pH, and dissolved oxygen are made on site when samples are taken to assure that the reported readings accurately represent the water-quality at the time of sampling. Standard Geological Survey procedures for the collection, treatment, and, if necessary, shipment of samples prior to laboratory analysis are also followed to assure that the constituents for which these samples are analyzed have changed minimally from their on-site values. Documentation of these representative sampling procedures is given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; and Book 5, Chaps. A1, A3, and A4. These references are listed at the conclusion of the introductory section of this report. Supplemental information to that found in the listed references may be obtained from the U.S. Geological Survey, District office.

One sample can adequately define the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (NASQAN) program are obtained from at least several verticals. Whether samples collected at other sites are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

Water Temperature

Water temperatures are measured at the water-quality stations, and are also obtained at the time of discharge measurements for water-discharge stations. At stations where recording instruments are used, maximum and minimum temperatures for each day are published. Daily-mean temperatures for these stations and water temperatures measured at the time of water-discharge measurements are on file in the District office.

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.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples are usually 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 section. Although data collected periodically may represent conditions only at the time of sampling, data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of a stream.

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

Laboratory Measurements

Samples for indicator bacteria are analyzed locally. Samples for the National Stream Quality Accounting Network, the Hydrologic Bench-Mark Network (see definitions), and several long-term trend stations are analyzed in the Geological Survey laboratory in Arvada, Co. All sediment samples are analyzed by the Pennsylvania District Sediment Laboratory. Georgia Environmental Protection Division (EPD) network samples are analyzed by the Laboratory Services Section, Georgia Department of Natural Resources, Environmental Protection Division, and this is so stated in the "Remarks" section of the station description.

Data Presentation

Water-quality records collected at a surface-water daily-record station are published immediately following that record, regardless of the sampling frequency. Station number and name are the same for both records. If no daily surface-water record is available, continuing water-quality record is published with its own station number and name in the regular downstream-order sequence, while data for partial-record stations and miscellaneous sites appear in separate tables following tables of discharge at partial-record stations and miscellaneous sites. Here each partial-record station and miscellaneous site is published with its own station number and name in the regular downstream-order sequence and without descriptive statements.

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for constituents measured daily. Tables of chemical, physical, biological, and radiochemical data obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

If the location is identical to that of the discharge-gaging station, the LOCATION and the DRAINAGE AREA statements are not repeated in the descriptive headings. The following information, as appropriate, is provided with each continuing record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of constituents measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the constituents individually.

EXTREMES.--Maximums and minimums are given only for constituents measured daily or more frequently. None are given for constituents measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in 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 the appropriate computer file to insure the most recent updates.

Remark Codes

The remark codes that may appear with the water-quality data in this report are as follows:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (Organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

Records of Ground-Water Levels

Water-level data from national and State networks of observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the State's most important aquifers. Locations of the observation wells in this report are shown in figure 9.

Although, in this report, records of water levels are presented for fewer than 30 wells, records are obtained through cooperative efforts of many Federal, State, and local agencies for about 1,400 wells throughout Georgia and are placed in computer storage. Each spring, the Georgia District and the Georgia Department of Natural Resources, Environmental Protection Division, Geologic Survey Branch, publish a report for the previous calendar year entitled "Ground-Water Data for Georgia, 198". This report contains hydrographs of recorder wells, detailed maps showing water levels from the previous year, and other useful items. Information about the availability of the data in the water-level file may be obtained from the District Chief, Georgia District.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used ensure that measurements at each well are consistently accurate and reliable.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, based on the "U.S. Geological Survey Index to Topographic Maps of Georgia." Each 7.5-minute topographic quadrangle in the State has been given a number and letter designation beginning at the southwest corner of the State. Numbers increase eastward and letters progress alphabetically northward. The letters "I" and "O" are omitted. Quadrangles in the northern part of the State are designated by double letters. Wells inventoried in each quadrangle are numbered consecutively beginning with 1.

Water-level records are obtained from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (LSD). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The station description precedes the tabular data and is presented through use of descriptive headings. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and(or) screened interval method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers. Periods of missing or estimated record are described in this section.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet above or below land-surface datum. Missing records are indicated by dashes in place of the water level. The highest, lowest, and mean water levels of the water years are shown on lines below the table.

Records of Precipitation Quality

The precipitation-quality data presented in this report represent analyses of time-composite samples, most often for a collection period of one week. This is in contrast to most of the published surface-water quality data which represent samples taken of specific times.

On-Site Measurements and Sample Collection

Precipitation samples are collected with wet/dry collectors or bulk samplers. The wet/dry collector is the preferred precipitation sampler and consists of a bucket which is open only during periods of wet (rainfall, snow, etc.) precipitation. During dry periods the sample bucket is covered, thus excluding dry-fall precipitation from the sample. Bulk samplers are less desirable because they collect both wet- and dry-fall precipitation. However, they are useful as backups during times when the wet/dry samplers fail to properly function. Bulk samplers consist of a catchment area, such as a funnel, where the sample is collected and then fed through a delivery tube to the sample receptacle. The tubing is looped in order to minimize sample evaporation. If necessary, wet/dry samplers can also be used as makeshift bulk samplers by leaving them in the open position for the collection period.

Accurate measurements of precipitation quantity also are made at each station. One of two types of recording gages is normally used. National Trends Network (NTN) stations are equipped with weighing-bucket rain gages, which graphically record rainfall as well as count rainfall events. The other commonly-used recording gage consists of a rainfall catchment pipe and a float-driven digital recorder which periodically records the water-level in the pipe.

Time-composite wet- and bulk-precipitation samples are collected and brought back to the laboratory and weighed. Rainfall quantity is estimated from the sample weight. A temperature-density correction can be applied if desired but normally this correction results in a very small change in the estimated quantity of rainfall. An estimation of the sampler efficiency is made by computing the ratio of rainfall amount collected in the sample bucket to that measured by the recording rain gage. This collector efficiency ratio is an important indicator of possible collector malfunction. For example, a ratio substantially less than one indicates that the wet/dry collector was not opening properly and thus, excluding rainfall.

After weighing the sample, a small portion is removed for measurement of pH, specific conductance, and, in some instances, titratable acidity. The pH and special conductance are both determined electrometrically according to methods described in the National Atmospheric Deposition Program "NADP Instruction Manual: Site Operation". The remainder of the sample is then used for laboratory chemical analyses. This portion of the sample is shipped to the laboratory raw and untreated. In the case of NTN operation, the original bucket is resealed and mailed to the Illinois State Water Survey Central Analytical Laboratory (CAL) for analysis. In all other instances, sample portions are preserved, treated, and analyzed according to specific project requirements.

Data presentation

Records of precipitation quality are published following the "records of ground-water" section of this report. As with records of daily water discharge and surface-water quality, precipitation-quality records consist of two parts, a station header and a data table. The station header contains the descriptive information pertinent to the establishment, location, and operation of the site. Records are presented alphabetically by county and, within each county, by latitude, longitude, and sequence number. As with ground-water wells, the primary site identifier used for precipitation-quality stations in this report is the 15-digit composite of these three numbers. The following text presents a clarification of the subheadings which follow the station identification number and station name.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge"; same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published precipitation-quality records for the station. Periods of record are presented separately for each type of sample collected at the site (in this report, either wet precipitation, bulk precipitation, or both).

INSTRUMENTATION.--In this section, an abbreviated-style listing of the data-recording and sample-collection equipment permanently housed at the site is presented.

REMARKS.--This section is reserved for comments pertaining to unusual or extraordinary circumstances or to qualifying information which must be used to accurately interpret the data presented for the site. More general comments which may pertain to several or all of the sites are presented in the "EXPLANATION OF RECORDS" section in the introductory part of the report.

ACCESS TO WATSTORE DATA

The National WATER Data STORAGE and RETRIEVAL System (WATSTORE) was established for the management and use of water data collected through the activities of The U.S. Geological Survey and to provide 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 U.S. Geological Survey at its National Center in Reston, Va.

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 charge can be obtained locally from each of the Water Resources Division's district offices (see the address given on the back of title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, VA 22092

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.

Adenosine triphosphate (ATP) is an organic, high-energy phosphate-bond containing compound used by living cells as an energy source for biochemical reactions. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic unicellular, colonial, or multicellular plants which contain chlorophyll and other pigments.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is a measure of the proton-accepting capacity of a solution. This property is also referred to as its "acid-neutralizing capacity", and is equal to the sum concentration of all proton acceptors in the solution or the total strong base concentration. Total alkalinity is operationally defined as the alkalinity neutralized by titration with a strong acid to the carbonic acid equivalence point.

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, and often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a group of bacteria used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rodshaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria also found 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 ± 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the sediment mixture 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 105°C for zooplankton and 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 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 organism 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, 2,447 cubic meters, approximately 1.9835 acre-feet, or about 646,000 gallons.

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 in most plant tissue. Chlorophyll a and b are the two most common pigments in plants.

Collector efficiency is a measure of the quantity of wet precipitation (usually rain) collected by a precipitation collector relative to that which actually fell from the atmosphere. Operationally, this measure is taken as the ratio of rain volume in the precipitation collector to rain volume measured by a recording rain gage.

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 foot per second (ft^3/s , or CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic feet per second per square mile [$(\text{ft}^3/\text{s})/\text{mi}^2$ or 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.

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 water sample which passes through a 0.45 μm 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.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

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 from upstream specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

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

Gage height (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 concentration of calcium carbonate (CaCO_3).

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

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.

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

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram ($\mu\text{g/g}$, $\mu\text{g/g}$) 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 solution. 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 solution. Concentration of suspended sediment also is expressed in mg/L , and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929 or 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.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in national or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the spatial and temporal variability of the composition of atmospheric deposition which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific variable. The codes used in WATSTORE are mostly the same as those used in the U.S. Environment Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

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:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
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 distributions 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.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population in terms of types, numbers, mass, or volume.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

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 (dps). A picocurie yields 2.22 disintegrations per minute (dpm).

Plankton is the community of suspended, floating, or weakly swimming organism 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 per milliliter (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 per milliliter (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.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg C}/(\text{m}^3 \cdot \text{time})$] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg O}_2/(\text{m}^3 \cdot \text{time})$] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either hour or day, depending on the incubation period.

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.

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.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

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.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and close to it. In this report bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

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).

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

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 calculated in units of tons per day as follows: concentration (mg/L) $\times$ discharge (ft^3/s) $\times$ 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

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 mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in a solvent (such as water).

Specific conductance is a measure of the ability of a water solution to conduct an electrical current. It is expressed in microsiemens 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 microsiemens). 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 of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton.

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 localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

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

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on 0.45-micrometer filter.

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 µm 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 determinations of (1) dissolved and (2) total recoverable concentration 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 µm 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 concentration of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

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Kingdom.....Animalia
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species.....Hexagenia limbata

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Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

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

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" indicates that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," and so on.

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.

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

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found, thoroughly mixed, in a reservoir containing all the water passing a given location during the water year.

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting 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) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, CO 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for 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. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. General field and office procedures for indirect discharge measurements, by M.A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M.A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. Measurement of peak discharge at culverts by indirect methods, by G.L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. Measurement of peak discharge at width contractions by indirect methods, by H.F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. General procedure for gaging streams, by R.W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. Stage measurements at gaging stations, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. Discharge measurements at gaging stations, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. Measurement of time of travel and dispersion in streams by dye tracing, by E.F. Hubbard, F.A. Kilpatrick, L.A. Martens, and J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 3-A10. Discharge ratings at gaging stations, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 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-A12. Fluorometric procedures for dye tracing, by J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages.
- 3-A13. Computation of continuous records of streamflow, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. Use of flumes in measuring discharge, by F.A. Kilpatrick and V.R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. Computation of water-surface profiles in open channels, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. Measurement of discharge using tracers, by F.A. Kilpatrick and E.D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.

- 3-A17. Acoustic velocity meter systems, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 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. 1972. 18 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. 40 pages.
- 5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, edited by P.E. Greenson, T.A. Ehlike, 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-A6. Quality assurance practices for the chemical and biological analyses of water and fluvial sediments, by L.C. Friedman and D.E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 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-A2. Installation and service manual for U.S. Geological Survey manometers, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 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.

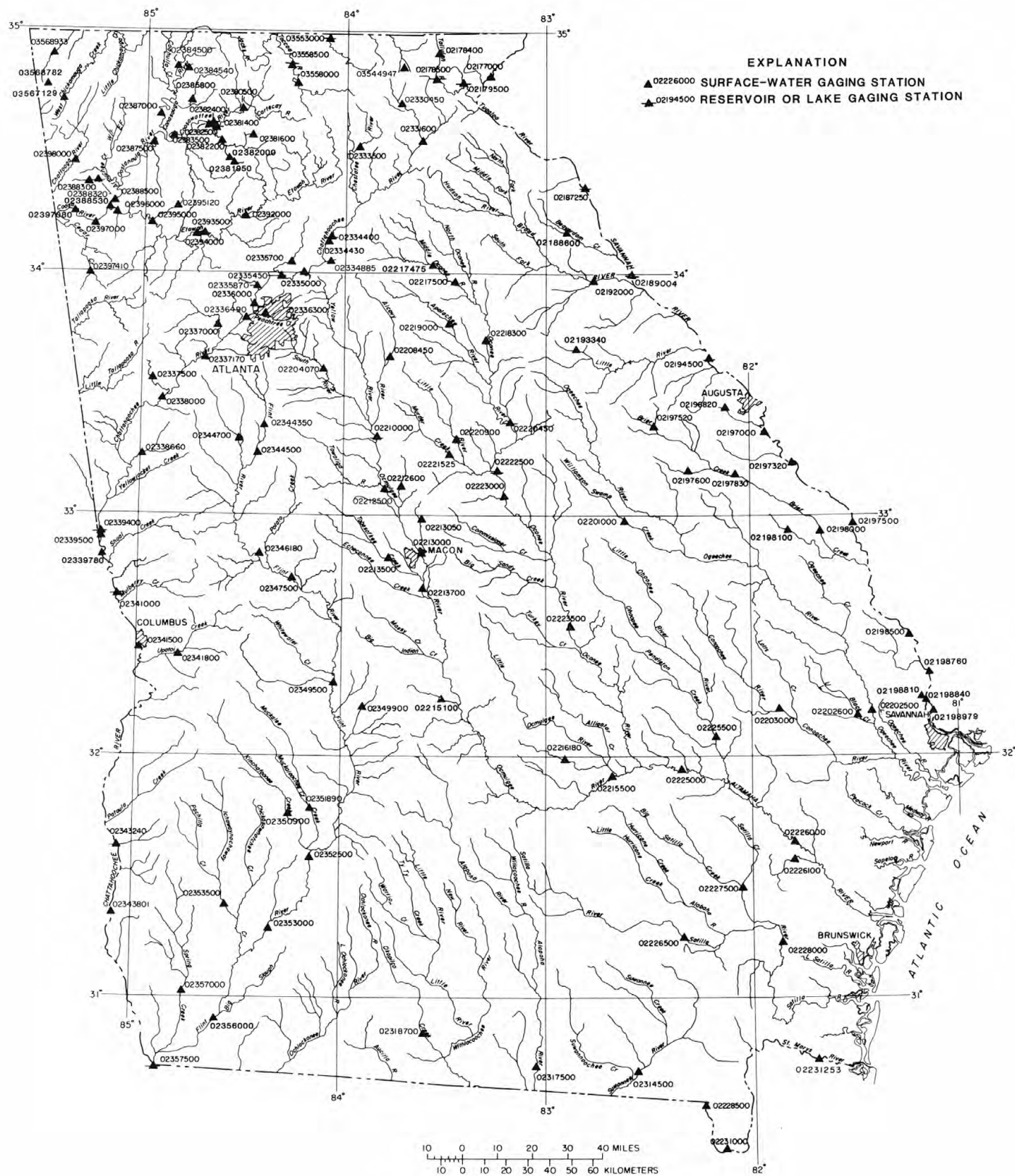


Figure 5.—Location of gaging stations.

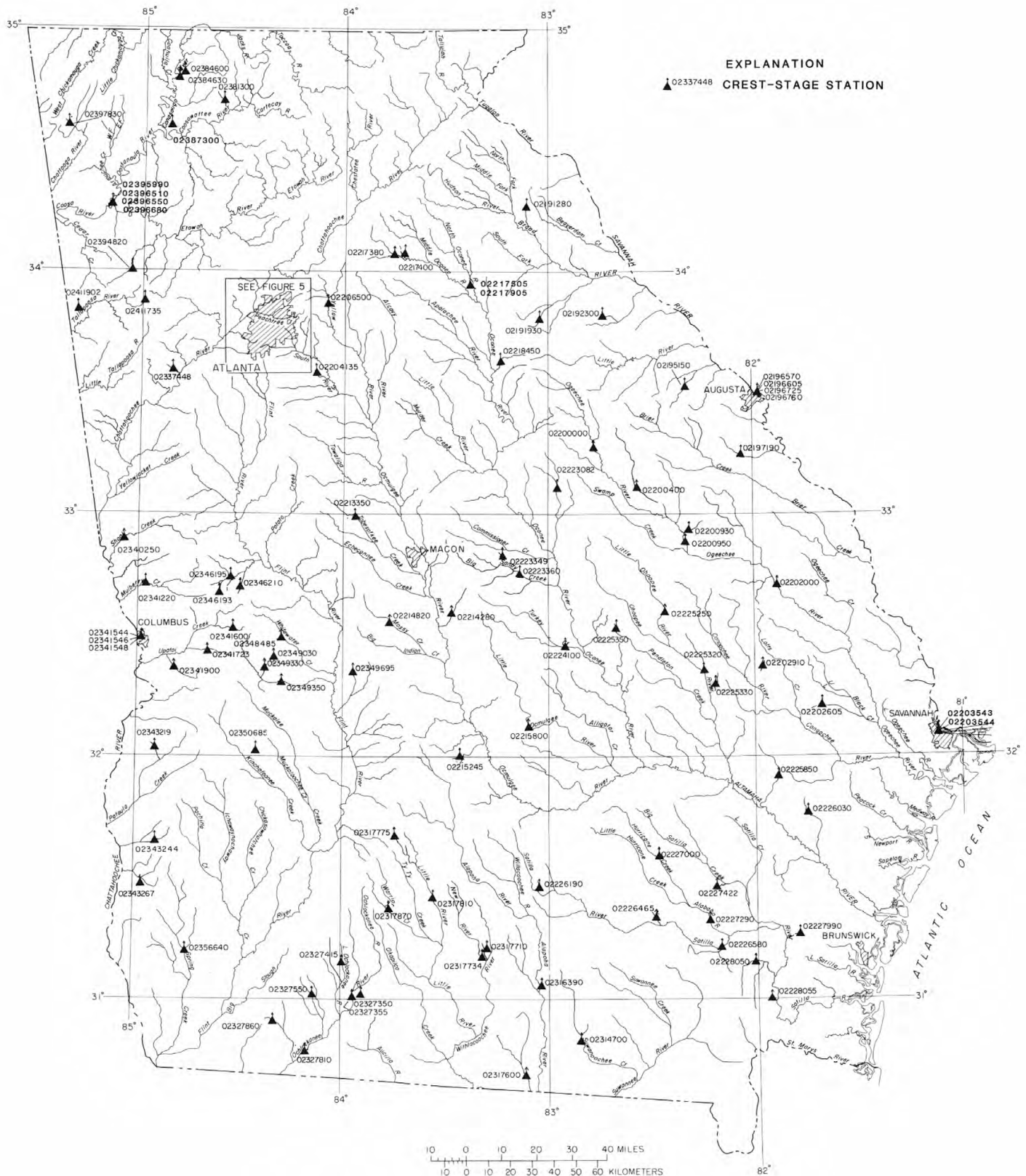


Figure 6.—Location of crest stage partial-record stations.



Figure 7.--Location of crest stage partial-record stations in Atlanta metropolitan area.

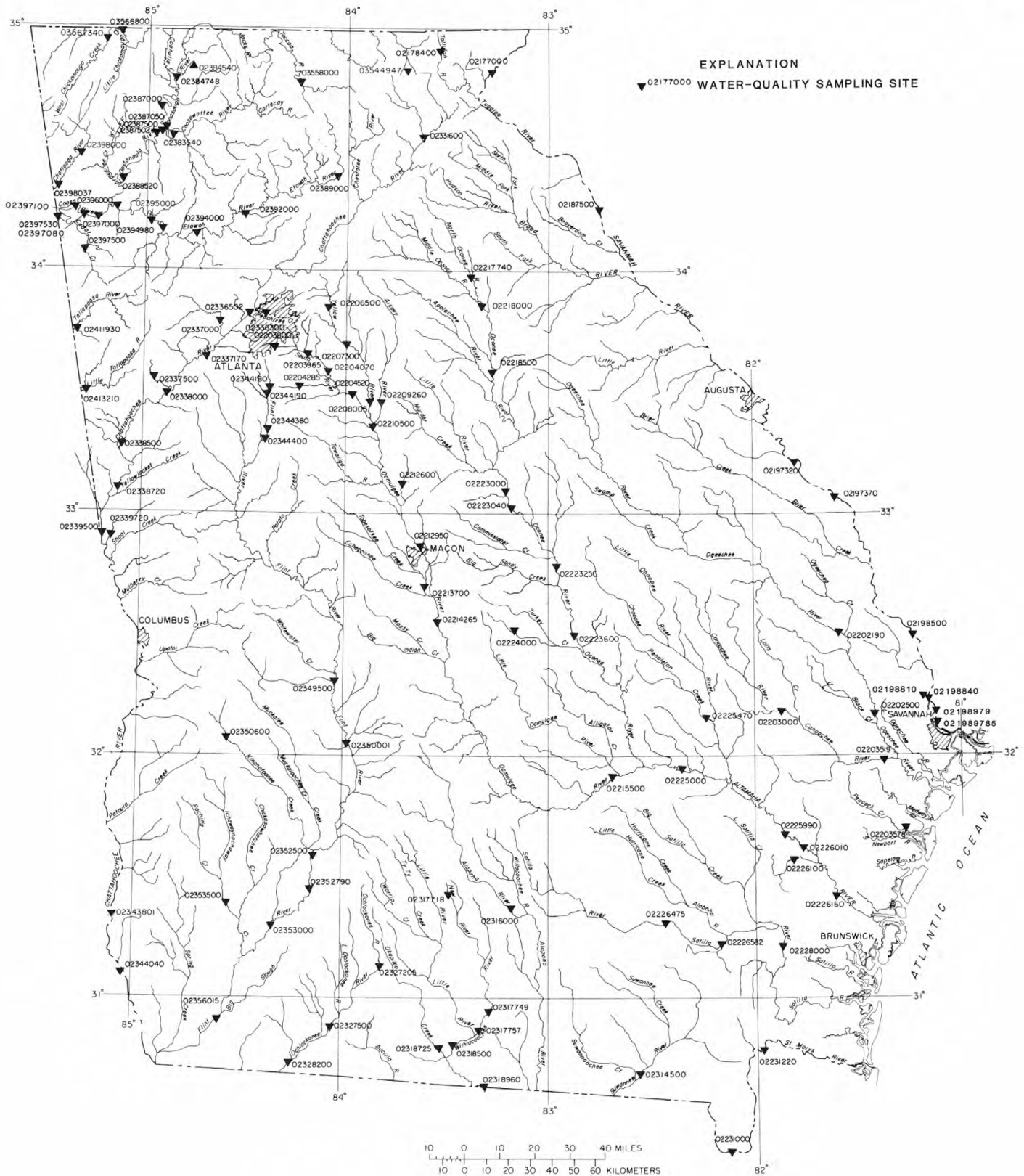
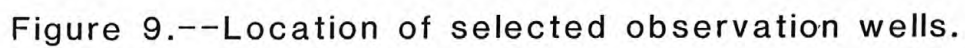


Figure 8.—Location of surface-water-quality stations.



HYDROLOGIC-DATA STATION RECORDS

SURFACE-WATER RECORDS

REMARK CODES.--The following remark codes may appear with the water-quality data in this section:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (Organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

HYDROLOGIC-DATA STATION RECORDS

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SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.

LOCATION.--Lat 34°48'50", long 83°18'22", Oconee County, S.C.-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 May 1907 to June 1908, published in WSP 1303.

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

GAGE.--Water-stage recorder. Datum of gage is 1,165.6 ft above National Geodetic Vertical Datum of 1929. May 1907 to June 1908, nonrecording gage at site 400 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Aug. 1-4. Records good.

AVERAGE DISCHARGE.--48 years (water years 1940-87), 652 ft³/s, 42.77 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 greater than base discharge 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)
Nov. 26	1430	*10,400	*7.34	Mar. 1	0245	5,220	5.01
Dec. 24	0745	4,090	4.38				

Minimum discharge, 96 ft³/s, Oct. 7, 8, gage height, 0.80 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	290	1070	733	704	3440	1180	591	521	407	270	162
2	120	342	1930	702	848	1750	1030	592	472	533	275	157
3	115	286	1370	650	917	1380	1390	573	441	502	260	147
4	110	260	1050	627	808	1180	1440	572	484	584	260	141
5	105	278	890	606	748	1070	1180	554	446	519	266	149
6	101	304	787	582	709	995	1070	551	406	460	346	555
7	97	300	719	575	692	941	1020	541	386	437	380	1220
8	97	493	688	556	657	923	971	522	372	440	292	488
9	118	449	823	539	620	1030	929	503	361	392	300	334
10	262	382	1050	575	599	1000	885	497	355	373	251	612
11	189	354	1300	543	592	904	857	489	360	353	235	601
12	162	496	1200	513	587	871	823	502	363	448	222	530
13	409	409	943	499	566	836	795	557	356	360	221	622
14	762	362	823	486	564	802	787	640	363	328	216	436
15	355	373	758	502	570	777	1230	614	369	322	209	359
16	239	377	706	486	712	756	1020	561	452	305	214	324
17	198	345	665	479	767	732	917	504	411	293	252	379
18	175	320	670	948	653	727	855	484	528	282	252	332
19	164	302	615	2190	616	1120	811	473	533	282	219	293
20	155	380	582	1230	591	968	779	510	690	271	209	297
21	150	517	555	941	589	857	759	548	591	266	193	265
22	146	401	533	906	606	792	733	488	464	261	184	244
23	143	367	574	784	689	753	715	466	552	255	178	232
24	140	403	2750	713	621	742	714	451	464	245	174	224
25	967	418	1510	847	593	1110	679	438	421	240	168	219
26	1630	4420	1120	1040	588	987	660	496	870	245	171	212
27	644	2250	566	838	876	883	644	449	639	245	174	207
28	465	1260	882	767	2700	893	638	501	472	328	165	204
29	370	957	813	718	---	818	614	754	419	245	175	205
30	307	796	768	720	---	1020	605	663	392	240	161	303
31	275	---	720	746	---	1660	---	559	---	250	156	---
TOTAL	9291	18891	29830	23041	20782	32717	26730	16643	13953	10711	7048	10453
MEAN	300	630	962	743	742	1055	891	537	465	346	227	348
MAX	1630	4420	2750	2190	2700	3440	1440	754	870	584	380	1220
MIN	97	260	533	479	564	727	605	438	355	240	156	141
CFSM	1.45	3.04	4.65	3.59	3.59	5.10	4.30	2.59	2.25	1.67	1.10	1.68
IN.	1.67	3.39	5.36	4.14	3.73	5.88	4.80	2.99	2.51	1.92	1.27	1.88

CAL YR 1986	TOTAL	143411	MEAN 393	MAX 4420	MIN 97	CFSM 1.90	IN 25.77
WTR YR 1987	TOTAL	220090	MEAN 603	MAX 4420	MIN 97	CFSM 2.91	IN 39.55

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
22...	1000	145	16	16	6.90	7.00	12.0	14.5	9.9	95
NOV										
19...	1030	305	15	15	7.10	6.60	10.5	12.5	9.0	84
DEC										
17...	1100	660	14	12	6.80	6.70	7.5	10.5	11.2	97
JAN										
27...	1100	840	12	13	7.00	--	4.0	1.0	12.5	99
FEB										
19...	1030	617	13	13	7.00	6.70	6.0	6.0	11.8	98
MAR										
11...	1115	909	12	12	6.80	6.60	7.5	7.0	11.5	99
APR										
15...	1145	1560	14	13	6.90	6.70	14.0	24.0	9.9	101
MAY										
13...	0850	560	14	14	7.00	6.90	17.0	21.0	9.5	102
JUN										
10...	1030	353	14	15	7.00	7.30	20.5	23.5	9.1	104
JUL										
15...	1015	293	15	14	7.10	6.80	22.5	25.5	8.4	101
AUG										
12...	1210	221	16	16	7.30	7.10	25.0	29.0	8.8	111
SEP										
09...	1050	335	15	18	6.90	6.40	21.5	30.5	8.6	102

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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)
OCT									
22...	1.0	4	1.5	20	1.7	7.0	--	<0.020	0.030
NOV									
19...	1.0	3	1.4	<20	0.9	6.0	<1	<0.020	0.060
DEC									
17...	2.0	5	1.6	65	1.8	6.0	3	0.030	0.090
JAN									
27...	1.0	<1	0.6	<20	0.6	3.0	1	<0.020	0.040
FEB									
19...	<1.0	4	0.5	80	1.4	7.0	7	0.060	0.020
MAR									
11...	1.0	22	0.4	130	1.5	5.0	<1	0.020	0.140
APR									
15...	11	4	1.4	1100	2.0	8.0	26	0.030	0.020
MAY									
13...	3.0	6	1.2	70	1.2	6.0	3	0.020	0.030
JUN									
10...	<1.0	2	0.6	80	1.2	6.0	4	<0.020	0.050
JUL									
15...	1.0	4	0.9	20	0.8	5.0	3	0.030	<0.020
AUG									
12...	3.0	--	0.7	70	0.6	6.0	3	<0.020	0.040
SEP									
09...	10	--	0.8	1100	1	4.0	11	0.030	0.180

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 22...	0.07	0.10	--	<0.020	1.5
NOV 19...	--	<0.10	--	<0.020	3.0
DEC 17...	--	<0.10	--	0.030	1.4
JAN 27...	--	<0.10	--	<0.020	1.8
FEB 19...	0.08	0.10	0.16	<0.020	1.9
MAR 11...	0.26	0.40	0.42	<0.020	1.0
APR 15...	0.38	0.40	0.43	0.030	18
MAY 13...	--	<0.10	--	0.040	1.8
JUN 10...	0.15	0.20	--	<0.020	2.5
JUL 15...	--	0.10	0.13	<0.020	3.4
AUG 12...	--	--	--	<0.020	1.7
SEP 09...	--	--	--	0.030	4.2

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 above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--23 years, 189 ft³/s, 45.43 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft³/s, May 28, 1973, gage height, 12.00 ft; minimum discharge, 27 ft³/s, Oct. 8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Nov. 26	1015	*3,510	*7.69	Feb. 28	2030	1,660	5.46

Minimum discharge, 27 ft³/s, Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	69	278	159	210	863	239	143	133	100	61	42
2	31	61	408	147	280	482	218	139	123	139	63	39
3	30	58	295	138	269	362	334	143	110	117	62	37
4	30	55	233	134	240	311	276	137	106	153	62	37
5	30	76	198	129	218	278	245	134	101	125	66	40
6	28	76	175	125	205	255	229	132	96	110	143	181
7	28	113	159	123	195	240	222	129	93	102	122	127
8	28	133	167	120	185	236	212	124	90	95	77	72
9	65	114	252	117	174	251	204	122	88	91	63	56
10	54	96	321	125	166	228	196	120	98	89	59	51
11	40	149	406	116	161	213	190	118	94	89	59	55
12	42	148	334	113	158	210	183	133	89	82	55	67
13	128	119	261	110	153	201	177	127	94	78	54	64
14	130	99	223	109	155	193	195	155	102	83	52	55
15	62	107	199	117	151	187	334	137	99	75	55	50
16	50	94	181	111	202	183	263	132	119	72	58	68
17	45	88	169	111	179	177	236	121	132	70	53	59
18	42	82	170	380	168	185	217	119	104	68	51	52
19	40	77	152	646	160	226	203	135	105	67	65	70
20	39	153	143	343	155	191	194	126	192	65	54	72
21	38	135	136	260	156	183	187	122	130	63	47	54
22	37	113	130	242	169	175	180	117	132	62	46	49
23	36	115	180	206	182	169	174	128	178	61	44	47
24	36	141	444	191	167	174	169	121	127	59	44	45
25	379	183	281	269	160	207	163	122	125	58	44	44
26	229	1430	230	257	167	177	159	116	138	59	44	43
27	114	498	204	215	346	192	155	126	109	62	43	42
28	86	289	186	197	989	192	152	126	99	59	44	42
29	73	219	173	189	---	182	148	131	93	61	46	44
30	66	187	163	227	---	244	146	131	89	88	41	98
31	60	---	154	227	---	294	---	124	---	82	42	---
TOTAL	2128	5277	7605	5953	6120	7661	6200	3990	3388	2584	1819	1802
MEAN	68.6	176	226	192	219	247	207	129	113	83.4	58.7	60.1
MAX	379	1430	444	646	989	863	334	155	192	153	143	181
MIN	28	55	130	109	151	169	146	116	88	58	41	37
CFSM	1.21	3.12	4.00	3.40	3.88	4.37	3.66	2.28	2.00	1.48	1.04	1.06
IN.	1.40	3.47	4.61	3.92	4.03	5.04	4.08	2.63	2.23	1.70	1.20	1.19

CAL YR 1986	TOTAL	35238	MEAN	96.5	MAX	1430	MIN	28	CFSM	1.71	IN	23.20
WTR YR 1987	TOTAL	53927	MEAN	148	MAX	1430	MIN	28	CFSM	2.62	IN	35.51

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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
MAY 07...	1130	133	13	20	7.20	8.00	14.0	9.2	96
AUG 25...	1115	45	21	25	7.12	7.40	20.0	8.2	95

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB 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)	ALKA- LITY LAB (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS C02)
MAY 07...	3	1.5	5	0	1.2	0.50	1.3	33	0.3	0.50	7.0	0.9
AUG 25...	2	1.3	6	0	1.6	0.58	1.5	31	0.3	0.60	10	1.5

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
MAY 07...	4.3	0.90	<0.10	8.8	8	22	2.9	0.01	<0.100	1.10	0.010	0.050
AUG 25...	1.7	0.70	0.10	11	23	24	2.8	0.03	0.100	0.150	0.010	<0.010

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- (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)
MAY 07...	0.39	0.25	0.40	0.30	--	--	0.020	0.020	0.8	<10	<1	<1
AUG 25...	0.39	--	0.40	0.50	0.50	--	0.010	<0.010	1.1	20	<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)
MAY 07...	<1	<10	1	30	91	<5	4	<0.10	<0.1	<1	11
AUG 25...	<1	40	<1	51	15	<5	7	0.20	0.1	<1	6

SAVANNAH RIVER BASIN

02187500 SAVANNAH RIVER NEAR IVA, S.C.

LOCATION.--Lat 34°15'20", long 82°44'42", Anderson County, S.C.-Elbert County, Ga., Hydrologic Unit 03060103, at 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 Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey. Water-discharge records 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 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 19...	0845	42	39	6.80	6.60	15.0	13.0	6.3	63
MAR 11...	0945	38	36	7.00	7.00	9.0	4.0	11.2	97
MAY 13...	1040	37	39	7.30	7.40	23.0	22.5	8.6	101
AUG 12...	0950	40	39	7.30	7.20	26.5	28.5	8.9	112

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
NOV 19...	4.0	1.3	50	4.3	14	0.050	0.130	<0.020	2.3	470	230
MAR 11...	5.0	0.6	50	2.1	11	0.220	0.170	0.040	1.3	--	--
MAY 13...	<1.0	0.9	<20	1.1	11	--	0.030	<0.020	4.3	350	10
AUG 12...	2.0	1.6	80	1.2	12	<0.020	0.030	<0.020	2.4	1200	100

SAVANNAH RIVER BASIN

39

02188600 BEAVERDAM CREEK ABOVE ELBERTON, GA.

LOCATION.--Lat 34°10'07", Long 82°53'48", Elbert County, Hydrologic Unit 03060103, at left bank on downstream end of bridge on County Road 310, 200 ft downstream from Little Beaverdam Creek, 3.25 mi east of Dewey Rose, and 4.3 mi northwest of Elberton.

DRAINAGE AREA.--72 mi².

PERIOD OF RECORD.--October 1986 to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 530 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: July 8-29 and Sept. 7-10, 22-26. Records good, except those for periods of estimated daily discharge, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,630 ft³/s, Mar. 1, 1987, gage height, 9.53 ft; minimum daily discharge 5.0 ft³/s, Oct. 8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	1345	1,140	8.07	Mar. 1	0100	*1,630	*9.53
Jan. 26	0800	743	6.68	Mar. 30	2345	746	6.70

Minimum daily discharge, 5.0 ft³/s, Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	52	172	127	104	1260	219	63	50	73	31	13
2	9.0	52	212	138	121	490	167	61	49	74	34	13
3	8.1	47	174	97	131	370	159	59	44	152	65	13
4	7.1	40	129	80	114	293	165	59	44	230	42	12
5	6.6	38	100	71	105	189	141	56	42	84	34	12
6	5.9	36	82	63	101	157	131	56	40	63	48	22
7	5.2	35	72	61	137	134	124	56	39	56	124	38
8	5.0	56	67	58	130	170	119	53	38	50	62	35
9	5.1	50	65	55	111	197	115	50	37	42	56	31
10	11	42	67	56	101	159	110	48	36	39	45	29
11	12	41	86	55	97	134	108	47	35	36	37	29
12	12	48	109	51	95	119	105	50	34	34	32	31
13	44	44	92	49	91	111	103	51	37	32	29	35
14	436	37	77	48	87	105	104	231	44	31	27	30
15	168	45	69	53	86	102	134	137	44	30	27	26
16	104	52	65	55	95	100	139	96	49	29	27	24
17	68	49	63	57	103	96	119	80	54	28	26	23
18	47	47	69	288	95	95	108	70	51	27	25	22
19	49	43	66	978	83	106	97	67	48	26	24	22
20	42	87	59	492	82	103	92	64	68	25	24	24
21	26	160	54	285	80	97	89	61	66	24	22	23
22	20	103	51	297	81	89	86	60	55	23	20	34
23	19	79	57	291	89	85	84	60	53	22	21	30
24	19	66	148	194	82	85	92	60	51	21	19	25
25	88	65	176	251	76	124	84	57	76	20	18	22
26	481	112	126	566	80	115	77	55	245	19	17	20
27	205	146	99	262	230	125	73	53	177	19	17	17
28	139	105	83	194	880	149	72	51	128	18	16	15
29	99	83	72	159	---	114	68	50	100	17	15	14
30	74	82	66	138	---	181	66	48	85	36	14	13
31	59	---	61	115	---	458	---	47	---	42	14	---
TOTAL	2283.0	1942	2888	5684	3672	6112	3350	2056	1919	1422	1012	697
MEAN	73.6	64.7	93.2	183	131	197	112	66.3	64.0	45.9	32.6	23.2
MAX	481	160	212	978	880	1260	219	231	245	230	124	38
MIN	5.0	35	51	48	76	85	66	47	34	17	14	12
CFSM	1.02	.90	1.29	2.54	1.82	2.74	1.56	.92	.89	.64	.45	.32
IN.	1.18	1.00	1.49	2.94	1.90	3.16	1.73	1.06	.99	.73	.52	.36

WTR YR 1987 TOTAL 33037.0 MEAN 90.5 MAX 1260 MIN 5.0 CFSM 1.26 IN 17.07

SAVANNAH RIVER BASIN

02192000 BROAD RIVER NEAR BELL, GA.

LOCATION.--Lat 33°58'27", long 82°46'12", Elbert-Wilkes County line, Hydrologic Unit 03060104, at downstream side of main channel pier of bridge on State Highway 17, 0.5 mi 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 October 1926, August to September 1932, 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 above 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.--Estimated daily discharges: Mar. 16-24 and July 19-28. Records good, except for periods of estimated daily record, which are fair. Records of chemical analyses for the 1970-79 water years are in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--56 years (water years 1927-32, 1938-87), 1,790 ft³/s, 17.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft³/s, Oct. 2, 1929, gage height, 34.8 ft, from rating curve extend above 30,000 ft³/s on basis of slope-conveyance studies; minimum daily, 96 ft³/s, July 23, 1986.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Jan. 20	0900	14,300	17.69	Mar. 2	0600	*23,200	*22.49

Minimum daily discharge, 131 ft³/s, Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	857	3980	2340	1930	18800	8260	1130	754	621	375	182
2	179	915	5850	3450	1930	22200	3620	1100	756	631	416	187
3	178	853	4480	2170	2300	14600	2830	1070	746	894	563	192
4	169	749	2840	1640	2070	5110	2950	1050	707	1470	580	188
5	159	694	2100	1470	1820	3730	2600	1040	685	1360	707	176
6	151	675	1720	1350	1700	3050	2230	1040	658	1090	615	190
7	144	660	1470	1280	2050	2650	2060	1030	618	905	875	2060
8	133	790	1330	1240	2400	3410	1940	1010	585	811	1220	1190
9	131	809	1260	1190	1980	4700	1840	969	566	711	901	657
10	174	717	1280	1180	1730	3700	1760	929	551	642	668	478
11	278	677	1420	1200	1620	2840	1690	909	544	591	525	383
12	334	304	2030	1140	1570	2440	1650	916	540	556	454	342
13	323	1020	2060	1080	1540	2250	1590	978	568	544	398	364
14	2000	858	1640	1060	1500	2130	1560	1110	624	531	362	506
15	1860	761	1400	1070	1480	2070	1780	1450	685	520	333	449
16	1030	864	1290	1130	1500	2000	2290	1300	703	514	318	363
17	687	857	1210	1200	1650	1950	1890	1110	1070	509	322	328
18	544	796	1270	2810	1570	1850	1690	1030	1060	506	316	310
19	475	750	1400	11600	1480	1850	1580	982	862	495	299	301
20	422	1120	1250	13500	1460	1750	1500	948	1050	475	309	323
21	387	3290	1140	6210	1440	1700	1450	995	1520	455	311	450
22	366	2390	1060	5590	1440	1650	1410	948	1340	435	283	420
23	349	1540	1050	7340	1550	1600	1360	932	993	410	260	329
24	338	1220	2340	5030	1600	1550	1440	884	843	390	246	288
25	397	1090	5890	3740	1470	1940	1500	839	770	370	234	270
26	5270	1370	3250	8330	1450	2450	1340	804	1330	350	225	261
27	8250	5090	2260	7100	2790	2550	1270	785	1250	330	222	255
28	3300	4190	1830	3730	10600	4940	1240	766	939	320	221	250
29	1790	2490	1600	2840	---	3860	1210	760	759	323	213	245
30	1310	1940	1460	2420	---	3570	1170	746	668	350	197	245
31	1000	---	1360	2140	---	9830	---	756	---	403	186	---
TOTAL	32312	40836	64520	107570	57620	138720	60700	30316	24744	18512	13154	12182
MEAN	1042	1361	2081	3470	2058	4475	2023	978	825	597	424	406
MAX	8250	5090	5890	13500	10600	22200	8260	1450	1520	1470	1220	2060
MIN	131	660	1050	1060	1440	1550	1170	746	540	320	186	176
CFSM	.73	.95	1.46	2.43	1.44	3.13	1.42	.68	.58	.42	.30	.28
IN.	.84	1.06	1.68	2.80	1.50	3.61	1.58	.79	.64	.48	.34	.32

CAL YR 1986	TOTAL	300031	MEAN	822	MAX	8250	MIN	96	CFSM	.58	IN	7.80
WTR YR 1987	TOTAL	601186	MEAN	1647	MAX	22200	MIN	131	CFSM	1.15	IN	15.64

SAVANNAH RIVER BASIN

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02193340 KETTLE CREEK NEAR WASHINGTON, GA.

LOCATION.--Lat 33°40'57", long 82°51'29", Wilkes County, Hydrologic Unit 03060105, on right bank, 300 ft upstream from County Road 68, 1.35 mi upstream from Little Kettle Creek, and 7.8 mi southwest of Washington.
DRAINAGE AREA.--33.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1986 to September 1987.

GAGE.--Water-stage recorder. Datum of gage is 416.06 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 5 to Dec. 15, 1986. Records good, except those less than 250 ft³/s, which are fair to poor, and those for the period of estimated record, which are poor.EXTREMES FOR CURRENT PERIOD.--April 1986 to September 1987: Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 1	0115	*1,740	*11.26	Mar. 30	2400	1,660	10.99
Mar. 27	2045	1,120	9.01				

Minimum daily discharge, 0.58 ft³/s, Aug. 4, 1986.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	7.3	6.8	1.9	.86	7.0
2							---	7.0	6.2	3.5	.86	4.6
3							---	6.5	5.9	3.4	.68	3.7
4							---	6.3	6.0	2.1	.58	18
5							---	6.4	5.7	1.8	2.4	14
6							---	6.4	5.5	1.6	1.4	7.4
7							---	6.3	5.0	1.6	.80	5.0
8							---	6.3	5.4	1.4	1.6	3.7
9							---	5.9	5.8	1.2	1.7	3.3
10							---	5.6	11	1.1	.96	3.5
11							---	5.6	6.2	1.4	.77	3.4
12							---	5.4	5.0	1.1	2.9	3.3
13							---	5.2	4.3	.97	17	3.0
14							---	6.7	3.8	.86	20	2.4
15							---	5.9	3.8	1.5	9.8	2.2
16							9.1	5.5	3.7	1.7	6.5	2.6
17							8.7	5.4	3.3	1.3	5.6	2.8
18							8.9	4.8	2.8	1.5	5.6	3.0
19							8.6	8.0	2.6	.93	4.9	3.5
20							8.6	7.3	2.5	.79	5.7	2.9
21							17	5.5	2.2	.79	6.4	2.5
22							12	5.0	1.9	.77	4.5	2.5
23							9.6	4.6	1.9	.85	3.3	2.5
24							9.1	4.3	1.8	2.7	3.5	2.6
25							8.7	4.3	1.7	5.2	2.1	2.3
26							8.2	5.1	1.6	2.9	1.8	2.1
27							7.8	19	1.7	2.7	2.7	1.9
28							7.5	22	2.4	2.6	5.1	1.7
29							7.6	24	2.7	2.3	2.3	5.2
30							7.5	11	1.9	1.7	3.2	4.1
31							---	8.0	---	1.2	6.1	---
TOTAL							---	236.6	121.1	55.36	131.61	126.7
MEAN							---	7.63	4.04	1.79	4.25	4.22
MAX							---	24	11	5.2	20	18
MIN							---	4.3	1.6	.77	.58	1.7
CFSM							---	.23	.12	.05	.13	.12
IN.							---	.26	.13	.06	.14	.14

SAVANNAH RIVER BASIN

02193340 KETTLE CREEK NEAR WASHINGTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	7.1	58	177	23	516	58	11	4.5	6.6	4.5	3.6
2	2.4	6.8	64	66	30	67	41	11	4.7	16	9.6	2.9
3	2.2	5.0	40	39	32	43	38	10	5.3	16	38	3.2
4	1.9	4.2	30	34	26	35	34	10	9.5	17	15	3.1
5	1.8	3.7	22	32	23	30	30	10	6.3	12	16	4.2
6	1.3	3.5	19	27	23	27	28	9.9	6.2	18	17	9.3
7	1.2	3.5	18	26	34	26	26	9.7	5.6	16	52	12
8	1.2	3.7	16	24	29	106	25	9.4	5.3	6.8	14	6.1
9	2.7	3.4	15	23	24	76	23	8.8	5.1	5.7	8.8	4.9
10	5.9	3.2	15	24	23	45	22	9.0	5.0	4.9	7.4	4.1
11	4.5	3.1	19	23	22	34	22	11	5.1	4.7	6.3	3.6
12	3.3	3.3	22	21	21	31	21	15	5.2	4.7	7.4	3.6
13	7.6	3.4	19	21	21	28	21	18	6.9	4.4	6.6	3.9
14	21	3.2	16	20	20	26	22	19	9.4	4.1	5.8	3.4
15	4.6	3.5	15	22	19	25	27	15	8.9	3.8	4.6	3.0
16	2.6	3.7	15	22	24	24	22	12	9.9	3.5	3.7	2.9
17	1.9	3.8	14	30	22	23	21	10	8.8	3.3	2.8	2.9
18	1.8	3.4	17	148	20	23	20	9.3	6.0	3.3	2.0	2.6
19	1.7	3.4	15	177	20	28	18	8.8	5.6	3.4	3.1	3.7
20	1.6	9.0	14	62	19	24	17	8.2	19	3.1	3.6	24
21	1.6	20	13	44	19	22	17	8.1	11	3.0	2.4	6.7
22	1.6	16	12	312	26	21	16	8.0	7.9	3.0	2.3	4.4
23	1.7	12	16	92	36	21	16	7.4	9.0	3.1	2.1	3.8
24	1.7	10	70	45	26	20	16	6.8	7.5	2.8	3.3	3.4
25	5.5	9.6	48	121	23	39	15	6.4	6.5	2.2	3.6	3.4
26	6.9	18	35	100	26	29	14	5.8	7.5	1.7	3.4	3.2
27	3.1	29	30	47	159	231	13	6.2	8.9	1.6	3.1	3.2
28	2.7	31	26	35	421	152	13	5.8	7.6	2.2	2.6	3.2
29	2.5	22	24	30	---	48	12	4.8	7.0	3.3	2.3	3.7
30	2.5	35	23	28	---	201	12	4.2	7.0	6.8	2.0	4.9
31	2.9	---	22	25	---	394	---	4.4	---	6.1	2.4	---
TOTAL	106.8	286.5	782	1897	1211	2415	680	293.0	222.2	193.1	257.7	146.9
MEAN	3.45	9.55	25.2	61.2	43.3	77.9	22.7	9.45	7.41	6.23	8.31	4.90
MAX	21	35	70	312	421	516	58	19	19	18	52	24
MIN	1.2	3.1	12	20	19	20	12	4.2	4.5	1.6	2.0	2.6
CFSM	.10	.28	.74	1.81	1.28	2.30	.67	.28	.22	.18	.25	.15
IN.	.12	.31	.86	2.08	1.33	2.65	.75	.32	.24	.21	.28	.16
WTR YR 1987	TOTAL	8491.2	MEAN	23.3	MAX	516	MIN	1.2	CFSM	.69	IN	9.32

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 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.

REVISED RECORDS.--WDR GA-83-1: 1970(M), 1972(M), 1975-78(M), 1980(M), 1982(M).

GAGE.--Water-stage recorder. Elevation of gage is 280 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharge. Records good, except those below 1.0 ft³/s, which are fair.

AVERAGE DISCHARGE.--19 years, 8.11 ft³/s, 14.68 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, 0.06 ft³/s, Aug. 24, 1987.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	0945	*250	*4.94	Jan. 22	1130	165	3.93

Minimum daily discharge, 0.06 ft³/s, Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	18	39	76	11	48	14	3.6	1.1	1.3	.80	2.3
2	.50	7.5	22	22	13	18	12	3.2	.98	3.6	2.9	1.1
3	.47	4.1	14	12	12	14	13	3.0	1.2	5.4	1.4	.85
4	.46	3.1	9.6	11	10	12	12	2.7	1.7	3.4	.90	.72
5	.43	3.0	7.8	11	9.5	11	10	3.1	3.7	3.2	.72	1.1
6	.41	2.8	6.5	8.7	12	11	9.9	3.6	1.7	1.8	.63	1.5
7	.32	2.7	6.0	8.1	32	11	9.6	3.4	1.1	1.3	.63	9.0
8	.45	2.7	5.9	7.6	14	38	9.3	3.2	.98	1.2	.63	4.1
9	1.1	2.6	6.5	7.0	11	20	8.9	2.5	.82	1.0	.58	1.7
10	13	2.5	15	7.8	10	14	8.4	2.2	.68	.85	.45	1.1
11	5.8	2.4	14	6.8	9.7	12	8.1	2.3	.60	.78	.35	.87
12	2.8	4.2	18	6.0	9.5	11	7.9	12	.60	1.9	.32	2.5
13	2.7	3.8	12	5.7	8.9	11	7.5	12	.82	.95	.30	5.5
14	12	3.0	8.1	5.6	9.0	10	7.6	9.7	3.9	.68	.21	2.1
15	3.7	11	7.1	7.1	8.7	10	18	8.9	7.0	.57	.18	1.3
16	2.3	7.0	6.6	8.2	19	9.6	11	5.5	5.0	.45	.29	1.1
17	1.8	5.9	6.1	16	11	9.2	9.0	4.1	5.1	.40	.33	.98
18	1.5	5.3	7.2	31	9.8	9.8	9.3	3.4	3.3	.35	.29	.88
19	1.3	4.2	6.3	131	9.2	15	7.7	3.0	8.0	.33	.26	1.4
20	1.2	31	5.5	26	8.7	11	7.0	2.6	13	.33	.22	3.0
21	1.3	16	4.9	17	8.7	9.5	6.5	2.5	3.8	.32	.16	1.5
22	1.2	7.8	4.6	95	14	8.7	6.0	2.9	3.0	.36	.17	.97
23	1.2	6.0	9.7	27	13	8.3	5.6	2.7	3.1	.41	.11	.89
24	1.1	5.2	27	17	9.4	8.3	5.4	2.2	2.7	.80	.06	.76
25	3.6	5.0	13	20	8.8	22	5.1	2.0	4.5	1.7	.10	.64
26	3.5	7.7	8.8	18	10	13	5.1	1.7	6.4	.87	.14	.60
27	2.2	8.4	7.5	16	36	18	4.7	1.5	3.4	.59	.16	.48
28	1.7	5.6	6.6	14	43	28	4.4	1.6	2.0	.52	.15	.69
29	1.6	5.7	6.5	12	---	14	4.1	1.5	1.4	.59	.46	.98
30	2.1	32	5.8	12	---	28	3.9	1.3	1.2	.50	.92	2.8
31	6.0	---	5.5	11	---	29	---	1.2	---	.54	2.7	---
TOTAL	78.27	226.2	323.1	673.6	380.9	492.4	251.0	115.1	92.78	36.99	17.52	53.41
MEAN	2.52	7.54	10.4	21.7	13.6	15.9	8.37	3.71	3.09	1.19	.57	1.78
MAX	13	32	39	131	43	48	18	12	13	5.4	2.9	9.0
MIN	.32	2.4	4.6	5.6	8.7	8.3	3.9	1.2	.60	.32	.06	.48
CFSM	.34	1.01	1.39	2.89	1.81	2.12	1.12	.50	.41	.16	.08	.24
IN.	.39	1.12	1.60	3.34	1.89	2.44	1.24	.57	.46	.18	.09	.26

CAL YR 1986	TOTAL	1801.18	MEAN 4.93	MAX 50	MIN .08	CFSM .66	IN 8.93
WTR YR 1987	TOTAL	2741.27	MEAN 7.51	MAX 131	MIN .06	CFSM 1.00	IN 13.59

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.--Lat 33°22'25", long 81°56'35", Richmond County, Ga.--Aiken County, S.C., Hydrologic Unit 03060106, at New Savannah Bluff lock and dam, 0.2 mi 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, nonrecord 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.--No estimated daily discharge. Records fair. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Clarks Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500). Records of chemical analyses for the water years 1968-72 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--80 years (1884-91, 1897-1906, 1926-87), 10,084 ft³/s, 18.24 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, 29,200 ft³/s, Mar. 6, gage height, 18.98 ft; minimum daily discharge, 3,790 ft³/s, Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6600	3790	5720	6270	7180	20600	14900	6600	4550	6810	5620	6280
2	7210	3860	8070	13700	7260	22000	9420	6180	4940	6000	6140	7050
3	7040	3870	8200	13800	7070	23000	7440	6000	5430	6120	6900	10100
4	5490	3980	7250	8630	6970	23200	9860	5780	5480	6280	7650	9290
5	4680	4140	6440	4660	7690	26200	9510	6000	5150	5880	9010	7240
6	4430	4160	5500	5150	9530	26800	10200	6190	4740	5740	9350	5650
7	4010	4180	4750	4820	9420	24600	14400	5850	4490	5850	9410	5660
8	4020	4400	4260	4510	9980	21000	14600	5480	4600	6350	7990	9470
9	4160	4400	4070	4500	11500	20600	15000	5410	4860	6990	7400	11900
10	4970	4450	4230	4500	16600	23300	14700	5410	4950	7270	7160	11400
11	4480	4450	5240	4200	15700	23300	13100	5420	4850	5690	8860	10700
12	4090	4450	4950	4050	16200	22400	8950	6100	4820	5840	8520	7430
13	4100	4450	8000	4510	15700	17000	8560	6880	5170	5580	7740	6160
14	4290	4400	6870	4620	14200	12200	13500	6480	5130	5610	9140	8160
15	4070	4250	5380	5440	7340	8060	15100	6600	5320	5860	9100	13900
16	4110	4310	4770	4920	7500	7190	15300	6290	5510	5930	7000	12400
17	4250	4330	4620	4470	13400	10700	13000	5860	5660	6020	6910	13000
18	4320	4350	4530	5540	12900	11500	10100	5510	6140	6150	10800	13500
19	4110	4360	4530	11100	11500	11100	6970	6100	6200	5980	13600	11900
20	4190	4570	4350	19600	11400	11200	6390	6280	6390	6400	11900	7070
21	4130	6630	4300	17800	10200	10300	6320	5640	6130	6010	9470	7380
22	4110	5990	4170	13400	7150	6940	9250	5150	5820	5740	9610	9580
23	4020	4960	4280	19800	6460	7260	9880	4810	5470	6420	7170	9120
24	4210	4690	4710	18300	9890	7840	7920	4610	5320	7080	7340	9380
25	4340	4250	8100	9370	10200	9090	5900	4520	6220	6020	9730	10200
26	3990	4420	9850	6590	10400	10800	5200	4820	6000	5430	10800	11500
27	4010	4760	7040	9210	11200	10800	5210	5310	5220	5400	11600	7340
28	4250	4930	5030	7980	13800	9800	5700	5140	4950	6340	11400	7840
29	4350	5570	4250	6320	---	9420	5930	5000	5000	6320	9530	10400
30	4080	5480	4220	6120	---	10800	5800	4790	6090	7100	6260	12200
31	3830	---	4250	5450	---	15100	---	4610	---	6010	5680	---
TOTAL	139940	136830	171940	259330	298340	474100	298110	174820	160600	190220	268790	283200
MEAN	4514	4561	5546	8365	10650	15290	9937	5639	5353	6136	8671	9440
MAX	7210	6630	9860	19800	16600	26800	15300	6880	6390	7270	13600	13900
MIN	3830	3790	4070	4050	6460	6940	5200	4520	4490	5400	5620	5650

CAL YR 1986 TOTAL 2121260 MEAN 5812 MAX 15000 MIN 3790 MEAN† 4907 CFSM† .65 IN† 8.88
WTR YR 1987 TOTAL 2856220 MEAN 7825 MAX 26800 MIN 3790 MEAN† 8679 CFSM† 1.16 IN† 15.70

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

SAVANNAH RIVER BASIN

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02197320 SAVANNAH RIVER NEAR JACKSON, S.C.

LOCATION.--Lat 33°13'01", long 81°46'04", Aiken County, S.C.-Burke County, Ga., Hydrologic Unit 03060106, on left bank 0.5 mi downstream from Upper Three Runs Creek (revised), 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 22,000 ft³/s, only.

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

REMARKS.--No estimated daily discharge. Records good. Water is diverted above and below gage by the Savannah River Plant with the volume diverted varying from day to day. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Clarks Hill Reservoir, and affected, to some degree, by the Savannah River Plant operations. (See "Lakes and Reservoirs in Savannah River Basin," station 02178500, 02179500, 02187250, 02189004, and 02194500.) At times of high flow, bankfull capacity is exceeded in the intervening channel reach.

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, Mar. 7; maximum gage height, 18.35 ft; minimum daily discharge, 4,120 ft³/s, Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5590	4120	5770	5080	6870	17600	16400	6280	4650	6410	5870	6200
2	7010	4200	6650	10800	7780	20200	14800	6670	4720	6390	6090	6980
3	7260	4240	9490	15300	8090	21300	9730	6490	5060	6000	6700	8370
4	6640	4210	8020	12900	7680	21800	9640	6270	5540	6280	7360	10500
5	5360	4170	7450	7800	7480	21900	10500	6210	5370	6240	8540	8790
6	4880	4190	6220	5490	9470	---	9920	6530	5070	5860	9380	6740
7	4580	4180	5530	5590	10500	---	13400	6530	4750	5870	9480	5980
8	4310	4280	4890	5240	11200	---	15100	6070	4730	6090	8530	7350
9	4370	4240	4580	5370	11100	21800	15800	5800	4910	6630	7970	11500
10	4770	4220	4640	5380	15200	21300	16100	5710	5000	7230	7420	12200
11	5240	4320	4980	4960	16700	21500	15800	5670	4970	6710	8300	12000
12	4850	4370	5980	4810	17000	21700	12800	5800	4830	5900	9500	10200
13	4720	4500	6520	4890	17200	21300	9110	6600	4890	6060	8090	7510
14	4620	4460	8390	4690	17000	19300	11900	6850	5260	5850	8840	7220
15	4650	4390	6490	5180	13400	14900	14900	7030	5380	5870	9460	11800
16	4510	4370	5470	5490	8850	9980	16000	6750	5590	5980	8120	13700
17	4520	4470	5060	5220	12100	10300	15900	6400	5690	6050	6800	13400
18	4530	4400	4870	5290	14600	12100	13900	6080	6020	6150	9340	14000
19	4630	4260	4830	8800	13700	12600	9620	5880	6480	6170	12500	14000
20	4550	4430	4770	15900	13000	12300	7450	6490	6590	6040	13200	10500
21	4550	4980	4650	18700	12200	12100	6860	6120	6530	6770	11100	7110
22	4540	7230	4540	18500	9590	9710	7920	5560	6190	5680	9780	9320
23	4510	5570	4500	18100	7750	7570	10300	5200	5710	6010	8860	9860
24	4480	4870	4820	19700	9010	8230	9840	4920	5470	6810	6770	9450
25	4480	4580	5860	18000	10900	9120	7250	4760	5660	6760	9400	10300
26	4470	4440	10400	12300	11100	10600	5910	4730	6210	5790	10600	11900
27	4450	4560	8920	10100	11600	12000	5560	5150	5900	5460	11600	9840
28	4440	4850	6910	10300	13600	11500	5680	5300	5390	5890	12200	7340
29	4460	4920	5050	7880	---	9930	6070	5140	5110	6410	11200	10000
30	4430	5450	4690	7200	---	11500	6130	5010	5340	6850	7930	11700
31	4230	---	4630	6410	---	13600	---	4790	---	6640	6250	---
TOTAL	150630	137470	185570	291370	324670	---	330290	182790	163010	192850	277180	295760
MEAN	4859	4582	5986	9399	11600	---	11010	5896	5434	6221	8941	9859
MAX	7260	7230	10400	19700	17200	---	16400	7030	6590	7230	13200	14000
MIN	4230	4120	4500	4690	6870	---	5560	4730	4650	5460	5870	5980

SAVANNAH RIVER BASIN

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1971 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: 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, 25.0°C Oct. 1, 2; minimum, 6.5°C Jan. 25.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.0	24.0	18.5	18.0	15.5	14.5	10.5	10.0	10.0	9.5	9.5	8.5
2	25.0	23.5	18.5	18.0	14.5	14.5	10.0	9.5	10.0	9.5	10.5	9.5
3	24.0	22.5	19.0	18.0	14.5	13.5	9.5	8.0	10.0	9.5	11.0	10.5
4	24.0	22.5	18.5	18.0	13.5	12.5	8.0	7.5	10.5	10.0	11.0	10.5
5	24.0	23.0	19.0	18.0	12.5	12.0	8.5	7.5	10.5	10.5	11.0	10.5
6	24.5	23.5	20.0	19.0	12.0	11.5	8.5	7.5	10.5	10.0	10.5	10.0
7	23.5	23.0	20.5	19.5	12.0	11.5	8.5	8.0	10.0	10.0	10.5	10.0
8	23.5	22.5	21.0	20.5	12.5	11.5	9.5	8.5	10.0	9.5	11.0	10.5
9	23.0	22.5	21.0	20.5	13.0	12.0	10.0	9.0	10.0	9.0	11.5	11.0
10	22.5	21.5	21.0	20.0	14.5	13.0	10.5	10.0	9.5	8.5	11.5	10.5
11	21.5	20.5	20.0	19.5	14.5	14.5	10.5	10.0	9.0	8.5	10.5	10.0
12	20.5	20.0	20.0	19.5	14.5	14.5	9.5	9.5	10.0	9.0	10.0	9.5
13	20.0	20.0	19.5	17.5	14.5	13.5	---	---	10.5	10.0	10.0	9.5
14	20.5	20.0	17.5	15.5	13.5	12.0	---	---	10.5	10.0	11.0	10.0
15	20.0	19.5	15.5	15.0	12.0	11.5	---	---	10.5	10.0	12.0	10.5
16	20.0	19.0	15.5	14.5	12.0	11.5	---	---	10.5	9.5	13.0	11.5
17	19.5	19.0	15.5	15.0	12.5	12.0	---	---	9.5	9.0	13.0	12.5
18	19.5	18.5	15.5	15.5	13.0	12.5	---	---	8.5	8.5	12.5	11.5
19	19.0	18.0	16.5	15.5	13.0	12.5	---	---	9.0	8.5	12.0	11.0
20	18.0	18.0	16.5	16.0	13.0	12.5	---	---	10.0	9.0	12.0	11.5
21	18.0	17.5	16.0	15.5	13.0	12.0	9.5	9.0	10.0	10.0	13.0	12.0
22	18.0	17.0	15.5	14.5	12.0	11.5	9.0	8.5	10.0	9.5	13.5	12.5
23	18.0	17.0	15.0	14.5	11.5	11.0	8.5	8.0	10.5	9.5	14.0	13.0
24	18.5	18.0	15.5	14.5	12.0	11.0	7.5	7.0	10.0	9.5	14.0	13.5
25	18.5	18.5	16.0	15.5	11.5	11.5	7.0	6.5	10.0	9.5	14.0	13.5
26	19.5	18.5	17.5	16.0	11.5	11.0	7.5	7.0	9.5	9.5	13.5	13.5
27	19.5	19.0	17.0	17.0	11.5	10.5	7.5	7.0	9.5	9.0	14.0	13.5
28	19.0	18.5	17.0	17.0	11.5	11.0	7.5	7.0	9.0	8.5	15.0	14.0
29	19.0	18.5	17.0	17.0	11.0	10.5	8.5	7.0	---	---	15.0	14.5
30	19.5	18.5	17.0	15.5	11.0	10.5	10.0	8.5	---	---	16.0	15.0
31	19.0	18.5	---	---	10.5	10.0	10.5	9.5	---	---	16.0	15.0
MONTH	25.0	17.0	21.0	14.5	15.5	10.0	10.5	6.5	10.5	8.5	16.0	8.5

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

[illegible]

SAVANNAH RIVER BASIN

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLETT, 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 Millett, 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, 26.0°C, Oct. 1, 2, 6; minimum, 7.5°C Jan. 24, 25, 26, 27, 28, 29.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.0	25.0	19.0	19.0	16.0	15.0	11.0	10.5	10.0	10.0	9.5	9.0
2	26.0	25.0	19.0	19.0	15.0	15.0	10.5	10.5	10.5	10.0	10.5	9.5
3	24.5	24.0	19.5	19.0	15.0	14.0	10.5	9.0	10.5	10.0	11.0	10.0
4	25.0	24.0	19.5	19.0	14.0	13.0	9.0	8.5	11.0	10.5	11.5	11.0
5	25.5	24.5	19.5	19.0	13.0	13.0	8.5	8.0	11.0	10.5	11.0	10.5
6	26.0	24.5	20.5	19.5	12.5	12.0	9.0	8.5	11.0	10.5	10.5	10.0
7	---	---	21.0	20.5	12.0	11.5	9.5	8.5	10.5	10.5	10.5	10.0
8	---	---	22.0	21.0	13.0	12.0	10.0	9.0	10.5	10.0	11.0	10.5
9	24.0	24.0	22.0	21.5	13.5	13.0	10.0	9.5	10.5	10.0	11.5	11.0
10	24.0	22.5	21.5	21.0	14.5	13.5	11.0	10.0	10.0	9.5	11.5	11.0
11	22.5	21.5	21.0	20.5	15.0	14.5	10.5	10.5	9.5	9.0	11.0	10.5
12	21.5	21.0	21.0	20.5	15.0	14.5	10.5	10.0	10.0	9.5	10.0	10.0
13	21.5	21.0	20.5	19.0	14.5	14.0	10.5	10.0	10.5	10.0	10.0	9.5
14	21.5	21.5	19.0	16.5	14.0	12.5	10.5	10.0	10.5	10.5	10.5	10.0
15	21.5	20.5	16.5	15.5	12.5	12.0	10.5	10.5	10.5	10.5	11.5	10.5
16	20.5	20.0	16.0	15.5	13.0	12.5	11.0	10.5	10.5	10.0	13.0	11.5
17	20.5	19.5	16.5	16.0	13.0	12.5	11.5	11.0	10.0	9.5	13.0	12.5
18	20.0	19.5	17.0	16.5	13.5	13.0	11.5	11.0	9.5	9.0	13.0	12.0
19	19.5	18.5	17.0	16.5	13.5	13.0	11.5	11.0	9.5	9.0	12.0	11.5
20	19.0	18.0	16.5	16.0	13.5	13.0	11.5	10.0	10.0	9.5	12.5	11.5
21	18.5	17.5	16.0	15.5	13.5	13.0	10.0	9.5	10.0	10.0	13.0	12.0
22	18.5	18.0	15.5	15.0	13.0	12.0	9.5	9.0	10.0	9.5	14.0	12.5
23	19.0	18.0	15.5	15.0	12.0	12.0	9.0	8.5	10.5	9.5	14.5	13.5
24	19.0	18.5	15.5	15.0	12.5	12.0	8.5	7.5	10.5	10.0	14.5	14.0
25	19.5	19.0	17.0	15.5	12.5	12.0	7.5	7.5	10.0	9.5	14.5	14.5
26	20.0	19.5	17.5	17.0	12.0	12.0	7.5	7.5	9.5	9.5	14.5	14.0
27	20.5	19.5	17.5	17.0	12.0	11.5	7.5	7.5	9.5	9.0	14.5	14.0
28	20.0	19.0	17.0	17.0	12.0	11.5	7.5	7.5	9.0	8.5	15.5	14.0
29	19.5	19.0	17.0	16.5	11.5	11.5	8.5	7.5	---	---	15.5	15.0
30	20.0	19.5	17.0	16.0	11.5	11.0	10.0	8.5	---	---	17.0	15.0
31	20.0	19.0	---	---	11.5	11.0	10.0	9.5	---	---	16.5	15.0
MONTH	26.0	17.5	22.0	15.0	16.0	11.0	11.5	7.5	11.0	8.5	17.0	9.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

[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 current year.

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

REMARKS.--Estimated daily discharges: June 4-19. Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Clarks Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500.)

AVERAGE DISCHARGE.--36 years, 10,380 ft³/s, 16.30 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 discharge, 27,600 ft³/s, Mar. 10, gage height 16.79 ft; minimum daily discharge, 3,960 ft³/s, Oct. 25 and Nov. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4950	4090	6040	4890	7060	14600	14000	6510	4860	5870	6370	6630
2	5740	4070	6520	7390	7600	16800	15400	6830	4730	6760	5890	6600
3	6810	4150	7860	11200	8240	18200	15100	6910	4870	6650	6220	7190
4	6980	4110	8990	13500	8290	19600	11900	6720	4800	6510	6810	8940
5	6190	4020	8160	12300	8000	21100	11000	6520	5150	6720	7450	9620
6	5110	3980	7400	8120	8220	22700	10900	6590	5150	6560	8400	8470
7	4600	3970	6330	6130	9740	24200	11000	6790	5050	6270	9010	7240
8	4240	3960	5510	5840	10800	25800	13100	6610	4500	6250	8920	6810
9	4060	4040	4850	5450	11400	27100	14400	6190	4500	6400	8320	8680
10	4290	3990	4550	5530	11800	27500	15200	5950	4500	6860	7780	11000
11	4850	3980	4640	5220	13900	26900	15800	5860	4500	7240	7560	11500
12	5070	4050	5310	4760	15200	26000	15900	5850	4400	6530	8520	11300
13	4720	4130	6080	4650	16000	25500	14200	6330	4300	6210	8930	9650
14	4610	4200	7300	4560	16500	25300	11200	7300	5200	6220	8160	7930
15	4560	4180	7880	4450	16800	24600	12500	7580	5600	5970	8670	8340
16	4500	4130	6480	5090	15500	22400	14200	7710	5900	5950	8960	11500
17	4340	4210	5470	5600	12500	17900	15200	7310	6200	5960	7840	12500
18	4290	4420	5050	5580	13200	14600	15600	6810	6600	6000	7150	12700
19	4290	4370	4870	6480	14300	13800	14600	6440	6910	6090	9330	13200
20	4330	4450	4810	10400	14100	13700	10900	6450	7340	6050	11400	13000
21	4370	4880	4690	14100	13500	13400	8460	6750	7460	6150	11900	10100
22	4440	5970	4550	16400	12500	12700	7720	6340	7190	6330	10600	8090
23	4340	6990	4430	18000	10100	10100	9040	5810	6650	5750	9580	9290
24	3970	5810	4560	18900	8590	8690	10200	5400	6130	6140	8270	9470
25	3960	5090	5110	19500	9730	9020	9400	5100	5950	6820	7300	9460
26	4150	4770	7160	19900	10700	10100	7480	4900	6570	6470	8950	10100
27	4130	4680	9620	18200	11100	11500	6370	4930	6800	5750	9990	11000
28	3990	4810	8320	15100	12200	12200	6040	5350	6300	5520	10800	9070
29	4100	5010	6500	12200	---	11800	6240	5430	5710	6050	11200	7990
30	4210	5360	5020	9260	---	11200	6500	5270	5390	6370	10300	9820
31	4170	---	4630	7970	---	12300	---	5090	---	6820	7890	---
TOTAL	144360	135870	188690	306670	327570	551310	349550	193630	169210	195240	268470	287190
MEAN	4657	4529	6087	9893	11700	17780	11650	6246	5640	6298	8660	9573
MAX	6980	6990	9620	19900	16800	27500	15900	7710	7460	7240	11900	13200
MIN	3960	3960	4430	4450	7060	8690	6040	4900	4300	5520	5890	6600

CAL YR 1986 TOTAL 1417550 MEAN 5516 MAX 9620 MIN 3960 MEAN† 4611 CFSMT .53 INT† 7.24
WTR YR 1987 TOTAL 3117760 MEAN 8542 MAX 27500 MIN 3960 MEAN† 9396 CFSMT 1.09 INT† 14.75

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

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. Elevation of gage is 300 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Feb. 16 to Mar. 14, Apr. 30 to May 12, and May 12 to June 23. Records poor.

AVERAGE DISCHARGE.--20 years, 46.8 ft³/s, 11.56 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 discharge, 0.14 ft³/s, July 21, 1986.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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. 1	1900	1,050	10.27	Jan. 22	1900	*1,400	*11.38
Jan. 19	1700	1,080	10.39	Mar. 28	0800	1,210	10.80

Minimum daily discharge, 0.43 ft³/s, July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	46	265	537	71	350	176	11	2.9	4.8	1.2	2.9
2	2.9	20	136	393	79	130	128	12	3.2	3.7	1.3	1.6
3	1.8	10	99	126	87	90	121	10	3.0	10	1.6	1.1
4	1.4	6.3	58	109	69	78	125	9.6	3.0	15	1.3	.95
5	1.0	4.2	43	160	61	72	93	9.6	4.1	8.1	1.1	1.1
6	.95	3.2	35	96	70	70	81	9.5	3.7	4.7	1.1	1.3
7	.99	2.6	31	79	213	70	75	9.1	3.1	3.1	1.2	1.2
8	.81	2.3	30	70	134	240	69	8.9	2.6	3.1	1.6	1.2
9	1.9	2.1	30	62	86	130	64	8.7	2.2	2.2	1.7	.98
10	6.9	1.7	81	66	69	94	58	10	1.9	1.6	1.4	.86
11	4.9	2.4	73	65	64	78	52	8.3	1.6	1.2	1.7	.90
12	3.8	3.1	120	53	62	70	49	8.2	1.6	.94	1.2	1.4
13	3.9	4.1	117	49	58	68	46	45	1.7	1.0	.88	1.9
14	41	4.3	59	46	54	64	42	25	13	.89	.73	1.7
15	14	8.2	47	55	53	64	63	15	54	.64	.83	2.0
16	6.2	15	42	62	120	62	50	12	40	.43	1.2	1.5
17	3.7	11	39	126	70	60	43	10	80	.47	1.1	1.0
18	2.5	12	45	217	64	62	38	9.4	54	.54	1.4	.86
19	1.7	10	43	764	58	94	33	8.8	25	.79	.99	1.1
20	1.6	58	35	342	56	70	31	8.2	110	.56	1.2	1.8
21	2.3	79	30	148	56	62	27	7.2	35	.73	.97	1.2
22	2.7	32	26	840	90	58	22	7.0	16	.72	1.0	1.2
23	1.6	21	37	477	84	54	20	6.8	10	.84	.68	.84
24	2.4	16	253	163	60	54	20	6.6	7.8	.57	.80	.98
25	5.4	14	167	171	56	343	17	5.6	17	1.2	.70	1.0
26	7.0	20	79	216	64	209	15	4.6	32	1.7	1.6	.97
27	6.9	54	60	130	230	309	14	4.2	114	1.3	2.6	1.1
28	6.2	29	49	105	280	793	13	6.0	25	6.1	1.7	.96
29	5.0	22	44	92	---	231	12	5.0	11	2.5	2.5	1.0
30	5.7	117	40	90	---	387	11	4.0	6.4	1.7	5.6	1.5
31	8.7	---	36	80	---	361	---	3.3	---	1.5	16	---
TOTAL	162.55	630.5	2249	5989	2518	4877	1608	308.6	684.8	82.62	58.88	38.10
MEAN	5.24	21.0	72.5	193	89.9	157	53.6	9.95	22.8	2.67	1.90	1.27
MAX	41	117	265	840	280	793	176	45	114	15	16	2.9
MIN	.81	1.7	26	46	53	54	11	3.3	1.6	.43	.68	.84
CFSM	.10	.38	1.32	3.51	1.64	2.86	.98	.18	.42	.05	.04	.02
IN.	.11	.43	1.52	4.05	1.70	3.30	1.09	.21	.46	.06	.04	.03

CAL YR 1986	TOTAL	6443.64	MEAN	17.7	MAX	265	MIN	.14	CFSM	.32	IN	4.36
WTR YR 1987	TOTAL	19207.05	MEAN	52.6	MAX	840	MIN	.43	CFSM	.96	IN	12.99

SAVANNAH RIVER BASIN

02197600 BRUSHY CREEK NEAR WRENS, GA.

LOCATION.--Lat 33°10'37", long 82°18'20", Jefferson County, Hydrologic Unit 03060108 (revised), 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 above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--No estimated daily discharges. Records good. Discharge during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--29 years, 26.0 ft³/s, 12.61 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 discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	1300	*660	*7.28	Mar. 1	0900	330	5.71
Jan. 22	2000	317	5.63				

Minimum daily discharge, 4.4 ft³/s, Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	17	35	124	29	280	60	15	8.6	12	8.6	39
2	4.7	12	24	98	32	144	46	15	8.2	14	9.2	19
3	4.8	9.4	21	42	34	78	42	14	7.8	25	9.3	14
4	4.9	8.8	17	31	27	58	41	14	8.4	18	9.6	13
5	5.2	8.3	15	35	23	46	35	14	8.7	16	8.6	14
6	4.7	8.2	14	27	31	40	31	15	8.1	13	8.0	13
7	4.4	8.2	13	23	103	37	30	14	7.6	14	9.0	14
8	5.1	8.2	13	21	63	119	28	14	7.5	12	9.3	13
9	8.3	8.0	13	20	40	97	26	13	7.5	11	9.2	11
10	25	8.1	32	19	32	63	25	12	7.4	10	10	10
11	11	8.1	25	18	28	47	24	12	7.3	9.7	10	9.4
12	9.8	8.6	25	18	27	40	23	14	11	9.0	8.7	9.5
13	8.9	10	24	17	25	36	22	20	9.8	8.9	8.1	12
14	13	9.5	18	17	23	33	21	25	44	8.5	7.5	8.9
15	9.6	11	16	17	22	32	25	19	24	8.3	7.7	8.4
16	8.4	11	15	19	45	30	25	18	29	8.1	7.7	8.0
17	8.0	18	14	28	39	27	23	15	30	8.0	8.0	7.6
18	7.6	16	15	59	29	27	22	13	19	8.0	8.1	7.3
19	7.3	12	16	409	26	46	21	12	15	8.2	8.2	12
20	7.3	44	14	231	23	41	20	12	16	7.7	7.5	14
21	7.0	36	14	110	24	33	20	23	16	7.4	6.9	11
22	6.9	18	13	239	42	29	18	18	19	7.2	6.9	8.5
23	6.8	15	15	209	49	25	18	15	21	7.0	6.5	7.8
24	6.7	13	41	100	31	24	17	14	17	9.2	6.6	7.4
25	8.3	12	32	71	27	36	17	12	16	11	6.9	7.1
26	8.7	14	20	69	28	33	17	10	36	9.4	8.6	7.1
27	7.8	16	16	52	74	40	17	10	23	11	10	6.8
28	7.4	14	16	43	180	93	16	9.9	16	11	8.7	6.6
29	7.3	13	15	37	---	66	15	9.9	14	9.8	9.1	6.7
30	7.3	19	15	35	---	88	15	9.2	12	9.4	8.1	11
31	8.3	---	15	31	---	106	---	8.7	---	9.4	14	---
TOTAL	245.3	414.4	591	2269	1156	1894	760	439.7	474.9	331.2	264.6	337.1
MEAN	7.91	13.8	19.1	73.2	41.3	61.1	25.3	14.2	15.8	10.7	8.54	11.2
MAX	25	44	41	409	180	280	60	25	44	25	14	39
MIN	4.4	8.0	13	17	22	24	15	8.7	7.3	7.0	6.5	6.6
CFSM	.28	.49	.68	2.61	1.48	2.18	.90	.51	.56	.38	.31	.40
IN.	.33	.55	.79	3.01	1.54	2.52	1.01	.58	.63	.44	.35	.45
CAL YR 1986	TOTAL	4398.3	MEAN 12.1	MAX 95	MIN 4.3	CFSM .43	IN 5.84					
WTR YR 1987	TOTAL	9177.2	MEAN 25.1	MAX 409	MIN 4.4	CFSM .90	IN 12.19					

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.

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

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

REMARKS.--Estimated daily discharges: Nov. 26 to Jan. 2, Jan. 29 to Feb. 4, and Sept. 12 to Sept. 30. Records good, except those for missing gage-height record, Nov. 26 to Jan. 2, Jan. 29 to Feb. 4, and Sept. 12 to Sept. 30, which are fair.

AVERAGE DISCHARGE.--18 years, 464 ft³/s, 13.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft³/s, Mar. 15, 1971, gage height, 12.28 ft; minimum, daily 50 ft³/s, July 15, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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	0800	2,230	7.87	Mar. 3	0100	3,040	8.57
Jan. 22	1900	*3,800	*9.13	Mar. 31	0900	2,260	7.89
Jan. 25	1600	3,050	8.58				

Minimum daily discharge, 66 ft³/s, Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	135	390	740	780	1890	1520	272	138	369	105	146
2	82	144	395	745	700	2630	1260	258	132	291	108	161
3	78	162	405	768	640	2940	1310	246	136	243	109	203
4	74	236	450	1010	620	2530	1130	234	185	237	126	224
5	70	318	590	2060	637	1700	901	245	198	330	165	207
6	68	361	660	1390	648	1170	781	254	160	281	158	178
7	66	305	590	931	878	934	729	238	138	266	137	162
8	67	227	510	746	985	950	710	233	127	236	133	152
9	69	186	480	715	894	1010	651	230	122	192	138	147
10	120	168	470	656	885	1000	598	222	118	160	157	161
11	154	157	450	555	963	1120	560	212	111	142	137	163
12	211	155	460	509	878	1410	534	198	105	144	136	185
13	272	154	465	479	708	1120	509	208	103	168	141	270
14	244	154	460	458	593	919	485	237	164	126	143	240
15	192	183	470	443	553	804	472	252	233	110	124	200
16	182	207	485	432	609	715	453	279	324	102	114	170
17	184	222	500	470	652	663	465	304	401	98	110	155
18	174	248	480	552	637	629	531	289	423	95	106	150
19	165	255	430	864	639	669	620	263	470	89	104	145
20	146	352	385	1270	674	698	650	233	416	86	104	140
21	130	423	380	2350	712	675	570	219	351	83	107	135
22	118	404	410	3580	658	660	507	263	335	82	107	130
23	109	471	450	2920	648	685	458	270	301	81	103	125
24	105	506	475	2180	657	665	410	255	313	80	100	120
25	108	495	450	2820	671	626	376	232	325	80	99	115
26	113	420	440	2350	686	627	352	207	434	84	122	110
27	117	400	455	1480	874	607	330	181	456	91	144	110
28	129	390	460	1130	1030	663	314	174	436	90	122	110
29	130	375	800	1000	---	1000	299	167	393	91	129	110
30	126	390	880	900	---	1300	285	157	381	100	130	115
31	120	---	760	840	---	2110	---	146	---	104	127	---
TOTAL	4013	8603	15485	37343	20509	35119	18770	7178	7929	4731	3845	4739
MEAN	129	287	500	1205	732	1133	626	232	264	153	124	158
MAX	272	506	880	3580	1030	2940	1520	304	470	369	165	270
MIN	66	135	380	432	553	607	285	146	103	80	99	110
CFSM	.27	.61	1.06	2.55	1.55	2.40	1.32	.49	.56	.32	.26	.33
IN.	.32	.68	1.22	2.94	1.61	2.76	1.48	.56	.62	.37	.30	.37
CAL YR 1986	TOTAL	90224	MEAN 247	MAX 1090	MIN 50	CFSM .52	IN 7.10					
WTR YR 1987	TOTAL	168264	MEAN 461	MAX 3580	MIN 66	CFSM .98	IN 13.23					

SAVANNAH RIVER BASIN

02198000 BRIER CREEK AT MILLHAVEN, GA.

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

DRAINAGE AREA.--646 mi².

PERIOD OF RECORD.--October 1936 to current year. Monthly discharges only for October 1936 to April 1937, published in WSP 1303.

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

GAGE.--Water-stage recorder. Datum of gage is 95.88 ft above 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.--No estimated daily discharges. Records good. Records of chemical analyses for the 1970-79 water years are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--51 years, 647 ft³/s, 13.60 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 greater than base discharge 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. 7	2100	2,030	8.11	Mar. 5	0100	3,320	10.05
Jan. 24	1100	*4,410	*11.15	Apr. 2	1000	2,350	8.66

Minimum daily, 95 ft³/s, Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	208	510	1060	1270	1850	1690	364	181	468	126	175
2	128	237	491	1140	1170	2420	2280	340	168	408	132	183
3	121	237	507	968	1050	3050	1960	322	160	446	151	180
4	117	221	505	964	955	3170	1630	306	158	473	166	184
5	108	212	513	944	896	3220	1610	319	187	373	154	209
6	103	229	531	952	888	2800	1470	333	203	307	158	261
7	99	263	583	1670	999	2160	1210	322	212	305	180	325
8	96	298	759	1820	1160	1740	1020	307	193	314	184	284
9	95	327	857	1310	1330	1580	914	290	169	287	177	231
10	112	322	766	1010	1420	1530	859	272	154	262	188	200
11	137	280	657	861	1240	1470	815	261	143	231	186	187
12	174	244	629	799	1110	1330	753	260	137	204	185	213
13	190	223	621	726	1120	1350	695	282	131	186	188	438
14	216	210	594	641	1140	1660	657	345	146	186	171	381
15	247	207	604	598	1010	1510	653	486	183	190	165	317
16	264	208	607	583	950	1240	650	432	207	163	163	342
17	254	231	593	632	1020	1080	626	356	239	140	152	284
18	230	275	608	697	1000	957	612	329	285	129	144	208
19	222	297	639	839	981	977	614	313	444	124	145	184
20	214	343	658	998	898	992	634	310	552	118	136	203
21	203	404	624	1190	849	946	658	290	576	113	130	195
22	193	428	549	1980	860	942	713	271	557	112	126	186
23	176	464	487	3290	956	893	706	255	481	110	125	175
24	161	480	494	4290	960	842	641	257	404	113	126	173
25	156	469	550	3420	892	902	586	265	390	141	125	171
26	158	483	592	2730	844	1050	538	259	577	129	120	160
27	159	508	612	3060	895	974	494	246	617	121	136	147
28	158	521	596	2710	1140	929	456	225	525	121	146	142
29	158	516	572	2000	---	870	420	207	561	121	148	142
30	168	520	597	1540	---	927	389	195	535	121	137	143
31	175	---	737	1320	---	1180	---	189	---	121	145	---
TOTAL	5128	9865	18642	46742	29003	46541	26953	9208	9475	6637	4715	6623
MEAN	165	329	601	1508	1036	1501	898	297	316	214	152	221
MAX	264	521	857	4290	1420	3220	2280	486	617	473	188	438
MIN	95	207	487	583	844	842	389	189	131	110	120	142
CFSM	.26	.51	.93	2.33	1.60	2.32	1.39	.46	.49	.33	.24	.34
IN.	.30	.57	1.07	2.69	1.67	2.68	1.55	.53	.55	.38	.27	.38

CAL YR 1986	TOTAL	116235	MEAN 318	MAX 1130	MIN 67	CFSM .49	IN 6.69
WTR YR 1987	TOTAL	219532	MEAN 601	MAX 4290	MIN 95	CFSM .93	IN 12.64

02198100 BEAVERDAM CREEK NEAR SARDIS, GA.

LOCATION.--Lat 32°56'15", Long 81°48'56", Burke-Jenkins County line, Hydrologic Unit 03060108, at downstream side of bridge on State Highway 23, and 4.2 mi southwest of Sardis.

DRAINAGE AREA.--30.8 mi².

PERIOD OF RECORD.--June 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 186.48 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Mar. 28 to Apr. 3. Records good, except those of no gage height record, Mar. 28 to Apr. 3, which are fair.

EXTREMES FOR CURRENT PERIOD.--June 1986 to Sept. 1987. Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 22	1700	593	6.62	Mar. 1	1330	*600	*6.64

Minimum daily discharge, 2.7 ft³/s, Aug. 3, 10-12, 1986.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	3.1	2.8	20
2									---	3.0	2.8	12
3									---	3.0	2.7	9.9
4									---	3.0	3.5	8.6
5									---	3.1	3.3	8.9
6									---	3.1	3.0	8.6
7									3.8	3.1	3.1	7.6
8									3.6	3.0	2.9	6.6
9									3.7	2.9	2.8	5.9
10									3.7	2.9	2.7	5.7
11									3.8	3.0	2.7	5.9
12									3.6	2.9	2.7	5.6
13									3.5	2.8	3.0	5.4
14									3.5	2.9	5.1	4.8
15									3.9	3.3	3.7	4.4
16									4.1	4.4	3.1	4.3
17									3.9	4.4	2.9	7.8
18									3.6	3.3	2.8	6.7
19									3.7	3.1	4.8	5.4
20									3.9	3.0	19	4.8
21									3.5	3.5	25	4.5
22									3.4	3.5	8.7	4.2
23									3.3	3.3	6.0	4.0
24									3.3	3.3	5.3	3.9
25									4.8	3.2	4.9	3.8
26									3.7	3.3	4.8	3.7
27									3.6	3.2	4.6	3.6
28									3.4	3.1	4.7	3.6
29									3.4	3.1	5.3	5.2
30									3.2	3.0	21	5.4
31									---	2.9	36	---
TOTAL									---	98.7	205.7	190.8
MEAN									---	3.18	6.64	6.36
MAX									---	4.4	36	20
MIN									---	2.8	2.7	3.6
CFSM									---	.10	.22	.21
IN.									---	.12	.25	.23

SAVANNAH RIVER BASIN

02198100 BEAVERDAM CREEK NEAR SARDIS, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	9.1	37	153	51	511	190	7.7	6.1	6.5	3.7	5.0
2	4.1	6.8	30	168	54	395	90	7.5	6.2	6.3	4.8	4.4
3	3.8	4.9	27	63	67	181	66	7.3	6.3	13	4.8	5.8
4	3.7	3.8	18	53	58	106	53	7.4	7.4	10	4.4	5.1
5	3.6	3.1	15	79	50	81	45	10	7.0	9.4	4.0	6.9
6	3.5	3.1	13	55	59	71	40	9.5	6.3	7.4	3.9	6.5
7	3.5	3.3	12	46	199	67	35	8.4	6.0	6.4	5.4	5.3
8	3.5	3.5	12	41	267	168	32	7.7	5.7	5.7	4.5	4.5
9	3.8	3.7	13	36	169	234	30	7.2	5.6	5.3	3.8	4.1
10	5.0	3.9	20	38	82	172	27	7.0	5.5	5.0	3.6	3.8
11	4.7	4.0	33	38	63	100	25	6.9	5.5	4.8	3.6	3.8
12	4.6	4.4	54	31	57	76	23	7.3	5.6	5.4	3.7	9.2
13	4.5	4.9	50	29	53	67	21	12	5.6	6.0	3.6	9.6
14	6.5	5.7	26	27	49	61	20	13	7.2	5.3	3.4	5.8
15	6.7	6.3	22	27	47	57	25	9.8	6.7	5.0	3.4	4.9
16	5.1	7.2	20	33	123	53	29	8.2	6.0	4.7	3.4	4.6
17	4.6	10	19	81	238	50	25	7.4	6.8	4.6	3.3	4.4
18	4.3	11	21	98	162	48	31	7.0	7.9	4.3	3.2	4.3
19	4.0	9.5	23	194	83	90	29	6.9	15	4.2	3.2	5.1
20	4.0	25	19	277	65	93	24	6.7	7.6	4.2	3.2	9.4
21	3.9	23	16	178	58	70	19	6.8	6.6	4.1	3.1	5.8
22	3.9	13	14	427	70	53	16	6.8	6.3	4.0	3.1	4.6
23	3.9	11	19	438	106	46	14	6.7	6.1	4.0	3.0	4.4
24	4.1	12	62	210	84	42	13	6.6	5.7	4.1	3.2	4.3
25	4.6	17	58	120	62	69	11	6.4	14	4.3	3.2	3.9
26	4.8	16	32	132	54	98	10	6.2	25	4.0	3.2	3.7
27	4.6	13	26	100	100	71	9.6	6.2	30	3.8	3.2	3.7
28	4.6	12	22	81	234	60	9.1	6.3	13	3.9	3.1	3.6
29	4.8	13	19	66	---	170	8.5	6.1	9.3	3.9	3.1	3.8
30	5.3	32	18	61	---	115	8.1	6.2	7.3	3.9	3.3	4.1
31	5.7	---	17	56	---	150	---	6.2	---	3.7	4.0	---
TOTAL	138.1	295.2	787	3436	2764	3625	978.3	235.4	259.3	167.2	112.4	154.4
MEAN	4.45	9.84	25.4	111	98.7	117	32.6	7.59	8.64	5.39	3.63	5.15
MAX	6.7	32	62	438	267	511	190	13	30	13	5.4	9.6
MIN	3.5	3.1	12	27	47	42	8.1	6.1	5.5	3.7	3.0	3.6
CFSM	.14	.32	.83	3.60	3.21	3.80	1.06	.25	.28	.18	.12	.17
IN.	.17	.36	.95	4.15	3.34	4.38	1.18	.28	.31	.20	.14	.19

WTR YR 1987 TOTAL 12952.3 MEAN 35.5 MAX 511 MIN 3.0 CFSM 1.15 IN 15.64

SAVANNAH RIVER BASIN

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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 mi north of Clio, 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 13.39 ft, National Geodetic Vertical Datum of 1929. Prior to Jan. 31, 1933, nonrecording 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.--No estimated daily discharge. Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Clarks Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500).

AVERAGE DISCHARGE.--54 years, 11,874 ft³/s, 16.37 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, 29,700 ft³/s, Mar. 13, gage height, 15.57 ft; minimum daily discharge, 4,730 ft³/s, Oct. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5340	4850	6040	6200	19000	14100	14600	7270	5700	6400	6770	9640
2	5320	4810	6570	6440	15300	15100	14700	7270	5550	6550	6670	7800
3	5680	4800	7080	7700	12600	16200	15200	7400	5420	7360	6260	7220
4	6410	4830	7980	10500	11400	17400	15700	7510	5480	7720	6310	7540
5	6760	4850	9080	12300	11000	18900	16300	7390	5740	7470	6750	8810
6	6390	4810	9010	13200	10500	20400	16400	7180	6020	7520	7310	9890
7	5670	4780	8380	13000	10400	22000	15900	7140	6030	7430	8120	9710
8	5210	4750	7450	10600	11200	23800	15100	7270	5810	7140	8800	8660
9	4950	4750	6620	8790	12100	25500	14600	7190	5570	6960	9030	7860
10	4820	4790	6000	8320	12800	27000	14600	6870	5510	6960	8730	8670
11	4840	4790	5810	8160	13300	28300	14900	6600	5560	7230	8380	10300
12	5120	4790	6030	7600	13800	29300	15300	6470	5570	7600	8020	11200
13	5370	4820	6570	6900	14500	29700	15700	6480	5520	7290	8430	11500
14	5280	4840	7200	6460	15100	29500	16000	6790	5460	6820	8970	11100
15	5180	4870	8030	6260	15700	28800	16000	7560	5540	6690	8650	9650
16	5130	4870	8820	6120	16400	28000	15400	8060	5770	6450	8740	9050
17	5110	4890	8100	6560	17000	27400	14900	8250	5980	6330	9040	10400
18	5020	4910	7050	7190	17500	26800	14900	8060	6200	6290	8490	11500
19	4970	5010	6440	7550	17400	25600	15100	7700	6400	6270	7670	12100
20	4950	5180	6130	8400	16900	23400	15300	7280	6910	6300	8680	12600
21	4960	5320	5980	10600	16600	20900	15300	7230	7500	6280	10100	12800
22	4980	5470	5870	12900	16600	18800	13900	7360	7820	6320	10900	12500
23	5020	6070	5790	14600	16500	17400	11400	7150	7870	6480	11000	10800
24	4970	6990	5760	16000	16100	16200	10500	6700	7510	6130	10300	10000
25	4810	6590	5760	17400	14800	14800	11000	6240	7090	6230	9250	10000
26	4730	5950	6020	19200	13400	13500	11000	5900	6930	6720	8010	9980
27	4790	5650	7290	21500	13200	13100	9600	5710	7220	6720	8660	10200
28	4800	5540	9320	23700	13400	13400	8050	5660	7490	6210	9570	10800
29	4740	5570	9480	24600	---	13800	7280	5830	7220	5940	10300	10400
30	4770	5750	8190	24000	---	14400	7150	5930	6770	6130	10800	9140
31	4820	---	6690	22200	---	14600	---	5840	---	6440	10900	---
TOTAL	160910	155890	220540	374950	404500	648100	411780	215290	189160	208380	269610	301820
MEAN	5191	5196	7114	12100	14450	20910	13730	6945	6305	6722	8697	10060
MAX	6760	6990	9480	24600	19000	29700	16400	8250	7870	7720	11000	12800
MIN	4730	4750	5760	6120	10400	13100	7150	5660	5420	5940	6260	7220

CAL YR 1986 TOTAL 2414760 MEAN 6689 MAX 14600 MIN 4730 MEANT 5784 CFSMT .59 INT 7.97
WTR YR 1987 TOTAL 3560930 MEAN 9756 MAX 29700 MIN 4730 MEANT 10610 CFSMT 1.08 INT 14.63

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, RICHARD B. RUSSELL RESERVOIR, 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 TEMPERATURE: May 1938 to April 1939, January 1974 to July 1977.

REMARKS.--Laboratory chemical analyses with the analyzing agency codes 80020, 84213, and 85113 are performed by the U.S. Geological Survey. Laboratory chemical analyses with the analyzing agency code 81341 are performed by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity is by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

WATER TEMPERATURE: Maximum daily, 27°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 1986 TO SEPTEMBER 1987

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
OCT							
14...	0720	81341	5290	98	97	7.30	7.30
NOV							
06...	1530	80020	4810	100	104	7.30	7.50
11...	0805	81341	4790	113	107	7.30	7.40
DEC							
09...	0800	81341	6740	93	94	7.10	7.30
JAN							
20...	0830	81341	8090	70	84	7.10	6.70
FEB							
10...	0820	81341	12700	73	74	7.20	6.90
26...	1700	80020	13200	81	85	7.10	7.37
MAR							
10...	0825	81341	28100	57	53	6.70	6.70
APR							
14...	0725	81341	15900	68	67	7.00	7.10
MAY							
12...	0645	81341	6480	101	103	7.20	7.30
JUN							
02...	1120	80020	5550	92	109	7.30	7.70
22...	0905	81341	7790	88	87	7.20	7.10
JUL							
07...	0605	81341	7500	98	96	7.20	7.00
AUG							
11...	1355	81341	8370	76	82	7.20	7.20
28...	1010	80020	9520	70	83	7.20	7.30
SEP							
08...	0805	81341	8840	158	181	7.10	7.40

SAVANNAH RIVER BASIN

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02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE WATER WHOLE IT-FLD (MG/L)	ALKA- LITY WH WAT TOTAL FIELD MG/L AS CAC03	ALKA- LITY LAB (MG/L AS CAC03)
OCT								
14...	81341	20.0	24.0	5.6	61	--	--	25
NOV								
06...	80020	20.0	--	7.7	83	--	29	27
11...	81341	20.5	19.0	5.1	56	--	--	28
DEC								
09...	81341	11.0	17.0	6.7	60	--	--	22
JAN								
20...	81341	11.0	7.0	--	--	--	--	20
FEB								
10...	81341	9.0	-1.0	9.4	80	--	--	18
26...	80020	9.5	--	9.9	85	25	25	20
MAR								
10...	81341	12.5	13.0	7.1	67	--	--	15
APR								
14...	81341	17.0	20.0	7.0	72	--	--	18
MAY								
12...	81341	21.0	17.5	6.9	77	--	--	26
JUN								
02...	80020	26.0	--	6.7	83	25	26	26
22...	81341	25.0	25.0	6.5	79	--	--	19
JUL								
07...	81341	26.0	22.0	6.5	80	--	--	21
AUG								
11...	81341	26.0	34.5	5.5	68	--	--	20
28...	80020	24.5	--	7.1	85	19	21	20
SEP								
08...	81341	23.0	24.0	7.9	92	--	--	21

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	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 NONCARB WH WAT TOT LAB MG/L AS CAC03	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT											
14...	81341	25	5.0	12	0.9	1100	--	--	--	--	--
NOV											
06...	80020	--	3.6	--	--	--	230	K180	20	0	5.7
11...	81341	25	5.0	16	4.1	50	--	--	--	--	--
DEC											
09...	81341	60	11	20	2.5	490	--	--	--	--	--
JAN											
20...	81341	40	9.0	16	1.9	1300	--	--	--	--	--
FEB											
10...	81341	40	15	16	1.3	790	--	--	--	--	--
26...	80020	--	2.8	--	--	--	370	200	19	0	5.2
MAR											
10...	81341	80	11	19	1.1	490	--	--	--	--	--
APR											
14...	81341	40	10	15	0.8	75	--	--	--	--	--
MAY											
12...	81341	30	7.0	13	1.2	70	--	--	--	--	--
JUN											
02...	80020	--	14	--	--	--	K60	220	21	0	5.9
22...	81341	55	13	14	1.5	130	--	--	--	--	--
JUL											
07...	81341	40	10	15	1.4	3300	--	--	--	--	--
AUG											
11...	81341	15	12	--	1.0	230	--	--	--	--	--
28...	80020	--	7.1	--	--	--	230	K90	16	0	4.2
SEP											
08...	81341	10	10	--	2.3	220	--	--	--	--	--

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA 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)
OCT 14...	81341	--	0.400	--	<0.020	--	--	0.30	0.70
NOV 06...	80020	0.010	--	0.450	0.020	0.020	0.48	0.50	--
11...	81341	--	0.380	--	0.150	--	0.55	0.70	1.1
DEC 09...	81341	--	0.320	--	0.090	--	0.11	0.20	0.52
JAN 20...	81341	--	0.300	--	0.140	--	0.16	0.30	0.60
FEB 10...	81341	--	0.260	--	0.080	--	0.12	0.20	0.46
26...	80020	0.010	--	0.320	0.130	0.150	0.87	1.0	--
MAR 10...	81341	--	0.070	--	0.110	--	0.39	0.50	0.57
APR 14...	81341	--	0.150	--	0.040	--	0.36	0.40	0.55
MAY 12...	81341	--	0.410	--	0.120	--	0.08	0.20	0.61
JUN 02...	80020	<0.010	--	0.460	0.040	0.050	0.56	0.60	--
22...	81341	--	0.390	--	0.050	--	0.35	0.40	0.79
JUL 07...	81341	--	0.290	--	<0.020	--	--	0.40	0.69
AUG 11...	81341	--	0.370	--	0.080	--	--	--	--
28...	80020	0.010	--	0.290	0.020	0.010	0.58	0.60	--
SEP 08...	81341	--	0.290	--	0.200	--	--	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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 06...	80020	20	<1	7	<0.5	<1	<1	<3	1	170	<5
FEB 26...	80020	110	<1	11	<0.5	<1	<1	<3	2	200	<5
JUN 02...	80020	40	<1	10	<0.5	<1	2	<3	1	300	<5
AUG 28...	80020	20	<1	12	<0.5	<1	<1	<3	<1	110	<5

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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 06...	80020	<4	6	0.3	<10	<1	<1	<1	35	<6	3
FEB 26...	80020	<4	15	0.3	<10	4	<1	<1	33	<6	6
JUN 02...	80020	<4	7	0.2	<10	<1	<1	<1	34	<5	21
AUG 28...	80020	<4	11	<0.1	<10	<1	<1	<1	29	<6	19

SAVANNAH RIVER BASIN

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02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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)	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 SI02)
NOV 06...	80020	1.4	13	56	1	2.0	2.2	10	8.5	<0.10	10
FEB 26...	80020	1.5	9.2	49	0.9	1.4	3.8	12	7.3	<0.10	8.3
JUN 02...	80020	1.5	14	57	1	1.7	2.5	17	11	<0.10	10
AUG 28...	80020	1.4	8.8	51	1	1.6	2.5	10	6.4	0.10	9.2

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	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 14...	81341	--	--	--	--	7	0.160	--	--	5.1
NOV 06...	80020	82	64	1060	0.11	--	0.120	0.400	0.070	--
NOV 11...	81341	--	--	--	--	8	0.160	--	--	6.2
DEC 09...	81341	--	--	--	--	7	0.100	--	--	7.2
JAN 20...	81341	--	--	--	--	17	0.090	--	--	6.3
FEB 10...	81341	--	--	--	--	18	0.090	--	--	3.6
FEB 26...	80020	57	60	2030	0.08	--	0.080	0.040	0.040	--
MAR 10...	81341	--	--	--	--	<1	0.060	--	--	6.1
APR 14...	81341	--	--	--	--	<1	0.060	--	--	3.9
MAY 12...	81341	--	--	--	--	27	0.220	--	--	3.9
JUN 02...	80020	71	77	1060	0.10	--	0.140	0.070	0.060	--
JUN 22...	81341	--	--	--	--	20	0.160	--	--	2.7
JUL 07...	81341	--	--	--	--	13	0.120	--	--	4.8
AUG 11...	81341	--	--	--	--	2	0.160	--	--	5.5
AUG 28...	80020	52	54	1340	0.07	--	0.090	0.060	0.060	--
SEP 08...	81341	--	--	--	--	18	0.110	--	--	8.8

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 06...	1530	84213	4810	20.0	18	234	86
FEB 26...	1700	84213	13200	9.5	17	606	98
JUN 02...	1120	84213	5550	26.0	26	390	93
AUG 28...	1010	84213	9520	24.5	22	565	92

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TRITIUM IN WATER MOLE- CULES (TU)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU)
AUG 07...	0801	85113	6290	985	14.0
SEP 10...	0726	85113	6310	920	13.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TRITIUM IN WATER MOLE- CULES (TU)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU)
NOV 06...	0701	85113	7780	1030	14.0
12...	0726	85113	8540	965	13.0
DEC 04...	0931	85113	12400	987	13.0
JAN 08...	0831	85113	7940	1020	13.0
FEB 05...	0831	85113	7750	970	13.0
MAR 05...	0801	85113	7420	846	12.0
APR 08...	0941	85113	7160	1030	12.0
SEP 09...	0731	85113	6780	1010	13.0

SAVANNAH RIVER BASIN

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02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TRITIUM IN WATER MOLE- CULES (TU)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU)						
NOV											
11...	0806	85113	4790	1410	14.0						
DEC											
09...	0801	85113	6740	897	11.0						
JAN											
20...	0831	85113	8090	1140	14.0						
FEB											
10...	0821	85113	12700	832	11.0						
MAR											
10...	0826	85113	28100	512	7.0						
APR											
14...	0726	85113	15900	420	9.0						
MAY											
12...	0646	85113	6480	892	11.0						
JUN											
22...	0906	85113	7790	988	12.0						
JUL											
07...	0606	85113	7500	940	11.0						
AUG											
11...	1356	85113	8370	545	8.0						
SEP											
08...	0806	85113	8840	738	9.0						
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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)
NOV											
06...	1530	80020	4810	1.3	<0.4	0.5	1.6	0.5	1.5	0.02	<0.01
JUN											
02...	1120	80020	5550	0.6	0.8	0.7	1.9	0.7	1.7	0.03	0.02

SAVANNAH RIVER BASIN

02198760 SAVANNAH RIVER ABOVE HARDEEVILLE, S.C.

LOCATION.--Lat 32°20'21", long 81°07'43", Jasper County, S.C., Hydrologic Unit 03060109, at right downstream side of the fishing pier on Becks Ferry Road, 12 mi upstream from Abercorn Creek, and 5 mi northwest of Hardeeville, S.C.

PERIOD OF RECORD.--October 1986 to September 1987.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 12.81 ft, Mar. 15; minimum elevation recorded, 2.91 ft, Oct. 28.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.01	3.71	6.31	3.60	7.21	4.73	7.63	5.80	12.12	11.87	10.33	10.05
2	6.08	3.70	6.28	3.44	7.27	4.96	7.04	5.20	11.89	11.44	10.39	10.07
3	6.26	3.85	6.47	3.43	7.05	5.19	7.37	5.40	11.47	10.67	10.61	10.31
4	6.57	4.35	6.60	3.64	7.32	5.38	8.49	6.86	10.70	9.69	10.77	10.58
5	6.59	4.85	6.54	3.58	7.81	6.22	9.22	8.27	9.83	8.94	10.97	10.78
6	6.75	4.89	6.18	3.34	7.89	6.69	9.65	8.96	9.25	8.41	11.24	10.97
7	6.68	4.54	6.06	3.22	7.62	6.33	9.76	9.34	8.88	8.25	11.59	11.25
8	6.42	4.04	5.92	3.24	7.18	5.64	9.63	8.73	8.76	8.17	11.94	11.59
9	6.00	3.55	5.67	3.21	6.84	5.03	8.94	7.56	8.78	8.30	12.17	11.92
10	5.88	3.28	5.70	3.17	6.47	4.57	8.13	7.01	9.15	8.63	12.39	12.15
11	6.03	3.46	5.87	3.36	6.45	4.28	7.35	6.53	9.40	8.96	12.55	12.36
12	6.28	3.56	5.84	3.35	6.43	4.29	7.20	6.13	9.60	9.19	12.67	12.52
13	6.35	3.87	5.83	3.27	6.70	4.72	7.07	5.71	9.89	9.39	12.77	12.64
14	6.15	3.90	6.11	3.44	7.17	5.31	6.96	5.35	10.07	9.64	12.80	12.75
15	6.13	3.67	6.16	3.51	7.42	5.71	6.75	5.12	10.26	9.87	12.81	12.75
16	6.17	3.80	5.97	3.43	7.77	6.48	6.71	5.03	10.58	10.19	12.79	12.68
17	6.22	3.82	5.96	3.42	7.74	6.51	7.03	5.24	10.66	10.40	12.73	12.63
18	6.14	3.67	6.04	3.37	7.39	5.84	7.53	5.98	10.78	10.58	12.66	12.57
19	6.05	3.62	5.88	3.40	6.86	5.23	7.46	6.32	10.91	10.74	12.60	12.50
20	5.98	3.49	6.36	3.81	6.76	4.95	7.55	6.50	10.96	10.83	12.52	12.35
21	5.87	3.44	5.80	3.68	6.67	4.79	8.33	7.41	11.04	10.85	12.38	12.11
22	5.67	3.41	5.91	3.81	6.57	4.72	9.39	8.36	11.07	10.89	12.12	11.44
23	5.57	3.34	6.15	4.12	6.63	4.62	10.01	9.36	11.00	10.88	11.81	11.50
24	5.36	3.31	6.43	4.87	6.33	4.57	10.55	10.01	11.03	10.85	---	---
25	5.36	3.27	6.34	4.89	6.04	4.50	10.97	10.52	11.01	10.80	---	---
26	5.32	3.13	6.12	4.59	6.20	4.43	11.21	10.89	10.84	10.55	---	---
27	5.33	3.14	5.92	4.15	6.88	4.71	11.55	11.15	10.66	10.27	---	---
28	5.41	2.91	6.18	3.92	7.78	5.91	11.86	11.49	10.41	10.05	---	---
29	5.48	3.08	6.56	4.08	8.32	7.00	12.11	11.84	---	---	---	---
30	5.66	3.13	6.92	4.24	8.17	6.77	12.18	12.07	---	---	---	---
31	6.13	3.32	---	---	7.61	5.82	12.17	12.07	---	---	---	---
MONTH	6.75	2.91	6.92	3.17	8.32	4.28	12.18	5.03	12.12	8.17	---	---

SAVANNAH RIVER BASIN

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02198760 SAVANNAH RIVER ABOVE HARDEEVILLE, S.C.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	6.69	5.22	5.97	3.96	6.39	4.74	6.14	4.77	8.17	7.17
2	---	---	6.75	5.23	5.73	3.71	6.12	4.68	6.21	4.87	7.46	6.12
3	---	---	6.62	5.25	5.57	3.64	6.25	5.23	6.14	4.61	6.96	5.47
4	10.33	10.19	6.54	5.33	5.41	3.68	6.96	5.71	6.15	4.38	7.31	5.48
5	10.37	10.24	6.49	5.45	5.77	3.95	7.03	6.00	6.55	4.63	7.94	6.06
6	10.50	10.33	6.68	5.25	6.26	4.28	7.26	6.02	6.86	5.00	8.34	7.00
7	10.53	10.42	6.50	5.21	6.26	4.51	7.40	6.05	7.33	5.45	8.36	7.40
8	10.53	10.31	6.45	5.19	6.25	4.27	7.32	5.77	7.77	6.08	8.35	6.84
9	10.37	10.14	6.87	5.31	6.19	3.90	7.22	5.45	7.89	6.55	7.84	6.14
10	10.23	9.97	6.70	5.09	6.21	3.73	7.27	5.33	7.89	6.47	7.45	6.03
11	10.17	9.91	6.78	4.85	6.60	3.92	7.41	5.49	7.66	6.29	7.89	6.72
12	10.19	9.89	6.87	4.80	6.64	3.94	7.42	5.78	7.62	6.27	8.41	7.46
13	10.26	9.93	6.91	4.79	6.56	3.89	7.55	5.74	7.64	6.29	8.51	7.86
14	10.40	10.03	7.07	5.03	6.34	3.86	7.35	5.27	7.75	6.55	8.55	7.97
15	10.53	10.19	7.25	5.49	6.20	3.96	7.00	5.11	7.50	6.39	8.21	7.29
16	10.56	10.26	7.39	5.91	6.20	3.98	6.74	5.00	7.33	6.23	7.55	6.76
17	10.53	10.16	7.48	6.09	6.22	4.26	6.74	4.84	7.37	6.35	7.80	6.75
18	10.44	10.06	7.50	5.93	6.32	4.50	6.62	4.83	7.19	6.30	8.24	7.33
19	10.34	9.99	7.21	5.74	6.49	4.67	6.48	4.64	6.85	5.65	8.67	7.81
20	10.29	10.00	6.98	5.63	6.56	4.85	6.38	4.59	7.19	5.61	8.95	8.24
21	10.27	9.99	7.08	5.53	6.73	5.17	6.35	4.54	7.90	6.41	9.17	8.51
22	10.28	9.92	7.14	5.59	7.00	5.50	6.38	4.51	8.27	7.21	9.20	8.73
23	10.02	9.31	7.00	5.49	7.11	5.72	6.69	4.74	8.32	7.55	9.18	8.31
24	9.29	8.47	6.79	5.07	7.00	5.59	6.56	4.57	8.28	7.45	8.76	7.65
25	8.79	8.09	6.60	4.69	7.07	5.51	6.52	4.51	8.26	6.99	8.34	7.40
26	8.80	8.03	6.47	4.35	6.97	5.52	6.59	4.82	7.84	6.04	8.13	7.30
27	8.75	7.57	6.54	4.21	7.03	5.53	6.55	4.84	7.19	5.95	8.14	7.24
28	8.38	6.36	6.51	4.11	7.08	5.73	6.39	4.43	7.32	6.37	8.32	7.41
29	7.74	5.62	6.40	4.18	7.12	5.54	6.09	4.24	7.64	6.83	8.31	7.49
30	7.20	5.18	6.28	4.25	6.83	5.11	6.09	4.37	8.12	7.24	7.90	6.79
31	---	---	6.15	4.10	---	---	6.09	4.59	8.28	7.56	---	---
MONTH	---	---	7.50	4.10	7.12	3.64	7.55	4.24	8.32	4.38	9.20	5.47

SAVANNAH RIVER BASIN

02198810 ABERCORN CREEK NEAR SAVANNAH, GA.

LOCATION.--Lat 32°15'20", long 81°10'42", Effingham County, Hydrologic Unit 03060109, at city of Savannah water intake on Abercorn Road, 1.9 mi above mouth, 4.3 mi southeast of Rincon, and 13 mi north-northwest of Savannah.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1986 to September 1987 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 6.50 ft, March 18; minimum elevation recorded, -3.48 ft, June 10.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.30	-2.25	5.79	-1.40	6.30	-0.59	6.39	1.23	5.91	2.33	6.09	-0.26
2	5.39	-2.48	5.78	-1.98	6.20	-1.06	5.63	-1.88	5.89	1.56	5.67	-0.73
3	5.43	-2.39	5.96	-2.00	5.68	-1.90	5.74	-2.48	5.51	.40	5.65	-0.61
4	5.44	-2.32	6.08	-1.28	5.78	-2.54	6.06	-1.09	5.34	-0.01	5.56	-0.50
5	5.33	-2.32	6.02	-1.53	5.83	-1.97	5.71	.72	5.26	.07	5.40	.01
6	5.58	-2.56	5.70	-2.11	5.72	-1.26	5.80	-0.06	5.38	.08	5.10	.24
7	5.80	-1.54	5.59	-2.04	5.52	-1.38	5.49	-0.91	5.39	-0.38	5.36	1.20
8	5.76	-1.42	5.44	-1.74	5.21	-1.86	5.07	-0.80	5.21	-1.33	5.42	1.24
9	5.45	-1.80	5.17	-2.00	5.22	-2.20	5.43	-0.95	3.95	-1.95	4.89	1.47
10	5.39	-2.03	5.20	-2.02	5.19	-2.33	5.44	-1.18	4.83	-1.74	4.95	1.42
11	5.54	-0.82	5.37	-1.22	5.45	-2.45	4.22	-2.17	5.12	-1.76	5.44	2.50
12	5.71	-1.22	5.33	-1.95	5.31	-2.51	4.57	-2.81	5.07	-1.72	5.81	3.13
13	5.66	-1.42	5.33	-2.16	5.41	-2.74	5.02	-2.70	5.41	-1.73	6.01	3.57
14	5.47	-1.73	5.61	-1.39	5.67	-1.61	5.30	-2.08	5.52	-1.08	6.32	4.10
15	5.50	-2.02	5.64	-1.34	5.70	-1.61	5.24	-2.20	5.66	-1.02	6.34	4.51
16	5.56	-1.67	5.41	-1.91	5.50	-1.51	5.31	-1.94	6.31	.65	6.30	4.29
17	5.62	-1.47	5.37	-2.14	5.46	-1.26	5.44	-1.43	5.59	-0.11	6.47	4.52
18	5.56	-1.77	---	---	5.59	-1.18	5.71	-0.57	5.57	-0.28	6.50	4.33
19	5.48	-1.45	---	---	5.36	-1.71	5.14	-1.96	5.39	-0.11	6.41	3.98
20	5.42	-1.65	---	---	5.48	-1.21	4.84	-1.93	5.15	.15	6.23	3.80
21	5.28	-1.67	---	---	5.51	-0.92	5.07	-1.27	5.42	.54	6.20	2.94
22	5.06	-1.51	---	---	5.45	-0.60	5.27	-0.97	5.68	.63	5.95	2.32
23	4.94	-1.54	---	---	5.60	-0.20	4.36	-1.45	4.91	-0.41	5.94	1.75
24	4.69	-1.37	---	---	5.09	-1.26	5.13	-0.76	5.66	-0.61	5.94	1.39
25	4.75	-1.00	4.88	-1.52	4.76	-1.99	5.46	-0.42	5.93	-0.27	6.08	1.09
26	4.77	-1.01	4.98	-1.98	5.00	-1.94	5.48	-0.37	6.12	.11	6.05	.73
27	4.76	-1.54	4.85	-2.11	5.43	-1.88	5.96	-0.41	6.31	1.04	6.04	.18
28	4.84	-1.92	5.34	-2.46	5.84	-1.47	5.93	.21	6.20	.68	5.93	.00
29	4.93	-2.04	5.79	-1.81	6.02	-1.59	6.24	1.14	---	---	6.07	-0.01
30	5.13	-2.16	6.09	-1.68	6.01	-1.25	6.08	2.24	---	---	5.97	.03
31	5.65	-1.86	---	---	6.06	-1.93	5.94	1.97	---	---	5.84	-1.54
MONTH	5.80	-2.56	---	---	6.30	-2.74	6.39	-2.81	6.31	-1.95	6.50	-1.54

SAVANNAH RIVER BASIN

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02198810 ABERCORN CREEK NEAR SAVANNAH, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.58	-1.26	5.17	-2.38	5.06	-2.04	4.88	-2.12	4.71	-2.28	5.34	-1.44
2	5.55	-0.89	5.10	-1.88	4.85	-2.16	4.79	-2.29	4.77	-2.27	5.30	-1.77
3	5.34	-1.18	4.97	-1.82	4.77	-2.28	4.51	-2.37	4.97	-2.20	5.41	-2.19
4	3.76	-1.55	4.75	-1.64	4.63	-2.01	4.62	-2.23	5.04	-2.75	5.87	-1.87
5	3.85	-1.05	4.60	-0.59	4.93	-1.70	4.87	-2.53	5.35	-3.03	6.08	-1.24
6	4.26	-0.41	5.00	-0.91	5.22	-1.62	5.18	-2.34	5.48	-3.13	6.08	-0.95
7	3.90	-0.70	4.90	-1.33	5.24	-1.96	5.57	-2.25	5.74	-2.89	6.06	-0.67
8	4.53	-0.73	4.76	-1.80	5.36	-2.48	5.75	-2.45	6.02	-2.42	5.83	-1.17
9	4.49	-1.06	5.38	-1.12	5.44	-3.16	5.83	-2.71	6.00	-1.89	5.69	-1.51
10	5.08	-0.94	5.35	-2.19	5.52	-3.48	5.96	-2.59	5.74	-2.10	5.70	-1.84
11	5.25	-1.02	5.58	-2.37	5.95	-2.63	6.05	-2.38	5.88	-1.59	5.51	-1.79
12	5.30	-1.51	5.75	-2.22	5.87	-2.80	6.06	-2.07	5.89	-0.94	5.50	-1.81
13	5.44	-1.66	5.79	-2.45	5.63	-3.04	6.07	-1.62	5.98	-0.16	5.13	-1.73
14	5.79	-1.26	5.83	-2.28	5.62	-3.01	5.96	-1.73	5.82	-0.61	5.01	-1.49
15	5.85	-0.80	5.84	-2.24	5.38	-2.81	5.74	-1.75	5.43	-1.32	5.08	-1.21
16	5.82	-1.00	5.84	-2.30	5.44	-2.49	5.50	-1.94	5.23	-1.78	4.96	-1.09
17	5.82	-0.87	5.74	-1.90	5.31	-2.57	5.66	-1.85	5.06	-1.90	4.78	-1.53
18	5.80	-0.56	5.67	-2.13	5.21	-2.69	5.55	-1.38	4.95	-1.63	4.76	-1.73
19	5.69	-0.52	5.39	-2.14	5.40	-2.40	5.42	-1.91	5.09	-1.80	5.20	-1.72
20	5.62	-0.56	5.22	-2.25	5.27	-2.54	5.29	-1.98	5.21	-1.91	5.40	-1.31
21	5.49	-0.58	5.57	-1.68	5.13	-2.78	5.27	-2.16	5.43	-1.56	5.58	-0.82
22	5.53	-0.48	5.62	-1.83	5.25	-2.69	5.29	-2.12	5.47	-1.55	5.51	-0.90
23	5.63	-0.58	5.53	-1.99	5.41	-2.45	5.60	-1.79	5.33	-1.95	5.54	-0.96
24	5.63	-0.98	5.55	-2.46	5.40	-2.49	5.58	-1.64	5.58	-1.58	5.58	-0.92
25	5.64	-1.35	5.55	-2.63	5.49	-1.66	5.50	-1.75	5.56	-1.55	5.44	-1.29
26	5.87	-1.41	5.57	-2.46	5.40	-1.81	5.36	-1.99	5.25	-1.88	5.37	-1.47
27	6.04	-0.89	5.77	-1.90	5.37	-2.39	5.13	-2.58	5.09	-2.10	5.45	-1.55
28	6.03	-1.67	5.64	-1.77	5.46	-1.67	4.98	-2.59	4.78	-2.12	5.52	-1.20
29	5.75	-1.53	5.41	-1.97	5.31	-1.67	5.13	-2.31	4.71	-2.34	5.38	-1.31
30	5.56	-2.64	5.21	-2.05	5.16	-1.96	5.07	-1.91	5.21	-1.94	5.26	-1.53
31	---	---	5.13	-2.15	---	---	4.98	-2.16	5.10	-1.54	---	---
MONTH	6.04	-2.64	5.84	-2.63	5.95	-3.48	6.07	-2.71	6.02	-3.13	6.08	-2.19

SAVANNAH RIVER BASIN

02198810 ABERCORN CREEK NEAR SAVANNAH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1986 to September 1987 (discontinued).

INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded every 15 minutes.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 160 microsiemens July 30; minimum, 40 microsiemens on many days in Jan., May.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	120	90	110	100	110	90	80	60	70	50	70	50
2	110	100	110	100	110	80	90	50	60	50	70	50
3	110	100	120	100	100	80	100	60	70	50	70	50
4	110	100	130	100	100	80	100	60	70	60	70	50
5	110	100	120	100	100	80	90	50	80	60	70	50
6	120	90	110	100	100	80	70	50	80	60	70	50
7	110	90	110	100	90	80	70	50	80	60	60	50
8	110	90	110	100	100	80	70	50	80	60	60	40
9	110	90	120	100	100	80	80	50	80	60	60	50
10	110	100	110	100	100	90	80	60	80	60	60	50
11	120	100	110	100	100	80	80	60	80	60	60	50
12	120	100	110	100	100	60	80	50	70	60	60	50
13	120	100	120	100	110	60	90	60	70	60	60	40
14	110	90	120	110	110	60	90	60	70	60	60	40
15	110	100	120	100	110	70	90	60	70	50	60	40
16	110	90	110	100	110	70	90	60	70	60	60	40
17	110	100	110	100	100	70	90	50	70	50	60	50
18	120	100	110	90	100	80	90	40	70	50	60	50
19	120	100	110	100	100	80	90	40	70	50	60	50
20	120	100	110	100	100	80	90	50	70	50	70	50
21	120	100	110	90	110	80	90	50	70	50	70	50
22	120	100	110	90	110	80	90	40	70	50	70	60
23	120	100	110	90	110	80	60	40	60	50	70	60
24	120	100	110	80	100	70	70	40	70	50	70	60
25	110	100	100	90	100	60	60	50	70	50	70	60
26	110	100	100	80	100	60	60	50	70	60	70	60
27	120	100	110	90	100	70	60	50	80	60	80	60
28	120	100	110	90	100	70	60	40	70	60	80	60
29	120	100	110	90	100	70	60	40	---	---	80	60
30	120	100	110	90	90	70	60	50	---	---	70	60
31	120	100	---	---	90	70	60	50	---	---	80	60
MONTH	120	90	130	80	110	60	100	40	80	50	80	40

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SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

[illegible]

SAVANNAH RIVER BASIN

02198840 SAVANNAH RIVER NEAR PORT WENTWORTH, GA.

LOCATION.--Lat 32°14'08", long 81°09'05", Effingham County, Hydrologic Unit 03060109, at right downstream fender of bridge on Interstate 95, 1 mi downstream from Abercorn Creek, and 6.1 mi north of Port Wentworth.

PERIOD OF RECORD.--June 1986 to current year.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--June 1987 to September 1987.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT YEAR.--June to September 1987: Maximum elevation recorded, 5.85 ft, July 12 and Sept. 5; minimum elevation recorded, -3.75 ft, Aug. 6.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	4.42	-2.68	4.27	-2.84	4.92	-2.11
2					---	---	4.34	-2.81	4.32	-2.79	4.88	-2.36
3					---	---	4.06	-2.88	4.55	-2.69	5.01	-2.78
4					---	---	4.16	-2.83	4.63	-3.27	5.57	-2.45
5					---	---	4.42	-3.14	4.97	-3.58	5.85	-2.02
6					---	---	4.76	-2.94	5.12	-3.75	5.84	-1.79
7					---	---	5.20	-2.82	5.42	-3.57	5.83	-1.56
8					---	---	5.42	-3.15	5.80	-3.20	5.52	-2.08
9					---	---	5.52	-3.47	5.76	-2.71	5.35	-2.35
10					---	---	5.70	-3.38	5.41	-2.96	5.37	-2.71
11					---	---	5.82	-3.21	5.62	-2.43	5.13	-2.60
12					---	---	5.85	-2.88	5.62	-1.75	5.10	-2.53
13					---	---	5.72	-2.41	5.74	-0.92	4.68	-2.47
14					---	---	5.70	-2.48	5.52	-1.28	4.56	-2.19
15					---	---	5.43	-2.54	5.03	-1.97	4.64	-1.83
16					---	---	5.12	-2.65	4.81	-2.40	4.51	-1.62
17					4.89	-3.32	5.31	-2.46	4.63	-2.50	4.33	-2.07
18					4.80	-3.36	5.19	-1.94	4.51	-2.17	4.30	-2.34
19					5.01	-3.04	5.03	-2.44	4.69	-2.30	4.76	-2.42
20					4.85	-3.13	4.89	-2.49	4.80	-2.48	4.99	-2.00
21					4.71	-3.40	4.87	-2.67	5.03	-2.15	5.19	-1.53
22					4.83	-3.29	4.89	-2.62	5.07	-2.17	5.12	-1.65
23					5.01	-3.07	5.25	-2.27	4.92	-2.65	5.15	-1.77
24					5.00	-3.09	5.23	-2.13	5.21	-2.27	5.20	-1.67
25					5.09	-2.23	5.12	-2.23	5.19	-2.21	5.04	-1.99
26					4.99	-2.37	4.97	-2.50	4.85	-2.50	4.97	-2.19
27					4.97	-2.99	4.73	-3.15	4.67	-2.74	5.06	-2.23
28					5.06	-2.28	4.57	-3.07	4.33	-2.81	5.13	-1.83
29					4.79	-2.19	4.73	-2.87	4.22	-3.04	4.97	-1.96
30					4.70	-2.48	4.58	-2.40	4.78	-2.63	4.85	-2.15
31					---	---	4.50	-2.69	4.65	-2.20	---	---
MONTH					---	---	5.85	-3.47	5.80	-3.75	5.85	-2.78

SAVANNAH RIVER BASIN

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02198840 SAVANNAH RIVER NEAR PORT WENTWORTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1986 to September 1987.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded every 15 minutes.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 550 microsiemens Dec. 1; minimum recorded, 40 microsiemens on many days in Jan., Feb., Mar.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	200	100	550	100	100	70	60	40	70	60
2	---	---	200	100	270	100	90	70	60	50	70	60
3	140	90	360	100	110	100	90	80	70	50	70	50
4	130	90	500	100	110	90	90	80	70	60	60	50
5	110	90	350	110	110	90	90	60	70	60	60	40
6	100	80	160	100	110	80	70	50	70	60	50	40
7	90	80	150	100	100	80	70	50	70	60	50	40
8	100	80	140	100	100	80	70	60	80	60	50	40
9	100	90	130	110	100	80	80	60	70	60	50	40
10	110	90	130	110	100	90	80	60	70	50	50	40
11	110	100	140	110	100	90	70	60	70	50	50	40
12	120	100	140	100	100	90	80	60	70	50	50	40
13	120	100	140	110	110	90	80	70	60	50	50	40
14	120	100	140	110	110	100	80	70	60	50	50	40
15	120	100	140	110	110	90	90	70	60	50	50	40
16	140	100	130	100	100	90	90	80	60	40	50	40
17	130	100	130	100	100	80	90	70	50	40	50	40
18	140	100	120	100	90	80	90	70	70	40	50	40
19	130	100	120	100	100	90	80	70	70	60	60	50
20	130	100	120	100	100	90	80	60	70	60	60	50
21	130	110	110	100	110	90	80	70	70	50	60	50
22	120	110	110	100	110	100	80	50	60	50	70	50
23	120	100	110	100	110	90	60	40	70	50	70	50
24	120	100	110	100	100	90	50	40	60	50	70	50
25	120	110	110	90	100	90	50	40	70	60	70	60
26	120	100	100	90	100	90	50	40	70	60	70	60
27	120	100	110	90	100	90	50	40	70	60	70	60
28	120	110	120	100	100	90	50	40	70	60	80	60
29	120	100	120	100	100	60	50	40	---	---	70	60
30	140	100	190	100	80	70	50	40	---	---	70	60
31	180	100	---	---	80	70	50	40	---	---	70	60
MONTH	180	80	500	90	550	60	100	40	80	40	80	40

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

[illegible]

SAVANNAH RIVER BASIN

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021989785 LUCKNOW CANAL NEAR LIMEHOUSE, S.C.

LOCATION.--Lat 32°08'32", long 81°05'54", Jasper County, S.C., Hydrologic Unit 03060109, at central gage at the south end of Lucknow Canal on one-way service road to the southern part of the Savannah National Wildlife Refuge accessed from U.S. Highway 17, 2 mi southeast of Refuge Headquarters, and 5.2 mi south-southwest of Limehouse, S.C.

DRAINAGE AREA.--Unknown.

PERIOD OF RECORD.--October 1986 to September 1987.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded every 15 minutes.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 22,200 microsiemens June 7; minimum, 2,400 microsiemens Jan. 4.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13100	10500	15600	13500	17900	8400	11000	3300	5700	4800	6100	4900
2	13200	10400	16000	14300	15100	8000	8600	7000	5600	4200	5900	4800
3	13300	12400	16000	13500	11400	7500	7800	7100	5500	4600	6100	5200
4	13400	12700	16700	12900	9700	7200	7800	2400	5500	4800	5800	4900
5	13600	12400	15300	13800	9100	6700	6500	5100	5400	3400	6100	5400
6	13100	12000	15600	13500	9100	6800	6400	5800	5100	3500	6500	5300
7	13400	11300	14300	13400	9000	6800	6200	5500	5030	4130	5900	3100
8	13300	9960	13500	13200	8800	7200	6200	5600	5170	3870	5600	4600
9	13400	11900	13900	13100	8810	7110	6300	5800	5800	4500	5500	5100
10	13200	10500	13900	12400	8230	6830	6700	5800	6830	5230	5800	4200
11	13000	9680	14000	12900	6940	6540	6500	5400	8170	5970	5500	4100
12	13800	9790	14100	13000	6860	6360	7200	5700	9400	6700	5500	4600
13	14800	13800	14100	13200	6470	6070	7900	6000	9030	6930	5600	5000
14	15200	12900	14500	13300	6290	5690	9100	6200	7670	6770	5900	4900
15	14500	12600	14500	13400	6100	5700	9100	6300	7500	6400	5900	5400
16	14200	11600	14300	13800	6100	5900	8200	6300	6830	4230	5700	3700
17	13900	11600	14000	12000	7300	5600	7400	5500	6270	4870	5000	3400
18	14000	11400	13000	10600	7900	6200	7200	5900	6600	5700	4700	4000
19	14100	12100	10500	7100	8400	6500	8300	5600	6800	6000	4400	3600
20	14200	11800	8700	6400	8700	7100	7500	5500	6800	5800	4600	3300
21	14300	11500	8500	5000	9600	7500	6800	5400	6400	5000	4600	3700
22	15400	12000	9200	5700	10000	7900	6800	5000	6100	4900	4300	3300
23	15800	11500	10200	5500	10600	8700	6000	4900	5800	5300	4500	3500
24	15800	12000	9500	5900	10800	8200	6500	5600	6600	5600	4700	4000
25	15900	11700	8600	4500	10000	7900	6500	5000	6400	5300	4600	4100
26	12500	7700	9000	4600	10500	7900	6100	4600	6100	4800	4700	4100
27	16200	9300	10100	4600	10900	8400	5100	4400	5900	4700	5100	4100
28	14600	11000	11000	8600	11500	8600	5400	4500	6200	4900	4900	4400
29	14400	11400	11100	9800	11100	8900	5600	4400	---	---	4800	4100
30	14700	9300	11000	8800	10400	8200	5500	4600	---	---	5100	4300
31	14800	11600	---	---	9200	7500	5300	4700	---	---	5100	4300
MONTH	16200	7700	16700	4500	17900	5600	11000	2400	9400	3400	6500	3100

SAVANNAH RIVER BASIN

021989785 LUCKNOW CANAL NEAR LIMEHOUSE, S.C.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5500	4700	9020	8020	16600	14200	8110	4110	7800	4600	12200	9840
2	5500	4800	9440	8240	16700	14500	9130	5230	9100	3100	11500	9920
3	5800	5200	9650	8550	17900	15400	8340	4740	6600	3700	11500	9800
4	6100	5600	9970	8670	19600	15900	8250	5150	6300	3500	10500	9700
5	6200	5700	9880	8880	21000	15600	8760	5060	6400	3500	10200	8600
6	6400	5300	9800	8900	22000	18500	9380	4380	6500	3400	8900	7400
7	5800	5100	10400	7100	22200	19500	10400	4390	6500	3300	7500	6200
8	6000	5100	8900	6000	22100	19100	11100	4200	6400	3200	7400	5400
9	6800	5500	8800	5200	19200	18500	10300	4110	7100	3600	7200	5400
10	7500	5600	8800	4200	19000	18500	10200	4030	7500	3100	6700	4800
11	9000	6000	8000	3400	19000	16400	10200	4840	6800	3900	5700	4600
12	9300	7600	7500	3200	19900	16400	10800	4950	7300	5500	5900	4700
13	9400	8100	6500	2800	18700	15300	10800	4660	7500	6200	6000	5400
14	8600	7600	6000	2700	17000	14900	10900	4880	9900	7100	6200	5600
15	7800	7300	6100	2600	16500	14700	10200	5290	10100	6100	6700	5000
16	7900	7200	6500	3400	16100	14500	9300	5300	8300	6800	7000	6400
17	7800	7300	6600	3800	15900	14400	9300	5000	9400	7300	7200	5900
18	7820	6320	7000	4200	15600	13800	10100	4700	9880	8080	8300	6200
19	7230	5930	7070	5170	15500	13800	10100	5000	10600	8260	8400	7000
20	7050	6050	7250	5750	15300	13900	10200	5300	11200	9550	8500	7300
21	7060	6060	7320	5920	14900	13900	11300	4100	12400	9830	9000	7000
22	7180	6080	7690	6090	14900	13900	11900	4200	12300	10100	8900	7500
23	7190	6690	7960	6360	14700	12900	17100	5000	12300	9990	8900	7700
24	7710	6510	8040	6640	13700	11000	16900	5500	12300	10300	8000	6300
25	7530	6130	8510	6810	11900	9400	16600	5500	11200	9560	7200	6100
26	6940	5540	8680	7180	10700	7300	13300	5600	12400	9740	7000	6400
27	7060	5960	8750	7550	9700	5600	12900	4900	13400	9520	7400	6400
28	7470	6270	8830	7430	9700	2600	11800	4700	14400	9510	7100	6400
29	7890	6590	14600	7400	10100	4200	11100	5300	14400	9590	7100	6200
30	8610	7410	14900	12600	9200	3500	8900	5900	14600	10400	7300	6600
31	---	---	15600	13300	---	---	8700	4900	14600	11400	---	---
MONTH	9400	4700	15600	2600	22200	2600	17100	4030	14600	3100	12200	4600
YEAR	22200	2400										

SAVANNAH RIVER BASIN

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02198979 LITTLE BACK RIVER NEAR LIMEHOUSE, S.C.

LOCATION.--Lat 32°11'05", long 81°07'02", Jasper County, S.C., Hydrologic Unit 03060109, at the end of the fishing pier at north control gate of Lucknow Canal on the service road to the northern part of the Savannah National Wildlife Refuge accessed from U.S. Highway 17, 1.25 mi north of Refuge Headquarters, and 3.4 mi southwest of Limehouse, S.C.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--June 1987 to September 1987.

GAGE.--Water-stage recorder. Datum of gage is 3.39 ft below National Geodetic Vertical Datum of 1929, at mean low water (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT YEAR.--June to September 1987: Maximum gage height recorded, 9.69 ft, July 12; minimum gage height recorded, -0.68 ft, Aug. 6.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	8.22	.59	8.01	.42	8.68	1.03
2					---	---	8.11	.50	8.11	.49	8.64	.91
3					---	---	7.82	.41	8.26	.68	8.80	.39
4					---	---	7.88	.33	8.34	.06	9.38	.80
5					---	---	8.13	.04	8.70	-0.35	9.67	1.02
6					---	---	8.59	.25	8.75	-0.68	9.65	1.17
7					---	---	8.95	.42	9.12	-0.48	9.63	1.30
8					---	---	9.19	-0.08	9.61	-0.23	9.31	.78
9					---	---	9.30	-0.48	9.45	.12	9.12	.57
10					---	---	9.52	-0.44	9.18	-0.24	9.14	.18
11					---	---	9.66	-0.28	9.40	.41	8.88	.34
12					---	---	9.69	.08	9.39	1.30	8.85	.46
13					---	---	9.56	.61	9.53	2.23	8.43	.49
14					---	---	9.50	.56	9.18	1.87	8.32	.88
15					---	---	9.20	.46	8.66	1.18	8.37	1.40
16					---	---	8.89	.44	8.40	.90	8.25	1.70
17					---	---	9.08	.78	8.35	.71	8.09	1.25
18					8.49	-0.18	8.94	1.39	8.23	1.19	8.03	.88
19					8.70	.18	8.77	.89	8.41	1.11	8.48	.62
20					8.57	.05	8.62	.90	8.51	.79	8.71	1.10
21					8.44	-0.26	8.60	.73	8.77	1.07	8.94	1.51
22					8.56	-0.12	8.63	.72	8.80	.98	8.85	1.29
23					8.72	.11	9.02	1.12	8.63	.37	8.79	1.10
24					8.73	.07	8.99	1.27	8.97	.76	8.93	1.30
25					8.81	1.03	8.88	1.18	8.94	.87	8.76	.96
26					8.73	.97	8.70	.84	8.58	.66	8.69	.78
27					8.70	.23	8.44	.09	8.38	.37	8.79	.83
28					8.82	.95	8.30	.19	8.07	.29	8.85	1.29
29					8.60	1.12	8.47	.41	8.00	-0.06	8.67	1.13
30					8.52	.83	8.43	.93	8.53	.41	8.53	1.01
31					---	---	8.26	.64	8.39	.89	---	---
MONTH					---	---	9.69	-0.48	9.61	-0.68	9.67	.18

SAVANNAH RIVER BASIN

02198979 LITTLE BACK RIVER NEAR LIMEHOUSE, S.C.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1986 to September 1987.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded every 15 minutes.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 18,800 microsiemens June 9; minimum, 90 microsiemens Jan. 25, 27.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2960	290	10200	900	12100	1350	7540	640	990	130	890	140
2	2960	700	12400	1000	11100	1630	1930	600	900	110	1120	180
3	3090	730	13100	1140	6600	1150	1980	550	1030	120	1060	220
4	2560	600	15900	1740	7140	750	3900	520	1020	130	1240	190
5	2410	550	15500	2280	3560	560	1280	380	980	200	1230	170
6	4090	420	8760	1770	2670	1050	1000	230	900	170	1120	140
7	6190	580	5930	1180	2560	870	1160	330	980	140	980	110
8	4260	620	3300	880	2640	1080	1150	280	1290	130	1150	190
9	1560	470	2140	860	2510	920	950	200	1410	220	1230	230
10	---	---	1580	670	1880	750	1100	190	1140	130	1210	110
11	---	---	1860	530	1790	620	1220	260	1060	130	1080	110
12	---	---	1700	600	1990	290	1300	190	1290	130	910	100
13	---	---	1670	550	2810	620	1250	240	1400	220	950	100
14	1520	470	4770	600	2340	430	1270	230	1200	170	1040	130
15	2070	560	3600	710	2500	660	1470	290	1160	180	980	130
16	3270	650	1700	570	2400	859	1350	340	1390	120	1090	130
17	4000	750	1260	300	3050	629	1370	340	---	---	1480	320
18	3150	740	1200	200	2910	778	1170	300	---	---	1410	220
19	2250	680	1000	200	2500	777	1510	250	1710	160	1440	230
20	1660	580	2000	200	2230	616	1590	250	1720	180	1370	210
21	1040	420	400	100	2090	666	1140	180	1500	150	1220	210
22	640	290	---	---	2050	475	1120	130	1480	130	1180	220
23	430	220	---	---	2100	524	1790	210	1770	160	1150	190
24	340	170	210	170	2090	484	1170	120	1750	210	1130	290
25	270	160	210	150	1870	483	730	90	1570	210	1150	240
26	280	160	200	140	1960	502	760	100	1280	170	1170	260
27	230	160	210	150	1970	581	860	90	890	150	1180	290
28	280	160	450	170	2080	611	770	100	1020	140	1150	270
29	470	170	8870	280	7880	730	980	110	---	---	1230	280
30	970	290	11800	620	5860	600	1080	140	---	---	1140	220
31	9350	500	---	---	7510	580	1140	120	---	---	1580	240
MONTH	9350	160	15900	100	12100	290	7540	90	1770	110	1580	100

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SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

[illegible]

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN

02178500 LAKE BURTON NEAR CLAYTON, GA.

LOCATION.--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.

GAGE.--Nonrecording gage. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--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 Company.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1864.7	103000	-	-
Oct. 31.....	1865.2	104000	+1000	+16
Nov. 30.....	1865.3	104000	0	0
Dec. 31.....	1862.2	95700	-8300	-135
CAL YR 1986	-	-	+8800	+12
Jan. 31.....	1859.0	87400	-8300	-135
Feb. 28.....	1860.9	92300	+4900	+88
Mar. 31.....	1862.5	96500	+4200	+68
Apr. 30.....	1865.4	105000	+8500	+143
May 31.....	1865.4	105000	0	0
June 30.....	1865.4	105000	0	0
July 31.....	1865.0	103000	-2000	-33
Aug. 31.....	1865.1	104000	+1000	+16
Sept. 30.....	1865.0	103000	-1000	-17
WTR YR 1987	-	-	0	0

02179500 MATHIS RESERVOIR NEAR LAKEMONT, GA.

LOCATION.--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.

GAGE.--Nonrecording gage. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company.)

REMARKS.--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 Company.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1687.8	29800	-	-
Oct. 31.....	1674.5	20800	-9000	-146
Nov. 30.....	1673.4	20000	-800	-13
Dec. 31.....	1687.5	29600	+9600	+156
CAL YR 1986	-	-	-200	0
Jan. 31.....	1687.7	29700	+100	+2
Feb. 28.....	1688.4	30200	+500	+9
Mar. 31.....	1687.5	29600	-600	-10
Apr. 30.....	1688.6	30400	+800	+13
May 31.....	1687.5	29600	-800	-13
June 30.....	1687.8	29800	+200	+3
July 31.....	1688.0	29900	+100	+2
Aug. 31.....	1687.4	29500	-400	-7
Sept. 30.....	1687.7	29700	+200	+3
WTR YR 1987	-	-	-100	0

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

02187250 HARTWELL LAKE NEAR HARTWELL, GA.

LOCATION.--Lat 34°21'25", long 82°49'20", Hart County, Ga.--Anderson County, S.C., Hydrologic Unit 030060103, in right spillway elevator tower of dam on Savannah River, 1.9 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).

REMARKS.--Lake is formed by concrete dam with earth embankments at each end; storage began in February 1961, dam complete 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, 2,699,900 acre-ft, May 25, elevation, 662.62 ft; minimum, 1,872,100 acre-ft, Oct. 10, elevation, 646.26 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	647.31	1917800	-	-
Oct. 31.....	648.39	1965800	+48000	+781
Nov. 30.....	650.91	2081700	+115900	+1948
Dec. 31.....	652.63	2164200	+82500	+1342
CAL YR 1986	-	-	-254100	-351
Jan. 31.....	654.33	2248500	+84300	+1371
Feb. 28.....	657.07	2390000	+141500	+2548
Mar. 31.....	661.41	2629700	+239700	+3898
Apr. 30.....	662.09	2668900	+39200	+659
May 31.....	662.33	2682900	+14000	+228
June 30.....	661.78	2651000	-31900	-536
July 31.....	658.10	2445200	-205800	-3347
Aug. 31.....	655.60	2313200	-132000	-2147
Sept. 30.....	653.25	2194600	-118600	-1993
WTR YR 1987	-	-	+276800	+382

02189004 RICHARD B. RUSSELL RESERVIOR NEAR CALHOUN FALLS, S.C.

LOCATION.--Lat 34°01'30", long 82°35'42", Elbert County, Ga.--Abbeville County, S.C., Hydrologic Unit 03060103, in left spillway elevator tower of dam on Savannah River, 1.2 mi downstream from Beer Manor Creek, 4.6 mi south of Calhoun Falls, S.C., at river mile 275.1.

DRAINAGE AREA.--2,900 mi² (furnished by U.S. Army Corps of Engineers).

PERIOD OF RECORD.--May 1984 to current year.

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

REMARKS.--Lake is formed by concrete dam; storage began on October 5, 1983, dam completed in December 1983. Useable capacity, 126,800 acre-ft between elevations 470.0 ft, normal limit of drawdown, and 475.0 ft, top of spillway gates. Dead storage below 470.0 ft, 899,400 acre-ft. Elevation of spillway crest, 436.0 ft. Water is used for flood control, generation of power, and recreation. Capacity information furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,105,800 acre-ft, Dec. 21, 1985, elevation, 477.90 ft; minimum, 799,000 acre-ft, May 7, 1984, elevation, 465.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,067,100 acre-ft, Mar. 31, elevation, 476.51 ft; minimum, 896,200 acre-ft, Sept. 30, elevation, 469.87 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	470.75	917600	-	-
Oct. 31.....	471.77	942800	+25200	+410
Nov. 30.....	471.08	925700	-17100	-287
Dec. 31.....	470.96	922800	-2900	-47
CAL YR 1986	-	-	-73400	-101
Jan. 31.....	473.28	981200	+58400	+950
Feb. 28.....	474.06	1001400	+20200	+364
Mar. 31.....	476.19	1058300	+56900	+925
Apr. 30.....	474.69	1018000	-40300	-677
May 31.....	474.06	1001400	-16600	-270
June 30.....	474.26	1006700	+5300	+89
July 31.....	474.98	1025700	+19000	+309
Aug. 31.....	472.14	952100	-73600	-1197
Sept. 30.....	469.96	898400	-53700	-902
WTR YR 1987	-	-	-19200	-27

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN--Continued

02194500 CLARKS HILL RESERVIOR NEAR CLARKS HILL, S.C.

LOCATION.--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 west of Clarks Hill, S.C., 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.

REMARKS.--Lake is formed by concrete dam with earth at each end; storage began in December 1951, dam completed in 1952.

Use 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, 2,717,500 acre-ft, Mar. 3, elevation, 332.66 ft; minimum, 1,678,000 acre-ft, Oct. 25, 26, elevation, 316.50 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	317.82	1746600	-	-
Oct. 31.....	317.19	1713900	-32700	-532
Nov. 30.....	319.06	1811100	+97200	+1633
Dec. 31.....	323.90	2094000	+282900	+4601
CAL YR 1986	-	-	-336900	-465
Jan. 31.....	331.14	2598900	+504900	+8211
Feb. 28.....	330.76	2569300	-29600	-533
Mar. 31.....	330.42	2542800	-26500	-431
Apr. 30.....	330.09	2517000	-25800	-434
May 31.....	330.12	2519400	+2400	+39
June 30.....	330.44	2544300	+24900	+418
July 31.....	330.60	2556800	+12500	+203
Aug. 31.....	328.25	2387500	-169300	-2753
Sept. 30.....	324.13	2107800	-279700	-4701
WTR YR 1987	-	-	+361200	+499

OGEECHEE RIVER BASIN

81

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.--July to December 1903, water years 1979-80 (annual maximum), May 1980 to current year. Monthly discharges only for July to December 1903, published in WSP 1304.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above National Geodetic Vertical Datum of 1929 (from topographic map). August 16, 1978 to May 8, 1980, crest-stage gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--7 years, 94.2 ft³/s, 11.74 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,430 ft³/s, Mar. 13, 1980, gage height, 11.13 ft; minimum discharge, 9.5 ft³/s, July 15, 16, 1986.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 2	1000	928	8.19	Jan. 23	0330	1,690	9.23
Jan. 19	2300	*2,730	*10.43	Mar. 1	1830	1,390	8.85

Minimum discharge, 15 ft³/s, July 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	68	198	264	172	1210	308	63	29	44	17	39
2	22	57	189	792	172	867	229	60	28	56	25	41
3	21	44	150	371	208	383	201	57	28	105	37	31
4	21	39	110	213	185	273	210	53	30	93	40	27
5	20	36	85	281	159	226	186	60	35	66	30	29
6	19	35	72	265	179	207	167	64	36	53	24	35
7	18	35	66	182	315	191	155	60	30	87	31	52
8	18	35	63	151	373	250	146	57	28	85	34	41
9	19	36	65	133	253	306	139	52	26	49	33	34
10	49	35	121	125	196	249	134	48	24	39	27	30
11	58	33	137	120	173	206	127	46	23	33	23	25
12	45	33	143	110	163	181	123	49	23	29	22	24
13	39	41	154	105	155	176	117	85	25	27	22	26
14	45	40	113	105	145	164	119	90	218	24	20	32
15	53	39	91	106	141	154	176	86	292	23	19	34
16	40	41	82	118	217	149	189	76	182	21	21	25
17	33	65	77	177	278	141	148	63	221	20	21	22
18	29	88	85	236	206	139	126	54	174	19	21	21
19	28	63	94	1500	174	220	113	55	104	18	20	27
20	26	119	86	1700	155	258	106	58	103	17	20	99
21	25	228	79	531	148	194	99	76	87	16	19	73
22	24	142	75	800	172	167	93	70	92	16	18	42
23	24	77	88	1310	250	146	88	70	117	16	17	30
24	24	62	197	498	202	135	85	62	88	16	17	25
25	31	55	209	326	167	177	80	45	62	17	17	23
26	36	67	136	335	158	227	78	39	62	18	32	21
27	32	98	111	288	265	215	73	36	111	18	33	20
28	29	76	93	238	621	283	71	35	88	17	26	19
29	28	66	84	211	---	284	68	46	51	16	22	20
30	28	105	80	199	---	319	66	36	42	16	20	35
31	31	---	78	188	---	386	---	31	---	18	23	---
TOTAL	939	1958	3411	11978	6002	8483	4020	1782	2459	1092	751	1002
MEAN	30.3	65.3	110	386	214	274	134	57.5	82.0	35.2	24.2	33.4
MAX	58	228	299	1700	621	1210	308	90	292	105	40	99
MIN	18	33	63	105	141	135	66	31	23	16	17	19
CFSM	.28	.60	1.01	3.54	1.96	2.51	1.23	.53	.75	.32	.22	.31
IN.	.32	.67	1.16	4.09	2.05	2.90	1.37	.61	.84	.37	.26	.34
CAL YR 1986	TOTAL	22039	MEAN	60.4	MAX	308	MIN	10	CFSM	.55	IN	7.52
WTR YR 1987	TOTAL	43877	MEAN	120	MAX	1700	MIN	16	CFSM	1.10	IN	14.97

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 14...	0845	190	150	151	7.50	7.60	22.5	27.0	4.6	53
NOV 11...	1010	350	114	110	7.40	7.40	20.0	20.5	5.1	55
DEC 09...	0930	1580	77	78	6.70	6.60	10.5	18.0	6.8	60
JAN 20...	1105	4500	60	56	6.70	6.40	10.5	13.5	--	--
FEB 10...	1220	5600	54	55	6.90	6.70	9.5	11.5	9.1	79
MAR 10...	1045	11500	45	43	6.80	6.60	13.0	11.5	6.3	60
APR 14...	0925	4050	70	68	6.90	7.00	20.0	25.5	5.8	64
MAY 12...	0830	750	125	128	7.00	7.40	21.5	24.5	4.1	46
JUN 22...	1030	690	114	113	7.10	7.20	27.0	28.0	5.9	74
JUL 07...	0750	2250	75	75	6.90	6.80	26.5	26.0	4.1	51
AUG 11...	1505	315	168	170	7.40	7.60	31.5	33.0	4.8	66
SEP 08...	1100	670	125	138	7.10	7.20	21.0	30.0	4.1	46

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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)
OCT 14...	40	3.0	0.8	460	2.8	46	2	0.230	<0.020	0.120	5.8
NOV 11...	55	4.0	1.8	20	2.7	35	3	0.060	0.100	0.090	7.6
DEC 09...	110	5.0	1.2	130	5.8	15	<1	<0.020	0.070	0.050	15
JAN 20...	45	5.0	2.2	170	5.0	13	6	<0.020	0.040	0.040	11
FEB 10...	70	7.0	1.6	100	3.2	13	6	0.080	0.020	0.070	9.6
MAR 10...	110	10	0.6	65	3.1	10	<1	0.040	0.100	0.040	8.2
APR 14...	110	5.0	0.8	130	5.4	22	<1	0.070	0.070	0.070	11
MAY 12...	80	7.0	1.2	80	7.2	37	10	0.040	0.090	0.140	39
JUN 22...	60	5.0	1.0	50	4.2	27	<1	0.280	0.120	0.180	3.6
JUL 07...	100	3.0	1.3	130	5.1	21	<1	0.120	0.010	0.070	14
AUG 11...	25	2.0	1.3	<20	3.3	43	<1	0.260	0.050	0.120	8.9
SEP 08...	70	5.0	2.0	130	4.0	26	11	0.210	0.130	0.120	14

OGEECHEE RIVER BASIN

83

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 downstream from bridge on U.S. Highway 80, 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 above 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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--50 years, 2,328 ft³/s, 11.93 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft³/s, Mar. 19, 1980, gage height, 14.77 ft; minimum daily, 114 ft³/s, July 23 and 24, 1986.

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 greater than base discharge of 4,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 28	2100	*19,300	*12.87	Mar. 8	0200	17,000	12.43

Minimum daily discharge, 215 ft³/s, Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	369	1080	2740	13600	5900	6160	1920	897	2300	366	269
2	257	382	1180	2850	12200	6250	6100	1810	840	2220	318	300
3	256	404	1330	2960	11000	7300	5920	1690	761	2270	288	350
4	254	415	1450	3110	9720	9150	5690	1580	675	2300	281	455
5	248	417	1540	3550	8540	10800	5460	1540	675	2350	282	566
6	244	411	1610	3910	7630	13300	5270	1450	694	2440	272	913
7	241	403	1670	4310	7050	16000	5210	1340	614	2480	259	1070
8	242	406	1690	4890	6650	16700	5610	1230	531	2480	253	1070
9	255	416	1670	5380	6350	15600	6280	1150	473	2410	262	992
10	291	428	1650	5730	6180	14600	6380	1070	435	2240	284	915
11	314	443	1710	5970	6080	13800	6020	1000	408	2050	307	799
12	330	461	1940	6000	6070	12700	5590	944	384	1850	309	763
13	325	473	2160	6010	6190	11500	5200	914	365	1720	320	850
14	338	469	2290	6060	6400	10500	4820	908	370	1610	342	842
15	337	453	2480	6100	6590	9560	4560	929	424	1490	352	791
16	342	432	2660	6110	6780	8740	4190	924	422	1260	339	727
17	358	454	2790	6050	6740	7940	3820	1020	413	1010	316	693
18	377	477	2860	5860	6390	7160	3550	1090	391	835	295	674
19	400	474	2920	5690	6060	6630	3340	1120	397	698	277	652
20	422	492	2940	5550	5790	6150	3140	1140	419	577	262	619
21	441	559	2870	5450	5790	5880	2960	1150	468	485	253	607
22	455	631	2740	6010	6010	5900	2830	1090	564	425	245	592
23	462	715	2610	6640	6420	5860	2710	1040	721	380	237	566
24	469	785	2590	7770	6690	5630	2610	1050	852	349	232	560
25	480	846	2550	9520	6770	5380	2490	1110	942	330	228	549
26	488	865	2520	12000	6550	5360	2370	1180	1140	318	224	535
27	472	868	2540	16100	6240	5690	2260	1220	1350	307	224	523
28	433	894	2570	18700	5910	6510	2180	1190	1620	290	219	512
29	397	940	2580	19000	---	6570	2100	1090	1960	289	218	499
30	379	1000	2580	17600	---	6370	2020	1010	2260	288	215	477
31	366	---	2570	15500	---	6210	---	952	---	346	229	---
TOTAL	10941	16782	68340	233120	202390	275640	126840	36851	22465	40397	8508	19730
MEAN	353	559	2205	7520	7228	8892	4228	1189	749	1303	274	658
MAX	488	1000	2940	19000	13600	16700	6380	1920	2260	2480	366	1070
MIN	241	369	1080	2740	5790	5360	2020	908	365	288	215	269
CFSM	.13	.21	.83	2.84	2.73	3.36	1.60	.45	.28	.49	.10	.25
IN.	.15	.24	.96	3.27	2.84	3.87	1.78	.52	.32	.57	.12	.28
CAL YR 1986	TOTAL	477088	MEAN	1307	MAX	9040	MIN	114	CFSM	.49	IN	6.70
WTR YR 1987	TOTAL	1062004	MEAN	2910	MAX	19000	MIN	215	CFSM	1.10	IN	14.91

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 183 microsiemens Sept. 13, 1978; minimum, 23 microsiemens 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L AS CACO3)	ALKA- LITY LAB (MG/L AS CACO3)
NOV 17...	1330	460	115	114	7.50	7.50	15.5	8.7	88	43	36	36
JAN 06...	1400	3930	58	61	6.70	6.45	6.5	10.8	88	10	9.0	9.0
MAR 10...	1400	14500	43	45	6.80	6.75	13.5	8.0	77	11	9.0	11
MAY 13...	1330	914	115	119	7.20	7.80	21.5	6.1	69	41	34	36
JUL 13...	1300	1720	85	91	7.12	7.70	27.0	5.1	64	32	26	29
AUG 17...	1300	315	152	157	7.67	8.30	29.0	6.4	83	46	38	38

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 CACO3)	HARD- NESS NONCARB WH WAT TOT LAB 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)
NOV 17...	2.4	130	300	30	0	9.9	1.3	12	45	1	1.6
JAN 06...	6.4	220	320	16	7	4.7	1.1	4.4	35	0.5	1.4
MAR 10...	9.4	47	38	13	4	4.1	0.73	3.0	30	0.4	1.3
MAY 13...	4.0	32	120	32	0	10	1.8	10	39	0.8	1.6
JUL 13...	5.0	46	170	31	5	9.8	1.5	5.3	26	0.4	1.4
AUG 17...	1.3	30	23	33	0	11	1.4	18	53	1	1.5

DATE	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 CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
NOV 17...	2.2	12	8.7	<0.10	13	81	81	101	0.11
JAN 06...	3.2	12	7.0	<0.10	10	65	46	690	0.09
MAR 10...	2.8	11	4.4	<0.10	3.6	42	34	1640	0.06
MAY 13...	4.1	11	11	0.10	11	88	78	217	0.12
JUL 13...	3.9	11	6.1	<0.10	11	89	62	413	0.12
AUG 17...	1.6	19	9.4	0.10	9.8	99	94	84	0.13

OGEECHEE RIVER BASIN

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02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

		NITRO- GEN, NITRITE DIS- SOLVED (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)	
NOV 17...	DATE	<0.010	0.140	<0.010	<0.010	--	1.1	0.070	0.060	0.040	
JAN 06...		<0.010	<0.100	0.020	0.020	0.68	0.70	0.030	0.020	0.010	
MAR 10...		0.010	0.150	0.030	0.060	0.47	0.50	0.040	0.020	<0.010	
MAY 13...		0.030	0.420	0.210	0.070	0.39	0.60	0.090	0.060	0.060	
JUL 13...		<0.010	0.210	0.050	0.160	2.9	2.9	0.090	0.090	0.050	
AUG 17...		<0.010	0.390	0.020	0.040	0.88	0.90	0.090	0.090	0.060	
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 17...		30	<1	22	<0.5	<1	<1	<3	<1	600	<5
JAN 06...		230	<1	21	<0.5	<1	<1	<3	1	390	<5
MAY 13...		50	<1	30	<0.5	<1	<1	<3	<1	1200	<5
AUG 17...		20	<1	20	<0.5	<1	<1	<3	1	350	<5
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 17...		<4	29	0.2	<10	4	<1	<1	32	<6	34
JAN 06...		<4	28	2.6	<10	2	<1	<1	17	<6	29
MAY 13...		<4	89	0.1	<10	<1	<1	<1	38	<6	<3
AUG 17...		<4	71	<0.1	<10	1	<1	<1	40	<6	4
		DATE		TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM		
NOV 17...				1335	460	15.5	5	6.2	95		
JAN 06...				1405	3930	6.5	11	117	86		
MAR 10...				1405	14500	13.5	14	548	84		
MAY 13...				1335	914	21.5	14	35	82		
JUL 13...				1305	1720	27.0	17	79	70		
AUG 17...				1305	315	29.0	14	12	62		

OGEECHEE RIVER BASIN

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. Elevation of gage is 30 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--7 years, 162 ft³/s, 9.45 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,480 ft³/s, Nov. 24, 1985, gage height, 12.84 ft; zero flow was observed August 19, 1954.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	2000	961	8.73	Mar. 3	1900	1,360	9.46
Jan. 7	0100	1,710	9.98	Mar. 10	2100	1,430	9.57
Jan. 24	0800	*3,340	*11.52	Apr. 2	0500	1,200	9.19
Feb. 4	2200	990	8.68	July 4	2300	1,620	9.85
Feb. 25	0300	1,150	9.10				

Minimum daily discharge, 1.6 ft³/s, Aug. 26 and 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.0	105	325	538	780	1120	11	2.6	348	2.8	54
2	3.3	4.3	133	478	459	939	1180	9.1	2.5	240	2.7	44
3	3.0	4.4	188	782	430	1290	1040	7.2	2.2	545	2.5	73
4	2.8	4.2	198	963	412	1260	848	6.1	3.2	1450	2.3	161
5	2.7	4.0	187	1270	391	983	654	13	5.7	1520	2.1	182
6	2.5	3.9	166	1550	379	745	499	32	7.5	1170	4.5	366
7	2.4	3.9	146	1700	472	555	402	33	5.8	850	6.7	342
8	2.3	3.9	125	1500	673	668	330	35	3.8	567	5.8	260
9	3.2	4.0	105	1140	942	904	267	27	2.9	336	3.8	194
10	6.1	3.8	94	895	950	1360	233	19	2.5	226	4.0	133
11	9.2	3.5	150	754	819	1300	205	13	2.2	150	11	91
12	7.2	3.9	340	669	654	1030	168	9.7	2.4	96	5.9	105
13	6.2	3.3	629	663	497	826	132	15	2.3	84	4.5	282
14	5.5	3.1	904	611	410	646	109	51	5.6	68	3.4	368
15	5.0	3.0	905	534	330	496	121	70	49	55	2.9	310
16	4.4	3.2	811	508	321	411	156	96	51	47	2.7	218
17	3.7	13	667	680	473	341	116	102	47	31	2.5	190
18	3.4	35	497	976	757	284	103	77	74	20	2.2	153
19	2.8	28	382	1510	851	281	103	50	131	13	2.1	103
20	2.6	33	311	1720	747	316	103	36	77	8.5	2.0	86
21	2.5	73	278	1500	695	332	93	28	87	5.6	2.0	91
22	2.5	91	255	1630	703	291	80	21	142	4.1	2.3	119
23	2.4	90	249	2620	864	266	66	15	230	3.4	2.2	96
24	2.4	93	313	3220	1090	242	58	13	320	3.0	1.8	64
25	2.3	89	384	2420	1120	236	48	11	423	2.7	1.9	46
26	2.2	73	505	1730	1000	290	38	8.8	514	2.9	1.6	37
27	2.1	59	518	1390	854	348	30	7.0	659	2.7	1.7	29
28	1.9	52	444	1130	733	598	24	6.0	688	3.1	1.7	23
29	1.9	68	378	960	---	940	19	5.9	576	12	1.7	19
30	3.0	79	307	796	---	996	15	4.6	542	5.3	1.6	18
31	3.2	---	259	659	---	996	---	3.3	---	3.6	8.2	---
TOTAL	108.3	936.4	10933	37283	18564	20950	8360	835.7	4661.2	7872.9	103.1	4257
MEAN	3.49	31.2	353	1203	663	676	279	27.0	155	254	3.33	142
MAX	9.2	93	905	3220	1120	1360	1180	102	688	1520	11	368
MIN	1.9	3.0	94	325	321	236	15	3.3	2.2	2.7	1.6	18
CFSM	.02	.13	1.52	5.19	2.86	2.91	1.20	.12	.67	1.10	.01	.61
IN.	.02	.15	1.75	5.98	2.98	3.36	1.34	.13	.75	1.26	.02	.68

CAL YR 1986 TOTAL 54186.54 MEAN 148 MAX 3400 MIN .64 CFSM .64 IN 8.69
WTR YR 1987 TOTAL 114864.60 MEAN 315 MAX 3220 MIN 1.6 CFSM 1.36 IN 18.42

OGEECHEE RIVER BASIN

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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 above 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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--50 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 daily discharge 0.62 ft³/s, Nov. 8, 19, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Jan. 7	0300	3,180	11.64	Mar. 3	1900	4,980	12.94
Jan. 24	0600	*5,360	*13.15	Mar. 28	0600	2,380	10.73

Minimum daily discharge, 1.8 ft³/s, Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	6.7	443	1040	1690	2060	2210	121	13	356	60	20
2	2.6	8.7	521	1290	1530	3050	2180	108	11	356	44	37
3	3.7	15	590	1590	1420	4690	1910	96	9.8	477	69	60
4	3.2	16	615	1850	1370	4730	1660	83	17	594	41	90
5	2.7	18	607	2310	1310	4320	1500	72	75	483	29	81
6	2.4	22	577	2970	1290	3480	1370	72	217	422	23	211
7	2.1	30	533	3130	1370	2600	1230	58	190	494	20	329
8	1.8	32	471	2790	1460	2270	1090	51	116	616	18	340
9	2.2	29	422	2360	1580	2180	946	46	59	572	17	294
10	3.8	25	388	2050	1750	2180	845	45	35	431	15	228
11	3.5	21	454	1910	1750	2200	774	43	24	310	16	170
12	2.5	18	680	1780	1720	2070	695	45	18	215	38	139
13	3.6	16	958	1590	1690	1920	636	64	15	151	114	275
14	4.3	13	1120	1460	1550	1790	583	84	48	105	94	503
15	4.1	12	1090	1300	1340	1590	549	81	236	72	51	464
16	3.4	11	1050	1200	1220	1430	492	121	379	50	41	525
17	2.8	20	1040	1320	1250	1260	461	121	318	36	39	515
18	2.5	18	1040	1650	1310	1100	455	120	306	28	39	399
19	2.2	27	960	2240	1460	1040	454	115	201	22	29	300
20	2.3	44	850	2490	1650	997	438	123	193	18	22	248
21	2.4	91	786	2650	1650	1010	425	178	189	15	19	211
22	2.3	185	735	3280	1720	1100	404	162	164	13	17	173
23	2.2	197	690	4550	1940	1150	371	113	170	11	15	128
24	2.1	238	744	5270	1910	1120	328	93	136	11	12	110
25	2.0	329	861	4760	1950	1090	274	84	129	15	9.7	124
26	2.1	404	941	4510	1910	1220	224	65	372	21	8.3	124
27	2.5	362	974	4090	1730	1800	196	45	572	17	7.9	119
28	2.4	306	969	3280	1670	2330	177	32	645	16	7.9	111
29	2.5	324	968	2630	---	2010	156	24	471	54	6.8	97
30	3.2	360	1000	2200	---	1880	136	19	388	119	6.1	86
31	4.1	---	965	1890	---	1960	---	15	---	96	11	---
TOTAL	85.5	3198.4	24042	77430	44190	63627	23169	2499	5716.8	6196	939.7	6511
MEAN	2.76	107	776	2498	1578	2052	772	80.6	191	200	30.3	217
MAX	4.3	404	1120	5270	1950	4730	2210	178	645	616	114	525
MIN	1.8	6.7	388	1040	1220	997	136	15	9.8	11	6.1	20
CFSM	.005	.19	1.40	4.50	2.84	3.70	1.39	.15	.34	.36	.06	.39
IN.	.01	.21	1.61	5.19	2.96	4.26	1.55	.17	.38	.42	.06	.44
CAL YR 1986	TOTAL	125684.33	MEAN	344	MAX	4850	MIN	.70	CFSM	.62	IN	8.42
WTR YR 1987	TOTAL	257604.40	MEAN	706	MAX	5270	MIN	1.8	CFSM	1.27	IN	17.27

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
14...	1040	4.3	69	63	5.80	5.80	23.0	30.5	3.8	44
NOV										
11...	1135	21	68	66	5.40	5.40	21.0	26.0	3.9	43
DEC										
09...	1100	423	59	60	5.40	5.10	11.0	22.0	6.9	62
JAN										
20...	1245	2490	47	42	5.20	5.00	13.5	11.0	--	--
FEB										
12...	1300	1710	50	43	5.40	5.20	10.5	21.0	7.5	67
MAR										
12...	1100	2080	37	36	5.50	5.50	12.0	8.0	7.9	73
APR										
16...	1750	478	46	41	5.80	5.60	19.0	18.0	5.4	59
MAY										
12...	1000	40	53	46	5.40	5.80	20.0	24.0	2.3	25
JUN										
24...	1115	138	53	63	--	5.80	25.5	30.0	6.2	76
JUL										
07...	0915	477	53	45	5.70	--	26.5	28.0	5.4	67
AUG										
12...	1020	34	50	50	6.10	6.10	28.5	31.0	3.6	--
SEP										
10...	0600	248	55	53	5.60	5.00	24.0	21.0	6.9	82

DATE	COLOR (PLAT- INUM- COBAL UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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)
OCT											
14...	120	2.0	1.4	140	18	6.0	4	0.070	0.050	0.170	28
NOV											
11...	200	1.0	2.0	70	31	4.0	2	<0.020	0.090	0.040	31
DEC											
09...	110	3.0	1.7	50	23	3.0	2	<0.020	0.050	0.040	21
JAN											
20...	110	4.0	1.8	130	12	1.0	6	0.100	0.030	<0.020	15
FEB											
12...	95	3.0	1.2	130	23	3.0	6	0.100	0.050	<0.020	14
MAR											
12...	110	1.0	1.2	70	12	2.0	7	0.060	0.130	0.060	14
APR											
16...	200	4.0	--	--	12	4.0	5	<0.020	0.140	0.060	16
MAY											
12...	200	5.0	1.3	3300	39	5.0	7	0.130	0.130	0.210	24
JUN											
24...	--	3.0	0.1	4900	--	5.0	12	0.120	0.100	0.060	22
JUL											
07...	200	5.0	1.8	2300	116	30	4	0.090	0.050	0.040	21
AUG											
12...	110	5.0	0.8	230	7.7	5.0	2	0.070	0.080	0.080	13
SEP											
10...	180	4.0	0.7	230	29	6.0	5	0.090	0.230	0.120	32

OGEECHEE RIVER BASIN

89

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 Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
13...	0705	106	113	6.90	7.00	23.5	23.0	4.9	57
NOV									
13...	0900	118	118	6.90	7.00	21.5	16.0	5.8	65
DEC									
11...	0830	88	84	5.70	5.50	14.5	19.0	5.2	51
JAN									
29...	1000	--	46	5.10	4.50	9.5	11.5	10.6	--
FEB									
12...	1010	51	53	5.20	4.80	9.0	16.0	9.1	78
MAR									
12...	1020	41	39	5.10	5.00	12.0	6.5	7.8	72
APR									
16...	1245	51	46	5.70	5.60	20.0	18.0	3.7	41
MAY									
14...	0915	68	66	--	6.30	22.0	25.0	4.9	56
JUN									
24...	0845	60	61	--	6.00	26.0	27.0	5.2	64
JUL									
09...	0805	57	52	5.20	5.00	27.0	27.0	3.6	45
AUG									
13...	0845	78	79	6.70	6.90	30.0	29.0	4.3	57
SEP									
10...	0810	55	57	5.20	5.40	24.0	25.0	6.3	75

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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										
13...	100	3.0	1.8	<20	20	<1	1.33	0.070	0.540	13
NOV										
13...	110	2.0	1.5	50	20	--	0.450	0.070	0.480	13
DEC										
11...	120	1.0	0.6	490	4.0	1	<0.020	0.020	0.090	24
JAN										
29...	120	6.0	0.7	40	<1.0	--	0.120	<0.020	0.170	32
FEB										
12...	160	4.0	1.2	130	2.0	5	0.140	0.070	0.030	22
MAR										
12...	140	1.0	0.9	20	3.0	7	0.050	0.120	0.040	29
APR										
16...	200	16	--	--	4.0	2	<0.020	0.120	0.080	16
MAY										
14...	180	5.0	1.1	330	9.0	14	0.350	0.080	0.220	15
JUN										
24...	--	3.0	0.1	230	6.0	5	0.260	0.100	0.170	19
JUL										
09...	200	1.0	1.4	220	3.0	6	0.050	0.080	0.080	30
AUG										
13...	--	--	0.8	490	12	<1	0.530	0.050	0.270	12
SEP										
10...	160	12	1.7	1700	8.0	41	<0.020	0.150	0.140	32

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 Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 45,500 microsiemens Nov. 29, 1975; minimum recorded, 5,650 microsiemens 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 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
13...	0610	37000	36600	7.50	7.60	25.0	22.0	3.9	53
NOV									
13...	0630	28500	37800	7.60	7.60	23.0	17.0	5.0	64
DEC									
11...	0620	27900	32100	7.60	7.70	15.0	18.5	5.7	62
JAN									
29...	0810	17500	22600	7.70	7.50	8.5	10.0	10.2	92
FEB									
12...	0810	16800	21300	7.70	7.50	10.0	10.0	9.4	88
MAR									
12...	0655	--	23900	7.70	7.60	12.5	5.5	9.1	--
APR									
16...	1015	27500	23600	7.50	7.50	20.0	20.5	7.0	86
MAY									
14...	0805	30200	31600	--	7.50	23.5	24.0	6.3	82
JUN									
24...	0640	29500	33700	--	7.50	29.0	26.0	5.6	81
JUL									
09...	0650	--	36200	--	7.60	30.0	27.5	5.4	--
AUG									
13...	1200	43500	38200	7.60	7.70	30.5	29.5	5.5	86
SEP									
10...	1150	40500	30600	7.30	7.30	27.0	29.0	5.3	77

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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- 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)
OCT											
13...	15	8.0	2.6	50	110	17000	19	<0.020	0.250	0.120	6.4
NOV											
13...	20	10	3.5	40	114	16000	37	<0.020	0.320	0.090	8.5
DEC											
11...	20	8.0	0.9	20	103	14000	23	<0.020	0.210	0.080	7.2
JAN											
29...	60	19	1.6	<20	69	8100	72	<0.020	0.040	0.070	9.6
FEB											
12...	70	16	1.7	<20	20	8000	40	<0.020	0.130	0.080	12
MAR											
12...	45	6.0	0.9	<20	69	--	26	<0.020	0.180	0.050	7.4
APR											
16...	60	16	--	--	71	10000	51	<0.020	0.120	0.070	7.2
MAY											
14...	30	26	0.9	<20	80	--	19	0.020	0.070	0.070	15
JUN											
24...	--	14	0.5	<20	94	14000	82	0.020	0.240	0.150	9.9
JUL											
09...	10	13	2.2	<20	100	15000	54	<0.020	0.310	0.090	8.9
AUG											
13...	10	29	1.3	<20	104	18000	39	0.020	0.560	0.120	7.4
SEP											
10...	30	45	1.0	<20	92	13000	198	0.040	0.190	0.160	6.8

ALTAMAHA RIVER BASIN

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02203800 SOUTH RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at the 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.--Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
09...	0830	4.6	195	183	6.80	7.30	21.0	20.0	5.8	66
NOV										
06...	0900	9.8	205	194	7.10	7.10	18.0	21.0	6.6	71
DEC										
02...	1430	58	160	157	6.80	7.00	11.0	8.0	7.8	73
JAN										
06...	1400	34	190	188	7.00	6.90	5.0	15.0	10.6	84
FEB										
03...	1600	36	196	186	7.00	6.80	9.5	17.5	10.8	97
MAR										
03...	1515	41	178	178	7.00	7.00	10.5	23.0	10.2	93
APR										
06...	1200	51	192	196	7.00	7.10	10.5	15.0	8.0	74
MAY										
05...	1300	24	203	200	7.10	6.90	17.0	15.5	6.0	63
JUN										
03...	1300	14	206	204	7.30	7.30	25.0	35.0	5.2	64
JUL										
07...	1340	66	122	126	7.10	7.00	25.5	35.0	6.4	80
AUG										
04...	1215	15	--	192	7.00	7.20	25.0	32.0	5.1	--
SEP										
02...	1330	6.0	225	226	7.40	7.60	22.5	29.5	8.7	103

DATE	TUR- BID- ITY (NTU)	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)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
09...	8.0	2.4	3300	51	5	0.450	0.190	0.140	2.6
NOV									
06...	2.0	--	--	52	3	0.280	0.560	0.130	7.1
DEC									
02...	25	4.2	46000	38	28	0.750	0.390	0.140	5.4
JAN									
06...	9.0	3.8	17000	43	6	0.820	0.960	0.170	3.8
FEB									
03...	13	7.1	7900	49	8	0.560	0.750	0.370	22
MAR									
03...	19	2.4	--	40	13	1.10	0.360	0.180	2.8
APR									
06...	15	4.1	70000	41	14	0.620	0.570	0.170	3.8
MAY									
05...	5.0	3.6	79000	49	2	0.420	0.950	0.140	2.0
JUN									
03...	5.0	1.6	11000	54	<1	0.570	0.410	0.090	10
JUL									
07...	25	3.5	33000	30	23	0.380	0.130	0.070	41
AUG									
04...	10	8.0	79000	40	<1	0.430	0.070	0.220	7.6
SEP									
02...	5.0	2.5	2300	53	1	0.610	0.530	0.560	3.6

ALTAMAHA RIVER BASIN

02203965 SOUTH RIVER NEAR LITHONIA, GA.

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

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
09...	0900	495	481	7.40	7.90	21.0	20.0	8.1	93
NOV									
06...	0945	305	296	7.40	7.60	18.0	21.5	7.8	84
DEC									
02...	1500	150	143	7.00	7.20	9.0	9.0	8.2	73
JAN									
06...	1430	290	299	7.70	7.60	7.5	14.0	11.8	100
FEB									
03...	1515	200	190	7.20	7.00	11.5	17.5	11.0	103
MAR									
03...	1435	168	167	7.40	7.40	11.0	21.0	9.9	91
APR									
07...	1150	210	216	7.50	7.40	12.0	18.0	10.1	96
MAY									
06...	1300	250	257	7.60	7.50	17.5	26.0	8.8	94
JUN									
03...	1230	367	355	7.70	7.70	24.5	33.5	8.1	99
JUL									
09...	0845	167	165	7.20	7.20	24.0	28.0	6.9	83
AUG									
05...	1210	155	147	7.30	6.80	25.5	33.5	6.5	81
SEP									
03...	1425	410	413	8.20	8.20	24.0	30.5	10.2	124

DATE	TUR- BID- ITY (NTU)	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)	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									
09...	5.0	1.7	330	82	6	8.40	0.100	0.240	2.4
NOV									
06...	4.0	--	--	68	<1	4.46	0.060	0.140	4.9
DEC									
02...	32	2.1	110	38	37	1.03	0.490	0.210	3.7
JAN									
06...	30	8.4	2200	100	71	0.880	3.25	1.62	8.7
FEB									
03...	14	1.3	<20	47	8	1.12	0.710	0.290	4.7
MAR									
03...	19	1.7	--	46	13	1.56	0.110	0.220	2.6
APR									
07...	5.0	0.8	<20	52	<1	1.75	0.120	0.260	3.2
MAY									
06...	2.0	0.6	80	49	4	5.00	0.150	0.440	3.0
JUN									
03...	2.0	1.4	330	70	2	1.08	<0.020	0.090	4.5
JUL									
09...	120	4.5	130000	34	162	2.00	0.070	0.140	9.2
AUG									
05...	58	3.4	33000	9.0	80	1.22	0.230	0.160	13
SEP									
03...	5.0	1.0	110	89	13	7.80	0.110	0.350	3.7

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.

LOCATION.--Lat 33°37'47", long 84°07'43", DeKalb-Rockdale County line, Hydrologic Unit 03070103, at bridge on Klondike Road, 1.1 mi south of State Highway 212, 1.2 mi downstream from Pole Bridge Creek, 5.8 mi southwest of Lithonia, and 8.6 mi downstream from Snapfinger Creek.
DRAINAGE AREA.--182 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 660.90 ft above National Geodetic Vertical Datum of 1929 (levels from DeKalb County benchmark).

REMARKS.--Estimated daily discharges: Oct. 1-22. Records good, except those for period of no gage-height record, Oct. 1-22, which are fair. Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,650 ft³/s, Jan. 19, 1987, gage height, 9.83 ft; minimum daily discharge, 50 ft³/s, Sept. 26, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 30, 1963 reached a stage of 11.80 ft, discharge 9,630 ft³/s, revised.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	0845	*5,650	*9.83	Mar. 3	0645	4,810	9.35

Minimum daily discharge, 50 ft³/s, Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	106	1640	196	155	2850	322	140	170	243	303	59
2	160	110	598	186	186	600	271	157	118	322	114	62
3	84	108	329	155	188	391	643	144	126	268	168	56
4	80	103	246	155	142	311	408	142	544	381	236	53
5	74	107	211	155	136	270	282	152	146	360	616	52
6	64	112	187	147	131	253	252	143	124	233	169	69
7	64	103	176	147	915	237	226	140	111	527	381	79
8	64	107	171	145	244	565	224	138	107	171	155	113
9	64	102	163	147	168	624	210	128	103	340	270	237
10	600	109	234	168	145	352	199	127	102	140	117	104
11	200	108	847	163	142	280	195	130	97	126	112	74
12	120	200	406	142	139	270	195	194	127	115	105	74
13	1100	134	250	143	131	246	188	365	974	112	95	91
14	1000	105	204	144	125	226	191	372	882	107	84	83
15	230	152	196	153	124	216	215	330	227	106	79	71
16	140	148	183	154	265	210	193	173	1200	99	79	64
17	110	125	174	246	158	202	180	155	428	96	79	66
18	100	137	335	1410	132	345	174	139	227	93	75	63
19	92	109	211	3960	126	415	171	151	203	93	73	60
20	92	1470	174	517	120	243	168	392	156	91	69	77
21	88	645	164	265	117	219	164	231	196	93	75	65
22	88	218	156	1260	136	205	165	152	141	98	65	55
23	87	173	295	695	219	198	160	139	168	96	63	53
24	89	175	851	283	168	194	154	132	387	99	61	56
25	944	155	328	1120	185	236	148	127	376	92	61	52
26	1200	1360	230	954	325	208	149	123	410	322	64	50
27	218	461	202	309	1440	387	152	121	176	119	81	52
28	154	232	185	229	2530	937	152	116	134	147	65	53
29	131	197	178	193	---	288	143	115	123	97	58	52
30	121	1730	173	186	---	644	140	114	124	89	57	393
31	113	---	162	164	---	781	---	110	---	97	58	---
TOTAL	7781	9101	9859	14291	8992	13403	6434	5292	8407	5372	4087	2488
MEAN	251	303	318	461	321	432	214	171	280	173	132	82.9
MAX	1200	1730	1640	3960	2530	2850	643	392	1200	527	616	393
MIN	64	102	156	142	117	194	140	110	97	89	57	50
CFSM	1.38	1.67	1.75	2.53	1.76	2.37	1.18	.94	1.54	.95	.73	.46
IN.	1.59	1.86	2.02	2.92	1.84	2.74	1.32	1.08	1.72	1.10	.84	.51
CAL YR 1986	TOTAL	65366	MEAN 179	MAX 1730	MIN 54	CFSM .98	IN 13.36					
WTR YR 1987	TOTAL	95507	MEAN 262	MAX 3960	MIN 50	CFSM 1.44	IN 19.52					

ALTAMAHA RIVER BASIN

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1983 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1983 to current year.

DISSOLVED OXYGEN: November 1983 to current year.

INSTRUMENTATION.--Water-quality monitor. Water Temperature and Dissolved Oxygen recorded hourly.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 30.0°C July 19, 20, 21, 1986; minimum recorded, 0.5°C Jan. 21, 1985.

DISSOLVED OXYGEN: Maximum recorded, 12.4 mg/L Dec. 27, 1985; minimum recorded, 0.7 mg/L Mar. 13, 1986.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 29.0°C July 29, Aug. 10; minimum 4.5°C Jan. 22, 23.

DISSOLVED OXYGEN: Maximum, 12.1 mg/L Jan. 24; minimum, 1.7 mg/L Oct. 10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
09...	0930	66	430	413	7.40	7.60	21.0	20.0	6.8	78
NOV										
06...	1015	119	280	266	7.30	7.40	18.0	21.5	7.8	84
DEC										
02...	1600	483	122	119	7.00	7.10	11.0	9.5	10.0	93
JAN										
06...	1515	143	252	243	7.60	7.50	7.0	14.5	10.8	90
FEB										
03...	1430	157	196	188	7.10	7.10	11.0	17.5	9.4	87
MAR										
03...	1400	368	150	147	7.30	7.20	10.5	21.0	10.5	95
APR										
07...	1115	225	194	204	7.40	7.40	12.0	17.5	9.4	89
MAY										
06...	1230	137	250	253	7.40	7.30	17.5	26.0	8.5	90
JUN										
03...	1345	103	326	316	7.60	7.70	24.5	35.0	7.2	88
JUL										
09...	0945	307	127	121	7.10	7.00	24.0	28.5	6.0	72
AUG										
05...	1145	381	112	105	7.00	7.30	25.0	33.5	5.9	73
SEP										
03...	1345	53	380	383	7.80	7.90	23.0	30.0	9.2	109

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	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)
OCT										
09...	9.0	1.1	310	5.4	70	20	7.80	0.100	0.430	2.4
NOV										
06...	5.0	--	--	6.1	63	1	3.67	0.050	0.250	4.9
DEC										
02...	4.0	2.9	1100	5.4	28	100	1.03	0.370	0.210	5.8
JAN										
06...	6.0	2.1	20	3.8	79	6	1.00	2.80	0.600	3.8
FEB										
03...	17	0.8	1300	6.9	45	16	1.34	0.510	0.270	6.9
MAR										
03...	20	2.0	--	3.5	36	25	1.51	0.240	0.220	6.2
APR										
07...	7.0	2.2	70	3.7	48	4	1.70	0.080	0.290	4.1
MAY										
06...	3.0	1.3	110	3.9	50	1	4.10	0.130	0.260	5.4
JUN										
03...	6.0	1.0	330	3.3	68	11	1.06	0.040	0.240	3.2
JUL										
09...	180	4.0	13000	3.8	25	373	1.07	0.040	0.250	12
AUG										
05...	88	4.2	28000	6.4	33	103	1.02	0.190	0.220	15
SEP										
03...	11	1.2	170	2.3	76	20	5.70	0.120	0.880	6.6

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.2	6.0	---	---	9.8	8.9	10.4	9.9	10.7	10.0	10.4	9.5
2	7.3	5.5	---	---	9.7	9.5	10.6	10.0	10.3	9.6	10.0	9.6
3	7.7	5.3	---	---	9.7	9.4	11.1	10.6	9.9	9.0	10.3	9.8
4	7.9	5.4	8.1	7.6	10.1	9.7	11.0	10.5	9.6	9.1	10.2	9.9
5	8.1	5.5	8.0	7.5	10.2	9.9	10.8	10.3	9.7	9.5	10.3	9.9
6	8.5	5.5	8.1	7.4	10.3	10.1	10.9	10.4	9.9	9.5	10.4	9.9
7	9.3	6.0	8.0	7.3	10.6	10.2	10.7	9.9	9.7	8.4	10.2	9.8
8	9.8	6.3	8.0	7.1	10.4	9.7	10.1	9.6	9.5	9.2	9.9	9.2
9	7.8	6.3	7.9	6.8	9.7	9.0	10.1	9.6	9.9	9.2	9.6	9.3
10	7.3	1.7	8.3	6.8	9.1	8.1	9.6	8.9	10.4	9.9	9.7	9.2
11	7.3	5.9	7.9	7.4	9.5	8.2	9.6	9.2	10.1	9.7	10.1	9.7
12	7.9	7.4	8.2	7.5	9.5	8.9	10.2	9.6	9.8	9.1	10.5	10.2
13	8.2	5.0	8.6	7.5	---	---	10.0	9.4	9.5	9.1	10.6	9.8
14	7.3	4.9	9.9	8.6	---	---	9.8	9.2	9.6	9.2	10.3	9.6
15	8.0	7.4	10.1	9.6	---	---	9.4	8.9	9.5	9.2	9.6	8.7
16	8.5	8.0	9.5	8.3	---	---	9.1	8.3	9.5	8.7	9.4	8.2
17	8.9	8.3	8.3	7.5	---	---	9.2	8.3	10.1	9.5	9.6	9.1
18	9.0	8.3	8.0	7.2	9.2	7.6	10.6	9.3	10.2	10.0	9.9	8.7
19	9.0	8.3	8.1	7.2	9.6	8.5	10.5	9.7	10.3	10.1	9.8	9.0
20	9.2	8.4	8.7	6.2	9.7	9.3	10.7	10.2	10.5	10.1	9.8	9.4
21	9.2	8.5	8.2	7.1	9.8	9.5	11.1	10.9	10.1	9.8	9.8	9.1
22	9.2	8.5	7.4	6.9	9.9	9.7	12.0	11.1	9.9	9.6	9.7	9.1
23	9.3	8.4	8.6	7.1	10.7	10.0	11.9	11.3	10.1	9.8	9.6	9.0
24	9.0	8.2	7.7	7.3	10.6	10.1	12.1	11.2	10.3	9.7	9.2	8.9
25	8.3	6.3	7.4	6.9	10.2	9.7	11.5	10.8	10.2	10.1	9.3	8.8
26	7.4	6.4	7.7	7.0	9.9	9.7	11.2	10.9	10.5	10.1	9.0	8.5
27	7.5	7.1	8.7	7.8	10.0	9.7	11.5	11.3	10.7	10.2	8.8	7.0
28	---	---	8.8	8.6	10.2	9.3	11.4	11.0	10.8	10.4	7.7	6.6
29	---	---	8.9	8.6	10.3	10.0	11.2	10.6	---	---	8.0	6.8
30	---	---	9.2	8.7	10.5	10.1	10.6	9.9	---	---	8.2	7.0
31	---	---	---	---	10.6	10.3	10.8	9.9	---	---	8.9	7.6
MONTH	9.8	1.7	10.1	6.2	10.7	7.6	12.1	8.3	10.8	8.4	10.6	6.6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.6	8.9	7.9	7.2	7.3	6.1	7.1	6.2	6.5	3.9	9.5	6.0
2	9.3	8.7	7.9	7.0	7.1	6.1	6.9	5.4	6.6	5.8	9.6	6.3
3	9.3	8.4	7.4	6.9	7.1	6.2	6.9	5.4	6.5	5.8	9.9	6.2
4	9.8	9.3	7.8	7.1	6.0	5.3	6.8	4.9	6.2	5.9	10.1	6.1
5	9.5	8.7	7.9	7.1	6.9	6.2	7.2	6.5	6.1	4.8	7.7	5.7
6	9.4	8.6	8.4	7.6	7.3	6.6	7.2	6.7	6.4	6.1	8.6	6.5
7	9.1	8.7	7.9	7.6	7.4	6.5	7.0	4.9	6.6	4.2	8.7	6.5
8	9.3	8.6	8.2	7.4	7.2	6.2	6.7	6.4	6.6	6.2	7.7	6.2
9	9.0	8.3	8.4	7.5	7.4	6.3	6.8	5.6	6.6	5.9	6.9	6.5
10	8.8	8.2	8.5	7.6	7.1	6.2	6.7	6.4	6.5	6.1	6.8	6.2
11	8.7	8.1	8.1	7.6	7.6	6.3	6.8	6.3	6.7	6.1	7.4	6.3
12	8.6	7.2	8.1	7.1	7.5	6.5	6.8	6.2	6.8	6.3	7.4	6.3
13	8.7	8.0	7.4	5.0	7.1	4.9	7.1	6.3	6.9	6.4	7.3	6.5
14	8.5	7.9	7.4	6.8	7.1	5.8	7.3	6.4	7.3	6.4	7.7	6.5
15	8.4	7.9	7.5	6.8	7.1	7.0	7.8	6.4	7.7	6.4	8.0	6.5
16	8.9	8.2	7.4	7.0	7.2	5.1	8.4	6.7	8.1	6.5	8.3	6.4
17	9.2	8.5	7.3	6.8	7.3	6.7	8.3	6.8	8.4	6.2	8.4	6.4
18	9.5	8.6	7.4	6.8	7.3	7.1	8.6	6.7	8.9	6.3	---	---
19	9.6	8.4	7.3	6.7	7.4	7.1	8.7	6.6	9.0	6.3	---	---
20	9.7	8.3	6.9	4.0	7.2	7.0	9.0	6.6	9.3	6.2	---	---
21	9.2	8.0	7.1	6.5	7.3	7.1	9.5	6.5	9.5	6.3	8.8	6.6
22	9.3	7.0	7.2	6.8	7.2	7.0	9.8	6.4	9.9	6.4	9.3	7.1
23	9.0	7.5	7.4	6.8	7.3	6.9	10.3	6.2	9.8	6.1	9.3	7.3
24	9.0	7.3	7.3	6.8	7.1	5.0	11.0	5.9	10.1	6.1	9.5	7.4
25	9.3	7.2	7.4	6.7	7.0	5.0	11.6	5.8	9.8	6.2	9.1	7.5
26	9.2	6.3	7.4	6.6	6.8	5.9	6.4	5.1	9.0	6.0	8.9	7.4
27	8.9	6.3	7.5	6.6	7.0	6.6	7.2	5.7	9.4	6.0	9.3	7.4
28	8.6	7.3	7.5	6.6	7.3	6.8	6.5	6.0	9.4	5.9	9.1	7.4
29	8.7	7.5	7.8	6.5	7.4	6.8	7.2	6.0	9.0	5.8	9.0	7.1
30	8.6	7.3	8.0	6.6	7.4	6.8	7.7	5.9	9.3	5.8	7.5	5.4
31	---	---	8.2	6.5	---	---	8.4	6.1	8.5	5.8	---	---
MONTH	9.8	6.3	8.5	4.0	7.6	4.9	11.6	4.9	10.1	3.9	10.1	5.4
YEAR	12.1	1.7										

ALTAMAHA RIVER BASIN

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02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.

LOCATION.--Lat 33°29'04", long 83°57'29", Newton-Henry County line, Hydrologic Unit 03070103, at bridge on State Highway 81, 0.2 mi 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.--Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
09...	1015	49	330	317	7.20	7.60	21.0	20.0	6.6	75
NOV										
06...	1100	480	205	194	7.30	7.30	19.0	21.5	7.5	82
DEC										
04...	1100	720	95	95	7.00	7.10	9.0	9.0	10.0	87
JAN										
08...	1000	540	145	142	7.20	7.40	7.0	8.5	10.8	90
FEB										
03...	1140	730	120	115	7.10	7.00	9.0	17.0	10.4	91
MAR										
03...	1100	1250	72	73	6.90	7.00	8.5	16.5	11.0	95
APR										
07...	0900	690	105	109	6.90	7.10	11.0	13.0	9.3	86
MAY										
06...	0940	380	128	131	7.30	7.20	17.0	19.0	7.9	83
JUN										
03...	1530	310	173	164	7.30	7.30	25.0	33.5	7.0	86
JUL										
09...	1215	420	123	115	7.20	7.20	26.0	36.0	6.3	78
AUG										
05...	0930	360	175	165	7.20	7.40	26.0	27.5	5.7	72
SEP										
03...	1250	60	320	320	7.60	7.70	26.0	30.0	7.7	97

DATE	TUR- BID- ITY (NTU)	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)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT								
09...	22	10	1.0	170	55	39	4.03	0.090
NOV								
06...	7.0	8	--	--	44	2	2.36	<0.020
DEC								
04...	31	10	2.3	330	19	42	0.690	0.270
JAN								
08...	8.0	10	2.1	130	42	2	0.960	0.610
FEB								
03...	24	7	7.0	4300	28	28	0.990	0.200
MAR								
03...	40	11	2.0	--	15	48	0.680	0.060
APR								
07...	14	9	1.8	330	26	13	0.850	0.050
MAY								
06...	9.0	9	1.4	4900	29	13	1.39	0.030
JUN								
03...	21	9	2.0	220	38	17	1.21	<0.020
JUL								
09...	68	14	0.9	2300	25	93	0.880	0.070
AUG								
05...	25	8	1.7	1300	36	37	1.21	0.190
SEP								
03...	17	5	0.9	150	60	25	2.22	0.110

ALTAMAHA RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
09...	0.31	0.40	4.4	0.280	2.2
NOV					
06...	--	0.40	2.8	0.180	11
DEC					
04...	0.03	0.30	0.99	0.160	3.4
JAN					
08...	0.09	0.70	1.7	0.230	2.5
FEB					
03...	0.10	0.30	1.3	0.200	3.0
MAR					
03...	0.14	0.20	0.88	0.160	2.4
APR					
07...	0.35	0.40	1.2	0.150	2.4
MAY					
06...	0.17	0.20	1.6	0.200	2.8
JUN					
03...	--	0.40	1.6	0.170	1.8
JUL					
09...	--	--	--	0.180	0.2
AUG					
05...	0.21	0.40	1.6	0.200	10
SEP					
03...	0.39	0.50	2.7	0.410	4.3

ALTAMAHA RIVER BASIN

99

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.

LOCATION.--Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, at McDaniels Bridge on Killian Hill Road, 3.2 mi west of Snellville, 4 mi downstream from Sweetwater Creek 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 04...	0900	290	106	104	7.00	6.90	11.0	10.0	9.8	90
FEB 03...	0945	255	98	95	6.80	6.70	11.0	10.0	10.8	101
MAY 06...	0800	122	152	155	7.10	7.30	16.5	19.0	8.6	90
AUG 05...	0745	290	114	107	6.90	7.10	24.5	24.5	6.2	77

DATE	TUR- BID- ITY (NTU)	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)
DEC 04...	49	2.0	140	20	1.12	0.230	0.090	17
FEB 03...	36	1.4	80	25	0.670	0.240	0.040	2.8
MAY 06...	10	0.9	490	35	2.00	0.080	0.080	2.8
AUG 05...	150	4.1	33000	22	1.03	0.220	0.210	14

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.--236 mi², approximately.

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

REVISED RECORDS.--WDR GA-84-1: Drainage Area.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
09...	1345	89	220	211	7.30	7.50	21.0	22.0	6.6	75
NOV										
06...	1400	46	148	142	7.10	7.20	18.0	25.5	7.4	80
DEC										
04...	1000	270	82	81	6.90	6.80	9.0	7.0	10.8	94
JAN										
08...	0845	245	114	110	7.10	7.10	6.0	6.0	11.6	95
FEB										
03...	1045	310	92	88	7.10	6.90	9.0	15.0	10.6	94
MAR										
03...	1030	660	62	59	6.80	6.80	8.5	16.0	11.2	97
APR										
07...	0800	360	92	94	7.10	7.10	10.5	10.0	9.5	87
MAY										
06...	0900	210	112	115	7.20	7.20	17.0	18.5	7.5	79
JUN										
03...	1430	112	146	147	7.50	7.50	24.5	35.0	7.8	95
JUL										
09...	1130	135	141	130	7.30	7.30	26.0	31.5	6.3	79
AUG										
05...	0840	230	150	139	7.00	7.30	25.0	26.5	6.0	75
SEP										
03...	0815	56	260	255	7.30	7.40	22.0	18.0	6.3	74

DATE	TUR- BID- ITY (NTU)	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								
09...	19	0.9	490	45	2.49	0.070	0.050	2.2
NOV								
06...	10	--	--	35	1.68	0.060	0.180	6.5
DEC								
04...	36	1.8	1700	18	0.840	0.210	0.050	3.4
JAN								
08...	10	1.0	50	26	1.22	0.170	0.040	2.2
FEB								
03...	22	1.0	490	20	0.750	0.130	0.040	3.3
MAR								
03...	70	1.3	--	15	0.620	0.110	0.050	1.9
APR								
07...	13	0.6	130	22	1.00	0.050	0.030	1.9
MAY								
06...	11	1.4	510	28	1.05	0.100	0.050	2.8
JUN								
03...	12	0.9	230	32	1.27	<0.020	0.040	2.8
JUL								
09...	34	1.1	330	30	1.13	0.060	0.030	4.4
AUG								
05...	27	2.1	4900	27	1.34	0.140	0.040	13
SEP								
03...	25	1.2	230	41	2.08	0.120	0.100	4.6

ALTAMAHA RIVER BASIN

101

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 northwest 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
09...	1100	17	165	159	7.50	7.50	21.0	23.0	7.0	80
NOV										
06...	1130	250	108	100	7.30	7.10	18.0	22.0	8.1	87
DEC										
04...	1130	1700	64	63	7.00	6.70	9.5	9.0	11.2	99
JAN										
08...	1045	430	86	83	7.30	7.10	6.0	8.5	12.2	99
FEB										
03...	1215	860	72	69	7.20	6.80	9.0	17.0	10.6	93
MAR										
03...	1145	4500	47	45	6.70	6.60	9.5	17.0	11.0	97
APR										
07...	0930	750	72	72	7.00	7.10	11.0	13.0	9.9	91
MAY										
06...	1015	600	86	88	7.10	7.00	17.5	19.5	7.8	83
JUN										
03...	1545	280	116	110	7.30	7.40	26.5	30.5	6.9	87
JUL										
09...	1245	380	102	95	7.30	7.20	26.5	36.0	6.9	86
AUG										
05...	0950	425	120	111	7.20	7.40	25.0	28.0	6.4	79
SEP										
03...	1215	25	170	168	7.40	7.50	25.0	30.0	7.4	91

DATE	TUR- BID- ITY (NTU)	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)
OCT									
09...	6.0	1.0	260	39	12	1.21	0.030	0.060	1.5
NOV									
06...	10	--	--	27	5	0.800	<0.020	0.050	4.3
DEC									
04...	40	2.1	14000	12	50	0.560	0.250	0.060	4.0
JAN									
08...	9.0	1.4	130	22	6	0.860	0.080	0.030	3.9
FEB									
03...	18	1.7	640	16	16	0.560	0.080	0.060	2.8
MAR									
03...	65	0.9	--	10	45	0.380	<0.020	0.040	4.7
APR									
07...	14	0.7	230	17	13	0.680	0.060	0.030	1.8
MAY									
06...	11	1.0	1700	22	21	0.790	0.100	0.060	3.8
JUN									
03...	9.0	0.8	80	28	9	0.390	<0.020	0.040	1.7
JUL									
09...	18	0.7	3100	23	30	0.780	0.040	0.050	3.6
AUG									
05...	46	2.0	790	23	100	1.02	0.050	0.070	9.3
SEP									
03...	10	0.9	490	36	--	0.890	0.080	0.090	2.6

ALTAMAHA RIVER BASIN

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.

LOCATION (REVISED).--Lat 33°38'24", Long 83°46'45", Newton County, Hydrologic Unit 03070103, at bridge on Alcovy Road, 400 ft downstream from city of Covington water works intake structure, 200 ft downstream from Strouds Creek, 200 ft upstream from Georgia Railroad bridge, and 6 mi northeast of Covington.

DRAINAGE AREA.--185 mi², approximately, includes that of Strouds Creek.

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

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Prior to Oct. 1986, at site 400 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Discharge affected by diversions of irrigation and by the city of Covington.

AVERAGE DISCHARGE.--15 years, 249 ft³/s, 18.28 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,530 ft³/s, Mar. 16, 1976, gage height, 14.79 ft; minimum daily discharge, 0.56 ft³/s, July 21-22, 1986, but may have been less during a period of extensive diversion, June 19 through Sept. 12, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Jan. 20	1900	*2,570	*10.52	Mar. 2	1200	1,970	9.96
Minimum daily discharge, 4.1 ft ³ /s, Sept. 5.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	196	922	204	303	1540	531	111	66	53	28	5.8
2	15	197	1060	200	294	1910	445	109	67	58	23	4.9
3	15	158	901	190	304	1240	360	113	68	58	22	5.2
4	13	123	666	177	292	698	353	122	62	83	42	4.5
5	12	101	457	169	262	489	337	120	65	117	64	4.1
6	10	94	327	160	242	398	296	112	62	90	75	4.9
7	9.4	93	267	161	339	346	267	109	56	101	68	7.8
8	7.7	97	232	152	454	377	251	105	50	87	59	14
9	7.0	93	212	148	439	458	238	99	46	69	60	32
10	11	89	203	148	344	483	227	93	43	58	76	34
11	16	84	239	149	285	431	217	93	41	52	63	21
12	20	87	292	147	262	356	210	109	40	47	45	20
13	33	92	311	137	243	321	204	133	52	43	38	21
14	189	95	265	133	229	300	201	131	98	37	30	21
15	208	98	225	138	220	278	207	132	110	34	25	18
16	194	106	203	145	229	263	230	138	97	31	24	14
17	102	111	191	163	233	251	209	123	109	29	23	12
18	68	108	204	226	236	254	193	111	115	28	21	11
19	54	100	215	576	222	284	184	102	96	26	19	11
20	47	181	206	1870	209	299	177	106	86	24	19	13
21	43	371	182	1590	200	276	169	129	94	22	16	13
22	40	402	168	918	202	247	162	142	124	18	13	11
23	36	342	172	885	227	229	156	117	107	15	11	8.7
24	34	225	358	753	231	218	145	103	87	15	9.4	7.0
25	59	176	558	633	211	237	138	94	108	17	8.6	6.3
26	162	215	560	709	211	247	131	85	114	21	10	5.5
27	325	296	424	746	315	283	128	79	114	26	9.1	5.3
28	481	473	305	704	668	418	125	76	85	33	8.7	6.3
29	297	596	256	494	---	347	121	72	68	25	7.3	4.9
30	148	493	227	388	---	336	116	70	58	27	6.9	5.9
31	111	---	207	337	---	511	---	67	---	22	6.1	---
TOTAL	2784.1	5892	11015	13550	7906	14325	6728	3305	2388	1366	930.1	353.1
MEAN	89.8	196	355	437	282	462	224	107	79.6	44.1	30.0	11.8
MAX	481	596	1060	1870	668	1910	531	142	124	117	76	34
MIN	7.0	84	168	133	200	218	116	67	40	15	6.1	4.1
CFSM	.49	1.06	1.92	2.36	1.52	2.50	1.21	.58	.43	.24	.16	.06
IN.	.56	1.18	2.21	2.72	1.59	2.88	1.35	.66	.48	.27	.19	.07
CAL YR 1986	TOTAL	41199.92	MEAN	113	MAX	1060	MIN	.56	CFSM	.61	IN	8.28
WTR YR 1987	TOTAL	70542.30	MEAN	193	MAX	1910	MIN	4.1	CFSM	1.04	IN	14.18

ALTAMAHA RIVER BASIN

103

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 Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
09...	1145	74	71	7.30	7.40	22.0	23.5	6.9	80
NOV									
06...	1215	60	61	7.00	6.90	17.5	24.0	8.6	91
DEC									
04...	1215	42	42	6.90	--	9.0	10.0	11.2	97
JAN									
08...	1115	46	46	7.20	7.00	5.5	9.0	12.7	102
FEB									
03...	1245	44	40	6.90	6.40	8.5	17.0	10.3	90
MAR									
03...	1200	33	32	6.70	6.50	9.5	18.0	9.4	83
APR									
07...	1000	46	42	7.00	6.90	11.0	15.0	10.3	95
MAY									
06...	1045	54	53	7.20	7.20	18.5	20.0	8.6	93
JUN									
03...	1615	68	58	7.20	7.30	25.0	30.5	7.2	88
JUL									
09...	1315	68	61	7.60	7.20	26.0	36.5	7.9	98
AUG									
05...	1030	62	57	7.30	7.50	27.0	29.5	7.0	90
SEP									
03...	0955	69	66	7.20	7.30	24.5	27.0	7.1	86

DATE	TUR- BID- ITY (NTU)	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)
OCT									
09...	10	1.1	40	26	4	0.280	0.060	0.030	5.3
NOV									
06...	7.0	--	--	16	<1	0.090	0.050	0.030	5.6
DEC									
04...	25	1.7	490	7.0	36	0.320	0.180	0.060	5.2
JAN									
08...	5.0	1.2	230	14	2	0.430	0.100	0.040	2.5
FEB									
03...	10	1.2	<20	11	5	0.290	0.030	0.030	2.9
MAR									
03...	49	1.3	--	6.0	40	0.250	0.040	0.050	3.6
APR									
07...	6.0	0.7	35	12	<1	0.210	0.020	0.030	3.0
MAY									
06...	5.0	1.4	80	18	1	0.310	0.060	0.070	4.7
JUN									
03...	7.0	0.7	20	21	2	0.330	<0.020	0.030	2.6
JUL									
09...	12	0.8	110	19	10	0.350	0.020	0.050	4.0
AUG									
05...	8.0	1.5	700	20	26	0.210	0.040	<0.020	9.5
SEP									
03...	10	0.9	50	23	12	0.180	0.070	0.060	3.3

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
09...	1245	650	135	126	7.30	7.50	26.0	25.0	5.7	71
NOV										
06...	1300	440	114	108	6.90	6.90	21.0	24.0	6.6	75
DEC										
04...	1300	900	66	74	6.90	6.90	10.0	14.0	9.6	85
JAN										
08...	1230	2570	74	72	7.00	6.90	9.0	10.5	10.0	87
FEB										
03...	1315	2880	58	56	6.90	6.70	9.5	20.0	10.2	91
MAR										
03...	1245	2550	52	50	7.00	7.00	9.5	19.0	10.4	91
APR										
07...	1030	2950	64	66	6.90	7.00	13.0	19.0	7.0	67
MAY										
06...	1130	660	80	80	6.90	7.20	19.0	25.0	4.4	48
JUN										
03...	1645	640	96	87	6.80	6.70	23.5	28.0	3.3	39
JUL										
09...	1400	2770	107	97	7.00	7.00	26.5	36.5	2.6	32
AUG										
05...	1100	435	110	100	6.90	7.20	27.5	32.0	1.5	19
SEP										
03...	1050	427	115	110	6.90	7.10	28.0	28.5	2.9	37

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY 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)
OCT									
09...	10	2.4	20	32	23	0.360	0.120	0.030	5.3
NOV									
06...	5.0	--	--	26	<1	0.640	0.130	0.040	4.9
DEC									
04...	54	2.0	11000	16	37	0.420	0.340	0.130	4.6
JAN									
08...	15	1.2	<20	18	11	0.610	0.200	0.050	2.7
FEB									
03...	42	1.6	50	12	31	0.430	0.100	0.100	3.7
MAR									
03...	70	1.6	--	10	52	0.400	0.340	0.110	2.6
APR									
07...	16	0.9	170	16	5	0.440	0.070	0.050	2.8
MAY									
06...	1.0	0.9	50	22	5	0.400	0.170	0.050	2.6
JUN									
03...	1.0	1.0	20	21	<1	0.600	<0.020	0.030	1.9
JUL									
09...	5.0	0.6	<20	25	3	0.440	0.120	0.040	3.9
AUG									
05...	<1.0	1.7	20	30	11	0.210	0.160	<0.020	5.8
SEP									
03...	3.0	1.1	<20	31	7	0.100	0.240	0.040	3.5

ALTAMAHA RIVER BASIN

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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. WDR GA-80-1: 1920(M), 1975(M).

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

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--18 years (water years 1917-21, 1975-87), 2,479 ft³/s, 17.18 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 153 ft³/s, Sept. 14, 1987.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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. 22	2130	14,200	13.52	Mar. 2	1130	*18,300	*15.71

Minimum daily discharge, 153 ft³/s, Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	342	1040	6450	2270	3470	11700	6420	1210	778	1200	581	528		
2	343	962	7530	2050	3120	17600	4870	1250	753	1240	569	522		
3	337	929	8490	1530	3190	12800	4260	1450	666	1190	624	520		
4	411	1280	7080	2060	3170	6560	4220	1400	637	1240	702	514		
5	274	1220	5050	1520	3090	6020	3850	1560	764	1570	630	518		
6	304	892	2240	1750	3170	4280	2800	1520	900	1440	691	543		
7	336	861	2500	1380	5450	4050	2130	2040	732	2000	1120	584		
8	307	874	3320	1360	4930	4210	1960	1340	1000	1880	962	588		
9	327	659	3320	1370	4100	4630	2480	1200	927	1710	1080	592		
10	431	904	3340	1200	3740	4360	2870	1090	835	1340	959	581		
11	271	937	3350	1240	3650	4110	1900	1260	652	1030	1020	565		
12	352	976	2850	1640	3600	4010	1930	1470	854	817	843	502		
13	406	709	3420	1510	3510	3910	1740	1680	886	711	869	220		
14	535	937	3410	964	1960	3810	2370	1420	1910	770	753	153		
15	506	713	3290	1470	2480	3700	2570	2670	3190	781	585	370		
16	498	703	2200	1590	2920	3220	2440	1730	1610	672	581	411		
17	373	752	1830	1490	2940	2400	1720	1580	2470	686	565	441		
18	458	756	1790	3060	2200	2680	1360	2050	2610	648	571	371		
19	397	926	1770	5370	1970	4170	1160	1600	2100	604	568	333		
20	308	2340	1570	4730	1770	3540	1760	1420	1260	548	564	439		
21	464	3430	1540	5440	1510	2200	1360	1740	1920	552	557	351		
22	270	3060	1960	10200	2110	2240	1670	1270	2570	552	552	375		
23	355	2830	2450	12800	2810	2320	2330	1420	1560	552	544	342		
24	356	2480	4480	9330	2480	1960	1550	1220	1340	551	539	355		
25	518	2310	4370	5220	2330	2650	1270	1130	2290	551	531	325		
26	515	2380	3910	7560	2770	2620	969	1240	2730	557	523	244		
27	1460	3520	3690	9200	5850	2750	1360	1080	2470	568	521	342		
28	2840	3640	2540	7020	8540	4810	1630	965	1470	555	521	372		
29	2720	3480	2370	4220	---	5740	1140	805	1280	571	405	325		
30	1590	5440	1830	4070	---	5270	1220	799	1210	584	552	250		
31	1380	---	1440	3930	---	8140	---	800	---	571	540	---		
TOTAL	19984	51940	105380	118544	92830	152460	69309	43409	44374	28241	20622	12576		
MEAN	645	1731	3399	3824	3315	4918	2310	1400	1479	911	665	419		
MAX	2840	5440	8490	12800	8540	17600	6420	2670	3190	2000	1120	592		
MIN	270	659	1440	964	1510	1960	969	799	637	548	405	153		
CAL YR 1986	TOTAL	426143	MEAN	1168	MAX	8490	MIN	270	MEAN†	1169	CFSM†	.60	INT†	8.10
WTR YR 1987	TOTAL	759669	MEAN	2081	MAX	17600	MIN	153	MEAN†	2091	CFSM†	1.07	INT†	14.49

†ADJUSTED FOR CHANGE 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. Elevation of gage is 370 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--23 years, 63.5 ft³/s, 11.94 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,700 ft³/s, Mar. 2, 1971, gage height, 23.0 ft, from floodmark; minimum daily discharge, 0.03 ft³/s, Aug. 5-9, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Jan. 22	1900	1,170	10.34	Mar. 31	0900	1,170	10.36
Mar. 1	1030	*1,320	*11.10				

Minimum daily discharge, 0.18 ft³/s, Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66	3.1	764	363	50	1100	221	13	4.7	22	2.2	.23
2	.65	4.5	349	270	52	281	125	15	4.5	16	1.4	.23
3	.60	4.7	163	114	57	145	106	16	4.2	13	1.3	.24
4	.56	5.1	98	83	50	103	109	14	4.2	19	1.2	.18
5	.50	4.7	65	82	43	80	81	14	4.6	69	1.0	.23
6	.44	4.1	48	67	49	67	67	14	4.1	40	1.2	.64
7	.36	3.8	39	56	715	59	59	13	3.6	127	6.3	1.0
8	.31	3.4	34	49	256	81	54	13	3.1	58	6.1	1.1
9	.79	3.5	31	44	123	106	50	11	2.9	36	4.2	.76
10	3.9	3.5	38	43	84	84	46	10	2.8	25	2.7	.62
11	2.8	4.2	40	42	69	66	42	12	2.7	19	2.0	.64
12	2.4	5.1	49	39	60	59	40	22	2.7	13	1.7	2.4
13	4.5	5.1	70	36	53	58	38	17	3.3	10	1.5	4.0
14	75	4.3	51	33	49	52	37	15	13	12	1.6	2.4
15	32	4.1	40	35	45	47	38	16	18	10	1.1	1.6
16	12	6.2	34	38	57	43	35	19	18	6.6	.90	1.1
17	6.4	14	30	74	57	40	33	14	19	5.4	.73	.92
18	4.4	19	36	249	49	47	32	12	13	4.9	.73	.76
19	3.3	13	38	530	44	307	30	10	10	4.5	.66	.66
20	2.8	146	32	188	40	208	28	9.8	15	4.1	.70	.62
21	2.7	199	27	109	39	111	26	9.3	59	5.0	.54	.59
22	2.7	76	24	829	67	78	24	8.9	36	4.7	.45	.52
23	2.6	44	42	482	165	62	22	8.5	31	3.4	.43	.41
24	2.4	32	344	160	96	54	21	7.8	22	2.9	.32	.35
25	3.9	28	188	218	69	77	19	7.0	544	2.6	.25	.30
26	13	34	98	349	102	81	18	6.5	217	2.3	.22	.27
27	11	44	67	143	728	99	18	6.0	80	2.0	.27	.24
28	6.1	41	52	97	941	276	18	6.3	39	1.8	.33	.22
29	4.4	51	43	75	---	133	16	6.2	26	2.6	.28	.21
30	3.5	548	38	65	---	245	14	5.6	21	3.0	.23	.44
31	2.9	---	34	57	---	896	---	5.1	---	4.2	.26	---
TOTAL	209.57	1358.4	3066	5019	4209	5145	1467	357.0	1228.4	549.0	42.80	23.88
MEAN	6.76	45.3	97.0	162	150	166	48.9	11.5	40.9	17.7	1.38	.80
MAX	75	548	764	829	941	1100	221	22	544	127	6.3	4.0
MIN	.31	3.1	24	33	39	40	14	5.1	2.7	1.8	.22	.18
CFSM	.09	.63	1.34	2.24	2.08	2.30	.68	.16	.57	.25	.02	.01
IN.	.11	.70	1.55	2.59	2.17	2.65	.76	.18	.63	.28	.02	.01
CAL YR 1986	TOTAL	11860.09	MEAN 32.5	MAX 1030	MIN .03	CFSM .45	IN 6.11					
WTR YR 1987	TOTAL	22615.05	MEAN 62.0	MAX 1100	MIN .18	CFSM .86	IN 11.65					

ALTAMAHA RIVER BASIN

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02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: August 1965 to 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	BICAR- BONATE (PER- CENT MG/L AS HCO3)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L CACO3)	ALKA- LITY LAB (MG/L AS CACO3)
NOV 17...	0730	11	180	182	7.50	7.40	13.5	8.7	85	72	59	59
JAN 06...	0830	64	76	84	7.30	7.11	4.0	12.3	95	28	23	--
MAY 13...	0730	18	132	140	7.50	7.80	19.0	7.9	87	70	57	34
AUG 17...	0700	0.73	162	168	7.77	8.40	22.5	6.8	79	87	71	72

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 CACO3)	HARD- NESS NONCARB WH WAT TOT LAB 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)
NOV 17...	7.3	1200	--	30	0	9.9	1.3	12	44	1	2.8
JAN 06...	25	130	350	26	3	5.6	2.9	5.4	30	0.5	0.90
MAY 13...	16	330	1100	31	0	9.5	1.8	14	47	1	2.1
AUG 17...	3.3	200	1100	61	0	14	6.4	11	27	0.6	1.9

DATE	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)
NOV 17...	3.6	21	6.1	1.6	13	115	100	3.4	0.16
JAN 06...	2.2	11	3.2	0.30	17	66	61	11	0.09
MAY 13...	3.5	15	12	0.10	11	95	100	4.6	0.13
AUG 17...	2.3	6.3	4.3	1.0	23	89	110	0.18	0.12

DATE	NITRO- GEN, NITRITE DIS- SOLVED (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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 17...	<0.010	2.80	<0.010	<0.010	--	1.3	0.030	0.030	0.010
JAN 06...	<0.010	0.390	0.020	0.020	0.48	0.50	0.020	<0.010	<0.010
MAY 13...	0.030	0.610	0.200	0.080	0.50	0.70	0.070	0.030	0.040
AUG 17...	<0.010	<0.100	0.030	0.040	0.47	0.50	0.020	0.010	<0.010

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 17...	170	<1	22	<0.5	<1	<1	<3	<1	600	<5
JAN 06...	160	<1	26	<0.5	1	<1	<3	1	280	<5
MAY 13...	60	<1	30	<0.5	<1	<1	<3	2	360	<5
AUG 17...	20	<1	27	<0.5	<1	<1	<3	1	330	<5

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 17...	<4	29	3.9	<10	4	<1	<1	32	<6	34
JAN 06...	<4	96	0.2	<10	2	<1	<1	47	<6	25
MAY 13...	<4	24	<0.1	<10	<1	<1	<1	44	<6	8
AUG 17...	<4	430	<0.1	<10	<1	<1	<1	120	<6	16

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 17...	0735	11	13.5	13	0.39	--
JAN 06...	0835	64	4.0	18	3.1	--
MAY 13...	0735	18	--	14	0.68	74
AUG 17...	0705	0.73	22.5	18	0.03	61

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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 SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
NOV 17...	0730	11	<0.4	<0.4	3.3	0.6	2.8	0.6	0.04	0.01
MAY 13...	0730	18	<0.4	<0.4	1.6	<0.4	1.4	<0.4	0.03	0.01

ALTAMAHA RIVER BASIN

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02212950 OCMULGEE RIVER ABOVE MACON, GA.

LOCATION.--Lat 32°52'11", long 83°39'15", Bibb County, Hydrologic Unit 03070103, at Macon waterworks 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV										
11...	1600	787	140	125	7.30	7.60	20.5	22.0	8.0	90
DEC										
11...	1745	3780	74	73	7.10	7.20	12.0	15.0	10.2	--
16...	1645	2470	85	76	6.90	7.20	11.0	19.0	10.6	96
JAN										
27...	1630	10500	63	56	7.00	6.90	6.0	4.5	12.2	99
FEB										
16...	1245	3720	71	66	6.90	6.80	10.0	8.0	10.7	97
MAR										
16...	1100	4040	66	59	7.00	7.40	11.0	20.0	10.3	94
MAY										
06...	1815	1510	96	89	7.50	7.80	21.5	25.5	9.1	104
28...	0845	931	95	92	7.30	7.60	26.5	26.0	7.1	89
JUN										
18...	0900	2950	107	97	7.40	7.40	24.5	26.5	7.4	89
JUL										
23...	1730	542	98	91	8.90	8.80	34.0	34.5	9.1	129
AUG										
25...	1730	482	114	119	7.60	7.70	35.0	30.5	7.0	101
SEP										
15...	1640	138	122	123	7.50	7.50	33.0	29.0	6.6	92

DATE	TUR- BID- ITY (NTU)	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)
NOV								
11...	4.0	--	0.6	--	32	13	0.510	0.060
DEC								
11...	31	--	0.9	220	18	15	0.480	0.110
16...	23	--	1.0	360	18	6	0.490	0.160
JAN								
27...	58	--	1.1	1700	13	48	0.410	0.090
FEB								
16...	27	--	1.1	330	13	17	0.480	0.030
MAR								
16...	20	--	1.4	20	15	9	0.460	<0.020
MAY								
06...	3.0	--	1.0	20	26	1	0.400	0.040
28...	5.0	--	0.5	40	25	3	1.00	0.400
JUN								
18...	16	--	1.1	1300	27	24	0.420	0.050
JUL								
23...	<1.0	--	0.8	230	23	<1	0.060	0.060
AUG								
25...	1.0	8	1.3	<20	30	2	0.260	0.040
SEP								
15...	5.0	8	0.1	330	32	--	0.290	0.160

ALTAMAHA RIVER BASIN

02212950 OCMULGEE RIVER ABOVE MACON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV					
11...	--	--	--	0.030	3.7
DEC					
11...	--	--	--	0.060	4.1
16...	--	--	--	0.060	3.5
JAN					
27...	--	--	--	<0.070	3.9
FEB					
16...	--	--	--	0.100	4.8
MAR					
16...	--	--	--	0.060	5.6
MAY					
06...	--	--	--	0.030	6.9
28...	--	--	--	0.030	3.2
JUN					
18...	--	--	--	0.150	3.0
JUL					
23...	--	--	--	<0.020	3.8
AUG					
25...	0.46	0.50	0.76	<0.020	2.5
SEP					
15...	0.14	0.30	0.59	<0.020	5.3

ALTAMAHA RIVER BASIN

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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.--February 1893 to July 1912, August 1912 to December 1913 (gage heights and discharge measurements only) October 1928 to current year. 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 above National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1905, nonrecording 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.--No estimated daily discharges. Records good. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoir 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.--77 years (water years 1894-1911, 1929-87), 2,700 ft³/s, 16.37 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 greater than base discharge 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)
Jan. 23	0500	16,900	19.37	Mar. 2	2300	*19,800	*20.29

Minimum daily discharge, 147 ft³/s, Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	322	1130	10000	3460	4230	15000	9020	1350	825	1190	558	503		
2	274	928	8810	3520	3470	17400	6890	1210	778	1170	561	477		
3	304	712	10000	2540	3560	16200	5500	1540	753	1330	584	467		
4	296	1030	8700	2070	3510	8440	5320	1430	663	1170	643	457		
5	397	1080	7090	2580	3420	7390	4900	1790	644	1630	633	468		
6	186	910	3110	1780	3440	5760	3690	1370	954	1450	599	647		
7	248	798	2490	1640	7850	4830	3010	2220	678	1850	1020	584		
8	284	884	3240	1570	7180	4950	2510	1580	923	2170	845	550		
9	273	671	3650	1500	5370	5510	2800	1350	972	1850	1120	556		
10	305	659	3800	1680	4510	5350	3030	1230	859	1450	944	547		
11	409	832	3790	1390	4180	4920	2420	1400	646	1270	1000	532		
12	222	924	3610	1410	4040	4690	2100	1790	798	900	832	514		
13	359	695	3810	1710	3930	4540	2090	1390	835	807	837	475		
14	693	657	3860	1340	2970	4380	2090	1970	1320	803	745	229		
15	576	862	3700	1500	2140	4250	2790	2280	3010	817	542	147		
16	484	700	2950	1470	3200	4040	2730	2280	2390	771	514	321		
17	457	806	2100	1840	3290	2680	2680	1850	2240	702	493	372		
18	311	770	1920	2910	2890	2960	1630	1600	2550	678	475	385		
19	431	738	1880	7170	2300	5130	1330	2180	2220	662	500	304		
20	323	2090	2010	6250	1870	5080	1650	1480	1840	585	500	309		
21	273	4070	1630	5890	1990	3780	1750	1470	1920	547	504	376		
22	419	3330	1650	11700	1880	2370	1650	1750	2370	536	498	282		
23	216	2850	2300	16100	3340	2690	1950	1470	2520	542	496	372		
24	308	2510	5000	12400	3080	2620	2330	1310	1570	548	495	269		
25	379	2200	5490	7330	2720	2660	1530	1180	2170	542	483	321		
26	507	2830	4630	8670	2670	3160	1160	1290	2300	544	481	249		
27	550	3550	4170	9780	9420	2940	1110	1140	2640	696	471	217		
28	2480	3950	3040	9370	13100	5860	1780	1040	2330	573	460	257		
29	2730	3880	2680	5410	---	6360	1520	869	1290	550	461	338		
30	1830	7390	2220	4690	---	7660	1270	837	1350	561	374	272		
31	1200	---	1820	4460	---	12600	---	830	---	565	540	---		
TOTAL	18046	54436	125150	145130	115550	186200	84230	46476	46358	29459	19208	11797		
MEAN	582	1815	4037	4682	4127	6006	2808	1499	1545	950	620	393		
MAX	2730	7390	10000	16100	13100	17400	9020	2280	3010	2170	1120	647		
MIN	186	657	1630	1340	1870	2370	1110	830	644	536	374	147		
CAL YR 1986	TOTAL	459365	MEAN	1259	MAX	10000	MIN	186	MEAN†	1260	CFSM†	.56	INT†	7.64
WTR YR 1987	TOTAL	882040	MEAN	2417	MAX	17400	MIN	147	MEAN†	2427	CFSM†	1.08	INT†	14.71

†ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

ALTAMAHA RIVER BASIN

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. Elevation of gage is 390 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Jan. 26, 27, Mar. 9, 10, July 2-9, and Sept. 22-29. Records good.

AVERAGE DISCHARGE.--26 years, 32.0 ft³/s, 14.98 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; no flow, Oct. 3-5, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--No flow was observed during June, July, and August 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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	0930	1,170	4.47	Mar. 30	2345	*3,740	*10.30
Feb. 27	1945	1,770	5.91	Sept. 6	1930	1,160	4.45
Mar. 1	0115	1,200	4.50				

Minimum daily discharge, 1.1 ft³/s, Aug. 23-25, 28, 29, and Sept. 24, 25, but may have been less during period of estimated record Sept. 22-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.2	228	296	26	419	124	11	4.8	8.7	1.3	8.9
2	2.0	3.1	136	93	32	103	72	11	4.4	7.6	1.2	3.5
3	1.8	2.7	61	52	29	67	64	11	6.5	7.1	10	2.4
4	1.9	2.7	39	57	25	52	52	10	6.4	7.3	6.5	2.0
5	1.9	2.4	29	69	23	43	42	10	5.2	7.3	3.1	2.2
6	1.8	2.4	22	46	32	38	36	11	4.4	6.6	9.1	226
7	1.7	2.4	19	43	260	34	32	10	4.0	7.4	10	68
8	1.7	3.4	17	41	86	70	30	10	3.5	5.9	4.7	14
9	4.1	4.1	20	39	54	55	27	8.7	3.2	5.0	3.7	7.2
10	7.0	4.4	45	39	42	38	25	7.8	2.8	4.1	3.1	5.0
11	2.9	4.1	38	37	36	31	23	14	3.0	3.6	2.7	3.8
12	2.7	3.8	72	36	32	33	22	15	3.2	3.4	2.7	3.5
13	13	3.5	55	36	28	30	21	28	4.1	3.1	2.6	4.1
14	45	3.0	35	35	26	26	21	14	12	2.9	2.2	3.6
15	9.5	4.5	29	35	25	24	22	13	12	2.7	2.0	2.8
16	5.8	4.9	24	35	36	23	19	12	12	2.6	1.9	2.5
17	4.3	10	22	45	28	21	19	9.6	23	2.3	2.0	2.1
18	3.7	7.3	26	152	24	28	18	8.8	14	2.1	1.8	2.1
19	3.1	5.3	27	201	23	79	17	8.6	7.6	1.9	1.7	2.6
20	3.0	159	22	82	22	48	16	8.4	6.7	1.7	1.6	2.2
21	2.7	54	18	59	22	35	16	8.3	40	1.6	1.4	1.7
22	2.7	21	17	548	64	28	15	8.5	45	1.8	1.2	1.4
23	2.5	15	38	131	65	25	15	7.3	33	1.9	1.1	1.2
24	2.7	12	68	70	42	23	14	7.0	13	1.8	1.1	1.1
25	7.8	11	44	136	35	49	14	6.6	118	1.7	1.1	1.1
26	6.9	106	32	101	95	35	13	6.3	45	1.7	1.4	1.2
27	4.3	45	27	60	710	43	13	6.2	17	1.7	1.3	1.4
28	4.0	31	23	47	470	59	13	6.1	11	2.3	1.1	1.4
29	3.1	29	21	38	---	40	12	6.0	9.1	1.7	1.1	1.6
30	3.0	309	19	34	---	700	12	5.5	8.4	1.5	3.0	2.9
31	3.0	---	19	29	---	762	---	5.3	---	1.4	32	---
TOTAL	161.6	869.2	1292	2722	2392	3061	839	305.0	482.3	112.4	119.7	383.5
MEAN	5.21	29.0	41.7	87.8	85.4	98.7	28.0	9.84	16.1	3.63	3.86	12.8
MAX	45	309	228	548	710	762	124	28	118	8.7	32	226
MIN	1.7	2.4	17	29	22	21	12	5.3	2.8	1.4	1.1	1.1
CFSM	.18	1.00	1.44	3.03	2.95	3.40	.97	.34	.56	.13	.13	.44
IN.	.21	1.11	1.66	3.49	3.07	3.93	1.08	.39	.62	.14	.15	.49
CAL YR 1986	TOTAL	5837.55	MEAN 16.0	MAX 338	MIN .16	CFSM .55	IN 7.49					
WTR YR 1987	TOTAL	12739.70	MEAN 34.9	MAX 762	MIN 1.1	CFSM 1.20	IN 16.34					

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.--April 1937 to current year.

REVISED RECORDS.--WSP 1204: 1942.

GAGE.--Water-stage recorder. Datum of gage is 309.98 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 28, 1942, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. 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.--50 years, 193 ft³/s, 14.40 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Nov. 30	1600	2,340	10.50	Feb. 27	1815	5,180	17.21
Dec. 3	1815	2,230	10.19	Mar. 30	2045	4,990	16.90
Jan. 22	1200	2,640	11.35	May 11	1430	*5,240	*17.31

Minimum daily discharge, 18 ft³/s Nov. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	18	1680	550	182	2180	787	115	58	70	33	24
2	24	18	511	355	270	1480	377	115	57	67	32	24
3	24	18	710	210	208	519	377	117	57	64	33	23
4	24	19	37	207	184	521	388	121	57	62	32	23
5	24	19	44	346	171	498	388	131	58	63	33	24
6	24	19	69	216	256	196	379	125	58	66	35	23
7	24	20	89	148	1410	62	209	120	55	182	39	22
8	23	20	98	144	1070	321	74	117	52	329	41	22
9	23	21	109	142	463	461	102	119	50	266	42	22
10	23	21	141	144	316	404	207	115	49	168	41	22
11	24	21	150	154	247	300	232	1630	47	115	40	23
12	24	21	284	143	222	258	216	228	46	74	39	23
13	23	21	269	131	212	234	208	362	46	57	36	24
14	22	22	175	115	200	201	207	298	48	52	34	23
15	23	21	118	111	189	201	207	286	52	48	32	22
16	23	21	111	111	192	196	211	278	69	44	31	22
17	22	23	109	129	196	191	196	251	102	41	30	21
18	22	23	107	653	192	207	175	220	136	39	29	21
19	22	25	110	739	191	668	169	193	124	38	29	21
20	22	31	104	500	178	626	166	159	110	37	28	21
21	22	404	99	320	158	370	161	132	396	36	27	22
22	21	196	96	1750	170	278	156	121	554	35	27	21
23	21	66	98	1220	420	263	155	110	522	35	26	21
24	20	147	338	707	259	241	157	92	346	36	25	21
25	20	180	374	466	251	300	153	76	209	36	24	21
26	19	410	234	962	263	301	141	68	183	35	25	20
27	20	188	179	618	2240	279	127	63	159	35	24	20
28	19	144	143	442	2530	378	122	61	124	35	24	19
29	19	137	140	208	---	410	122	61	94	34	24	19
30	19	1250	134	92	---	1380	117	60	80	34	24	19
31	19	---	126	158	---	1810	---	58	---	34	24	---
TOTAL	683	3544	6986	12191	12840	15734	6686	6002	3998	2267	963	653
MEAN	22.0	118	225	393	459	508	223	194	133	73.1	31.1	21.8
MAX	24	1250	1680	1750	2530	2180	787	1630	554	329	42	24
MIN	19	18	37	92	158	62	74	58	46	34	24	19
CFSM	.12	.65	1.24	2.16	2.52	2.79	1.23	1.07	.73	.40	.17	.12
IN.	.14	.72	1.43	2.49	2.62	3.22	1.37	1.23	.82	.46	.20	.13
CAL YR 1986	TOTAL	39675	MEAN 109	MAX 2630	MIN 18	CFSM .60	IN 8.11					
WTR YR 1987	TOTAL	72547	MEAN 199	MAX 2530	MIN 18	CFSM 1.09	IN 14.83					

ALTAMAHA RIVER BASIN

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02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.

LOCATION.--Lat 32°40'17", long 83°36'11", Bibb-Twigg County line, Hydrologic Unit 03070103, on right bank 0.8 mi 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. Elevation of gage is 251 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
REMARKS.--Estimated daily discharges, Feb. 14-16. 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, 284 ft³/s, Sept. 28, 1987.
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.48 ft, Mar. 1; minimum daily discharge, 284 ft³/s, Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	385	1150	---	2710	---	---	---	1470	929	1480	595	573
2	413	1020	---	---	---	---	---	1470	905	1450	590	557
3	371	931	---	---	---	---	---	1500	869	1450	590	530
4	373	834	---	3540	---	---	---	1660	824	1430	663	514
5	352	1030	---	3470	---	---	---	1660	763	1460	735	507
6	411	1030	---	3310	---	---	---	1790	780	1700	691	520
7	297	889	---	3080	---	---	---	1730	986	1800	703	800
8	336	837	3360	2620	---	---	3440	2150	782	2240	1050	817
9	368	887	3530	2290	---	---	3110	1630	993	2290	977	683
10	373	743	---	2140	---	---	3130	1450	991	2040	1090	644
11	409	778	---	1990	---	---	3220	1400	900	1710	1010	612
12	486	846	---	1870	---	---	2770	2010	729	1420	1020	589
13	371	906	---	2040	---	---	2600	3380	868	1100	874	582
14	567	763	---	1990	3550	---	2440	3080	1040	943	871	535
15	791	788	---	1660	2800	---	2770	2840	1850	954	776	355
16	706	835	---	1870	3050	---	3010	3230	2920	910	629	295
17	633	840	3280	2160	3560	---	2990	2750	2360	823	610	401
18	593	933	2750	2660	3560	3340	2520	2280	2660	783	590	446
19	477	940	2520	---	3230	3550	1970	2320	2770	742	576	448
20	552	1170	2440	---	2830	---	1770	2170	2380	707	575	355
21	446	2930	2240	---	2560	---	2050	1870	1870	635	551	391
22	427	---	2030	---	2420	---	1880	1940	2370	602	536	423
23	500	3540	2280	---	3040	3370	1990	1750	2950	584	522	346
24	362	3260	3100	---	3580	3210	2450	1630	2750	577	518	412
25	418	2900	---	---	3560	3080	2120	1450	2460	578	511	326
26	508	2780	---	---	3330	3420	1680	1340	3290	574	505	372
27	607	3390	---	---	---	3560	1400	1380	3470	576	514	302
28	1010	---	---	---	---	---	1600	1240	3080	740	504	284
29	2250	---	3510	---	---	---	1830	1130	2220	639	500	308
30	2330	---	3160	---	---	---	1530	979	1610	607	476	370
31	1470	---	2660	---	---	---	---	946	---	604	457	---
TOTAL	19592	---	---	---	---	---	---	57625	53369	34148	20809	14297
MEAN	632	---	---	---	---	---	---	1859	1779	1102	671	477
MAX	2330	---	---	---	---	---	---	3380	3470	2290	1090	817
MIN	297	---	---	---	---	---	---	946	729	574	457	284
CFSM	.24	---	---	---	---	---	---	.69	.66	.41	.25	.18
IN.	.27	---	---	---	---	---	---	.80	.74	.47	.29	.20

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 TEMPERATURE: February 1970 to current year.

DISSOLVED OXYGEN: May 1970 to current year.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 347 microsiemens Sept. 28, 1987; minimum recorded, 25 microsiemens Jan. 7, 1974.

pH: Maximum recorded, 7.80 units Oct. 1, 1971; minimum recorded, 5.20 units Jan. 14, 1972.

WATER TEMPERATURE: Maximum recorded, 34.5°C July 17, 1981, July 21, 1986; minimum recorded, 1.0°C Jan. 19, 20, 1977.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 347 microsiemens Sept. 28; minimum, 59 microsiemens Mar. 1.

pH: Maximum, 7.53 units July 27; minimum, 6.60 units Dec. 2.

WATER TEMPERATURE: Maximum, 33.0°C Aug. 3, 5, 6, 7; minimum, 6.0°C Jan. 27, 28, 29.

DISSOLVED OXYGEN: Maximum, 11.7 mg/L Jan. 28; minimum, 3.3 mg/L Oct. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV										
11...	1715	814	169	158	7.10	7.40	21.5	20.0	6.4	73
DEC										
11...	1900	--	90	84	6.90	7.00	13.5	15.0	9.1	--
16...	1730	--	93	85	7.00	6.90	11.0	15.0	9.3	85
JAN										
27...	1745	--	71	64	6.70	6.70	6.5	5.0	11.4	93
FEB										
16...	1345	3310	89	80	7.00	6.70	11.0	8.0	9.8	91
MAR										
16...	1245	--	77	67	6.90	7.00	13.0	21.0	9.5	91
MAY										
06...	2035	1530	115	109	7.00	7.30	21.0	19.5	6.5	74
28...	0950	1270	124	126	7.00	7.50	27.5	24.5	5.1	64
JUN										
18...	1015	2550	118	113	7.00	7.20	26.0	27.0	6.1	75
JUL										
23...	1845	588	183	172	7.20	7.30	32.0	30.5	4.8	66
AUG										
25...	1845	506	219	219	7.40	7.40	32.5	29.0	4.8	66
SEP										
15...	1845	315	242	240	7.30	7.20	28.0	27.0	4.7	60

ALTAMAHA RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LILITY 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)
NOV									
11...	30	9.0	12	1.6	--	38	24	0.950	0.460
DEC									
11...	110	34	13	1.4	1300	19	31	0.460	0.190
16...	15	25	15	1.3	17000	19	18	0.470	0.250
JAN									
27...	100	51	12	1.5	2300	12	40	0.370	0.100
FEB									
16...	50	24	--	1.2	490	18	19	0.420	0.110
MAR									
16...	70	22	10	2.0	130	18	20	0.480	0.040
MAY									
06...	30	6.0	12	0.3	1000	29	4	0.730	0.640
28...	40	9.0	15	1.8	22000	29	13	1.00	0.440
JUN									
18...	30	17	13	1.9	22000	28	28	0.520	0.180
JUL									
23...	10	1.0	15	0.7	490	36	1	0.840	0.350
AUG									
25...	45	5.0	22	1.7	1700	51	7	0.770	0.210
SEP									
15...	90	14	27	1.4	2800	57	9	0.740	0.270

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV					
11...	0.14	0.60	1.6	0.260	5.5
DEC					
11...	0.11	0.30	0.76	0.100	4.6
16...	0.05	0.30	0.77	0.110	3.8
JAN					
27...	0.20	0.30	0.67	0.120	5.1
FEB					
16...	--	--	--	0.150	1.7
MAR					
16...	--	<0.10	--	0.070	3.1
MAY					
06...	0.26	0.90	1.6	0.160	3.7
28...	0.36	0.80	1.8	0.140	2.9
JUN					
18...	0.62	0.80	1.3	0.120	2.8
JUL					
23...	0.55	0.90	1.7	0.220	4.4
AUG					
25...	0.89	1.1	1.9	0.330	3.9
SEP					
15...	0.53	0.80	1.5	0.210	12

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SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	298	238	163	152	99	88	111	89	80	79	66	59
2	311	237	167	151	88	84	87	80	82	79	68	63
3	273	234	170	151	88	85	87	85	84	82	71	68
4	267	241	178	158	87	85	95	86	84	81	71	67
5	264	234	169	154	87	83	92	87	84	82	71	68
6	249	208	162	152	85	83	98	90	86	83	72	69
7	271	224	174	155	94	86	98	94	86	80	73	71
8	271	244	178	165	96	86	106	98	81	72	74	70
9	268	237	173	157	88	86	110	102	73	70	76	73
10	276	246	175	171	89	86	116	103	81	73	75	72
11	263	232	173	163	91	87	110	104	83	81	75	74
12	246	209	184	162	90	87	111	105	85	83	77	75
13	254	227	173	162	93	88	109	103	86	84	77	75
14	236	168	180	170	88	83	112	104	89	85	78	77
15	167	157	180	157	87	84	128	110	97	89	79	75
16	172	154	178	156	94	87	121	114	93	84	79	75
17	191	174	171	163	103	94	115	106	92	86	85	77
18	200	184	176	166	112	102	107	94	92	88	90	81
19	233	200	175	170	113	103	93	84	98	91	90	78
20	220	185	180	124	113	102	87	84	104	95	83	76
21	228	191	137	104	116	103	92	85	102	94	80	75
22	227	209	122	108	118	104	98	91	103	94	84	76
23	222	197	129	123	113	99	91	78	97	80	82	78
24	252	216	132	129	107	88	81	74	89	84	85	80
25	246	218	135	128	91	84	76	73	90	84	92	85
26	234	194	133	116	95	91	76	70	90	86	88	82
27	194	180	118	107	93	92	74	70	89	77	89	85
28	186	137	117	107	97	93	73	71	82	62	89	78
29	140	130	114	109	102	96	75	72	---	---	83	78
30	150	139	115	101	105	100	81	76	---	---	82	79
31	157	150	---	---	113	106	81	78	---	---	83	72
MONTH	311	130	184	101	118	83	128	70	104	62	92	59
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	75	64	120	111	138	127	128	114	186	165	209	193
2	77	71	120	108	152	131	124	117	184	174	211	198
3	82	76	116	103	159	144	126	116	180	169	227	201
4	82	79	110	99	169	151	126	114	179	164	224	211
5	81	78	117	102	178	160	129	112	171	160	220	205
6	81	78	114	99	174	157	118	106	171	157	214	200
7	86	81	115	98	152	134	118	109	173	146	211	134
8	90	86	108	97	154	141	118	105	148	131	164	128
9	94	87	123	107	144	124	110	102	148	130	184	163
10	92	82	127	113	151	131	116	107	139	125	197	176
11	95	81	126	116	153	141	126	109	156	132	207	187
12	101	91	118	101	181	155	136	116	159	142	205	196
13	96	88	99	88	174	150	142	129	168	152	204	193
14	101	90	107	90	160	129	161	141	169	157	223	196
15	95	82	120	103	127	97	157	148	174	162	254	228
16	93	84	120	97	113	95	163	151	189	174	293	257
17	94	82	108	99	130	116	180	157	185	178	288	227
18	105	88	111	100	122	112	181	169	190	177	251	222
19	109	99	120	103	118	113	183	167	194	182	244	226
20	111	96	126	108	128	117	169	160	207	184	285	240
21	101	92	133	120	140	121	183	160	209	188	297	223
22	108	94	124	106	121	99	190	170	219	200	224	210
23	107	92	127	106	105	97	186	171	209	191	246	216
24	95	84	126	114	110	106	181	162	211	197	250	220
25	109	93	136	117	123	110	174	157	224	204	311	227
26	114	104	135	122	109	82	169	157	226	217	315	250
27	112	108	131	112	98	87	174	154	228	217	303	250
28	115	95	139	122	101	96	165	131	229	211	347	256
29	106	96	144	131	120	101	182	144	223	211	282	231
30	118	100	153	137	128	115	181	162	221	206	283	232
31	---	---	150	136	---	---	181	165	232	209	---	---
MONTH	118	64	153	88	181	82	190	102	232	125	347	128
YEAR	347	59										

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.26	7.16	7.22	7.19	6.93	6.61	7.11	7.07	6.96	6.94	6.72	6.66
2	7.32	7.17	7.23	7.21	6.63	6.60	7.10	6.94	6.98	6.93	6.79	6.71
3	7.29	7.14	7.26	7.25	6.72	6.65	6.96	6.90	7.01	6.98	6.83	6.80
4	7.26	7.12	7.28	7.23	6.78	6.72	7.00	6.92	7.01	6.99	6.85	6.81
5	7.26	7.09	7.24	7.20	6.82	6.78	7.06	7.01	7.02	6.99	6.94	6.86
6	7.36	7.17	7.24	7.18	6.83	6.78	7.04	6.89	7.03	7.02	6.98	6.91
7	7.28	7.13	7.19	7.13	6.89	6.77	6.95	6.90	7.05	6.98	7.00	6.97
8	7.22	7.07	7.15	7.10	6.96	6.85	6.95	6.89	6.96	6.85	7.02	7.00
9	7.23	7.14	7.17	7.12	6.97	6.93	7.01	6.91	6.90	6.83	7.02	7.01
10	7.25	7.18	7.22	7.16	6.93	6.89	6.99	6.94	7.02	6.91	7.02	7.01
11	7.20	7.04	7.22	7.12	6.93	6.90	6.97	6.90	7.07	7.01	7.06	7.02
12	7.05	6.90	7.18	7.11	6.97	6.92	7.03	6.96	7.12	7.06	7.08	7.05
13	7.24	7.01	7.18	7.12	7.00	6.92	7.10	7.03	7.11	7.07	7.12	7.08
14	---	---	7.17	7.13	6.98	6.96	7.10	7.03	7.08	7.05	7.13	7.11
15	---	---	7.25	7.18	6.98	6.95	7.03	6.98	7.04	6.90	7.12	7.10
16	---	---	7.28	7.23	6.97	6.90	7.07	7.01	7.06	7.00	7.11	7.09
17	---	---	7.28	7.17	6.88	6.81	7.05	7.02	7.09	7.02	7.09	7.02
18	---	---	7.16	7.09	6.92	6.85	7.05	7.01	7.11	7.06	7.12	7.01
19	---	---	7.13	7.06	6.97	6.93	7.03	6.90	7.09	7.00	7.15	7.05
20	---	---	7.13	6.96	7.04	6.96	6.89	6.82	7.10	7.03	7.15	7.07
21	---	---	7.06	6.93	7.05	6.94	6.95	6.85	7.09	7.03	7.09	7.04
22	---	---	7.01	6.88	7.06	6.98	6.99	6.93	7.09	6.99	7.06	6.99
23	---	---	6.97	6.93	7.12	7.04	6.92	6.71	7.12	7.04	7.15	7.03
24	7.14	7.07	7.02	6.98	7.15	7.06	6.72	6.69	7.13	7.08	7.14	7.06
25	7.16	7.10	7.02	6.94	7.14	6.99	6.71	6.68	7.10	7.04	7.11	7.03
26	7.18	7.10	7.06	6.97	7.01	6.99	6.73	6.70	7.09	7.05	7.15	7.08
27	7.25	7.20	7.01	6.82	7.05	7.02	6.75	6.71	7.09	6.99	7.14	6.97
28	7.26	7.15	6.91	6.85	7.08	7.03	6.79	6.76	6.99	6.68	7.06	6.96
29	7.18	7.14	6.98	6.91	7.11	6.97	6.81	6.80	---	---	7.03	6.95
30	7.20	7.19	7.02	6.94	7.10	7.03	6.88	6.83	---	---	7.02	6.97
31	7.20	7.15	---	---	7.12	7.06	6.93	6.89	---	---	7.01	6.81
MONTH	7.36	6.90	7.28	6.82	7.15	6.60	7.11	6.68	7.13	6.68	7.15	6.66
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.82	6.70	7.10	7.07	7.09	7.02	7.14	7.08	7.37	7.28	7.37	7.31
2	6.96	6.83	7.09	7.02	7.13	7.05	7.13	7.06	7.41	7.33	7.42	7.28
3	6.99	6.96	7.06	6.92	7.08	7.04	7.18	7.12	7.47	7.40	7.33	7.18
4	7.07	6.98	7.10	7.02	7.10	7.06	7.22	7.19	7.41	7.24	7.35	7.23
5	7.11	7.06	7.03	6.94	7.11	7.07	7.25	7.17	7.36	7.30	7.33	7.28
6	7.12	7.08	7.11	7.00	7.11	7.06	7.25	7.21	7.34	7.28	7.35	7.28
7	7.12	7.00	7.23	7.12	7.18	7.06	7.26	7.10	7.32	7.14	7.34	7.09
8	7.09	6.99	7.24	7.17	7.23	7.18	7.20	7.14	7.29	7.14	7.22	7.09
9	7.11	7.02	7.18	7.15	7.25	7.12	7.14	7.04	7.26	7.18	7.28	7.20
10	7.13	7.05	7.19	7.16	7.16	7.10	7.11	7.02	7.31	7.23	7.28	7.16
11	7.11	7.05	7.24	7.20	7.19	7.11	7.09	7.03	7.32	7.19	7.30	7.20
12	7.06	7.00	7.21	6.92	7.20	7.13	7.12	7.08	7.30	7.23	7.26	7.21
13	7.08	7.00	6.90	6.84	7.16	7.13	7.16	7.11	7.35	7.28	7.29	7.24
14	7.06	6.94	7.05	6.85	7.15	7.05	7.18	7.13	7.37	7.30	7.33	7.26
15	7.10	7.01	7.02	6.96	7.12	7.05	7.20	7.06	7.40	7.26	7.29	7.25
16	7.11	7.03	7.04	7.00	7.10	7.01	7.19	7.13	7.35	7.27	7.31	7.26
17	7.12	7.04	7.08	6.95	7.04	6.92	7.21	7.10	7.39	7.33	7.28	7.24
18	7.11	7.00	7.08	7.02	7.18	7.00	7.24	7.11	7.40	7.34	7.27	7.19
19	7.10	7.07	7.13	7.04	7.19	7.09	7.29	7.24	7.38	7.23	7.26	7.20
20	7.15	7.09	7.11	7.03	7.16	7.08	7.33	7.28	7.32	7.22	7.24	7.18
21	7.16	7.12	7.07	7.03	7.18	7.08	7.32	7.26	7.32	7.22	7.29	7.17
22	7.15	7.07	7.10	7.04	7.19	7.14	7.27	7.20	7.39	7.28	7.38	7.26
23	7.11	7.07	7.11	7.02	7.16	7.06	7.24	7.18	7.48	7.38	7.37	7.29
24	7.15	7.11	7.10	7.05	7.04	6.91	7.22	7.16	7.50	7.42	7.37	7.30
25	7.14	7.09	7.15	7.11	7.00	6.95	7.25	7.17	7.48	7.30	7.38	7.31
26	7.11	7.06	7.14	7.12	7.09	6.93	7.39	7.21	7.33	7.24	7.37	7.33
27	7.10	7.07	7.13	7.06	7.03	6.91	7.53	7.33	7.31	7.22	7.40	7.34
28	7.18	7.10	7.04	6.98	7.14	7.00	7.41	6.95	7.29	7.24	7.42	7.31
29	7.18	7.12	7.01	6.97	7.11	7.05	7.31	7.06	7.32	7.25	7.41	7.35
30	7.14	7.06	7.01	6.99	7.12	7.07	7.31	7.20	7.32	7.25	7.39	7.21
31	---	---	7.02	6.99	---	---	7.32	7.21	7.41	7.33	---	---
MONTH	7.18	6.70	7.24	6.84	7.25	6.91	7.53	6.95	7.50	7.14	7.42	7.09
YEAR	7.53	6.60										

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.6	3.5	7.8	7.5	8.3	7.7	10.7	10.3	11.1	10.9	10.3	9.9
2	3.7	3.3	7.9	7.6	7.9	7.7	10.8	10.5	11.2	10.9	9.9	9.7
3	4.3	3.6	7.9	7.7	8.2	7.9	10.7	10.4	10.8	10.6	10.0	9.8
4	4.4	3.9	7.7	6.9	8.7	8.2	10.7	10.5	10.6	10.5	10.0	9.9
5	4.7	3.8	7.6	6.8	9.0	8.7	11.2	10.8	10.6	10.4	10.1	9.9
6	5.8	4.7	7.4	6.8	9.1	8.9	11.1	10.6	10.8	10.6	10.1	9.9
7	5.8	5.4	7.0	6.3	9.6	8.9	10.8	10.7	10.8	10.6	10.0	9.8
8	5.5	4.9	6.6	5.9	9.7	9.3	10.7	10.2	10.5	10.0	9.9	9.7
9	5.4	4.8	6.6	6.2	9.7	9.3	10.5	10.2	10.7	10.1	9.7	9.5
10	5.0	4.6	6.9	6.5	9.3	8.8	10.4	9.8	11.1	10.7	9.5	9.3
11	5.2	4.5	7.0	6.3	8.8	8.6	10.2	9.9	11.2	11.0	9.8	9.5
12	6.3	5.0	6.9	5.9	8.8	8.6	10.8	10.3	11.1	10.8	10.1	9.7
13	6.7	6.2	6.8	6.3	9.4	8.5	10.9	10.6	10.8	10.4	10.3	10.1
14	6.4	5.3	7.0	6.6	9.9	9.4	10.9	10.4	10.4	10.2	10.2	9.9
15	6.6	5.9	8.2	7.2	9.9	9.8	10.5	9.7	10.3	9.5	9.8	9.6
16	6.8	6.4	8.4	7.8	9.7	9.0	10.3	9.8	10.0	9.8	9.7	9.5
17	6.7	6.5	8.2	7.5	9.0	7.1	10.0	9.7	10.6	10.0	9.5	9.1
18	7.1	6.4	7.4	6.7	8.8	8.4	10.3	10.0	10.8	10.5	9.1	8.7
19	6.8	6.1	6.9	6.6	9.0	8.6	10.5	10.4	10.7	10.3	9.4	8.8
20	7.8	6.7	7.4	6.9	9.4	9.0	10.4	10.3	10.7	10.3	9.4	9.3
21	7.9	6.6	8.4	7.5	9.6	9.2	10.9	10.5	10.5	10.0	9.2	9.0
22	7.0	6.3	8.6	8.3	9.9	9.5	11.0	10.8	10.3	9.8	9.0	8.5
23	7.0	6.5	8.7	8.6	10.5	10.0	10.9	9.8	10.6	10.0	9.0	8.6
24	6.5	6.0	8.6	8.5	10.5	10.2	11.2	11.0	10.6	10.4	8.9	8.5
25	6.1	5.6	8.5	7.9	10.4	10.0	11.2	10.9	10.6	10.4	8.6	8.4
26	6.9	5.6	8.2	7.9	10.0	9.9	11.0	10.9	10.5	10.3	8.9	8.5
27	7.4	7.0	7.9	7.3	10.1	10.0	11.5	11.1	10.8	10.4	8.7	8.1
28	7.9	7.4	8.3	7.9	10.2	10.1	11.7	11.5	10.8	10.3	8.5	7.8
29	8.2	7.8	8.4	8.3	10.3	9.9	11.6	11.4	---	---	8.4	8.0
30	8.1	8.0	8.4	8.3	10.3	10.0	11.4	10.9	---	---	8.3	8.1
31	8.0	7.6	---	---	10.3	10.0	10.9	10.7	---	---	8.2	7.8
MONTH	8.2	3.3	8.7	5.9	10.5	7.1	11.7	9.7	11.2	9.5	10.3	7.8
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.5	8.0	6.6	6.3	5.6	5.1	5.9	5.5	5.5	5.0	5.3	4.6
2	8.7	8.5	6.4	6.0	5.8	4.7	5.7	5.4	5.4	4.9	5.6	4.7
3	8.6	8.4	6.8	6.1	5.0	4.5	5.9	5.6	5.8	5.2	5.1	4.1
4	9.4	8.6	7.0	6.6	4.8	4.2	6.0	5.8	5.4	4.5	5.0	4.4
5	9.5	9.3	6.9	6.2	4.6	4.2	6.2	5.6	5.2	4.8	5.1	4.6
6	9.5	9.2	7.0	6.5	4.8	4.3	6.2	5.9	5.0	4.5	5.3	4.7
7	9.3	8.7	7.4	6.5	5.5	4.7	6.2	5.6	4.9	3.7	5.7	5.1
8	9.0	8.6	7.4	6.8	5.9	5.6	6.1	5.6	4.9	4.4	5.6	5.4
9	8.9	8.5	6.7	6.2	6.1	5.4	5.7	5.4	5.2	4.7	5.8	5.0
10	8.9	8.5	6.6	6.2	5.6	5.1	5.8	5.4	5.5	5.3	5.5	4.4
11	8.7	8.3	6.9	6.6	5.5	5.1	5.7	5.3	5.5	4.5	5.3	4.7
12	8.3	7.8	7.0	5.6	5.3	4.5	5.7	5.2	5.1	4.8	5.1	4.6
13	8.2	7.8	6.4	6.0	5.1	4.7	5.4	5.2	5.4	4.7	5.3	4.7
14	8.1	7.4	6.6	5.9	5.4	4.8	5.4	5.0	5.3	4.5	5.6	5.0
15	8.3	7.6	5.4	5.8	6.7	5.5	5.4	4.5	5.4	5.0	5.0	4.5
16	8.3	7.8	6.7	6.2	6.7	6.4	5.5	5.1	5.4	5.0	4.5	3.8
17	8.6	7.9	6.7	6.1	6.3	5.7	5.6	4.9	5.7	5.3	4.5	3.9
18	8.4	7.7	6.7	6.1	6.5	6.0	5.5	5.0	5.6	5.2	4.8	3.7
19	8.0	7.5	6.5	6.0	6.5	6.1	5.8	5.3	5.4	4.4	5.0	4.4
20	7.8	7.4	6.5	5.7	6.3	5.7	6.1	5.7	5.2	4.1	5.0	4.4
21	7.8	7.3	5.9	5.4	6.1	5.4	6.1	5.3	5.3	4.5	5.7	4.4
22	7.5	6.8	6.3	5.5	6.4	6.1	5.6	4.8	5.1	4.6	6.2	5.8
23	7.2	6.7	6.2	5.4	6.5	6.0	5.2	4.7	5.3	4.7	6.2	5.8
24	7.6	6.9	6.0	5.7	6.3	5.3	5.2	4.2	5.5	5.0	5.9	5.5
25	7.3	6.7	6.1	5.9	5.4	4.9	5.4	4.6	5.3	4.8	5.9	4.9
26	7.1	6.7	6.1	5.8	6.0	5.2	6.2	4.9	5.3	4.7	5.5	4.9
27	7.1	6.8	6.1	5.4	6.0	5.6	6.7	5.8	5.1	4.3	6.1	5.4
28	7.2	6.4	5.5	4.6	6.4	5.7	6.1	3.6	5.1	4.3	5.7	5.2
29	7.3	6.8	5.0	4.4	6.3	5.8	5.8	4.5	5.0	4.5	6.3	5.6
30	7.3	6.3	4.9	4.0	6.0	5.6	5.5	4.9	4.9	4.5	5.6	4.5
31	---	---	5.0	4.6	---	---	5.6	4.9	5.3	4.8	---	---
MONTH	9.5	6.3	7.4	4.0	6.7	4.2	6.7	3.6	5.8	3.7	6.3	3.7
YEAR	11.7	3.3										

ALTAMAHA RIVER BASIN

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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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
14...	1245	610	182	172	7.10	7.30	22.0	23.0	6.4	75
NOV										
11...	1340	875	158	149	7.00	7.30	21.0	23.0	6.7	76
DEC										
15...	1425	6020	82	77	6.80	6.80	10.0	13.0	8.9	79
JAN										
20...	1320	6020	74	68	6.80	6.60	8.5	6.5	9.6	83
FEB										
24...	1350	3740	76	72	6.80	7.20	9.5	10.0	10.2	90
MAR										
17...	1410	6620	68	64	6.80	6.90	13.0	16.0	9.2	88
APR										
20...	1240	2390	96	89	6.80	6.90	17.5	29.0	7.4	79
MAY										
19...	1310	2690	98	96	6.90	--	24.5	31.5	7.0	85
JUN										
09...	1230	1230	133	132	6.90	7.30	26.5	31.0	5.9	74
JUL										
21...	1230	954	150	139	6.90	7.20	27.0	32.0	6.1	77
AUG										
20...	1250	820	166	165	7.00	7.50	28.5	33.5	6.1	80
SEP										
15...	1310	755	152	158	6.70	7.20	26.0	33.0	6.0	75

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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									
14...	55	13	1.2	330	43	0.820	0.060	0.450	7.0
NOV									
11...	45	10	1.4	50	34	0.700	0.120	0.220	6.0
DEC									
15...	120	29	1.6	1400	17	0.350	0.050	0.090	4.7
JAN									
20...	120	36	2.5	490	16	0.270	0.080	0.120	4.8
FEB									
24...	60	30	0.6	170	8.0	0.380	<0.020	0.070	5.9
MAR									
17...	55	15	1.1	--	15	0.330	0.060	0.110	2.2
APR									
20...	40	15	1.1	--	27	0.580	0.170	0.130	3.8
MAY									
19...	55	17	1.1	130	7.0	0.510	<0.020	0.140	4.6
JUN									
09...	35	10	1.5	460	29	0.810	<0.020	0.180	3.5
JUL									
21...	15	6.0	0.8	--	34	0.530	0.180	0.170	4.1
AUG									
20...	--	9.0	<2.0	510	38	0.780	0.110	0.230	3.2
SEP									
15...	30	10	0.9	490	35	0.600	0.340	0.200	7.4

ALTAMAHA RIVER BASIN

02215100 TUCSAWHATCHEE CREEK NEAR HAWKINSVILLE, GA.

LOCATION.--Lat 32°14'22", long 83°30'06", Pulaski County, Hydrologic Unit 03070104, in left bank 100 ft upstream from State Highways 27 and 257, 1 mi upstream from Cedar Creek, and 3.5 mi southeast of Hawkinsville.

DRAINAGE AREA.--163 mi².

PERIOD OF RECORD.--Water years 1984-86 (annual maximum), April 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 210 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Dec. 6, 1984 to Apr. 1, 1986, crest-stage gage at site 100 ft downstream at datum 3.00 ft higher.

REMARKS.--Estimated daily discharge: April 1. Records good, except those greater than 50 ft³/s but less than 300 ft³/s, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft³/s, Jan. 20, 1987; gage height, 11.94 ft, minimum daily discharge, 1.1 ft³/s, July 23, 24, 1986.

EXTREMES FOR CURRENT PERIOD.--Peak discharges greater than base discharge 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. 20	0200	*2,760	*11.94	Feb. 8	2200	1,060	8.50
Jan. 23	0700	2,420	11.41	Mar. 1	2100	1,640	9.98

Minimum discharge, 1.1 ft³/s, July 23, 24, 1986.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							100	21	29	7.8	5.0	29
2							88	19	22	6.6	3.4	26
3							83	16	19	8.4	2.7	22
4							81	13	55	6.8	3.6	21
5							77	13	31	5.5	2.8	71
6							77	12	22	5.5	2.4	58
7							71	11	16	5.2	2.7	31
8							68	11	13	4.4	2.5	24
9							65	10	12	3.5	2.1	21
10							62	9.6	18	3.2	1.9	19
11							59	8.8	56	2.6	1.8	18
12							57	8.6	86	2.7	1.7	19
13							56	12	46	3.3	2.0	45
14							55	14	32	2.3	3.0	39
15							54	15	22	2.2	4.1	26
16							52	14	21	2.2	4.3	22
17							50	13	17	2.0	3.7	29
18							48	11	14	2.1	3.1	28
19							47	13	12	1.9	2.8	37
20							47	17	20	1.7	3.3	31
21							51	19	18	1.6	31	24
22							53	18	12	1.3	110	20
23							46	14	11	1.1	60	19
24							41	12	13	1.1	21	17
25							33	10	11	1.3	18	16
26							35	8.6	13	1.8	52	15
27							33	10	14	2.0	65	14
28							30	50	11	8.4	23	13
29							27	95	10	9.4	48	13
30							25	63	9.7	12	62	13
31							---	38	---	9.3	38	---
TOTAL							1676	599.6	685.7	129.2	586.9	780
MEAN							55.9	19.3	22.9	4.17	18.9	26.0
MAX							100	95	86	12	110	71
MIN							25	8.6	9.7	1.1	1.7	13
CFSH							.34	.12	.14	.03	.12	.16
IN.							.38	.14	.16	.03	.13	.18

ALTAMAHA RIVER BASIN

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02215100 TUCSAWHATCHEE CREEK NEAR HAWKINSVILLE, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	19	233	438	421	1460	652	37	35	65	26	65
2	13	19	338	799	387	1510	627	36	32	70	20	54
3	13	20	359	837	404	1180	427	37	30	60	25	35
4	13	21	270	608	464	777	365	39	28	57	35	34
5	12	21	187	763	423	575	342	38	30	73	38	27
6	12	21	142	955	424	470	306	38	28	68	30	29
7	12	21	117	849	705	409	273	39	24	210	23	222
8	12	21	103	580	1030	504	252	41	22	184	19	119
9	29	21	96	439	968	834	221	40	20	107	17	42
10	61	21	106	374	683	962	198	38	19	63	15	32
11	37	21	147	336	496	736	172	36	17	49	21	26
12	26	21	245	301	411	539	146	47	16	41	21	30
13	22	21	355	267	363	445	126	57	15	35	29	56
14	27	21	390	241	329	404	114	63	31	31	22	82
15	30	21	320	233	305	363	110	52	67	28	18	92
16	25	21	232	269	336	325	118	43	103	24	16	64
17	21	32	190	406	415	294	108	39	94	22	15	42
18	19	68	170	632	450	281	93	35	201	21	14	34
19	18	53	161	1820	359	343	83	33	213	19	12	30
20	17	58	154	2510	297	473	75	35	115	17	12	27
21	16	127	146	1690	273	499	64	37	73	16	11	24
22	16	158	132	1750	283	361	59	57	63	14	10	21
23	16	126	155	2350	349	295	54	152	78	14	8.8	19
24	16	64	289	1800	437	253	52	152	86	15	7.7	17
25	19	45	356	1160	412	234	52	75	75	28	7.1	16
26	20	43	361	1020	333	261	49	54	61	28	9.5	15
27	19	53	280	1040	377	335	45	46	55	20	10	15
28	18	56	213	865	628	350	43	46	62	17	8.5	15
29	17	67	179	648	---	342	42	49	55	16	8.2	15
30	18	136	159	544	---	367	40	49	46	39	9.6	16
31	18	---	150	472	---	462	---	40	---	29	13	---
TOTAL	625	1417	6735	26996	12762	16643	5308	1580	1794	1480	531.4	1315
MEAN	20.2	47.2	217	871	456	537	177	51.0	59.8	47.7	17.1	43.8
MAX	61	158	390	2510	1030	1510	652	152	213	210	38	222
MIN	12	19	96	233	273	234	40	33	15	14	7.1	15
CFSM	.12	.29	1.33	5.34	2.80	3.29	1.09	.31	.37	.29	.11	.27
IN.	.14	.32	1.54	6.16	2.91	3.80	1.21	.36	.41	.34	.12	.30

WTR YR 1987 TOTAL 77186.4 MEAN 211 MAX 2510 MIN 7.1 CFSM 1.29 IN 17.62

ALTAMAHA RIVER BASIN

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 above National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1937, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lloyds Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--51 years, 5,545 ft³/s, 14.54 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 greater than base discharge 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)
Jan. 7	0100	15,800	12.76	Mar. 11	1100	*25,900	*15.33
Jan. 26	1300	25,100	15.15				

Minimum discharge, 964 ft³/s, Oct. 9, gage height, -0.38 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1120	1590	4900	6970	19400	11600	10300	3290	2500	4620	1540	1310
2	1100	2160	5330	8880	19500	16100	10600	3150	2380	4570	1570	1410
3	1080	2380	5540	10500	19300	17800	10600	3190	2260	4730	1550	1440
4	1060	2380	5610	11400	18400	16400	10300	3130	2150	4930	1520	1420
5	1050	2160	5700	13500	17300	15200	10100	3000	2100	4820	1490	1470
6	1020	1950	5860	15400	16200	14900	10100	2910	2040	4560	1490	1540
7	1000	1780	6030	15600	15700	15300	10500	2880	1970	4250	1500	1540
8	984	1650	6210	14500	15300	16900	11200	2910	1910	4080	1550	1480
9	972	1640	6510	13200	14600	19900	12200	2940	1840	4090	1590	1420
10	1000	1670	7020	12400	13500	23600	13000	2940	1810	4240	1600	1450
11	1020	1630	7990	12100	12400	25200	13100	2940	1820	4320	1600	1530
12	1110	1570	9430	11700	11700	24400	12300	3030	1790	4280	1680	1570
13	1090	1540	11100	11000	11300	22200	11000	2960	1810	4080	1730	1560
14	1060	1500	11800	9860	11000	19600	9650	2800	1910	3780	1770	1520
15	1050	1450	11600	8590	10700	17400	8530	2830	2000	3340	1750	1530
16	1060	1470	10600	7630	10900	15200	7540	3080	2030	2900	1780	1570
17	1080	1670	9260	8070	12100	13300	6730	3420	2110	2520	1730	1570
18	1100	2230	8240	9150	13200	11800	6200	3700	2280	2250	1690	1560
19	1220	2400	7530	9960	13200	11000	5750	3870	2700	2090	1630	1500
20	1320	2250	7210	10500	12500	10600	5450	3930	3150	1990	1580	1400
21	1310	2770	7220	11400	11600	10100	5310	3940	3580	1890	1520	1330
22	1270	3050	7160	13900	11000	9870	5200	3910	3930	1810	1460	1300
23	1220	2870	7000	17900	11000	9550	5000	4800	4100	1750	1410	1280
24	1190	2990	7400	21600	10900	9290	4610	6300	4130	1710	1370	1240
25	1180	3430	8140	24000	10500	9120	4270	6540	3970	1680	1340	1200
26	1150	3840	8260	24800	9900	8920	4060	5180	3970	1640	1310	1190
27	1140	4020	7670	24200	9560	8720	3930	4000	4300	1600	1290	1170
28	1130	4120	6930	23100	9480	8970	3910	3410	4560	1580	1270	1150
29	1110	4260	6510	21800	---	9140	3860	3030	4690	1550	1270	1150
30	1140	4480	6300	20500	---	9520	3610	2780	4670	1530	1280	1150
31	1230	---	6190	19600	---	9910	---	2630	---	1530	1290	---
TOTAL	34566	72900	232250	443710	372140	441510	238910	109420	84460	94710	47150	41950
MEAN	1115	2430	7492	14310	13290	14240	7964	3530	2815	3055	1521	1398
MAX	1320	4480	11800	24800	19500	25200	13100	6540	4690	4930	1780	1570
MIN	972	1450	4900	6970	9480	8720	3610	2630	1790	1530	1270	1150
CFSM	.22	.47	1.45	2.76	2.57	2.75	1.54	.68	.54	.59	.29	.27
IN.	.25	.52	1.67	3.19	2.67	3.17	1.72	.79	.61	.68	.34	.30
CAL YR 1986	TOTAL	1133886	MEAN	3107	MAX	14400	MIN	940	CFSM	.60	IN	8.14
WTR YR 1987	TOTAL	2213676	MEAN	6065	MAX	25200	MIN	972	CFSM	1.17	IN	15.90

ALTAMAHA RIVER BASIN

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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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
15...	0650	1040	149	146	7.80	7.90	22.0	13.0	8.2	93
NOV										
11...	1455	1630	155	152	7.70	7.70	22.0	28.0	5.3	60
DEC										
09...	1620	6570	85	83	6.50	6.70	12.0	19.0	6.4	59
JAN										
20...	1710	10700	64	60	6.80	6.70	12.0	10.5	--	--
FEB										
10...	1730	13200	64	66	7.00	--	10.0	12.5	9.4	82
MAR										
11...	0850	24800	54	52	6.80	6.70	13.0	11.0	7.8	73
APR										
14...	1450	9500	81	79	7.10	7.00	19.0	24.5	6.6	71
MAY										
12...	1500	3040	120	121	--	7.60	25.0	31.0	6.6	80
JUN										
22...	1550	3980	106	103	7.40	7.40	27.5	25.5	5.6	71
JUL										
07...	1550	4210	--	108	7.40	7.30	30.0	33.0	3.5	--
AUG										
13...	0745	1710	148	153	8.50	8.30	30.0	26.0	5.8	--
SEP										
09...	0830	1420	156	169	7.40	7.80	24.0	32.0	7.3	87

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPH)	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)
OCT									
15...	25	14	9	1.4	50	52	13	0.440	0.040
NOV									
11...	15	7.0	10	1.1	1100	44	11	0.890	0.100
DEC									
09...	120	31	26	1.7	200	15	19	0.190	0.050
JAN									
20...	75	10	24	2.2	130	17	9	0.240	0.060
FEB									
10...	90	15	20	0.9	50	15	10	0.260	0.020
MAR									
11...	110	19	23	0.9	130	13	9	0.160	0.120
APR									
14...	60	8.0	20	1.2	<20	24	<1	0.160	<0.020
MAY									
12...	25	15	9	1.5	20	37	18	0.750	0.040
JUN									
22...	60	18	18	1.5	4600	27	18	0.560	0.110
JUL									
07...	55	12	23	1.4	95	32	17	0.310	0.280
AUG									
13...	10	5.0	--	2.3	130	49	3	<0.020	0.090
SEP									
09...	30	10	--	1.8	120	51	10	0.510	0.130

ALTAMAHA RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
15...	0.36	0.40	0.84	0.160	3.1
NOV					
11...	0.30	0.40	1.3	0.140	4.4
DEC					
09...	0.35	0.40	0.59	0.100	11
JAN					
20...	0.24	0.30	0.54	0.050	8.6
FEB					
10...	--	--	--	0.070	6.4
MAR					
11...	0.18	0.30	0.46	0.070	5.3
APR					
14...	--	0.60	0.76	0.070	7.2
MAY					
12...	--	<0.10	--	0.100	3.0
JUN					
22...	0.49	0.60	1.2	0.160	3.4
JUL					
07...	0.52	0.80	1.1	0.060	8.3
AUG					
13...	--	--	--	0.070	3.3
SEP					
09...	--	--	--	0.110	8.3

ALTAMAHA RIVER BASIN

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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 1983 to current year.

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

REMARKS.--No estimated daily discharges. Records good except those below 1.0 ft³/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200, Nov. 22, 1985, gage height, 10.56 ft; no flow at times most years.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 5	0800	669	8.31	Jan. 22	1815	1,010	9.01
Jan. 20	1745	660	8.29	Mar. 1	0845	*1,260	*9.20

Minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.89	65	363	118	962	227	1.2	.04	9.7	1.6	24
2	.00	.28	84	535	118	611	160	61	.02	271	1.5	5.9
3	.00	.20	109	405	142	363	108	42	.01	235	.55	23
4	.00	.06	94	287	143	226	104	17	.30	190	.09	30
5	.00	.01	72	610	129	165	90	8.8	4.3	192	.01	13
6	.00	.01	53	469	138	132	74	6.6	1.9	108	.00	23
7	.00	.01	41	308	284	118	63	5.0	.36	134	.00	13
8	.00	.01	35	213	330	209	55	4.1	.05	84	.00	6.7
9	.00	.00	33	164	267	277	49	2.9	.01	113	.00	4.2
10	.00	.00	42	164	193	258	45	1.8	.00	87	.00	3.2
11	.00	.00	80	188	139	192	39	1.3	.00	35	.00	2.3
12	.00	.00	152	155	112	141	34	1.9	.00	17	.00	1.6
13	.00	.01	231	128	99	119	31	2.0	.00	10	.00	1.7
14	.00	.00	225	110	91	106	29	2.1	1.2	6.8	.00	2.8
15	.00	.00	162	103	86	96	33	4.4	15	4.6	1.0	1.8
16	.00	.00	113	136	177	87	28	4.9	7.6	3.0	6.2	1.0
17	.00	2.6	93	343	308	79	24	3.7	6.6	2.0	4.5	.54
18	.00	.80	84	381	269	77	21	1.8	4.9	1.3	8.8	.26
19	.00	.47	76	474	205	110	18	.85	2.7	.64	3.0	.12
20	.00	3.6	86	628	140	124	16	11	1.4	.21	1.6	.55
21	.00	7.0	94	488	137	115	13	78	.74	.10	.87	.29
22	.00	4.4	92	763	179	100	11	24	.50	.28	.32	.05
23	.00	2.6	108	826	265	78	9.6	15	3.2	.05	.13	.01
24	.00	2.0	267	470	235	66	8.5	7.1	13	.81	.04	.00
25	.00	14	328	297	191	69	7.0	4.4	8.9	3.0	.01	.00
26	.00	19	249	292	157	69	5.3	2.6	23	1.1	.01	.00
27	.00	25	166	253	221	74	4.1	1.5	57	.41	1.4	.00
28	.00	23	117	211	248	100	3.2	.85	56	.09	1.7	.00
29	.00	25	93	167	---	92	2.2	.38	49	.02	.56	.00
30	.00	47	82	144	---	149	1.5	.20	22	.01	.64	.00
31	.01	---	76	131	---	227	---	.14	---	.01	7.5	---
TOTAL	.01	177.95	3602	10206	5121	5591	1313.4	318.52	279.73	1510.13	42.03	159.02
MEAN	.000	5.93	116	329	183	180	43.8	10.3	9.32	48.7	1.36	5.30
MAX	.01	47	328	826	330	962	227	78	57	271	8.8	30
MIN	.00	.00	33	103	86	66	1.5	.14	.00	.01	.00	.00
CFSM	.000	.12	2.36	6.68	3.72	3.66	.89	.21	.19	.99	.03	.11
IN.	.00	.13	2.72	7.71	3.87	4.22	.99	.24	.21	1.14	.03	.12
CAL YR 1986	TOTAL	12244.91	MEAN	33.5	MAX	695	MIN	.00	CFSM	.68	IN	9.25
WTR YR 1987	TOTAL	23320.79	MEAN	77.6	MAX	962	MIN	.00	CFSM	1.58	IN	21.40

ALTAMAHA RIVER BASIN

02217475 MIDDLE OCONEE RIVER NEAR ARCADE, GA.

LOCATION.--Lat 34°01'54", long 83°33'48", Jackson-Bartow County line, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 82, 1.7 mi downstream from Mulberry River, 3.2 mi upstream from Redstone Creek, and 3.2 mi south of Arcade.

DRAINAGE AREA.--340 mi².

PERIOD OF RECORD.--March 1987 to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 660 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: March 1-19, Sept. 1-10. Records good, except those for estimated daily discharges, which are fair to poor.

EXTREMES FOR CURRENT YEAR.--Maximum observed discharge during period March to September, 7,410 ft³/s, March 1, gage height 19.66 ft; minimum daily discharge, 34 ft³/s, Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						5600	686	250	176	142	74	36
2						5400	573	243	171	171	62	39
3						2000	554	236	160	290	71	36
4						1200	597	238	154	289	103	34
5						920	502	247	151	220	112	36
6						800	452	236	147	179	99	50
7						740	433	232	138	161	115	87
8						740	417	225	132	148	133	121
9						760	403	216	130	136	108	112
10						700	384	209	127	128	94	80
11						620	375	206	124	119	80	73
12						580	369	225	125	110	75	78
13						560	359	321	130	103	71	89
14						540	367	395	161	100	68	73
15						520	446	370	155	94	65	66
16						500	384	296	215	90	64	62
17						490	360	266	282	87	65	62
18						490	347	240	308	85	62	60
19						560	331	231	228	83	60	62
20						578	321	225	311	80	63	82
21						528	314	219	411	80	59	79
22						497	306	221	255	77	50	67
23						480	310	213	203	76	47	60
24						472	299	202	197	74	44	59
25						555	289	197	275	69	43	56
26						546	279	188	314	65	45	55
27						519	273	181	242	80	47	51
28						610	276	181	182	74	40	47
29						545	266	195	158	66	39	47
30						620	257	180	146	65	36	55
31						986	---	174	---	65	43	---
TOTAL						30656	11529	7248	5908	3606	2137	1914
MEAN						989	384	234	197	116	68.9	63.3
MAX						5600	686	395	411	290	133	121
MIN						472	257	174	124	65	36	34
CFSM						2.91	1.13	.69	.58	.34	.20	.19
IN.						3.35	1.26	.79	.65	.39	.23	.21

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 September 1902, January 1929 to March 1932, May 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 555.66 ft above 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.--No estimated daily discharges. Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey. Diversion upstream from station for municipal supply of Athens.

AVERAGE DISCHARGE.--53 years (water years 1902, 1930-31, 1938-87), 519 ft³/s, 17.71 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, 8.2 ft³/s, Aug. 8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Oct. 27	0300	3,970	9.94	Mar. 2	0530	*8,080	*15.81
Jan. 20	1000	5,430	12.46				

Minimum daily discharge, 28 ft³/s, Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	340	1110	432	564	6020	822	304	213	174	77	35
2	63	343	1540	432	548	6890	677	297	208	195	76	28
3	65	288	1160	397	592	2010	632	279	198	267	78	29
4	31	246	745	383	535	1130	682	311	187	412	108	29
5	49	230	598	375	493	919	613	310	199	297	146	29
6	54	232	513	363	491	795	555	306	191	261	111	66
7	34	250	486	361	681	719	520	297	161	223	137	99
8	39	259	456	352	746	726	510	287	164	194	172	189
9	38	224	437	348	578	743	495	281	144	179	139	141
10	78	218	447	363	516	704	474	272	143	161	125	107
11	125	212	521	367	498	615	466	257	148	142	90	84
12	137	221	672	348	479	587	460	275	149	159	73	97
13	252	243	560	359	463	557	448	363	164	135	77	109
14	722	221	498	355	447	534	448	443	164	118	75	96
15	419	225	469	360	440	519	529	475	200	117	75	76
16	232	256	445	377	461	501	491	408	246	122	75	72
17	169	266	423	393	492	488	449	354	340	101	71	90
18	136	255	454	1190	466	486	442	336	323	102	69	70
19	128	248	486	4470	451	564	418	292	327	94	88	85
20	100	304	439	4790	432	559	402	302	336	96	92	86
21	114	846	417	1520	429	512	400	272	526	93	97	105
22	98	525	394	1230	434	490	383	298	352	90	75	76
23	95	380	391	1270	463	469	378	260	264	79	56	71
24	96	360	1320	878	444	457	381	271	245	71	49	70
25	394	361	1780	886	418	512	370	244	272	72	41	53
26	2820	758	804	2140	421	532	364	247	381	81	42	48
27	2880	2840	590	1620	787	503	326	234	331	69	42	47
28	770	2020	532	924	3070	567	352	231	235	81	50	63
29	491	814	484	750	---	544	337	227	200	73	40	52
30	310	655	462	671	---	572	326	230	183	89	37	52
31	275	---	439	608	---	1020	---	213	---	78	37	---
TOTAL	11281	14640	20072	29312	16839	32244	14150	9176	7194	4425	2520	2254
MEAN	364	488	647	946	601	1040	472	296	240	143	81.3	75.1
MAX	2880	2840	1780	4790	3070	6890	822	475	526	412	172	189
MIN	31	212	391	348	418	457	326	213	143	69	37	28
CFSM	.92	1.23	1.63	2.38	1.51	2.61	1.19	.74	.60	.36	.20	.19
IN.	1.05	1.37	1.88	2.74	1.57	3.01	1.32	.86	.67	.41	.24	.21

CAL YR 1986	TOTAL	92365.9	MEAN 253	MAX 2880	MIN 8.2	CFSM .64	IN 8.63
WTR YR 1987	TOTAL	164107.0	MEAN 450	MAX 6890	MIN 28	CFSM 1.13	IN 15.34

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 intake, 0.3 mi north of the Athens city limits.

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
21...	1430	100	68	67	7.10	7.20	15.5	24.0	8.0	81
NOV										
19...	0700	250	72	70	6.90	7.10	13.0	5.0	6.6	83
DEC										
16...	1530	180	60	59	6.90	7.00	10.0	19.0	10.0	90
JAN										
21...	1600	--	42	39	7.10	6.70	6.5	11.5	10.4	86
FEB										
18...	1545	150	54	54	7.00	7.50	7.0	11.5	10.8	91
MAR										
11...	0800	560	52	48	7.10	7.00	9.0	4.5	9.6	84
APR										
15...	0745	130	58	56	7.00	7.00	17.0	20.5	7.9	84
MAY										
13...	1225	200	60	65	7.00	7.30	19.5	30.0	7.7	85
JUN										
10...	1500	135	64	65	7.20	7.40	25.0	35.0	7.2	89
JUL										
14...	1715	78	68	66	7.30	7.20	29.5	32.5	7.3	98
AUG										
12...	0745	68	75	72	7.20	7.40	26.0	24.5	6.6	83
SEP										
08...	1400	115	69	68	7.20	7.40	23.0	31.5	7.5	90

DATE	TUR- BID- ITY (NTU)	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)
OCT									
21...	11	0.8	330	27	<1	0.290	0.090	0.040	2.6
NOV									
19...	9.0	2.0	790	24	<1	0.320	0.080	0.030	3.4
DEC									
16...	15	0.9	220	20	6	0.560	0.100	0.030	2.1
JAN									
21...	100	1.6	--	10	34	0.640	0.070	0.060	4.4
FEB									
18...	13	1.1	230	20	<1	0.510	0.050	<0.020	3.1
MAR									
11...	19	1.0	<20	15	4	0.470	0.240	0.030	1.9
APR									
15...	14	2.0	1900	20	15	0.310	0.030	0.050	3.3
MAY									
13...	16	1.6	170	24	18	0.400	0.060	0.060	2.7
JUN									
10...	11	0.8	330	26	13	0.330	0.020	0.040	1.2
JUL									
14...	15	0.9	330	26	10	0.320	0.050	0.050	3.1
AUG									
12...	17	1.0	1300	28	15	0.270	0.100	0.030	3.3
SEP									
08...	21	2.0	1300	23	19	0.200	0.080	0.050	4.5

ALTAMAHA RIVER BASIN

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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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
21...	1330	--	102	99	7.10	7.10	14.5	23.0	8.6	85
NOV										
18...	1645	--	86	--	7.10	7.20	14.0	23.0	8.5	83
DEC										
16...	1430	1160	68	66	7.10	7.10	9.0	19.0	11.4	99
JAN										
21...	1445	--	46	42	7.00	6.80	6.5	7.0	11.6	96
FEB										
18...	1430	1100	64	62	7.00	7.30	7.5	11.5	11.6	98
MAR										
10...	1600	1880	55	52	7.10	6.80	11.5	10.0	10.7	99
APR										
14...	1550	940	63	61	7.10	7.10	18.0	22.5	8.7	93
MAY										
13...	1300	620	76	79	7.10	7.30	20.5	31.0	7.9	89
JUN										
10...	1400	285	90	88	7.00	7.30	26.0	35.0	6.8	85
JUL										
14...	1545	253	85	94	7.20	7.20	28.5	36.0	6.8	89
AUG										
11...	1400	205	95	96	6.70	7.20	30.0	35.0	6.5	88
SEP										
08...	1315	530	88	89	7.10	7.10	27.0	31.0	9.3	119

DATE	TUR- BID- ITY (NTU)	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)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT								
21...	29	12	1.8	700	22	30	1.37	0.280
NOV								
18...	--	7	1.5	170	23	16	0.900	0.300
DEC								
16...	16	6	1.1	1100	18	8	0.860	0.230
JAN								
21...	120	15	2.0	--	10	77	0.720	0.110
FEB								
18...	13	7	1.1	110	20	5	0.740	0.210
MAR								
10...	22	11	1.3	330	15	12	0.670	0.200
APR								
14...	8.0	8	1.6	490	18	4	0.710	0.100
MAY								
13...	14	6	1.1	110	20	--	0.980	0.230
JUN								
10...	8.0	11	5.0	130	21	10	1.48	0.140
JUL								
14...	10	6	1.2	490	22	<1	1.47	0.160
AUG								
11...	95	--	2.2	490	20	6	1.48	0.100
SEP								
08...	85	--	2.9	7900	18	88	1.03	0.090

ALTAMAHA RIVER BASIN

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
21...	0.52	0.80	2.2	0.280	3.5
NOV					
18...	0.20	0.50	1.4	0.170	4.7
DEC					
16...	0.07	0.30	1.2	0.120	2.0
JAN					
21...	0.49	0.60	1.3	0.110	5.2
FEB					
18...	0.0	0.20	0.94	0.100	2.8
MAR					
10...	0.10	0.30	0.97	0.110	2.8
APR					
14...	0.30	0.40	1.1	0.110	9.5
MAY					
13...	0.07	0.30	1.3	0.150	1.8
JUN					
10...	0.66	0.80	2.3	0.250	3.1
JUL					
14...	0.34	0.50	2.0	0.190	3.1
AUG					
11...	--	--	--	0.220	2.5
SEP					
08...	--	--	--	0.320	6.3

ALTAMAHA RIVER BASIN

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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 above National Geodetic Vertical Datum of 1929. Nov. 4, 1969 to July 21, 1977, crest-stage gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Some regulation at low flow from manipulation of Barnett Shoals Dam.

AVERAGE DISCHARGE.--10 years, 1,200 ft³/s, 17.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft³/s, Mar. 16, 1976, gage height, 22.11 ft; minimum daily discharge, 33 ft³/s, Aug. 26, 1986.

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 greater than base discharge 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)
Oct. 28	0400	6,170	13.74	Jan. 27	1400	4,950	12.58
Nov. 28	1900	5,290	12.91	Mar. 3	0200	*13,300	*18.84
Jan. 21	0600	9,880	16.65	Mar. 31	1000	4,760	12.38

Minimum daily discharge, 83 ft³/s, Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	908	2580	1310	1480	9780	2860	762	500	381	249	105
2	154	928	3150	1320	1470	12200	2190	726	487	422	207	100
3	135	800	3080	1100	1530	11900	1830	728	490	451	298	90
4	132	680	2250	986	1460	5930	1790	722	533	666	264	87
5	100	624	1630	938	1310	2600	1660	938	463	775	314	85
6	118	577	1330	886	1250	2100	1480	781	449	671	369	314
7	108	560	1150	883	1620	1880	1360	745	432	653	467	781
8	83	648	1050	823	1900	2000	1290	714	389	542	354	495
9	100	624	991	818	1630	2130	1240	681	392	437	372	432
10	143	571	1010	815	1390	1950	1180	647	371	410	318	323
11	259	575	1150	818	1280	1730	1140	644	355	354	277	264
12	262	702	1500	790	1230	1590	1120	649	398	333	253	247
13	327	654	1530	752	1190	1470	1080	696	403	351	195	264
14	2060	624	1300	740	1140	1420	1080	819	462	287	208	271
15	1500	632	1100	753	1110	1380	1240	932	472	283	204	265
16	915	666	1030	787	1130	1310	1370	913	508	271	196	223
17	581	687	980	845	1180	1260	1210	837	702	260	172	216
18	447	707	1020	1480	1160	1220	1110	730	710	241	177	214
19	363	638	1120	6390	1110	1350	1050	693	653	235	186	200
20	317	1140	1060	9360	1060	1410	994	660	721	229	335	254
21	297	1950	973	9050	1030	1310	976	667	1120	218	227	241
22	280	1830	917	5470	1040	1210	946	658	996	216	215	271
23	271	1370	925	4760	1140	1140	915	651	732	202	165	222
24	249	1030	1830	3090	1130	1100	921	622	571	201	143	201
25	430	944	3390	2550	1060	1330	904	609	536	207	131	190
26	2500	1260	2950	3970	1050	1390	853	558	732	187	127	173
27	4770	2740	1900	4740	1540	1480	835	552	738	177	128	166
28	5190	4780	1430	3410	4530	2210	795	565	690	167	123	160
29	1880	4140	1240	2180	---	1720	823	560	513	187	123	172
30	1050	2220	1130	1820	---	1920	795	537	439	689	108	166
31	735	---	1050	1640	---	4200	---	536	---	366	105	---
TOTAL	25884	36209	47746	75274	39150	85620	37037	21532	16957	11069	7010	7192
MEAN	835	1207	1540	2428	1398	2762	1235	695	565	357	226	240
MAX	5190	4780	3390	9360	4530	12200	2860	938	1120	775	467	781
MIN	83	560	917	740	1030	1100	795	536	355	167	105	85
CFSM	.89	1.28	1.64	2.58	1.49	2.94	1.31	.74	.60	.38	.24	.26
IN.	1.02	1.43	1.89	2.98	1.55	3.39	1.47	.85	.67	.44	.28	.28
CAL YR 1986	TOTAL	226432	MEAN	620	MAX	5190	MIN 33	CFSM .66	IN 8.96			
WTR YR 1987	TOTAL	410680	MEAN	1125	MAX	12200	MIN 83	CFSM 1.20	IN 16.25			

ALTAMAHA RIVER BASIN

02218500 OCONEE RIVER NEAR GREENSBORO, GA.

LOCATION.--Lat 33°34'52", long 83°16'22", Greene County, Hydrologic Unit 03070101, at bridge on U.S. Highway 278, 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 Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 16...	1315	68	65	7.10	7.00	10.0	15.0	10.2	91
MAR 10...	1500	53	52	7.00	6.70	11.0	10.0	10.0	92
JUN 10...	1300	78	81	8.20	8.40	30.5	34.0	7.9	107
SEP 08...	1140	90	94	8.50	7.90	27.0	31.5	9.3	119

DATE	TUR- BID- ITY (NTU)	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)
DEC 16...	23	1.6	490	19	0.790	0.110	0.090	2.3
MAR 10...	30	1.3	130	12	0.710	0.150	0.080	2.4
JUN 10...	5.0	1.3	<20	26	0.060	<0.020	0.060	15
SEP 08...	17	5.2	170	27	0.090	0.190	0.120	5.8

ALTAMAHA RIVER BASIN

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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.--July 1944 to December 1949, April 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 535 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good. Some regulation at low flow from manipulation of High Shoals Dam. AVERAGE DISCHARGE.--15 years (water years 1945-49, 1978-87), 241 ft³/s, 18.60 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft³/s, Jan. 6, 1946, gage height, 8.9 ft; minimum daily discharge 7.5 ft³/s, Aug. 10, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Jan. 20	0100	2,750	4.86	Mar. 1	1900	*2,850	*4.92

Minimum daily discharge, 19 ft³/s, Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	186	730	251	332	2680	466	131	86	109	68	29
2	26	202	827	195	295	1960	342	129	92	107	62	29
3	26	163	607	177	304	752	320	127	86	107	64	27
4	25	132	403	177	281	431	328	129	84	122	72	27
5	24	116	300	214	259	346	290	125	80	139	79	26
6	22	109	253	241	251	303	262	122	74	115	86	32
7	21	110	228	219	440	276	249	120	64	173	124	38
8	19	119	206	175	442	317	236	118	64	139	112	72
9	19	108	193	168	344	349	228	113	62	110	119	73
10	28	100	195	209	295	324	221	108	62	98	82	62
11	28	97	251	252	272	278	214	108	54	89	68	49
12	32	104	292	246	250	257	210	122	64	81	60	48
13	72	107	260	240	231	248	203	126	89	78	53	51
14	304	101	222	236	222	233	204	132	120	74	51	51
15	217	105	202	215	216	224	241	256	121	69	47	50
16	138	117	192	167	225	218	249	191	129	65	47	45
17	89	121	185	175	230	212	213	162	151	62	46	42
18	70	110	199	469	222	217	199	138	138	60	45	41
19	62	105	208	2190	216	256	189	129	115	59	46	40
20	55	239	195	2350	208	245	182	128	107	56	114	40
21	50	373	171	993	202	220	178	139	138	54	64	40
22	47	297	165	930	203	207	172	138	160	51	50	40
23	45	217	174	936	227	195	167	125	127	49	45	35
24	44	180	505	617	217	193	163	115	109	49	43	32
25	114	164	579	585	200	225	155	108	304	46	41	30
26	317	239	422	836	206	227	149	102	257	44	38	29
27	496	379	305	720	383	250	146	96	234	39	37	28
28	316	413	261	508	1320	348	144	100	153	58	38	27
29	180	279	262	437	---	286	141	105	126	56	35	27
30	135	334	277	419	---	389	135	95	114	119	33	29
31	114	---	266	385	---	698	---	89	---	76	32	---
TOTAL	3162	5426	9535	15932	8493	13364	6596	3926	3564	2553	1901	1189
MEAN	102	181	308	514	303	431	220	127	119	82.4	61.3	39.6
MAX	496	413	827	2350	1320	2680	466	256	304	173	124	73
MIN	19	97	165	167	200	193	135	89	54	39	32	26
CFSM	.58	1.03	1.75	2.92	1.72	2.45	1.25	.72	.68	.47	.35	.23
IN.	.67	1.15	2.02	3.37	1.80	2.82	1.39	.83	.75	.54	.40	.25

CAL YR 1986	TOTAL	39614.9	MEAN 109	MAX 827	MIN 7.5	CFSM .62	IN 8.37
WTR YR 1987	TOTAL	75641.0	MEAN 207	MAX 2680	MIN 19	CFSM 1.18	IN 15.99

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. Elevation of gage is 370 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Feb. 19, 1970 to Aug. 1, 1977, crest-stage gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 1-13, 17-25, Oct. 31-Nov. 1, July 15 to Aug. 3, and Aug. 12-26. Records good, except those for periods of estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--10 years, 221 ft³/s, 11.45 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s, Mar. 3, 1971, gage height, 24.4 ft; minimum measured discharge, 2.2 ft³/s, Aug. 8, 1986, but may have been less during the period of no gage height record, Aug. 2-8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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. 1	1900	2,950	10.49	Mar. 30	2400	*3,240	*11.17

Minimum daily discharge, 5.2 ft³/s, Oct. 8, but may have been less during the period of no gage height record, Oct. 1-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	12	982	444	252	2720	1400	99	56	52	23	13
2	10	47	1510	487	248	1980	728	95	54	50	25	12
3	10	71	1000	305	295	879	529	91	55	93	34	12
4	9.0	44	522	245	257	548	494	93	60	132	66	12
5	7.4	30	333	226	220	437	408	105	61	103	60	11
6	6.4	24	252	194	208	369	348	105	51	97	44	11
7	5.6	20	208	169	498	327	310	102	43	125	280	14
8	5.2	17	175	154	481	345	284	98	36	110	93	27
9	6.0	16	155	143	347	455	265	94	32	86	61	26
10	9.0	16	151	145	270	426	246	88	29	70	47	19
11	10	16	155	149	236	345	228	87	25	63	35	16
12	9.0	22	209	137	219	308	216	102	22	54	26	17
13	10	49	227	126	203	288	204	112	29	46	25	21
14	29	68	180	121	190	261	200	136	150	39	24	21
15	42	51	154	124	180	243	213	159	152	40	22	21
16	50	61	182	133	199	231	232	177	120	46	21	18
17	24	73	176	201	212	222	207	139	146	44	20	16
18	10	69	180	453	189	220	183	117	153	40	19	14
19	9.0	61	182	998	174	298	170	111	118	34	18	13
20	8.4	150	167	862	164	280	159	104	129	28	18	13
21	8.0	450	130	515	159	242	150	184	221	27	17	12
22	8.0	368	113	1280	249	221	143	152	167	25	15	11
23	8.0	184	131	1510	473	202	138	120	122	24	14	10
24	9.0	129	378	1050	352	192	134	104	99	26	13	9.5
25	10	108	487	711	270	245	126	94	96	30	11	8.7
26	30	114	330	992	299	293	120	85	136	24	10	8.2
27	57	185	242	821	839	465	114	77	115	23	25	7.9
28	44	185	197	502	1480	794	113	72	88	22	26	7.1
29	26	144	170	385	---	861	109	68	72	20	19	6.6
30	17	368	152	329	---	1610	102	65	59	21	15	7.7
31	11	---	140	287	---	2260	---	60	---	22	15	---
TOTAL	507.6	3152	9570	14198	9163	18567	8273	3295	2696	1616	1141	415.7
MEAN	16.4	105	309	458	327	599	276	106	89.9	52.1	36.8	13.9
MAX	57	450	1510	1510	1480	2720	1400	184	221	132	280	27
MIN	5.2	12	113	121	159	192	102	60	22	20	10	6.6
CFSM	.06	.40	1.18	1.75	1.25	2.29	1.05	.41	.34	.20	.14	.05
IN.	.07	.45	1.36	2.02	1.30	2.64	1.17	.47	.38	.23	.16	.06

CAL YR 1986	TOTAL	34675.9	MEAN	95.0	MAX	1510	MIN	2.2	CFSM	.36	IN	4.92
WTR YR 1987	TOTAL	72594.3	MEAN	199	MAX	2720	MIN	5.2	CFSM	.76	IN	10.31

ALTAMAHA RIVER BASIN

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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. Elevation of gage is 375 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Oct. 18-23, Apr. 20-June 5. Records good except for the period of estimated daily discharge, Oct. 18-23, Apr. 20-June 5, which are fair. Some diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--10 years, 158 ft³/s, 11.29 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,700 ft³/s, Apr. 9, 1983, gage height, 9.67 ft; minimum daily discharge 2.1 ft³/s, Aug. 6, 1986.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 2	0145	*1,960	*4.72

Minimum daily discharge, 6.6 ft³/s, Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	28	755	332	174	1840	1010	87	43	61	23	16
2	13	54	1030	360	165	1650	419	86	42	59	27	15
3	13	41	536	203	185	524	316	84	42	71	27	15
4	13	34	252	164	166	309	314	83	41	82	68	13
5	12	31	178	164	154	239	247	90	41	83	84	13
6	11	29	143	143	146	204	217	92	37	77	46	16
7	9.5	29	123	129	548	182	199	85	34	130	65	22
8	8.5	29	112	121	460	205	187	82	32	77	61	31
9	10	30	105	114	280	285	177	78	30	65	47	24
10	15	30	104	113	219	248	167	73	28	59	48	19
11	27	29	102	117	193	202	161	71	27	53	36	16
12	23	32	119	105	175	183	154	80	26	49	30	19
13	24	45	136	98	155	178	150	90	27	45	29	27
14	62	39	113	94	145	165	148	87	197	42	28	28
15	67	38	104	94	140	154	154	86	124	40	24	22
16	36	51	100	101	150	147	155	86	107	51	23	18
17	25	58	95	142	159	141	145	82	116	51	22	16
18	22	59	96	274	143	139	139	77	99	46	22	14
19	20	53	100	761	135	263	134	74	82	39	20	15
20	19	94	91	568	130	249	130	71	101	32	19	15
21	18	255	86	322	126	193	127	95	135	30	19	17
22	18	150	82	956	153	168	122	90	128	28	17	13
23	18	97	84	1220	323	153	116	73	100	28	14	10
24	18	78	247	837	250	145	114	66	83	27	13	8.9
25	23	72	304	506	200	179	109	63	226	33	12	8.2
26	38	75	196	878	200	200	105	59	258	28	11	7.6
27	45	115	158	588	704	222	100	57	122	26	20	7.2
28	31	97	138	318	1230	568	100	54	88	25	22	7.4
29	26	91	123	252	---	400	97	51	72	23	17	6.6
30	25	212	115	219	---	541	91	48	65	22	15	9.7
31	23	---	106	197	---	1440	---	46	---	24	19	---
TOTAL	725.0	2075	6033	10490	7208	11716	5804	2346	2553	1506	928	469.6
MEAN	23.4	69.2	195	338	257	378	193	75.7	85.1	48.6	29.9	15.7
MAX	67	255	1030	1220	1230	1840	1010	95	258	130	84	31
MIN	8.5	28	82	94	126	139	91	46	26	22	11	6.6
CFSM	.12	.36	1.03	1.78	1.35	1.99	1.02	.40	.45	.26	.16	.08
IN.	.14	.41	1.18	2.05	1.41	2.29	1.14	.46	.50	.29	.18	.09
CAL YR 1986	TOTAL	26545.4	MEAN	72.7	MAX	1180	MIN	2.1	CFSM	.38	IN	5.20
WTR YR 1987	TOTAL	51853.6	MEAN	142	MAX	1840	MIN	6.6	CFSM	.75	IN	10.15

ALTAMAHA RIVER BASIN

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.

LOCATION.--Lat 33°05'22", long 83°12'56", Baldwin County, Hydrologic Unit 03070101, on right bank at 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, and at mile 139.1.

DRAINAGE AREA.--2,950 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1903 to current year.

REVISED RECORDS.--WSP 1142: 1928(M). WSP 1504: 1903-4, 1908, 1912-13, 1914(M), 1915-17. WSP 1554: Drainage area. GAGE.--Water recorder. Datum of gage is 230.84 ft above 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.--No estimated daily discharges. 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.--84 years, 3,306 ft³/s, 15.22 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 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, 39,700 ft³/s, Mar. 1, gage height, 29.02 ft; minimum daily discharge, 403 ft³/s, Nov. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	422	413	7420	4760	3920	29500	9230	1470	750	1240	461	429		
2	421	410	7990	6340	4420	20300	7560	1180	1060	750	462	427		
3	422	405	9130	6270	6740	15600	7550	1000	751	1340	461	426		
4	423	407	7900	6490	5290	12900	7530	1630	990	1200	462	425		
5	422	407	4920	5520	4130	7620	7490	2580	798	2060	460	428		
6	418	408	2350	4250	2800	7030	6680	1200	465	2100	459	430		
7	417	412	2460	2250	4160	5060	4030	1440	466	2390	462	426		
8	420	409	2620	1770	5160	5320	3580	1510	837	1040	463	422		
9	429	408	2760	1830	7490	7540	3960	1100	750	1240	463	419		
10	428	407	3390	2190	6480	7490	2870	911	456	763	505	416		
11	426	405	4080	2480	2610	5710	2380	1310	737	479	586	417		
12	418	404	4140	2520	2420	3020	2680	1080	724	476	601	419		
13	438	403	3820	1750	2390	3430	2400	1040	748	473	598	416		
14	438	884	2540	1350	2830	2520	2450	3340	1460	469	523	416		
15	419	892	2030	1990	3380	2550	2580	1190	1720	747	448	414		
16	412	842	1770	1900	3420	3970	3430	2360	2550	520	450	414		
17	410	1900	2250	2570	4040	3950	2030	1410	2730	477	450	413		
18	408	1440	2210	4590	2540	3350	2670	2070	1840	531	522	417		
19	407	1150	2290	7940	2720	5020	2860	1770	1950	653	530	423		
20	407	4920	2720	12600	2440	4660	2640	2150	1710	500	472	424		
21	407	7490	1840	12800	2530	2200	2350	2070	3830	486	447	418		
22	405	2340	3880	21700	2610	2610	2280	952	4030	497	444	416		
23	407	2310	3540	12200	2610	3140	2030	474	3990	494	442	415		
24	412	2150	4500	10800	3400	2930	2080	467	2180	494	442	415		
25	417	2760	6740	7760	3440	4300	875	1330	2000	517	441	415		
26	412	3930	4840	12000	4310	3040	1420	1030	2290	470	444	414		
27	409	4160	4380	6260	6390	4370	1390	479	3350	471	446	413		
28	405	4690	4100	10100	16200	6850	2610	933	1080	499	433	468		
29	404	6190	2720	6280	---	7520	2230	716	1010	492	427	481		
30	407	6270	3440	3920	---	8100	1200	1100	1270	488	435	545		
31	411	---	2460	3920	---	24300	---	1010	---	462	435	---		
TOTAL	12901	59616	121230	189100	120870	225910	105065	42302	48522	24818	14674	12821		
MEAN	416	1987	3911	6100	4317	7287	3502	1365	1617	801	473	427		
MAX	438	7490	9130	21700	16200	29500	9230	3340	4030	2390	601	545		
MIN	404	403	1770	1350	2390	2200	875	467	456	462	427	413		
MEANT	1242	1916	4199	6139	4414	7375	3094	1345	1637	694	346	281		
CFSMT	.42	.65	1.42	2.08	1.50	2.50	1.05	.46	.55	.24	.12	.10		
INT	.49	.72	1.64	2.40	1.56	2.88	1.17	.53	.62	.27	.14	.11		
CAL YR 1986	TOTAL	480865	MEAN	1317	MAX	9130	MIN	403	MEANT	1325	CFSMT	.45	INT	6.10
UTR YR 1987	TOTAL	977829	MEAN	2679	MAX	29500	MIN	403	MEANT	2721	CFSMT	.92	INT	12.53

+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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
21...	1045	406	82	81	7.20	7.60	20.0	17.0	7.8	85
NOV										
18...	1415	414	85	85	7.10	7.20	19.0	27.5	7.4	80
DEC										
16...	1200	1890	82	77	7.20	7.00	13.5	16.0	9.0	86
JAN										
21...	1230	16900	75	69	7.10	7.20	10.0	6.5	10.2	91
FEB										
18...	1145	3700	64	62	6.80	7.30	9.5	9.0	10.4	91
MAR										
10...	1315	7500	56	54	7.10	7.00	11.0	12.0	10.8	99
APR										
14...	1350	3180	56	55	7.00	6.70	15.0	22.0	8.7	87
MAY										
14...	1130	6140	58	58	6.80	6.90	20.5	25.5	5.3	59
JUN										
10...	1115	459	60	58	6.90	7.00	25.0	32.0	5.1	62
JUL										
14...	1315	468	62	60	7.00	6.90	29.5	37.0	7.8	103
AUG										
11...	1130	595	69	67	6.70	7.10	31.0	34.0	6.7	91
SEP										
08...	0930	419	73	72	7.30	7.30	28.5	27.5	8.0	104

DATE	TUR- BID- ITY (NTU)	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)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
OCT										
21...	1.0	0.5	40	27	<0.020	0.070	<0.020	3.4	2700	150
NOV										
18...	4.0	0.4	<20	25	<0.020	0.120	0.030	4.2	120	<10
DEC										
16...	10	1.0	40	23	0.150	0.060	0.050	3.0	790	55
JAN										
21...	30	1.6	--	20	0.360	0.050	0.030	3.3	1400	80
FEB										
18...	23	1.0	65	17	0.460	0.040	0.030	5.5	1500	45
MAR										
10...	25	1.1	80	14	0.460	0.130	0.070	2.5	1800	50
APR										
14...	17	0.9	20	14	0.350	0.060	0.030	2.7	3100	75
MAY										
14...	22	1.1	7900	16	0.340	0.470	0.050	4.9	1100	30
JUN										
10...	9.0	1.4	65	16	0.230	0.040	<0.020	3.5	700	85
JUL										
14...	5.0	1.4	2300	17	0.170	0.060	0.030	3.9	340	55
AUG										
11...	4.0	0.8	80	20	0.050	0.050	<0.020	2.8	340	150
SEP										
08...	5.0	1.9	330	18	0.050	0.150	<0.020	3.5	340	160

ALTAMAHA RIVER BASIN

02223040 OCONEE RIVER NEAR HARDWICK, GA.

LOCATION.--Lat 33°01'45", long 83°11'24", Baldwin County, Hydrologic Unit 03070102, at public boat ramp 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
21...	1000	410	88	88	7.10	7.30	20.0	17.0	8.0	88
NOV										
18...	1330	414	90	88	6.90	7.10	18.5	27.5	7.8	84
DEC										
16...	1100	432	84	80	7.20	7.10	13.5	15.5	9.2	88
JAN										
21...	1145	7960	75	70	6.90	7.20	10.0	6.5	9.8	87
FEB										
18...	1100	450	68	67	7.00	7.30	9.5	9.0	10.6	93
MAR										
10...	1245	7500	57	55	7.00	7.00	11.0	17.0	10.1	92
APR										
14...	1320	497	60	59	7.00	6.90	16.0	22.0	8.6	87
MAY										
14...	1100	502	59	61	6.90	--	21.0	24.0	7.0	78
JUN										
10...	1030	459	66	63	6.80	7.00	24.5	32.0	5.8	70
JUL										
14...	1230	468	70	68	6.90	7.00	29.5	35.0	7.3	96
AUG										
11...	1000	600	77	76	6.70	7.10	30.0	27.5	6.6	88
SEP										
08...	0900	427	78	78	7.20	7.30	27.5	25.0	7.0	89

DATE	TUR- BID- ITY (NTU)	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								
21...	3.0	1.2	490	28	0.060	0.150	0.120	3.6
NOV								
18...	5.0	1.2	140000	27	0.040	0.150	0.060	4.2
DEC								
16...	13	1.0	1300	25	0.180	0.130	0.180	2.8
JAN								
21...	42	2.5	--	20	0.370	0.050	0.040	3.1
FEB								
18...	22	1.2	2300	20	0.420	0.070	0.050	4.7
MAR								
10...	25	1.4	3300	14	0.420	0.150	0.050	2.5
APR								
14...	16	0.9	330	15	0.340	0.080	0.040	2.6
MAY								
14...	29	1.2	<20	16	0.340	0.090	0.100	4.9
JUN								
10...	9.0	1.2	330	18	0.280	0.080	0.060	3.5
JUL								
14...	4.0	1.3	330	19	0.170	0.120	0.070	3.2
AUG								
11...	5.0	1.7	4300	21	0.090	0.150	0.070	3.8
SEP								
08...	5.0	2.4	3300	22	0.080	0.170	0.070	4.6

ALTAMAHA RIVER BASIN

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02223250 OCONEE RIVER NEAR TOOMSBORO, GA.

LOCATION.--Lat 32°46'54", Long 82°57'30", Wilkinson-Washington County line, Hydrologic Unit 03070102, at Balls Ferry Bridge on State Highway 57, 3.2 mi downstream from 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 18...	1245	1880	102	104	6.80	7.10	18.0	27.0	7.6	81
JAN 28...	1230	15000	65	63	7.00	6.70	7.0	12.5	11.5	95
MAR 10...	1200	11000	60	57	7.00	6.90	11.0	14.5	9.8	89
MAY 14...	1000	1350	95	98	6.80	7.10	22.0	23.0	7.5	85
JUL 14...	1120	680	112	112	7.10	7.20	30.5	36.0	6.7	90
SEP 08...	1550	530	162	166	7.20	7.50	25.0	32.0	7.7	93

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)
NOV 18...	100	27	1.3	33000	25	0.180	0.150	0.100	5.6
JAN 28...	80	34	1.0	1700	12	0.320	0.040	0.040	5.7
MAR 10...	110	34	1.3	460	13	0.400	0.140	0.170	3.1
MAY 14...	60	23	1.3	700	15	0.510	0.130	0.120	3.5
JUL 14...	10	5.0	1.5	80	22	0.250	0.070	0.060	6.7
SEP 08...	5	6.0	2.0	130	20	0.460	0.330	0.070	6.0

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.

PERIOD OF RECORD.--January 1894 to September 1897 (gage heights only), October 1897 to current year. 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 above 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, April 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.--Estimated daily discharges: Nov. 18 to Dec. 9. Records good, except those for the period of estimated daily discharges, Nov. 18 to Dec. 9, which are fair. 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 and continuous water temperature record collected October 1963 to September 1964 and June 1979 to September 1983 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--90 years (water years 1898-1987), 4,956 ft³/s, 15.30 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 greater than base discharge 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)
Jan. 26	0500	25,500	21.65	Mar. 5	0100	*30,700	*23.60

Minimum daily discharge, 504 ft³/s, Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	673	588	7500	5930	11900	12900	13400	2580	1100	1820	632	770
2	659	610	8100	9070	8760	15100	14300	2020	1070	1970	604	726
3	637	632	8800	10500	7670	21400	17300	2020	886	2180	588	662
4	606	637	9500	10900	8450	29200	18500	1750	1050	1830	620	633
5	597	637	10000	11400	8620	30300	16800	1670	888	2150	639	622
6	567	637	10400	11300	7740	28100	14700	2550	1060	2150	625	633
7	567	632	10100	10100	7690	24100	12900	2650	952	2620	616	650
8	563	628	8500	7770	8440	19800	11000	1920	706	2720	622	641
9	590	628	5200	5340	9310	16100	7960	1970	637	2580	613	617
10	701	614	5150	4450	9910	13300	6350	1890	796	1790	598	604
11	659	601	5220	3870	10600	12200	5710	1520	784	1690	578	813
12	678	601	5490	4110	9410	11800	4760	1450	623	1260	613	671
13	682	601	5940	4350	6350	10300	4400	1960	746	949	764	648
14	678	593	5950	3690	5110	7600	4390	1990	937	836	892	630
15	767	643	4970	3020	4860	6340	4510	3040	1370	777	1010	609
16	784	863	3850	3300	5580	5420	4730	3200	2330	730	884	590
17	731	1210	3290	4040	6560	5610	5240	2630	3130	852	719	571
18	689	1700	3100	5130	6840	6140	4550	2670	4510	743	658	560
19	660	2200	3260	9570	6520	6340	4020	2490	4070	679	624	553
20	630	2300	3300	13600	5620	7160	4220	2390	3390	687	678	558
21	605	3600	3260	14700	5220	8310	4230	2420	2960	736	680	595
22	589	6400	2990	16600	4910	6990	3770	2590	3650	659	620	594
23	588	5900	3640	18600	5600	5510	3440	2300	5070	624	582	574
24	586	3900	5090	20300	5930	5450	3470	1520	5190	628	559	550
25	596	3300	5770	24000	5860	5440	3150	1050	4330	645	553	532
26	613	3200	7770	25000	6310	6190	2710	942	3410	645	574	523
27	622	3800	7610	22400	7400	6860	1960	1450	4580	646	618	517
28	609	4900	6580	19400	9860	7160	2240	1310	5000	614	576	508
29	595	5400	5890	17200	---	9500	2750	891	3810	609	560	504
30	593	6800	4860	15700	---	12200	3060	1100	2170	620	568	544
31	584	---	4280	14300	---	12900	---	958	---	624	600	---
TOTAL	19698	64755	185360	349640	207030	375720	210520	60891	71205	38063	20067	18202
MEAN	635	2159	5979	11280	7394	12120	7017	1964	2374	1228	647	607
MAX	784	6800	10400	25000	11900	30300	18500	3200	5190	2720	1010	813
MIN	563	588	2990	3020	4860	5420	1960	891	623	609	553	504

CAL YR 1986	TOTAL	729019	MEAN	1997	MAX	11400	MIN	468	MEAN†	2005	CFSM†	.46	INT†	6.19
WTR YR 1987	TOTAL	1621151	MEAN	4442	MAX	30300	MIN	504	MEAN†	4484	CFSM†	1.02	INT†	13.84

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

ALTAMAHA RIVER BASIN

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

LOCATION.--Lat 32°29'05", long 82°51'45", Laurens County, 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
14...	1240	678	175	175	7.20	7.50	22.5	28.0	5.8	67
NOV										
18...	1130	1540	130	129	6.70	--	18.0	27.0	7.8	83
DEC										
09...	1240	4570	89	88	7.10	7.00	13.5	19.5	6.8	65
JAN										
28...	1100	19500	63	61	6.80	6.70	6.5	6.5	11.4	93
FEB										
10...	1500	10000	65	68	7.20	6.90	8.5	13.5	9.5	80
MAR										
10...	1030	13400	60	57	6.90	6.70	12.0	18.5	8.8	82
10...	1325	13200	60	58	7.00	6.60	12.0	12.0	7.4	69
APR										
14...	1200	4180	73	70	7.10	7.00	18.0	22.5	7.3	77
MAY										
14...	0900	2030	100	105	6.90	7.00	22.0	23.0	7.4	84
JUN										
22...	1325	3480	85	84	7.20	7.00	26.0	25.0	4.6	57
JUL										
14...	1000	846	131	117	7.00	7.00	30.0	31.5	5.8	77
AUG										
11...	1725	571	140	142	7.30	7.20	33.0	30.5	7.2	102
SEP										
08...	1340	643	148	159	7.30	7.20	25.0	31.0	7.8	94

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT									
14...	15	5.0	--	1.1	--	29	3	0.420	0.140
NOV									
18...	20	14	--	0.9	2300	25	32	0.250	0.220
DEC									
09...	30	22	--	1.2	50	22	30	0.170	0.100
JAN									
28...	90	26	--	0.7	50	13	18	0.290	<0.020
FEB									
10...	85	35	--	1.2	790	13	47	0.380	0.050
MAR									
10...	100	28	--	1.2	230	14	26	0.310	0.160
10...	90	27	--	1.1	330	14	13	0.320	0.100
APR									
14...	70	19	--	1.0	330	16	23	0.330	0.120
MAY									
14...	70	23	--	1.1	1700	20	25	0.430	0.040
JUN									
22...	50	21	--	1.6	7000	18	36	0.270	0.120
JUL									
14...	20	6.0	--	1.1	7800	22	2	0.240	0.120
AUG									
11...	15	5.0	11	1.5	20	19	<1	0.280	0.070
SEP									
08...	5	5.0	12	1.4	90	21	8	0.540	0.190

ALTAMAHA RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
14...	--	--	--	0.100	3.3
NOV					
18...	--	--	--	0.190	6.8
DEC					
09...	--	--	--	0.060	4.8
JAN					
28...	--	--	--	0.040	5.7
FEB					
10...	--	--	--	0.060	7.7
MAR					
10...	--	--	--	0.060	4.4
10...	--	--	--	0.040	4.2
APR					
14...	--	--	--	0.070	3.4
MAY					
14...	--	--	--	0.080	7.4
JUN					
22...	--	--	--	0.090	2.3
JUL					
14...	--	--	--	0.110	5.1
AUG					
11...	0.43	0.50	0.78	0.090	4.0
SEP					
08...	0.21	0.40	0.94	0.090	4.8

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 1986 TO SEPTEMBER 1987

				STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)		
DATE		TIME											
MAR 10...		0830	186		51	52	6.90	6.83	12.5	9.1	87		
JUL 13...		0800	9.4		97	104	7.30	7.90	26.5	5.0	63		
DATE		COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB 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)	ALKA- LINITY LAB (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
MAR 10...		65	--	17	5	5.0	1.2	2.5	22	0.3	1.2	12	2.9
JUL 13...		65	5.7	44	6	15	1.5	2.8	12	0.2	0.90	38	3.7
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 CONSTITU- ENTS, 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)
MAR 10...		8.4	5.7	<0.10	5.3	44	37	22	0.06	0.800	1.70	0.050	0.050
JUL 13...		8.5	5.8	0.20	10	79	69	2.0	0.11	1.30	0.690	0.050	0.050
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 10...		1.2	1.0	1.2	1.1	2.0	--	0.040	0.010	7.1	160	<1	<1
JUL 13...		0.55	0.55	0.60	0.60	1.9	--	0.060	0.040	5.5	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)	
MAR 10...		1	<10	2	400	6	<5	29	0.40	0.2	<1	31	
JUL 13...		<1	<10	2	1100	21	<5	110	<0.10	<0.1	<1	23	

ALTAMAHA RIVER BASIN

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 above National Geodetic Vertical Datum of 1929. Aug. 13, 1949, to June 30, 1951, nonrecording gage at site 400 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Feb. 13-16, 18-23, Mar. 4-7, 10, 11, 21, 22, 24, 25, Mar. 30 to Apr. 2, Apr. 4, 12, June 23-28, July 2-7, 9-11, 31, Aug. 1-4, 18-20, Sept. 1. Records good, except those for periods of estimated discharge, which are fair.

AVERAGE DISCHARGE.--18 years (water years 1950, 1971-87), 11,523 ft³/s, 13.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,500 ft³/s, Mar. 12, 1971, gage height, 22.7 ft; minimum daily, 1,620 ft³/s, July 21, 1986.

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 greater than base discharge 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. 8	1700	33,900	15.87	Mar. 12	unknown	52,000	18.45
Jan. 28	1100	*52,600	*18.50	Apr. 10	0800	31,100	15.40

Minimum daily discharge, 1,860 ft³/s, Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2390	2830	10400	15400	46400	21600	21500	6890	4390	10200	2600	2270
2	2270	3390	11400	16500	44400	26200	23600	6870	4210	8900	2620	2400
3	2210	3280	12500	18600	42700	32700	25400	6570	4080	8160	2660	2620
4	2160	3330	13200	21200	40700	38200	26400	6180	4000	8100	2770	2770
5	2110	3240	13700	26000	37900	40800	27200	5940	3900	8400	2670	2740
6	2050	3080	14200	30200	34500	40900	27500	5680	3730	8600	2600	2820
7	2000	2950	14700	32700	31700	41900	28800	5450	3620	8500	2620	2900
8	1960	2860	15200	33700	30200	44600	30200	5710	3540	8210	2680	2900
9	1900	2790	15800	33200	29500	48100	30600	6030	3470	8200	2720	2780
10	1860	2780	16200	31900	28700	51400	31000	5750	3290	8100	2720	2690
11	1890	2780	16300	29900	27400	51600	31100	5610	3130	8000	2720	2650
12	1940	2760	16800	27200	26100	52000	29300	5590	3100	7980	2770	2710
13	2020	2720	18200	23700	25500	49400	25900	5570	3120	7580	2850	3160
14	2040	2690	19500	20900	25100	45800	22100	5330	3160	6880	2880	3280
15	2060	2690	20500	18900	24700	41700	18700	5480	3370	6150	2950	2960
16	2080	2670	20700	17100	24500	37700	16500	5830	3540	5400	3060	2840
17	2120	2760	20000	16300	23300	33200	14900	6490	3850	4750	3170	2810
18	2170	3160	18100	17300	23200	28400	13900	7170	4520	4210	3210	2770
19	2220	3740	15900	18900	23800	24100	13300	7150	5580	3860	3090	2710
20	2280	4060	14500	20400	24300	21900	12600	7240	6960	3640	2930	2600
21	2300	4650	13800	22400	24100	21300	11700	7130	7760	3420	2830	2480
22	2300	5430	13500	26500	23500	20800	11100	7060	7960	3240	2730	2390
23	2260	6310	13400	33100	22800	20500	10800	7090	8030	3120	2640	2340
24	2240	7550	13800	40800	22100	20500	10200	8110	8370	3040	2560	2310
25	2210	8420	14700	47200	21500	20100	9410	9330	9220	3040	2500	2260
26	2200	8500	16100	50700	20900	19000	8820	9180	9470	2860	2440	2210
27	2180	8200	16900	52000	20300	18100	8340	7450	9650	2810	2380	2170
28	2170	8130	16900	52300	20100	17800	7840	6000	9490	2740	2320	2150
29	2160	8610	16500	52000	---	17700	7270	5450	10100	2690	2260	2100
30	2170	9530	16100	51000	---	18900	7030	5080	10400	2620	2250	2120
31	2210	---	15500	48800	---	19900	---	4640	---	2600	2240	---
TOTAL	66130	135890	485000	946800	789900	986800	563010	199050	169010	176000	83440	77910
MEAN	2133	4530	15650	30540	28210	31830	18770	6421	5634	5677	2692	2597
MAX	2390	9530	20700	52300	46400	52000	31100	9330	10400	10200	3210	3280
MIN	1860	2670	10400	15400	20100	17700	7030	4640	3100	2600	2240	2100
CFSM	.18	.39	1.35	2.63	2.43	2.74	1.62	.55	.49	.49	.23	.22
IN.	.21	.44	1.56	3.04	2.53	3.16	1.81	.64	.54	.56	.27	.25
CAL YR 1986 TOTAL	2234910	MEAN	6123	MAX	26900	MIN	1620	CFSM	.53	IN	7.17	
WTR YR 1987 TOTAL	4678940	MEAN	12820	MAX	52300	MIN	1860	CFSM	1.11	IN	15.00	

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 microsiemens Oct. 9, 1972; minimum recorded, 24 microsiemens Feb. 28, March 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
15...	0855	2070	178	173	7.80	7.90	22.0	25.5	6.6	75
NOV										
12...	0715	2780	156	153	7.60	7.60	21.5	19.5	5.1	57
DEC										
10...	0840	16200	83	82	6.60	6.90	12.0	18.5	6.7	62
JAN										
21...	0820	22000	56	52	6.70	6.60	10.5	8.0	--	--
FEB										
11...	0925	27500	57	59	6.90	6.50	9.5	12.5	9.7	84
MAR										
10...	1745	50800	52	50	6.80	6.70	13.0	10.0	7.4	70
APR										
14...	1630	21200	74	70	7.00	7.10	19.5	24.5	6.6	72
MAY										
13...	0620	5660	108	111	--	7.60	23.0	20.0	2.3	27
JUN										
23...	0920	8030	98	96	7.40	7.30	27.0	25.0	5.0	63
JUL										
08...	0650	8280	94	95	7.20	7.20	29.0	24.5	6.6	86
AUG										
12...	0905	2750	143	146	8.50	8.20	29.0	29.5	3.8	--
SEP										
09...	1000	2770	149	154	7.30	7.70	24.0	28.0	7.3	87

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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									
15...	10	8.0	1.1	<20	48	0.620	<0.020	0.100	2.7
NOV									
12...	15	6.0	2.4	65	41	0.580	0.080	0.100	5.4
DEC									
10...	90	26	1.8	110	16	0.160	0.040	0.070	8.7
JAN									
21...	80	20	1.3	--	14	0.200	0.030	0.050	7.9
FEB									
11...	80	17	2.2	55	12	0.220	0.020	0.040	5.8
MAR									
10...	110	20	1.2	20	13	0.160	0.100	0.040	5.1
APR									
14...	75	11	0.8	50	20	0.160	0.060	0.050	5.8
MAY									
13...	40	18	0.5	50	32	0.630	0.040	0.140	2.1
JUN									
23...	65	19	0.5	110	22	0.460	0.150	0.080	8.0
JUL									
08...	70	13	0.9	--	24	0.260	0.130	0.070	10
AUG									
12...	10	5.0	2.2	<20	41	<0.020	0.040	0.160	1.6
SEP									
09...	25	14	1.5	--	41	0.520	0.080	0.090	5.3

ALTAMAHA RIVER BASIN

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 Ohoopsee, and 1.6 mi upstream of Ohoopsee 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 11...	1240	21	69	63	6.40	6.60	21.0	26.0	3.8	42
JAN 20...	1410	1330	38	35	5.60	5.20	12.0	11.0	--	--
MAR 10...	1615	1130	32	30	5.70	5.70	14.0	10.5	7.1	69
MAY 12...	1145	23	50	46	--	6.20	20.0	26.5	5.9	65
JUL 07...	1035	275	53	42	5.50	5.20	26.0	29.5	5.6	69
SEP 09...	0605	76	66	65	6.50	6.60	21.0	22.0	6.9	77

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)
NOV 11...	95	<1.0	1.9	140	10	<0.020	0.130	0.060	13
JAN 20...	100	4.0	1.8	170	2.0	0.040	0.040	0.030	11
MAR 10...	80	4.0	0.9	170	4.0	0.020	0.090	0.040	14
MAY 12...	110	5.0	1.2	490	6.0	0.220	0.040	0.090	13
JUL 07...	45	5.0	1.7	170	2.0	0.010	0.030	0.040	17
SEP 09...	110	9.0	2.3	110	12	0.090	0.140	0.210	20

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 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.

PERIOD OF RECORD.--April 1903 to December 1907, April 1937 to current year. Monthly discharge only for April to June 1903, April to May 1937, published in WSP 1304.

REVISED RECORDS.--WSP 822: Drainage area. WSP 892: 1938(M). WSP 1504: 1905. WDR GA-84-1: 1983.

GAGE.--Water-stage recorder. Datum of gage is 73.8 ft above 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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--54 years (water years, 1904-07, 1938-87), 995 ft³/s, 12.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft³/s, Mar. 6, 1966, gage height, 23.34 ft; minimum daily discharge, 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 greater than base discharge 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)
Jan. 7	0300	6,080	14.80	Feb. 12	2000	4,250	12.91
Jan. 25	0400	*14,400	*19.62	Mar. 4	0900	10,300	17.77

Minimum daily discharge, 33 ft³/s, Oct. 8 and 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	118	954	2660	4010	4150	3370	367	109	562	110	213
2	47	117	1040	2970	3600	6420	3440	325	103	436	94	315
3	44	103	1090	3180	3350	8770	3460	287	99	376	85	450
4	41	85	1120	3460	3150	10100	3510	254	100	417	85	371
5	38	75	1140	4660	2980	9490	3440	228	408	518	81	395
6	36	67	1190	5740	2860	8190	3190	216	462	670	83	371
7	34	62	1260	6010	2930	6620	2890	218	309	818	119	332
8	33	58	1330	5800	3150	5400	2610	221	182	862	115	309
9	34	54	1350	5340	3460	4720	2320	211	132	782	99	304
10	47	51	1320	4750	3770	4350	2050	198	110	660	90	322
11	44	49	1400	4300	4030	4080	1830	186	98	603	87	315
12	40	48	1680	3900	4200	3880	1660	191	90	480	102	355
13	40	46	2020	3460	4100	3710	1500	367	86	365	98	407
14	46	44	2080	3040	3730	3530	1360	640	111	279	90	665
15	50	44	2140	2730	3250	3310	1250	692	434	214	85	916
16	50	44	2300	2570	2980	3050	1190	642	578	171	83	897
17	49	91	2420	2780	2990	2790	1130	580	507	140	81	739
18	50	116	2340	3290	3290	2560	1070	589	432	120	81	543
19	49	105	2150	3700	3480	2390	1010	544	350	107	79	387
20	48	138	1970	4030	3640	2290	950	445	321	98	78	299
21	46	236	1830	4590	3750	2280	895	430	343	91	86	247
22	44	351	1660	6310	3700	2360	837	357	296	87	88	220
23	42	440	1540	9850	3690	2490	773	283	303	80	85	204
24	40	484	1680	13100	3640	2500	704	262	360	79	84	195
25	39	587	1930	14100	3520	2430	636	234	373	90	80	187
26	38	803	2070	12500	3360	2540	569	200	380	84	75	167
27	37	827	2210	10400	3330	2900	517	174	582	77	71	148
28	35	771	2490	8360	3440	2770	494	155	728	73	69	133
29	33	778	2670	6670	---	2520	459	139	726	154	68	119
30	39	820	2620	5350	---	2620	409	127	689	179	69	115
31	45	---	2500	4550	---	3020	---	117	---	154	88	---
TOTAL	1308	7612	55494	174150	97380	128230	49523	9879	9801	9826	2688	10640
MEAN	42.2	254	1790	5618	3478	4136	1651	319	327	317	86.7	355
MAX	50	827	2670	14100	4200	10100	3510	692	728	862	119	916
MIN	33	44	954	2570	2860	2280	409	117	86	73	68	115
CFSM	.04	.23	1.61	5.06	3.13	3.73	1.49	.29	.30	.29	.08	.32
IN.	.04	.26	1.86	5.84	3.26	4.30	1.66	.33	.33	.33	.09	.36

CAL YR 1986	TOTAL	262321	MEAN	719	MAX	7030	MIN	22	CFSM	.65	IN	8.79
WTR YR 1987	TOTAL	556531	MEAN	1525	MAX	14100	MIN	33	CFSM	1.37	IN	18.65

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 30...	1235	1940	160	157	--	7.70	20.5	23.0	--	--
NOV 18...	1200	2870	140	140	7.50	7.30	18.0	22.0	8.8	94
DEC 17...	1120	27500	71	66	6.50	6.50	14.5	20.0	--	--
JAN 07...	1200	40800	50	47	6.50	6.70	7.5	16.0	9.8	82
FEB 19...	1200	32400	65	56	6.80	6.90	10.5	15.0	9.4	83
MAR 11...	1330	63400	50	52	6.70	6.80	13.0	10.0	8.0	76
APR 20...	1145	18000	80	73	6.90	6.90	19.0	27.0	6.7	72
MAY 14...	1045	6300	98	105	7.10	7.60	24.0	26.0	7.1	85
JUN 17...	1250	4120	124	122	7.70	7.60	29.5	33.0	7.4	97
JUL 14...	1030	8490	87	85	7.00	7.10	30.0	--	5.7	75
AUG 18...	1030	3190	134	--	7.60	7.30	29.5	32.5	8.1	106
SEP 22...	1050	2930	132	140	7.20	7.40	23.0	27.0	7.8	91

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)	TANNIN AND LIGNIN (MG/L)
OCT 30...	20	6.0	1.0	110	45	10	0.480	0.060	0.100	2.7	<0.50
NOV 18...	25	9.0	0.4	490	35	19	0.580	0.100	0.090	6.6	0.60
DEC 17...	110	15	1.3	140	11	5	0.090	0.040	0.050	10	1.4
JAN 07...	120	15	1.3	270	7.0	12	0.130	0.050	0.080	11	4.9
FEB 19...	90	13	1.1	130	14	8	0.170	0.050	0.030	7.4	1.3
MAR 11...	95	17	0.6	20	12	2	0.160	0.160	0.030	6.6	1.0
APR 20...	85	10	1.2	110	23	8	0.240	0.080	0.050	10	0.70
MAY 14...	45	17	0.9	50	31	20	0.460	0.080	0.110	4.1	<0.50
JUN 17...	25	7.0	1.0	80	34	4	0.490	0.030	0.100	2.1	<0.50
JUL 14...	80	14	1.0	20	24	10	0.350	0.050	0.090	7.7	0.80
AUG 18...	15	7.0	2.8	<20	41	<1	0.020	<0.020	0.080	6.2	1.6
SEP 22...	30	10	0.7	420	37	1	0.210	0.070	0.290	6.9	0.60

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 above National Geodetic Vertical Datum of 1929. Prior to Sept. 5, 1934, nonrecording gage, and Sept. 5, 1934 to Sept. 30, 1975, water-stage recorder at same site at datum 4.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Records of chemical analyses for the water years 1967-77 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--56 years, 13,697 ft³/s, 13.68 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 greater than base discharge 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. 10	1100	48,600	12.27	Mar. 13	0200	67,200	13.20
Jan. 28	1700	*75,600	*13.58	Apr. 11	1000	36,900	11.52

Minimum discharge, 1,820 ft³/s, Oct. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2390	2010	10200	24700	67900	29800	25600	8010	5190	11800	3010	2390
2	2310	2410	11100	24700	64500	29400	26700	7650	4830	11900	2980	2450
3	2190	3220	12000	24500	60600	30900	28500	7430	4600	11500	2930	2680
4	2110	3420	12900	25800	56900	37200	30500	7160	4440	10700	2890	3020
5	2070	3410	13900	30800	53700	46700	32500	6800	4490	10000	2880	3290
6	2030	3320	14900	35500	51600	52100	34000	6490	4450	9980	2820	3320
7	1990	3160	15700	40700	48500	53500	34700	6210	4490	10200	2770	3330
8	1960	2970	16400	45700	44800	54100	35000	5950	4360	10100	2750	3390
9	1910	2800	17000	47800	42000	56000	35400	5930	4120	9900	2780	3400
10	1880	2670	18000	48300	40000	59800	36100	6150	3930	9610	2810	3330
11	1830	2600	19100	47300	39000	63500	36700	6090	3720	9380	2840	3180
12	1830	2580	20800	45200	38200	66000	36600	5940	3520	9200	2820	3120
13	1870	2550	22200	42600	37100	66500	35900	6050	3420	8920	2850	3200
14	1970	2470	23700	39500	35800	64900	34300	6310	3420	8450	2890	3520
15	1990	2400	25500	36000	34700	61300	31800	6400	3440	7820	2930	3870
16	1960	2370	26900	32500	34400	56300	28500	6590	3650	7000	3000	3900
17	1940	2780	27500	29800	33800	50900	25100	6930	4100	6230	3110	3880
18	1930	2880	27900	27900	33200	45700	22100	7220	4480	5490	3190	3790
19	1960	3170	27700	26900	32300	41300	19800	7730	4880	4850	3200	3610
20	2000	3750	27000	27400	31900	36900	17900	7910	5540	4380	3120	3380
21	2060	4230	25000	29000	32500	32800	16600	7920	6510	4080	2980	3140
22	2100	4690	22700	31900	33300	29600	15500	7790	7440	3810	2860	2930
23	2100	5420	20900	35400	34100	27700	14300	7700	8140	3610	2750	2770
24	2050	6200	19900	41900	34200	26500	13400	7580	8340	3440	2660	2660
25	2000	7140	19400	52500	33800	26400	12800	7900	8520	3360	2580	2580
26	1960	8080	19500	63000	32900	26000	12000	8650	9090	3310	2510	2510
27	1930	8680	20100	70800	31700	25700	11100	9130	10200	3160	2460	2440
28	1890	8980	21300	74800	30400	25200	10100	8660	10900	3060	2400	2360
29	1870	9100	22300	75200	---	24700	9240	7210	11100	3210	2350	2300
30	1930	9510	23000	73700	---	24700	8550	6190	11400	3080	2320	2250
31	1950	---	23200	71100	---	25000	---	5630	---	3050	2390	---
TOTAL	61960	128970	627700	1322900	1143800	1297100	731290	219310	176710	214580	86830	91990
MEAN	1999	4299	20250	42670	40850	41840	24380	7075	5890	6922	2801	3066
MAX	2390	9510	27900	75200	67900	66500	36700	9130	11400	11900	3200	3900
MIN	1830	2010	10200	24500	30400	24700	8550	5630	3420	3050	2320	2250
CFSM	.15	.32	1.49	3.14	3.00	3.08	1.79	.52	.43	.51	.21	.23
IN.	.17	.35	1.72	3.62	3.13	3.55	2.00	.60	.48	.59	.24	.25
CAL YR 1986	TOTAL	2847060	MEAN	7800	MAX	41600	MIN	1670	CFSM	.57	IN	7.79
WTR YR 1987	TOTAL	6103140	MEAN	16720	MAX	75200	MIN	1830	CFSM	1.23	IN	16.69

ALTAMAHA RIVER BASIN

02226010 ALTAMAHA 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
30...	1205	1880	260	279	--	7.70	20.5	23.0	--	--
NOV										
18...	1130	2910	240	241	7.40	7.40	18.0	22.0	7.7	82
DEC										
17...	1045	27300	76	74	6.70	6.50	14.0	19.5	--	--
JAN										
07...	1130	37400	55	52	6.50	6.30	8.0	16.0	9.8	83
FEB										
19...	1110	32800	67	64	6.80	6.90	10.5	17.5	9.3	83
MAR										
11...	1300	61900	51	49	6.70	6.90	13.0	10.0	8.2	78
APR										
20...	1040	18800	95	88	7.00	6.90	19.0	28.0	6.7	72
MAY										
14...	1030	6230	140	148	7.00	7.40	24.0	26.0	6.7	80
JUN										
17...	1040	3850	196	198	--	7.60	29.5	30.0	6.4	84
JUL										
14...	1000	8730	90	88	7.00	7.00	31.0	--	5.6	75
AUG										
18...	1000	3170	218	--	8.00	--	29.5	32.5	6.2	81
SEP										
22...	0940	3050	240	255	7.40	7.30	22.0	24.0	6.0	68

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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 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)
OCT									
30...	110	6.0	27	1.7	20	59	10	0.450	0.130
NOV									
18...	90	11	22	1.0	790	46	20	0.530	0.130
DEC									
17...	110	16	36	1.6	40	14	5	0.080	0.070
JAN									
07...	110	15	33	1.3	140	8.0	14	0.120	0.050
FEB									
19...	80	12	--	1.2	70	15	7	0.160	0.060
MAR									
11...	95	16	5	1.1	50	11	5	0.150	0.120
APR									
20...	95	10	28	1.1	80	25	3	0.210	0.070
MAY									
14...	75	17	17	1.1	20	33	22	0.430	0.080
JUN									
17...	65	7.0	17	1.6	<20	45	--	0.360	<0.020
JUL									
14...	60	14	22	0.7	<20	22	12	0.260	<0.020
AUG									
18...	120	14	--	2.1	20	--	<1	0.140	0.020
SEP									
22...	110	10	--	1.3	<20	48	16	0.300	0.140

02226010 ALTAMAHA RIVER NEAR GARDI, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT 30...	0.37	0.50	0.95	0.100	8.9	2.1
NOV 18...	0.27	0.40	0.93	0.090	10	2.4
DEC 17...	0.13	0.20	0.28	0.070	11	1.7
JAN 07...	0.35	0.40	0.52	0.060	13	5.6
FEB 19...	--	--	--	0.030	7.4	1.0
MAR 11...	0.18	0.30	0.45	0.060	6.7	1.1
APR 20...	0.33	0.40	0.61	0.090	9.1	1.1
MAY 14...	0.22	0.30	0.73	0.120	5.1	0.80
JUN 17...	--	0.50	0.86	0.060	3.3	1.1
JUL 14...	--	0.80	1.1	0.070	8.0	0.90
AUG 18...	--	--	--	0.170	14	2.2
SEP 22...	--	--	--	0.350	12	2.1

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 above National Geodetic Vertical Datum of 1929. Since May 6, 1966, auxiliary water-stage recorder at highway bridge, 2.5 mi downstream.

REMARKS.--Estimated daily discharges: Oct. 1-17, Dec. 7 to Jan. 29, and July 29-31. Records good, except those below 20 ft³/s, which are fair, and those for period of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--29 years, 196 ft³/s, 12.66 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 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. 6	unknown	*1,700	*12.13	Apr. 1	1300	1,140	11.16

Minimum daily discharge, no flow on several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.15	118	390	595	897	1130	.45	.06	2.1	.32	1.4
2	.00	.12	150	460	527	939	1100	.21	.04	1.3	.25	15
3	.00	.10	186	580	554	891	972	.10	.01	.76	.58	39
4	.00	.08	204	620	582	820	812	.06	.01	1.6	2.7	68
5	.00	.07	201	940	584	731	647	.05	.06	1.7	2.4	101
6	.00	.06	178	1600	680	615	508	.27	.04	2.8	1.9	123
7	.00	.06	145	1600	910	510	392	.31	.02	3.0	1.1	129
8	.00	.06	140	1500	1070	472	317	.15	.00	4.6	.55	130
9	.00	.06	140	1100	1110	458	262	.08	.00	8.1	.21	140
10	.00	.06	140	800	1040	467	212	.02	.00	23	.09	132
11	.00	.07	190	640	912	460	175	.00	.00	31	.06	113
12	.00	.08	260	520	772	423	145	.00	.00	21	.05	102
13	.00	.06	450	460	648	361	119	.60	.01	10	.05	101
14	.00	.03	600	390	542	313	97	14	.16	4.5	.42	101
15	.00	.03	820	330	459	278	84	30	2.5	1.8	2.9	97
16	.00	.03	880	330	480	246	71	22	1.1	.87	8.6	90
17	.00	.15	680	380	665	213	59	14	.32	.38	13	77
18	.00	.152	540	470	806	185	50	8.6	.23	.17	14	72
19	.00	.130	450	520	904	185	42	9.0	.11	.08	12	61
20	.00	.78	370	580	860	187	35	8.8	.05	.01	6.8	51
21	.00	.110	310	640	799	192	29	20	.02	.00	3.1	42
22	.00	.133	270	760	816	189	23	25	.02	.00	1.4	34
23	.00	.130	260	1000	1040	171	18	10	2.0	.00	.68	28
24	.00	.112	290	1200	1210	147	13	6.4	8.9	.00	.31	22
25	.00	.89	370	1200	1250	203	9.1	3.8	5.3	.00	.15	17
26	.00	.67	450	1100	1170	279	6.0	2.0	2.4	.00	.06	12
27	.00	.50	520	1000	1060	300	4.0	1.0	5.1	.00	.00	8.9
28	.00	.41	580	940	934	323	2.6	.56	9.8	.00	.00	6.6
29	.00	.45	520	860	---	354	1.5	.28	7.9	.00	.00	5.2
30	.05	.71	430	774	---	553	.84	.13	3.7	.00	.00	5.5
31	.13	---	350	682	---	960	---	.08	---	.35	.02	---
TOTAL	.18	1224.12	11192	24366	22979	13322	7336.04	177.95	49.86	119.12	73.70	1924.6
MEAN	.006	40.8	361	786	821	430	245	5.74	1.66	3.84	2.38	64.2
MAX	.13	152	880	1600	1250	960	1130	30	9.8	31	14	140
MIN	.00	.03	118	330	459	147	.84	.00	.00	.00	.00	1.4
CFSM	.0000	.19	1.72	3.74	3.91	2.05	1.17	.03	.008	.02	.01	.31
IN.	.00	.22	1.98	4.32	4.07	2.36	1.30	.03	.01	.02	.01	.34

CAL YR 1986	TOTAL	48201.82	MEAN 132	MAX 2380	MIN .00	CFSM .63	IN 8.54
WTR YR 1987	TOTAL	82764.57	MEAN 227	MAX 1600	MIN .00	CFSM 1.08	IN 14.66

02226100 PENHOLLOWAY CREEK NEAR JESUP, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
MAR 11...	1100	461	64	57	4.10	4.27	12.0	7.1	66
JUL 14...	1000	4.5	72	66	4.04	4.30	26.5	4.7	58

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB 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 11...	320	3.6	5	0	1.1	0.60	3.5	58	0.7	0.30	<1.0	0
JUL 14...	500	0.70	6	0	1.3	0.66	4.6	60	0.8	0.60	<1.0	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 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
MAR 11...	20	7.6	<0.10	5.5	79	--	98	0.11	<0.100	<0.100	0.060	0.060
JUL 14...	27	9.2	<0.10	8.2	126	--	1.5	0.17	0.200	0.140	0.110	0.100

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 11...	1.1	0.94	1.2	1.0	--	--	0.020	0.020	35	850	<1	<1
JUL 14...	1.7	1.5	1.8	1.6	2.0	--	0.020	0.020	52	1100	<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 11...	<1	<10	4	710	5	<5	9	--	--	<1	14
JUL 14...	<1	<10	2	1800	13	<5	19	0.40	0.3	<1	31

ALTAMAHA RIVER BASIN

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 Altamaha Park, 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 February 1986.

pH: November 1969 to February 1986.

WATER TEMPERATURE: October 1969 to February 1986.

DISSOLVED OXYGEN: April 1970 to February 1986.

REMARKS.--Laboratory chemical analyses with the analyzing agency codes 80020 and 84213 are provided by the U.S. Geological Survey. Laboratory chemical analyses with the analyzing agency code 81341 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity is by the U.S. Geological Survey. Discharge is obtained from gaging station 02226000, Altamaha River at Doctortown, Ga. Prior to 1978, water-quality samples for the National stream-quality accounting network, the Radiochemical program, and the National Pesticide water-monitoring program were collected at, and published for, the Altamaha River at Doctortown, Ga. (station number 02226000).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 321 microsiemens Oct. 7, 1981; minimum recorded, 32 microsiemens 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, 12.5 mg/L Jan. 28, 1985; minimum recorded, 2.7 mg/L Oct. 8, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
OCT							
30...	1000	81341	1860	260	254	--	7.60
NOV							
18...	0830	80020	2750	225	222	7.30	7.40
18...	0840	81341	2750	225	221	7.30	7.30
DEC							
17...	0805	81341	26800	--	80	6.40	6.40
JAN							
07...	0900	80020	35100	57	71	6.50	6.49
07...	0910	81341	35100	57	62	6.50	6.40
FEB							
19...	0850	81341	33400	67	66	6.80	7.00
MAR							
11...	0830	80020	59200	54	56	6.80	6.78
11...	0835	81341	59200	54	53	6.80	6.80
APR							
20...	0815	81341	20100	86	79	7.00	6.90
MAY							
14...	0730	80020	5920	134	135	7.20	7.90
14...	0745	81341	5920	134	138	7.20	7.30
JUN							
17...	0820	81341	3570	202	203	7.40	7.50
JUL							
14...	0730	80020	9000	97	100	7.10	8.10
14...	0740	81341	9000	97	96	7.10	6.90
AUG							
18...	0730	80020	3080	239	256	7.66	8.50
18...	0740	81341	3080	239	227	7.70	7.70
SEP							
22...	0740	81341	3180	210	226	7.40	7.20

ALTAMAHA RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CAC03)	ALKA- LINITY LAB (MG/L AS CAC03)
OCT								
30...	81341	20.0	17.0	--	--	--	--	53
NOV								
18...	80020	18.0	24.5	8.4	90	52	43	44
18...	81341	18.0	24.5	8.4	90	--	--	41
DEC								
17...	81341	12.5	13.0	--	--	--	--	12
JAN								
07...	80020	8.0	9.0	9.2	78	10	8.0	--
07...	81341	8.0	9.0	9.2	78	--	--	9.0
FEB								
19...	81341	10.0	8.5	9.1	80	--	--	14
MAR								
11...	80020	13.0	7.0	8.1	77	13	11	11
11...	81341	13.0	7.0	8.1	77	--	--	12
APR								
20...	81341	19.0	23.0	6.8	73	--	--	21
MAY								
14...	80020	23.5	25.5	6.2	73	40	33	59
14...	81341	23.5	25.5	6.2	73	--	--	33
JUN								
17...	81341	28.0	27.5	5.9	75	--	--	44
JUL								
14...	80020	30.0	29.0	5.1	67	31	26	27
14...	81341	30.0	29.0	5.1	67	--	--	25
AUG								
18...	80020	29.5	25.0	5.4	70	64	53	54
18...	81341	29.5	25.0	5.4	70	--	--	50
SEP								
22...	81341	22.5	20.5	5.5	63	--	--	43

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	COLOR (PLAT- INUM- COBALT UNITS)	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 (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CAC03
OCT									
30...	81341	100	6.0	1.5	80	--	--	--	--
NOV									
18...	80020	--	8.8	--	--	380	700	42	0
18...	81341	75	9.0	1.1	1200	--	--	--	--
DEC									
17...	81341	120	15	1.4	790	--	--	--	--
JAN									
07...	80020	--	12	--	--	--	210	15	7
07...	81341	120	10	1.1	230	--	--	--	--
FEB									
19...	81341	100	12	1.1	130	--	--	--	--
MAR									
11...	80020	--	17	--	--	35	29	13	2
11...	81341	110	14	1.4	80	--	--	--	--
APR									
20...	81341	110	10	0.7	20	--	--	--	--
MAY									
14...	80020	--	4.3	--	--	22	67	50	17
14...	81341	95	19	1.0	20	--	--	--	--
JUN									
17...	81341	70	8.0	1.2	20	--	--	--	--
JUL									
14...	80020	--	14	--	--	20	78	28	2
14...	81341	95	11	2.6	70	--	--	--	--
AUG									
18...	80020	--	3.7	--	--	25	63	39	0
18...	81341	40	5.0	2.1	<20	--	--	--	--
SEP									
22...	81341	110	10	1.0	20	--	--	--	--

ALTAMAHA RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
NOV 18...	80020	13	2.3	28	57	2	2.6	4.1
JAN 07...	80020	4.1	1.2	6.7	46	0.8	1.6	5.0
MAR 11...	80020	3.8	0.94	4.4	38	0.5	1.8	3.3
MAY 14...	80020	11	5.4	8.1	26	0.5	1.3	4.0
JUL 14...	80020	8.5	1.6	8.2	37	0.7	1.8	3.9
AUG 18...	80020	12	2.2	32	62	2	2.7	2.2

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
NOV 18...	80020	130	140	965	0.18	31	22	0.20	12
JAN 07...	80020	59	50	5590	0.08	14	7.2	<0.10	8.9
MAR 11...	80020	53	40	8470	0.07	11	4.9	<0.10	6.4
MAY 14...	80020	88	76	1410	0.12	5.7	2.8	0.60	21
JUL 14...	80020	77	66	1870	0.10	12	7.5	0.10	11
AUG 18...	80020	148	140	1230	0.20	34	18	0.10	12

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA 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 30...	81341	--	0.420	--	0.150	--	--	--	0.100	--	--	7.5
NOV 18...	80020	<0.010	--	0.530	0.030	0.060	0.77	0.80	0.110	0.070	0.040	--
NOV 18...	81341	--	0.510	--	0.110	--	--	--	0.110	--	--	8.7
DEC 17...	81341	--	0.050	--	0.080	--	--	--	0.050	--	--	13
JAN 07...	80020	<0.010	--	0.160	0.040	0.050	0.76	0.80	0.030	0.010	<0.010	--
JAN 07...	81341	--	0.080	--	0.080	--	--	--	0.030	--	--	--
FEB 19...	81341	--	0.140	--	0.050	--	--	--	0.040	--	--	15
MAR 11...	80020	0.010	--	0.200	0.020	0.040	2.6	2.6	0.040	0.010	<0.010	--
MAR 11...	81341	--	0.120	--	0.110	--	--	--	0.040	--	--	8.2
APR 20...	81341	--	0.130	--	0.050	--	--	--	0.050	--	--	6.9
MAY 14...	80020	0.020	--	<0.100	0.040	0.060	0.56	0.60	0.020	0.010	0.020	--
MAY 14...	81341	--	0.510	--	0.080	--	--	--	0.240	--	--	3.6
JUN 17...	81341	--	0.280	--	<0.020	--	--	--	0.050	--	--	9.2
JUL 14...	80020	<0.010	--	0.440	0.050	0.070	0.75	0.80	0.090	0.040	0.020	--
JUL 14...	81341	--	0.280	--	<0.020	--	--	--	0.070	--	--	9.0
AUG 18...	80020	<0.010	--	0.200	0.040	0.070	0.86	0.90	0.100	0.040	0.020	--
AUG 18...	81341	--	0.020	--	0.040	--	--	--	0.090	--	--	5.6
SEP 22...	81341	--	0.270	--	0.090	--	--	--	0.330	--	--	13

ALTAMAHA RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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...	80020	60	<1	33	<0.5	<1	<1	<3	2	210	12
JAN 07...	80020	370	<1	28	<0.5	5	<1	<3	2	390	<5
MAY 14...	80020	40	<1	27	<0.5	<1	<1	<3	<1	330	<5
AUG 18...	80020	60	<1	19	<0.5	<1	<1	<3	2	130	<5

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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...	80020	4	65	1.0	<10	5	<1	<1	59	<6	64
JAN 07...	80020	<4	35	1.0	<10	2	<1	<1	22	<6	22
MAY 14...	80020	<4	81	<0.1	<10	<1	<1	<1	96	<6	<3
AUG 18...	80020	<4	74	0.3	<10	1	1	<1	56	<6	12

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 18...	0835	84213	2750	18.0	20	149	--
JAN 07...	0905	84213	35100	8.0	22	2080	--
MAR 11...	0840	84213	59200	13.0	40	6390	--
JUL 14...	0735	84213	9000	30.0	25	607	80
AUG 18...	0735	84213	3080	29.5	21	175	57

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
NOV 18...	0830	80020	2750	<0.4	0.6	3.4	0.7	2.9	0.7	0.04	0.55
MAY 14...	0730	80020	5920	0.6	0.5	2.6	0.7	2.3	0.7	0.02	0.04

LAKES AND RESERVOIRS IN ALTAMAHA RIVER BASIN

02210000 LLOYD SHOALS RESERVOIR NEAR JACKSON, GA.

LOCATION.--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.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company.)

REMARKS.--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 Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	521.8	73300	-	-
Oct. 31.....	525.5	87000	+13700	+223
Nov. 30.....	525.6	87000	0	0
Dec. 31.....	522.4	75400	-11600	-189
CAL YR 1986	-	-	+1000	+1
Jan. 31.....	527.7	96200	+20800	+338
Feb. 28.....	528.2	98400	+2200	+40
Mar. 31.....	527.9	97000	-1400	-23
Apr. 30.....	528.9	102000	+5000	+84
May 31.....	528.3	98800	-3200	-52
June 30.....	528.4	99300	+500	+8
July 31.....	527.3	94400	-4900	-80
Aug. 31.....	525.8	88200	-6200	-101
Sept. 30.....	523.9	80600	-7600	-128
WTR YR 1987	-	-	+7300	+10

02220450 LAKE OCONEE NEAR EATONTON, GA.

LOCATION.--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.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company.)

REMARKS.--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 1986 TO SEPTEMBER 1987

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	432.5	315500	-	-
Oct. 31.....	435.1	361800	+46300	+753
Nov. 30.....	435.2	363600	+1800	+30
Dec. 31.....	435.6	370800	+7200	+117
CAL YR 1986	-	-	0	0
Jan. 31.....	435.4	367200	-3600	-59
Feb. 28.....	435.2	363600	-3600	-65
Mar. 31.....	435.5	369000	+5400	+88
Apr. 30.....	435.4	367200	-1800	-30
May 31.....	435.5	369000	+1800	+29
June 30.....	435.4	367200	-1800	-30
July 31.....	434.7	354600	-12600	-205
Aug. 31.....	434.6	352800	-1800	-29
Sept. 30.....	434.2	345600	-7200	-121
WTR YR 1987	-	-	+30100	+42

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

02222500 SINCLAIR RESERVOIR NEAR MILLEDGEVILLE, GA.

LOCATION.--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.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--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 Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	338.1	305500	-	-
Oct. 31.....	338.4	310000	+4500	+73
Nov. 30.....	338.0	304000	-6000	-101
Dec. 31.....	338.7	314500	+10500	+171
CAL YR 1986	-	-	+6000	+8
Jan. 31.....	339.1	320500	+6000	+98
Feb. 28.....	339.7	329500	+9000	+162
Mar. 31.....	339.7	329500	0	0
Apr. 30.....	338.2	307000	-22500	-378
May 31.....	338.0	304000	-3000	-49
June 30.....	338.2	307000	+3000	+50
July 31.....	338.6	313000	+6000	+98
Aug. 31.....	338.2	307000	-6000	-98
Sept. 30.....	338.1	305500	-1500	-25
WTR YR 1987	-	-	0	0

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

SATILLA RIVER BASIN

02226475 SATILLA RIVER AT WALTERTOWN, GA.

LOCATION.--Lat 31°18'17", Long 82°23'33", Ware County, Hydrologic Unit 03070201, at county highway bridge at Walthertown, 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 15...	1100	10	51	49	6.00	6.00	23.5	24.0	5.9	69
NOV 12...	0915	58	68	67	6.10	6.30	23.0	24.5	4.1	47
DEC 10...	1030	1050	67	64	5.20	5.10	12.0	22.0	5.9	54
JAN 21...	1055	6600	43	40	4.90	4.80	12.0	8.5	--	--
FEB 11...	1200	3900	41	41	5.10	4.80	11.0	18.0	7.2	64
MAR 11...	1105	3450	37	34	5.30	5.10	13.5	13.5	7.0	67
APR 15...	0850	858	48	44	5.70	5.60	19.5	21.5	5.2	57
MAY 13...	0840	39	54	51	--	6.00	23.0	23.0	5.7	66
JUN 23...	1145	24	43	39	5.90	6.00	29.0	26.5	7.1	93
JUL 08...	0850	413	48	46	5.00	4.80	27.0	27.0	6.2	78
AUG 12...	0850	13	--	42	6.10	5.90	28.5	28.0	5.5	--
SEP 09...	1120	275	50	51	4.80	4.90	23.0	32.0	6.9	81

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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 15...	110	5.0	1.5	110	4.0	0.050	0.060	0.070	14
NOV 12...	95	4.0	2.5	130	6.0	0.050	0.090	0.070	14
DEC 10...	140	5.0	2.5	490	3.0	<0.020	0.040	0.050	24
JAN 21...	150	5.0	1.2	--	1.0	0.090	0.030	0.030	21
FEB 11...	160	4.0	1.2	<20	2.0	0.080	0.030	0.030	24
MAR 11...	170	3.0	1.1	50	3.0	0.030	0.140	0.030	18
APR 15...	180	5.0	1.5	<20	5.0	0.090	0.110	0.080	20
MAY 13...	120	5.0	0.6	330	7.0	0.150	0.040	0.110	12
JUN 23...	110	2.0	0.6	2300	4.0	0.050	0.100	0.040	3.3
JUL 08...	160	5.0	1.5	--	2.0	0.050	0.090	0.050	28
AUG 12...	110	11	1.4	150	3.0	0.090	0.040	0.090	12
SEP 09...	200	8.0	1.8	50	3.0	0.050	0.110	0.080	30

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.--April 1937 to current year.

REVISED RECORDS.--WSP 952: 1939. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 66.43 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1952, nonrecording gage at site 300 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--50 years, 1,054 ft³/s, 11.93 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 greater than base discharge 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)
Dec. 17	1900	6,170	15.82	Feb. 26	2000	7,650	16.44
Jan. 9	0300	7,910	16.54	Apr. 5	0200	4,370	14.90
Jan. 23	2400	*8,500	*16.76				

Minimum discharge, 24 ft³/s, July 28.

REVISIONS.--Revised figures of discharge for water year 1986, superseding those published in the report for 1986 are given below, and on the following page.

EXTREMES FOR WATER YEAR 1986.--Peak discharges greater than base discharge 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)
Dec. 1	1000	2,900	13.56	Feb. 13	1600	*21,900	*20.03
Jan. 18	2000	4,830	15.18	Mar. 20	1300	4,150	14.85
Jan. 17	0100	3,280	13.98				

Minimum discharge, 9.8 ft³/s, Aug. 11, 12.

SATILLA RIVER BASIN

02226500 SATILLA RIVER NEAR WAYCROSS, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	1010	2890	1060	920	2780	778	54	20	27	14	971
2	69	1290	2790	1070	857	2500	680	51	20	24	19	1280
3	74	1550	2510	1120	796	2200	597	47	19	23	16	1470
4	62	1790	2250	1240	740	1900	526	44	18	21	28	1510
5	125	1920	2100	1590	716	1650	466	42	19	20	34	1500
6	237	1920	2020	1820	979	1440	413	40	19	19	20	1340
7	168	1770	1990	1960	1660	1280	369	38	19	19	17	1120
8	117	1500	1950	2040	2680	1160	331	36	18	18	15	913
9	105	1190	1850	2070	6920	1060	296	34	17	16	13	743
10	85	920	1670	2200	11900	966	263	32	28	15	11	651
11	81	718	1440	2630	16900	889	235	31	29	14	10	622
12	78	578	1220	2850	20800	827	211	42	39	14	11	628
13	93	484	1460	2930	21800	817	191	36	35	13	24	605
14	87	420	2730	3010	21500	1250	174	33	40	12	42	551
15	80	380	3330	3150	20300	1830	159	31	40	12	24	501
16	72	346	3630	3250	17500	2370	147	29	29	12	69	445
17	77	317	4230	3260	14100	2930	134	28	25	12	144	374
18	62	292	4750	3160	11100	3530	123	30	23	12	145	311
19	57	272	4730	2960	8830	4000	114	29	27	12	117	296
20	53	269	4480	2660	7010	4120	106	28	29	11	99	291
21	50	321	4210	2320	5500	4000	109	27	28	12	90	254
22	47	364	3870	1960	4440	3650	102	26	28	14	87	209
23	51	485	3480	1640	3930	3220	92	24	27	11	75	178
24	50	666	3080	1390	3570	2800	86	23	25	11	89	151
25	46	869	2630	1220	3330	2410	81	23	32	11	115	128
26	44	1100	2120	1130	3200	2070	76	21	40	16	109	108
27	169	1480	1710	1080	3120	1750	71	21	37	32	94	92
28	769	1950	1430	1040	3000	1490	67	21	30	24	119	79
29	714	2380	1260	1010	---	1260	62	20	27	27	230	69
30	605	2680	1130	991	---	1060	57	20	30	28	304	62
31	736	---	1050	970	---	906	---	20	---	18	608	---
TOTAL	5135	31231	79990	60781	218098	64115	7116	981	817	530	2792	17452
MEAN	166	1041	2580	1961	7789	2068	237	31.6	27.2	17.1	90.1	582
MAX	769	2680	4750	3260	21800	4120	778	54	40	32	608	1510
MIN	44	269	1050	970	716	817	57	20	17	11	10	62
CFSM	.14	.87	2.15	1.63	6.49	1.72	.20	.03	.02	.01	.08	.48
IN.	.16	.97	2.48	1.88	6.76	1.98	.22	.04	.02	.01	.09	.54
CAL YR 1985	TOTAL	219590	MEAN	602	MAX	4750	MIN 15	CFSM	.50	IN	6.81	
WTR YR 1986	TOTAL	489038	MEAN	1340	MAX	21800	MIN 10	CFSM	1.12	IN	15.16	

SATILLA RIVER BASIN

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02226500 SATILLA RIVER NEAR WAYCROSS, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	37	751	4910	5010	6760	2660	156	67	184	74	56
2	51	35	827	4690	4520	6130	3060	138	65	163	69	74
3	47	36	923	4420	4280	5480	3680	123	57	145	64	91
4	40	34	1010	4480	3960	5060	4250	109	111	126	56	73
5	36	34	1120	5270	3780	5030	4330	98	134	121	50	70
6	33	34	1210	6380	3810	5410	4130	90	78	166	48	165
7	30	34	1300	7300	3930	5750	3820	82	57	374	45	314
8	30	33	1350	7760	4100	5710	3450	78	46	483	43	344
9	49	32	1330	7890	4280	5270	3060	71	41	490	43	298
10	67	31	1370	7780	4460	4700	2620	66	37	487	37	262
11	45	31	1510	7350	4580	4260	2170	62	34	460	35	208
12	38	32	2050	6590	4560	4070	1760	60	32	378	46	168
13	39	33	2780	5740	4450	4040	1410	62	32	299	50	170
14	44	32	3460	4960	4270	4080	1150	58	33	255	51	165
15	45	31	4520	4390	3980	4040	961	80	31	237	79	149
16	40	30	5690	4070	4100	3850	825	87	28	196	184	131
17	36	36	6120	4250	3990	3550	735	79	31	162	208	122
18	33	185	6120	4280	3770	3200	667	112	30	128	223	124
19	32	340	5770	4490	3760	2880	598	169	26	100	244	112
20	31	305	5170	5190	4170	2510	532	187	30	80	251	97
21	32	430	4530	6160	4960	2250	477	159	42	66	282	83
22	30	470	4050	7440	5730	2100	427	138	62	55	219	71
23	29	490	3760	8310	6700	2040	382	121	109	47	163	63
24	28	504	3640	8460	6630	2000	344	131	133	41	136	56
25	28	523	3550	8440	6870	1930	306	130	96	38	116	50
26	28	566	3520	8440	7510	1850	274	111	80	35	96	45
27	28	617	3710	8330	7610	1810	245	93	87	31	79	41
28	27	644	4140	7980	7240	1800	219	80	109	63	66	37
29	27	650	4560	7320	---	1820	194	69	151	337	57	35
30	55	691	4800	6540	---	1980	174	60	183	175	49	33
31	46	---	4760	5760	---	2320	---	56	---	96	43	---
TOTAL	1179	6980	99401	195370	137010	113680	48910	3115	2052	6018	3206	3707
MEAN	38.0	233	3206	6302	4893	3667	1630	100	68.4	194	103	124
MAX	67	691	6120	8460	7610	6760	4330	187	183	490	282	344
MIN	27	30	751	4070	3760	1800	174	56	26	31	35	33
CFSM	.03	.19	2.67	5.25	4.08	3.06	1.36	.08	.06	.16	.09	.10
IN.	.04	.22	3.08	6.06	4.25	3.52	1.52	.10	.06	.19	.10	.11
CAL YR 1986	TOTAL	480242	MEAN	1316	MAX	21800	MIN 10	CFSM 1.10	IN 14.89			
WTR YR 1987	TOTAL	620628	MEAN	1700	MAX	8460	MIN 26	CFSM 1.42	IN 19.24			

SATILLA RIVER BASIN

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
15...	1320	40	101	99	6.80	6.90	24.0	27.0	6.2	73
NOV										
12...	1230	53	114	112	6.90	7.00	23.5	27.5	4.5	52
DEC										
10...	1235	1290	73	64	5.30	5.20	12.5	23.0	7.1	66
JAN										
21...	1350	5800	43	40	5.00	4.80	11.5	8.5	--	--
FEB										
11...	1320	4700	43	41	5.10	4.70	10.0	16.0	8.4	73
MAR										
11...	1310	5000	38	33	5.30	5.20	15.0	10.0	8.1	80
APR										
15...	1100	1530	50	45	5.60	--	20.0	25.5	4.7	52
MAY										
13...	1035	139	87	85	--	6.60	24.5	27.0	5.2	62
JUN										
23...	1340	267	73	71	6.30	6.20	27.5	26.5	6.5	83
JUL										
08...	1055	1010	66	53	5.80	5.70	28.0	28.5	5.0	64
AUG										
12...	1110	62	102	103	6.80	6.90	30.0	31.0	6.6	88
SEP										
09...	1250	316	59	59	5.80	5.80	24.0	31.0	5.9	70

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT									
15...	110	5.0	--	1.0	--	16	4	0.580	0.150
NOV									
12...	95	4.0	--	3.0	70	19	<1	1.08	0.110
DEC									
10...	160	15	--	2.1	50	3.0	35	<0.020	0.090
JAN									
21...	180	5.0	--	1.2	--	2.0	<1	0.040	0.030
FEB									
11...	160	4.0	--	1.3	20	1.0	3	0.050	0.050
MAR									
11...	160	3.0	--	1.1	20	2.0	2	<0.020	0.130
APR									
15...	200	5.0	--	1.1	80	<1.0	1	0.100	0.100
MAY									
13...	120	6.0	--	0.4	40	10	9	0.610	0.160
JUN									
23...	150	5.0	--	1.0	790	20	2	0.510	0.200
JUL									
08...	180	15	--	0.9	--	5.0	19	0.230	0.120
AUG									
12...	100	8.0	25	1.0	130	14	1	0.510	0.090
SEP									
09...	160	10	59	2.0	170	8.0	3	0.190	0.150

SATILLA RIVER BASIN

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02226582 SATILLA RIVER NEAR HOBOKEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
15...	--	--	--	0.290	11
NOV					
12...	--	--	--	0.540	11
DEC					
10...	--	--	--	0.080	25
JAN					
21...	--	--	--	0.040	20
FEB					
11...	--	--	--	0.030	27
MAR					
11...	--	--	--	0.040	18
APR					
15...	--	--	--	0.100	38
MAY					
13...	--	--	--	0.250	12
JUN					
23...	--	--	--	0.270	18
JUL					
08...	--	--	--	0.160	22
AUG					
12...	0.61	0.70	1.2	0.410	8.7
SEP					
09...	--	--	--	0.160	23

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.

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.00 ft above 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.--Estimated daily discharges, Feb. 14 to Mar. 11. Records good except those below 50 ft³/s, which are fair, and those for estimated discharges, which are poor.

AVERAGE DISCHARGE.--36 years, 536 ft³/s, 11.27 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 greater than base discharge 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. 16	0200	5,450	11.06	Jan. 23	1900	5,580	11.11
Dec. 28	0800	3,490	10.26	Feb. 26	unknown	3,410	10.22
Jan. 6	2100	*10,500	*12.55	Apr. 4	0600	2,480	9.73

Minimum discharge, 0.50 ft³/s, Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	18	1030	2200	2010	2700	2110	23	2.1	12	1.3	.98
2	52	18	1040	2800	1810	2500	2110	17	1.8	108	4.2	1.3
3	36	18	1100	3460	1790	2250	2270	12	1.6	206	55	4.6
4	25	17	1110	3650	1810	2050	2440	8.9	1.7	158	41	79
5	17	17	1150	5550	1760	1900	2180	6.7	5.6	168	16	118
6	12	16	1190	9710	1670	2350	1830	5.9	14	220	7.3	168
7	7.9	21	1240	10200	1760	2300	1500	4.8	7.6	267	4.0	203
8	6.5	31	1260	8610	2010	2100	1230	4.0	3.9	382	2.4	222
9	10	132	1170	6400	2160	1900	1000	3.3	2.4	434	1.5	208
10	9.8	290	1080	4730	2100	1700	823	2.8	1.9	519	1.3	137
11	9.1	331	1140	3750	2040	1600	690	2.5	1.7	540	1.8	87
12	7.1	261	1430	3230	1980	1520	558	2.3	1.8	352	3.0	67
13	5.8	171	2950	2840	1900	1560	444	3.0	2.2	223	5.1	59
14	4.9	106	3690	2360	1800	1540	356	49	2.6	160	4.5	90
15	4.5	72	4790	1990	1700	1430	301	121	3.2	109	3.0	107
16	5.0	53	5220	1920	1500	1250	261	268	3.4	73	3.4	89
17	4.8	182	4290	2270	1400	1050	235	137	2.7	47	5.1	101
18	3.8	420	3370	2840	1350	886	217	84	4.1	28	26	122
19	3.1	746	2720	3180	1650	836	212	60	6.2	16	45	89
20	2.4	1100	2200	3430	2050	792	197	43	6.9	8.8	22	61
21	1.9	1250	1840	3950	2500	737	173	40	5.3	5.2	24	44
22	1.6	1140	1600	4660	2750	660	146	34	8.6	3.3	19	30
23	1.4	1240	1520	5390	2900	586	121	27	66	2.4	12	21
24	1.3	1430	1710	5350	3050	530	101	21	69	2.0	7.4	14
25	1.4	1350	2190	5120	3150	613	81	15	39	1.8	4.4	9.8
26	1.3	1280	2810	4960	3200	751	67	11	36	1.7	2.8	6.7
27	1.2	1330	3170	4390	3200	801	56	8.6	66	1.4	1.7	4.6
28	1.1	1270	3430	3700	3050	816	46	7.0	69	1.5	1.1	3.4
29	1.2	1130	3090	3130	---	895	37	5.0	35	2.1	.72	2.8
30	4.5	1060	2560	2710	---	1650	29	3.6	18	1.5	.66	2.5
31	11	---	2040	2310	---	2080	---	2.6	---	1.5	.64	---
TOTAL	326.6	16500	69130	130790	60050	44333	21821	1033.0	489.3	4055.2	327.32	2152.68
MEAN	10.5	550	2230	4219	2145	1430	727	33.3	16.3	131	10.6	71.8
MAX	72	1430	5220	10200	3200	2700	2440	268	69	540	55	222
MIN	1.1	16	1030	1920	1350	530	29	2.3	1.6	1.4	.64	.98
CFSM	.02	.85	3.45	6.53	3.32	2.21	1.13	.05	.03	.20	.02	.11
IN.	.02	.95	3.98	7.53	3.46	2.55	1.26	.06	.03	.23	.02	.12

CAL YR 1986 TOTAL 246395.92 MEAN 675 MAX 12100 MIN .28 CFSM 1.05 IN 14.19
WTR YR 1987 TOTAL 351008.10 MEAN 962 MAX 10200 MIN .64 CFSM 1.49 IN 20.21

SATILLA RIVER BASIN

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

LOCATION.--Lat 31°13'16", long 81°52'03", Brantley County, 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 March 1930, published in WSP 1304.

REVISED RECORDS.--WSP 1504: 1932. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.79 ft above 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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--57 years, 2,297 ft³/s, 11.18 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 greater than base discharge 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)
Dec. 21	2400	12,000	15.72	Feb. 27	1400	14,700	16.40
Jan. 11	0100	*20,400	*17.56	Apr. 9	1300	8,150	14.34
Jan. 27	1700	18,800	17.25				

Minimum daily discharge, 92 ft³/s, Oct. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	356	98	2820	9590	14900	14000	4500	443	186	282	199	185
2	325	103	2950	10300	13700	13600	4760	402	176	256	230	171
3	292	115	3050	10700	12700	13200	5160	366	167	256	224	171
4	263	125	3110	11000	11700	12700	5750	334	167	310	202	173
5	238	128	3120	11900	10900	12200	6330	305	178	452	182	190
6	216	127	3110	12400	10400	11600	6840	282	163	577	183	244
7	196	123	3100	12700	10100	11000	7340	263	166	689	173	318
8	180	119	3110	14400	9860	10500	7820	248	193	759	161	373
9	169	117	3130	17600	9560	10300	8100	233	204	846	151	450
10	158	126	3210	19800	9290	10400	8070	221	189	972	147	549
11	146	175	3370	20200	9100	10400	7750	210	170	1110	144	620
12	141	281	3560	19200	9050	10300	7210	201	154	1190	149	649
13	145	349	3740	17600	9070	9940	6490	202	146	1200	164	629
14	148	340	3880	16000	9060	9400	5660	207	143	1120	181	626
15	141	293	4060	14400	8980	8820	4810	209	139	952	177	608
16	132	247	4520	13100	9290	8270	3950	215	133	795	192	574
17	126	227	5570	12300	9490	7790	3330	273	132	654	200	535
18	122	223	7320	11600	9450	7430	2800	366	133	540	224	484
19	119	286	9280	10900	9330	7260	2320	377	129	453	285	452
20	114	432	11000	10500	9310	7080	1910	353	128	385	345	432
21	110	703	11900	10500	9380	6820	1600	319	134	329	372	390
22	107	1020	11900	11400	9460	6410	1350	313	144	281	381	345
23	103	1340	11400	12300	9860	5930	1170	325	173	244	381	306
24	100	1600	10800	13300	10300	5410	1020	314	171	214	381	272
25	98	1830	9990	15400	11600	4900	875	287	217	196	370	242
26	96	2040	9220	17900	13600	4440	764	263	310	180	335	215
27	95	2190	8570	18700	14500	4150	679	252	362	167	292	193
28	92	2330	8120	18400	14300	3990	607	241	351	156	256	176
29	94	2480	7940	17700	---	3960	542	227	318	160	226	160
30	106	2670	8110	16900	---	4040	488	212	296	153	203	150
31	101	---	8550	16100	---	4240	---	198	---	153	186	---
TOTAL	4829	22237	193510	444790	298240	260480	119995	8661	5672	16031	7296	10882
MEAN	156	741	6242	14350	10650	8403	4000	279	189	517	235	363
MAX	356	2670	11900	20200	14900	14000	8100	443	362	1200	381	649
MIN	92	98	2820	9590	8980	3960	488	198	128	153	144	150
CFSM	.06	.27	2.24	5.14	3.82	3.01	1.43	.10	.07	.19	.08	.13
IN.	.06	.30	2.58	5.93	3.98	3.47	1.60	.12	.08	.21	.10	.15

CAL YR 1986	TOTAL	979070	MEAN	2682	MAX	39000	MIN	33	CFSM	.96	IN	13.05
WTR YR 1987	TOTAL	1392623	MEAN	3815	MAX	20200	MIN	92	CFSM	1.37	IN	18.57

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981.

WATER TEMPERATURES: November 1974 to September 1981.

REMARKS.--Laboratory chemical analyses with the analyzing agency codes 80020 and 84213 are performed by the U.S. Geological Survey. Laboratory chemical analyses with the analyzing agency code 81341 are performed by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity is by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 159 microsiemens Nov. 7, 1978; minimum recorded, 30 microsiemens 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 1986 TO SEPTEMBER 1987

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
NOV							
18...	1400	80020	230	72	71	6.00	6.00
18...	1410	81341	230	72	71	6.00	5.70
JAN							
07...	1430	80020	12700	48	51	5.20	4.41
07...	1440	81341	12700	48	47	5.20	4.40
MAY							
14...	1400	80020	205	61	64	6.30	7.40
14...	1410	81341	205	61	63	6.30	6.30
AUG							
18...	1315	80020	226	70	78	6.51	7.90
18...	1325	81341	226	70	--	6.50	7.80

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CACO3)	ALKA- LITY LAB (MG/L AS CACO3)
NOV								
18...	80020	18.5	22.0	8.8	95	2.0	2.0	5.0
18...	81341	18.5	22.0	8.8	95	--	--	4.0
JAN								
07...	80020	9.0	18.0	9.1	79	2.0	2.0	--
07...	81341	9.0	18.0	9.1	79	--	--	<1.0
MAY								
14...	80020	24.0	26.5	6.5	77	5.0	4.0	5.0
14...	81341	24.0	26.5	6.5	77	--	--	8.0
AUG								
18...	80020	30.0	32.5	6.4	84	6.0	5.0	6.0
18...	81341	30.0	32.5	6.4	84	--	--	--

SATILLA RIVER BASIN

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02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	COLOR (PLAT- INUM- COBALT UNITS)	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 (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER CAC03)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CAC03
NOV 18...	80020	--	3.8	--	--	--	210	15	13
18...	81341	160	3.0	0.5	31000	--	--	--	--
JAN 07...	80020	--	3.4	--	--	78	66	9	7
07...	81341	160	4.0	1.5	<20	--	--	--	--
MAY 14...	80020	--	3.5	--	--	62	690	12	8
14...	81341	170	5.0	0.8	330	--	--	--	--
AUG 18...	80020	--	9.6	--	--	23	170	13	8
18...	81341	5	5.0	3.0	<20	--	--	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
NOV 18...	80020	2.8	2.0	6.7	45	0.8	2.1	3.2
JAN 07...	80020	1.6	1.2	3.6	41	0.5	1.9	20
MAY 14...	80020	2.2	1.5	5.8	47	0.8	1.9	4.0
AUG 18...	80020	2.4	1.7	7.2	51	0.9	1.6	2.9

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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)
NOV 18...	80020	22	11	<0.10	8.8	71	58	44	0.10
JAN 07...	80020	15	6.9	<0.10	6.7	67	39	2300	0.09
MAY 14...	80020	14	14	0.10	7.9	69	51	38	0.09
AUG 18...	80020	12	9.2	0.10	7.3	67	46	41	0.09

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA 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)
NOV 18...	80020	<0.010	--	0.200	0.010	0.030	2.4	2.4	0.090	0.080	0.050	--
18...	81341	--	0.140	--	0.060	--	--	--	0.090	--	--	25
JAN 07...	80020	<0.010	--	<0.100	0.040	0.100	0.76	0.80	0.010	0.020	<0.010	--
07...	81341	--	<0.020	--	0.080	--	--	--	<0.020	--	--	26
MAY 14...	80020	0.030	--	0.360	0.250	0.120	0.75	1.0	0.110	0.080	0.070	--
14...	81341	--	0.320	--	0.080	--	--	--	0.120	--	--	13
AUG 18...	80020	<0.010	--	0.170	0.040	0.060	0.86	0.90	0.190	0.090	0.070	--
18...	81341	--	0.020	--	0.040	--	--	--	0.110	--	--	4.0

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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...	80020	410	<1	27	<0.5	2	<1	<3	4	690	<5
JAN 07...	80020	600	<1	20	<0.5	1	<1	<3	4	590	<5
MAY 14...	80020	300	<1	19	<0.5	<1	<1	<3	2	630	<5
AUG 18...	80020	280	<1	19	<0.5	<1	<1	<3	1	530	<5

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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...	80020	<4	41	0.5	<10	3	<1	<1	20	<6	42
JAN 07...	80020	<4	38	<0.1	<10	2	<1	<1	12	<6	26
MAY 14...	80020	<4	17	<0.1	<10	<1	<1	<1	17	<6	6
AUG 18...	80020	<4	16	<0.1	<10	6	<1	<1	20	<6	24

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 18...	1405	84213	230	18.5	32	20	83
JAN 07...	1435	84213	12700	9.0	18	617	71
MAY 14...	1405	84213	205	24.0	13	7.2	76
AUG 18...	1320	84213	226	30.0	17	10	78

ST MARYS RIVER BASIN

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02228500 NORTH PRONG ST MARYS RIVER AT MONIAC, GA.

LOCATION.--Lat 30°31'03", Long 82°13'50", in NW 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 Florida Highway 2 and Georgia Highway 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 above 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.--Estimated daily discharges, Mar. 10 to Apr. 13. Records good.

AVERAGE DISCHARGE.--42 years (water years 1922-23, 1928-29, 1933, 1951-87), 160 ft³/s, 13.58 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; minimum gage height, 3.62 ft, June 26, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,180 ft³/s, Jan. 23, gage height, 12.64 ft, but may have been more during period of no gage-height record, Mar. 10 to Apr. 13; minimum, 0.75 ft³/s, June 30, gage height, 4.44 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	20	399	406	466	545	980	37	3.4	33	56	26
2	26	19	508	533	426	638	800	34	2.9	44	67	24
3	23	18	511	469	442	563	660	31	2.3	49	84	42
4	20	17	496	430	435	501	600	28	2.6	54	67	99
5	18	16	457	594	445	455	540	26	9.5	51	47	105
6	16	15	412	691	795	416	480	23	8.9	43	35	126
7	14	15	367	620	982	398	420	22	6.4	40	29	232
8	13	14	325	557	1050	558	380	21	4.6	144	23	269
9	13	13	286	510	982	612	350	20	3.4	186	19	213
10	14	13	276	476	866	562	317	18	2.4	120	16	157
11	14	12	424	501	748	510	278	17	1.7	85	13	125
12	13	12	654	479	647	450	242	18	1.2	63	15	115
13	12	12	809	429	568	410	217	18	1.1	63	34	192
14	13	12	739	391	505	380	192	19	1.6	73	198	215
15	17	11	656	360	454	366	171	20	5.2	73	773	175
16	15	11	600	351	436	350	155	20	5.5	62	705	137
17	14	11	558	409	459	340	140	19	5.2	49	614	128
18	12	15	508	459	425	335	128	17	4.4	39	523	127
19	12	27	460	467	391	350	117	15	3.8	33	410	100
20	11	27	415	453	361	400	107	14	3.1	29	351	81
21	9.9	38	375	417	393	420	98	13	2.9	25	328	67
22	9.4	39	336	732	505	415	90	12	2.2	21	239	55
23	8.9	38	306	1150	672	380	81	11	1.7	18	153	47
24	8.6	36	400	996	657	340	74	12	2.8	15	106	41
25	8.3	35	452	889	599	300	66	9.8	2.6	13	78	36
26	8.4	34	408	898	564	390	59	8.1	1.9	11	60	32
27	9.0	33	365	826	529	560	53	6.9	1.8	8.5	48	30
28	9.0	34	334	714	496	750	49	6.0	1.5	6.8	39	27
29	9.0	41	306	628	---	860	44	5.5	1.1	5.5	34	24
30	18	97	276	562	---	990	40	4.7	.80	6.5	30	22
31	21	---	252	514	---	1020	---	4.0	---	28	28	---
TOTAL	438.5	735	13670	17911	16298	15564	7928	530.0	98.50	1491.3	5222	3069
MEAN	14.1	24.5	441	578	582	502	264	17.1	3.28	48.1	168	102
MAX	29	97	809	1150	1050	1020	980	37	9.5	186	773	269
MIN	8.3	11	252	351	361	300	40	4.0	.80	5.5	13	22
CFSM	.09	.15	2.76	3.61	3.64	3.14	1.65	.11	.02	.30	1.05	.64
IN.	.10	.17	3.18	4.16	3.79	3.62	1.84	.12	.02	.35	1.21	.71
CAL YR 1986	TOTAL	81753.00	MEAN 224	MAX 2270	MIN 2.9	CFSM 1.40	IN 19.01					
WTR YR 1987	TOTAL	82955.30	MEAN 227	MAX 1150	MIN .80	CFSM 1.42	IN 19.29					

ST MARYS RIVER BASIN

02231000 ST MARYS RIVER NEAR MACCLENLY, 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 above 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.--61 years, 678 ft³/s, 13.15 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 discharges greater than base discharge 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. 25	0600	3,450	13.15	Mar. 9	1900	2,840	12.40
Feb. 9	0800	3,650	13.36	Mar. 31	2400	*6,250	*15.51
Feb. 24	1400	3,890	13.60	Aug. 18	0800	3,420	13.12

Minimum discharge, 36 ft³/s, Oct. 28, 29, gage height, 1.23 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	80	384	893	1840	2430	5960	168	53	45	117	451
2	96	78	666	1340	1650	2710	5120	154	50	55	217	610
3	87	72	751	1510	1510	2840	4280	143	48	82	248	925
4	80	68	760	1400	1430	2570	3570	133	47	98	289	1170
5	73	64	719	1410	1390	2260	3040	124	58	120	258	1220
6	67	61	651	1630	1870	1970	2660	116	99	175	231	1200
7	62	57	582	1720	2680	1800	2320	110	130	145	211	1260
8	58	54	521	1610	3350	2100	1990	113	103	401	190	1400
9	55	51	470	1460	3620	2730	1720	111	74	569	171	1350
10	60	48	450	1340	3380	2730	1490	104	58	447	154	1190
11	98	46	676	1320	2950	2440	1310	97	51	393	136	1020
12	105	43	1070	1340	2560	2130	1140	93	46	339	146	913
13	86	42	1570	1280	2210	1890	993	91	42	251	250	1100
14	76	40	1850	1170	1910	1700	873	92	44	204	854	1450
15	79	39	1810	1060	1690	1520	784	106	61	204	1670	1550
16	80	39	1640	991	1550	1370	711	112	73	210	2500	1470
17	77	39	1480	1020	1560	1240	642	116	66	214	3150	1340
18	70	42	1370	1200	1530	1110	580	107	62	190	3380	1220
19	61	51	1270	1330	1420	1080	526	106	58	170	3080	1080
20	55	71	1170	1360	1300	1150	479	107	52	156	2640	938
21	51	82	1070	1330	1370	1130	435	99	46	142	2270	812
22	48	91	986	1560	1990	1020	394	90	44	133	1970	696
23	45	104	910	2460	3070	921	356	86	47	126	1700	587
24	42	97	952	3240	3830	834	321	85	49	116	1420	495
25	40	89	1120	3430	3700	765	290	83	51	107	1200	419
26	38	84	1150	3280	3290	813	262	78	50	126	1020	353
27	37	79	1050	3160	2880	2270	239	71	52	175	846	302
28	37	75	935	2950	2560	4350	217	65	52	133	717	262
29	38	76	849	2650	---	4630	200	62	49	110	604	227
30	46	101	780	2350	---	4660	183	58	44	92	507	202
31	59	---	722	2060	---	5820	---	56	---	82	437	---
TOTAL	2011	1963	30384	54854	64090	66983	43085	3136	1759	5810	32583	27212
MEAN	64.9	65.4	980	1769	2289	2161	1436	101	58.6	187	1051	907
MAX	105	104	1850	3430	3830	5820	5960	168	130	569	3380	1550
MIN	37	39	384	893	1300	765	183	56	42	45	117	202
CFSM	.09	.09	1.40	2.53	3.27	3.09	2.05	.14	.08	.27	1.50	1.30
IN.	.11	.10	1.61	2.92	3.41	3.56	2.29	.17	.09	.31	1.73	1.45
CAL YR 1986	TOTAL	245218	MEAN 672	MAX 5690	MIN 33	CFSM .96	IN 13.03					
WTR YR 1987	TOTAL	333870	MEAN 915	MAX 5960	MIN 37	CFSM 1.31	IN 17.74					

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.01	1.77	4.11	6.78	10.44	11.70	15.31	2.68	1.46	1.35	2.18	4.52
2	1.92	1.75	5.65	8.82	9.88	12.19	14.70	2.56	1.42	1.49	3.09	5.37
3	1.83	1.69	6.08	9.45	9.46	12.40	13.98	2.45	1.39	1.83	3.31	6.97
4	1.75	1.64	6.12	9.06	9.17	11.96	13.27	2.35	1.37	2.01	3.59	8.15
5	1.68	1.59	5.91	9.10	9.03	11.39	12.67	2.27	1.53	2.23	3.39	8.36
6	1.61	1.55	5.57	9.83	10.49	10.81	12.11	2.20	2.02	2.75	3.20	8.27
7	1.55	1.50	5.22	10.11	12.14	10.34	11.51	2.14	2.33	2.47	3.06	8.54
8	1.50	1.46	4.91	9.78	13.03	11.07	10.84	2.18	2.07	4.19	2.88	9.15
9	1.46	1.42	4.63	9.27	13.33	12.23	10.10	2.15	1.74	5.16	2.71	8.94
10	1.53	1.39	4.52	8.82	13.07	12.23	9.39	2.08	1.53	4.51	2.56	8.26
11	1.94	1.36	5.70	8.73	12.55	11.73	8.69	2.01	1.43	4.21	2.38	7.44
12	2.02	1.33	7.60	8.82	11.93	11.16	7.96	1.95	1.36	3.89	2.48	6.93
13	1.83	1.31	9.64	8.55	11.30	10.59	7.27	1.93	1.31	3.33	3.28	7.81
14	1.72	1.28	10.47	8.06	10.65	10.04	6.69	1.94	1.34	3.00	6.56	9.32
15	1.75	1.26	10.36	7.58	10.01	9.50	6.24	2.10	1.57	3.00	9.91	9.68
16	1.76	1.26	9.86	7.26	9.58	8.95	5.87	2.16	1.72	3.05	11.82	9.42
17	1.73	1.27	9.36	7.41	9.62	8.38	5.53	2.20	1.63	3.08	12.82	8.94
18	1.64	1.32	8.94	8.21	9.52	7.82	5.22	2.12	1.58	2.88	13.08	8.37
19	1.55	1.43	8.51	8.79	9.14	7.66	4.94	2.11	1.53	2.70	12.74	7.73
20	1.48	1.68	8.07	8.90	8.66	8.00	4.68	2.12	1.45	2.58	12.09	7.07
21	1.42	1.81	7.65	8.77	8.91	7.89	4.44	2.02	1.37	2.44	11.45	6.43
22	1.37	1.92	7.23	9.57	10.78	7.40	4.21	1.93	1.33	2.35	10.84	5.83
23	1.34	2.05	6.87	11.75	12.67	6.92	3.99	1.87	1.39	2.29	10.09	5.27
24	1.30	1.99	7.07	12.90	13.54	6.49	3.79	1.87	1.40	2.20	9.16	4.78
25	1.28	1.90	7.86	13.12	13.41	6.15	3.60	1.84	1.44	2.11	8.24	4.35
26	1.25	1.84	7.98	12.96	12.97	6.37	3.42	1.78	1.42	2.28	7.43	3.96
27	1.24	1.78	7.52	12.82	12.46	11.05	3.25	1.70	1.44	2.74	6.57	3.65
28	1.24	1.74	6.99	12.55	11.95	14.05	3.10	1.63	1.44	2.35	5.91	3.38
29	1.25	1.74	6.57	12.08	---	14.30	2.96	1.58	1.40	2.14	5.34	3.13
30	1.35	2.03	6.23	11.56	---	14.33	2.82	1.54	1.33	1.94	4.84	2.93
31	1.52	---	5.93	11.02	---	15.21	---	1.50	---	1.83	4.45	---
MEAN	1.57	1.60	7.07	9.76	11.06	10.33	7.42	2.03	1.52	2.72	6.50	6.77
MAX	2.02	2.05	10.47	13.12	13.54	15.21	15.31	2.68	2.33	5.16	13.08	9.68
MIN	1.24	1.26	4.11	6.78	8.66	6.15	2.82	1.50	1.31	1.35	2.18	2.93
CAL YR 1986	MEAN 4.48		MAX 15.08	MIN 1.18								
WTR YR 1987	MEAN 5.67		MAX 15.31	MIN 1.24								

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, the drainage area of which is indeterminate.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
15...	1510	73	71	6.70	6.90	25.0	21.0	4.8	58
NOV									
12...	1400	81	78	6.70	6.90	24.0	29.5	3.9	46
DEC									
10...	1430	56	53	4.90	4.80	14.5	23.0	5.8	56
JAN									
21...	1530	55	51	4.50	4.40	13.5	8.0	--	--
FEB									
11...	1520	--	48	4.60	4.30	11.0	18.0	8.8	--
MAR									
11...	1500	46	41	4.60	4.50	15.0	11.5	6.6	65
APR									
15...	1245	48	42	4.70	--	21.0	27.0	6.0	68
MAY									
13...	1150	69	65	--	6.70	24.5	23.0	3.8	45
JUN									
23...	1505	80	77	6.70	6.80	28.0	24.5	5.0	64
JUL									
08...	1220	--	43	6.10	6.10	27.0	33.0	6.2	--
AUG									
12...	1245	52	52	5.80	5.70	32.0	32.0	3.5	48
SEP									
09...	1505	47	46	4.60	4.70	24.0	32.0	5.6	66

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)	TANNIN AND LIGNIN (MG/L)
OCT										
15...	200	<1.0	1.2	--	18	0.080	0.150	0.070	22	4.5
NOV										
12...	140	1.0	1.9	80	21	0.040	0.060	0.050	18	2.5
DEC										
10...	170	4.0	1.9	330	2.0	<0.020	0.050	0.040	34	0.50
JAN										
21...	240	5.0	1.4	--	--	0.060	0.040	0.050	30	1.3
FEB										
11...	200	4.0	1.3	230	<1.0	<0.020	0.050	<0.020	<1.0	4.5
MAR										
11...	210	1.0	0.9	230	<1.0	<0.020	0.220	0.030	28	4.9
APR										
15...	300	1.0	1.1	110	5.0	<0.020	0.100	0.090	18	6.3
MAY										
13...	20	1.0	0.7	110	14	0.120	0.070	0.050	25	4.1
JUN										
23...	150	2.0	0.5	1300	17	0.100	0.130	0.050	11	2.3
JUL										
08...	160	11	1.8	--	7.0	0.050	0.140	0.050	25	3.2
AUG										
12...	200	2.0	0.6	40	4.0	0.040	0.040	0.060	31	4.2
SEP										
09...	320	3.0	1.6	170	2.0	<0.020	0.130	0.040	44	5.8

ST MARYS RIVER BASIN

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02231253 ST MARYS RIVER NEAR GROSS, FLA.

LOCATION.--Lat 30°44'29", long 81°41'17", in land grant 41, T.4 N., R.26 E., Nassau County, Hydrologic Unit 03070204, at Florida-Georgia state line, near center of span on upstream side of bridge on U.S. Highway 17, 1.8 mi downstream from Little St Marys River, 2.1 mi north of Gross, and 21 mi upstream from mouth.

DRAINAGE AREA.--1,360 mi², approximately.

PERIOD OF RECORD.--April 1966 to May 1975, October 1980 to September 1983, October 1984 to current year (daily discharge and/or gage heights) incomplete.

GAGE.--Water-stage and electromagnetic flowmeter recorders. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929. April 1966 to August 1975 water-stage and deflection meter recorder at same site and datum.

REMARKS.--Estimated daily discharges, Dec. 3 to Jan. 27. Records poor. Discharge computed from continuous electromagnetic flowmeter record and represents net of much larger upstream and downstream discharges. The stage record published is the maximum and minimum tide event for each calendar day.

AVERAGE DISCHARGE.--9 years (1967-72, 1981-82, 1987), 1,484 ft³/s, 1,075,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,300 ft³/s, Nov. 2, 1969; maximum gage height, 14.60 ft, Nov. 1, 1969; maximum daily reverse flow, 5,780 ft³/s, Aug. 28, 1982; minimum gage height, 5.63 ft, Feb. 13, 1971.

EXTREMES FOR CURRENT YEARS.--Maximum daily discharge, 12,000 ft³/s, Apr. 3; maximum gage height, 14.13 ft, Jan. 5; maximum daily reverse flow, 974 ft³/s, Oct. 11; minimum gage height, 7.14, Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	2030	2290	2400	5950	8860	7750	1960	2070	1950	1930	3070
2	1210	1830	1590	2700	7370	8410	9670	1420	2130	2220	1440	2860
3	1360	1000	1600	3000	6670	8460	12000	2360	1610	2030	1280	2940
4	1480	1360	1800	3400	6120	8840	11500	1950	1440	1470	1210	2150
5	1510	2220	2000	3800	5900	7990	10200	1120	1010	1170	713	1400
6	1200	2120	2090	4000	7610	8080	9980	2580	348	890	289	1600
7	1390	1340	2100	4200	7550	7090	10100	1610	1390	-320	616	1800
8	1800	973	2000	4400	9820	9060	8960	1260	1060	1510	1600	2000
9	1930	1140	1600	4600	8410	7800	7260	10	1100	2720	2360	2200
10	897	380	1400	4300	6470	4980	5650	1750	1320	2780	2720	2000
11	-974	117	1800	4100	7000	5950	5570	1120	1100	2690	1860	1800
12	1290	1580	2000	3800	6180	6560	5140	1430	2110	2650	1850	1600
13	1210	267	2500	3500	5480	5780	1900	2680	2710	2220	2800	1800
14	1780	864	3000	3000	6890	6070	4490	2500	2320	2600	3250	2000
15	1230	2200	3500	2800	6550	6720	3750	2400	1730	2370	3900	2300
16	1450	2020	3800	2700	6100	6810	2920	2300	1790	1330	3990	2500
17	1730	1750	4000	2600	7900	5500	2900	2200	1410	1090	3770	2600
18	1500	2040	3600	2700	7690	4840	2160	2100	822	1240	3850	2450
19	1930	2010	3200	3200	6590	5780	2310	1670	490	2080	3680	2200
20	2210	2070	2800	3800	6230	5260	1290	769	1260	1600	3520	2000
21	2130	2560	2600	4500	5930	5790	1180	-540	1370	1250	4310	1800
22	1900	2070	2700	5000	6230	4140	1070	336	985	1000	6840	1600
23	1810	1850	2900	5900	9120	3610	270	1040	1620	917	7010	1400
24	1560	1990	3200	6600	6420	2910	1870	1220	1930	2110	4600	1300
25	1340	1020	3400	7500	4340	2560	1590	1320	1530	2310	5490	1200
26	1060	624	3200	6400	4480	3310	2040	1700	2150	2500	6230	1050
27	959	1030	3000	5200	6560	4120	1720	1460	2240	2340	5930	940
28	1070	-697	2800	4960	6990	5790	2440	2130	1560	1900	5610	830
29	393	575	2600	5470	---	5430	2110	2440	2200	1850	4490	720
30	105	1820	2400	7430	---	7420	2690	2190	2210	1870	3930	650
31	908	---	2300	5990	---	9790	---	2300	---	2460	2880	---
TOTAL	40398	42153	79770	133950	188550	193710	142480	50785	47015	56797	103948	54760
MEAN	1303	1405	2573	4321	6734	6249	4749	1638	1567	1832	3353	1825
MAX	2210	2560	4000	7500	9820	9790	12000	2680	2710	2780	7010	3070
MIN	-974	-697	1400	2400	4340	2560	270	-540	348	-320	289	650
CFSM	.96	1.03	1.89	3.18	4.95	4.60	3.49	1.20	1.15	1.35	2.47	1.34
IN.	1.11	1.15	2.18	3.66	5.16	5.30	3.90	1.39	1.29	1.55	2.84	1.50

WTR YR 1987 TOTAL 1134316 MEAN 3108 MAX 12000 MIN -974 CFSM 2.29 IN 31.03

NOTE:--Negative figures indicate reverse flow.

ST MARYS RIVER BASIN

02231253 ST MARYS RIVER NEAR GROSS, FLA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.04	13.55	14.09	14.06	13.43	13.89	13.09	12.88	13.01	12.52	12.54	13.00
2	12.99	13.50	13.96	13.58	13.37	13.49	13.39	12.86	12.86	12.43	12.61	12.98
3	12.99	13.67	13.55	13.49	13.02	13.46	13.26	12.84	12.68	12.21	12.62	13.16
4	13.00	13.86	13.42	13.77	13.08	13.45	12.61	12.69	12.66	12.25	12.60	13.46
5	13.07	13.73	13.56	14.13	13.42	13.36	12.35	12.89	12.87	12.60	12.71	13.58
6	13.21	13.38	13.60	14.08	13.77	13.36	12.46	13.18	13.26	12.60	12.85	13.55
7	13.50	13.26	13.31	13.58	13.60	13.45	12.52	12.89	13.19	12.92	13.06	13.50
8	13.44	13.20	12.97	12.98	13.59	13.25	12.62	12.70	13.18	13.14	13.29	13.54
9	13.19	12.96	12.85	13.25	12.33	13.67	12.50	13.21	13.16	13.18	13.27	13.29
10	13.15	12.99	12.81	13.19	13.03	12.87	12.81	13.10	13.18	13.25	13.35	13.11
11	13.50	13.14	12.99	12.36	12.96	13.40	12.89	13.23	13.56	13.26	13.15	13.09
12	13.45	13.08	12.99	12.40	12.81	13.42	12.77	13.41	13.61	13.36	13.29	13.04
13	13.39	13.15	13.18	12.80	13.06	13.39	12.90	13.39	13.50	13.41	13.43	12.74
14	13.17	13.70	13.71	13.16	13.28	13.56	13.11	13.20	13.27	13.35	13.45	12.69
15	13.23	13.45	13.61	13.04	13.31	13.54	13.22	13.10	13.17	13.05	13.13	12.77
16	13.31	13.23	13.50	13.10	13.78	13.43	13.18	13.00	13.09	12.96	12.86	12.74
17	13.42	13.08	13.39	13.37	13.71	13.61	13.31	12.90	12.97	13.15	12.73	12.60
18	13.43	13.32	13.42	13.57	13.47	13.83	13.21	12.72	12.92	13.22	12.68	12.52
19	13.56	13.21	13.31	13.20	13.29	13.73	13.30	13.00	13.08	13.05	12.76	12.63
20	13.42	13.41	13.41	12.69	13.31	13.65	13.25	12.80	13.00	12.91	12.90	12.89
21	13.26	13.17	13.55	12.92	13.46	13.63	13.07	13.14	12.88	12.82	13.14	13.07
22	13.18	13.10	13.67	13.37	13.68	13.32	13.07	13.27	12.96	12.85	13.10	13.05
23	12.98	13.11	13.63	12.63	13.10	13.59	13.16	13.20	13.03	13.14	12.88	13.04
24	12.78	12.82	13.36	12.82	13.36	13.62	13.12	13.28	12.90	13.13	13.06	13.20
25	12.73	12.73	12.86	13.16	13.62	13.59	13.30	13.27	13.08	13.11	13.12	13.10
26	12.77	12.76	12.90	13.04	13.89	13.53	13.43	13.32	13.08	13.08	13.11	13.04
27	12.85	12.75	13.25	13.36	13.99	13.65	13.58	13.48	12.97	12.88	12.93	13.06
28	12.79	13.14	13.71	13.41	13.99	13.58	13.62	13.55	12.92	12.61	12.71	13.11
29	12.98	13.62	13.81	13.69	---	13.67	13.55	13.54	13.09	12.47	12.49	12.96
30	13.27	13.82	13.69	13.45	---	13.64	13.46	13.39	12.98	12.63	12.76	12.78
31	13.57	---	13.85	13.17	---	13.53	---	13.23	---	12.58	12.76	---
MEAN	13.18	13.26	13.42	13.25	13.38	13.52	13.07	13.12	13.07	12.91	12.95	13.04
MAX	13.57	13.86	14.09	14.13	13.99	13.89	13.62	13.55	13.61	13.41	13.45	13.58
MIN	12.73	12.73	12.81	12.36	12.33	12.87	12.35	12.69	12.66	12.21	12.49	12.52
CAL YR 1986	MEAN	9.91	MAX	14.09	MIN	12.17						
WTR YR 1987	MEAN	13.18	MAX	14.13	MIN	12.21						

ST MARYS RIVER BASIN

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02231253 ST MARYS RIVER NEAR GROSS, FLA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.62	9.84	10.20	10.65	9.05	9.89	8.69	8.17	8.62	8.28	8.20	8.40
2	8.42	9.13	10.09	9.34	8.76	9.46	9.23	8.67	8.44	8.08	7.83	8.24
3	8.49	9.06	9.15	8.84	8.94	9.69	8.67	8.56	8.33	7.71	7.83	8.67
4	8.38	9.95	8.31	9.88	9.48	9.53	7.93	8.45	8.55	7.58	7.20	9.00
5	8.17	9.83	8.72	12.10	10.89	9.84	8.39	9.72	9.09	7.53	7.30	9.52
6	8.04	9.09	10.01	11.04	10.65	10.11	9.18	9.56	9.45	7.58	7.14	9.52
7	9.33	8.69	9.51	9.34	10.80	10.63	8.86	9.31	9.25	7.63	7.25	9.64
8	9.33	8.95	8.77	9.30	9.25	8.95	8.67	8.72	8.57	7.91	7.60	9.28
9	9.01	8.85	8.39	9.30	8.71	8.37	8.50	8.96	7.80	7.86	8.25	8.96
10	8.65	8.63	8.43	9.00	8.73	8.36	8.55	8.82	7.81	7.80	8.16	8.62
11	9.44	9.40	8.37	8.09	8.66	10.22	8.72	8.40	7.90	8.05	8.73	8.75
12	10.09	9.19	8.40	7.89	8.30	9.96	7.93	8.51	8.18	8.21	9.16	8.66
13	9.61	8.74	8.06	7.89	8.12	9.72	7.76	8.63	7.80	8.73	9.95	8.25
14	9.01	10.13	10.20	8.61	9.14	9.93	8.09	8.52	7.80	8.50	10.35	8.33
15	9.18	9.93	9.99	8.37	9.09	10.15	8.29	8.40	7.80	8.50	9.46	8.56
16	9.33	9.29	9.73	8.62	10.33	9.39	8.35	9.35	7.98	8.39	8.62	8.87
17	9.69	8.57	9.48	9.07	10.19	9.90	8.31	8.30	7.93	8.86	8.26	8.62
18	9.50	8.57	9.56	10.29	9.63	10.36	8.80	8.27	7.98	9.60	8.42	8.26
19	10.26	8.94	9.17	8.37	9.51	9.79	8.96	8.03	8.25	9.02	8.46	8.06
20	9.86	10.17	9.73	8.43	9.81	10.09	8.94	7.95	8.14	8.56	8.54	8.50
21	9.49	9.17	10.02	9.07	10.25	9.09	8.85	8.38	7.81	8.32	9.00	9.21
22	9.54	9.49	11.04	8.52	10.10	9.79	8.83	9.33	7.80	8.25	9.01	9.27
23	9.34	9.72	11.03	7.88	8.81	9.93	8.94	8.98	8.03	8.58	8.44	9.19
24	9.06	9.17	9.30	8.25	8.58	10.26	8.75	8.43	7.72	8.94	8.46	9.37
25	9.14	8.96	8.67	8.38	9.16	9.93	8.88	8.23	8.35	8.91	9.31	9.23
26	9.21	8.96	8.82	8.16	10.04	9.81	9.16	8.39	8.42	8.52	9.05	8.98
27	9.35	8.56	8.69	8.31	10.57	10.00	9.48	9.17	7.87	7.94	8.76	8.85
28	8.91	8.28	9.63	8.70	10.84	9.91	8.75	9.44	8.66	7.74	8.30	9.02
29	8.91	9.59	9.57	8.77	---	9.81	9.35	9.27	8.78	7.88	7.84	8.74
30	9.21	9.77	9.45	9.10	---	9.81	8.17	9.09	8.32	8.59	7.83	8.22
31	9.85	---	8.52	7.89	---	7.90	---	8.77	---	8.38	8.36	---
MEAN	9.17	9.22	9.32	8.95	9.51	9.70	8.67	8.73	8.25	8.27	8.42	8.83
MAX	10.26	10.17	11.04	12.10	10.89	10.63	9.48	9.72	9.45	9.60	10.35	9.64
MIN	8.04	8.28	8.06	7.88	8.12	7.90	7.76	7.95	7.72	7.53	7.14	8.06
CAL YR 1986	MEAN 8.89		MAX 11.04	MIN 7.83								
WTR YR 1987	MEAN 8.92		MAX 12.10	MIN 7.14								

SUWANNEE RIVER BASIN

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 Suwannoochee 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 April 1937, 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 above 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.--No estimated daily discharges. Records good. Low flow at times affected by manipulation of water level at Mixons Ferry Dam.

AVERAGE DISCHARGE.--54 years (water years 1928-31, 1938-87), 1,080 ft³/s, 11.64 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 greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 3	1600	*6,050	*14.73

Minimum discharge, 11 ft³/s, Oct. 26-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	35	648	1340	4030	5770	3490	692	122	212	120	128
2	40	34	668	1560	3990	5940	3390	624	114	314	109	335
3	35	33	681	1700	3950	6030	3310	565	108	371	103	379
4	29	32	628	1830	3880	6030	3240	512	103	428	99	501
5	26	30	543	2050	3860	5950	3160	465	100	476	93	578
6	22	29	462	2260	3950	5810	3060	428	95	518	88	1550
7	20	28	398	2380	4020	5690	2960	398	90	571	82	1820
8	22	27	352	2430	4060	5690	2850	378	87	612	76	1710
9	30	26	318	2430	4040	5640	2760	360	84	642	71	1510
10	29	25	371	2430	3970	5550	2670	337	81	776	69	1320
11	25	24	622	2460	3880	5380	2560	314	78	733	71	1160
12	24	23	847	2470	3760	5160	2460	294	75	648	83	1040
13	23	22	1130	2460	3660	4910	2350	279	71	572	133	934
14	25	21	1260	2430	3540	4650	2260	269	72	511	264	820
15	22	21	1310	2400	3430	4440	2170	263	73	466	373	685
16	19	21	1280	2410	3390	4230	2090	264	71	443	376	574
17	18	22	1200	2610	3380	4020	2010	267	70	412	401	506
18	17	80	1110	2840	3360	3800	1940	267	70	373	365	463
19	15	299	1040	3030	3320	3660	1870	262	70	337	294	404
20	14	289	978	3140	3280	3540	1790	257	67	306	252	352
21	14	452	913	3180	3380	3410	1700	251	65	279	236	305
22	13	449	848	3410	3560	3290	1610	241	65	255	238	262
23	13	357	838	3740	4020	3150	1540	230	72	232	216	234
24	12	287	1080	3950	4380	3000	1450	244	88	209	190	208
25	12	238	1230	4070	4660	2870	1300	215	109	189	174	184
26	12	203	1310	4160	4960	2860	1160	193	132	174	150	163
27	11	186	1320	4200	5260	3170	1040	179	151	164	132	146
28	11	177	1300	4200	5520	3490	945	165	163	155	117	132
29	14	212	1250	4160	---	3590	856	153	169	144	107	121
30	28	405	1190	4130	---	3560	770	142	174	136	104	113
31	37	---	1120	4090	---	3540	---	131	---	128	109	---
TOTAL	677	4087	28245	89950	110490	137820	64761	9639	2889	11786	5295	18637
MEAN	21.8	136	911	2902	3946	4446	2159	311	96.3	380	171	621
MAX	45	452	1320	4200	5520	6030	3490	692	174	776	401	1820
MIN	11	21	318	1340	3280	2860	770	131	65	128	69	113
CFSM	.02	.11	.72	2.30	3.13	3.53	1.71	.25	.08	.30	.14	.49
IN.	.02	.12	.83	2.66	3.26	4.07	1.91	.28	.09	.35	.16	.55
CAL YR 1986	TOTAL	364158	MEAN	998	MAX	6290	MIN	11	CFSM	.79	IN	10.75
WTR YR 1987	TOTAL	484276	MEAN	1327	MAX	6030	MIN	11	CFSM	1.05	IN	14.30

SUWANNEE RIVER BASIN

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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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 16...	0840	19	63	61	4.10	4.20	20.0	13.0	6.4	71
NOV 13...	0950	22	62	62	4.10	4.10	22.0	18.0	6.1	70
DEC 17...	0940	1210	73	65	4.00	3.90	13.0	15.5	7.7	73
JAN 22...	1000	3400	72	62	4.00	3.80	11.0	8.0	8.0	74
FEB 26...	0925	4940	62	56	4.00	3.90	11.0	11.5	7.9	72
MAR 19...	0930	3670	65	55	4.00	3.90	15.0	18.0	6.9	69
APR 22...	0950	1610	62	57	4.00	4.00	20.0	29.0	6.0	67
MAY 21...	0835	249	63	59	4.00	3.90	25.5	28.5	5.8	72
JUN 11...	0835	78	63	62	4.00	3.90	27.0	27.0	5.7	72
JUL 23...	0830	236	63	61	3.90	3.80	27.0	27.0	5.5	70
AUG 18...	0925	378	68	81	3.90	3.90	26.5	30.5	5.5	69
SEP 17...	0815	518	69	68	3.90	3.80	25.5	26.0	5.5	68

DATE	COLOR (PLAT- INUM- COBAL UNITS)	TUR- BID- ITY (NTU)	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)
OCT 16...	320	<1.0	--	1.3	20	<1.0	2	<0.020	0.110
NOV 13...	300	<1.0	--	1.4	<20	<1.0	8	<0.020	0.150
DEC 17...	340	1.0	--	1.4	270	<1.0	<1	<0.020	0.060
JAN 22...	200	2.0	--	1.5	--	--	<1	<0.020	0.030
FEB 26...	180	<1.0	--	0.3	20	<1.0	3	<0.020	<0.020
MAR 19...	360	<1.0	--	0.3	--	<1.0	13	<0.020	0.070
APR 22...	360	1.0	--	1.0	<20	<1.0	<1	<0.020	0.030
MAY 21...	320	<1.0	--	1.1	<20	<1.0	7	<0.020	0.040
JUN 11...	220	<1.0	--	0.7	<20	<1.0	2	<0.020	0.180
JUL 23...	280	<1.0	--	0.3	<20	<1.0	3	<0.020	0.050
AUG 18...	200	1.0	96	2.4	50	<1.0	<1	<0.020	0.050
SEP 17...	360	<1.0	130	--	70	<1.0	3	<0.020	0.220

SUWANNEE RIVER BASIN

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT 16...	--	--	--	0.160	45	6.9
NOV 13...	--	--	--	0.040	48	7.3
DEC 17...	--	--	--	0.020	44	8.2
JAN 22...	--	--	--	<0.020	36	1.3
FEB 26...	--	--	--	<0.020	42	5.2
MAR 19...	--	--	--	<0.020	49	6.0
APR 22...	--	--	--	<0.020	46	--
MAY 21...	--	--	--	<0.020	49	7.3
JUN 11...	--	--	--	0.030	46	6.4
JUL 23...	--	--	--	<0.020	48	8.3
AUG 18...	1.7	1.7	--	<0.020	46	6.0
SEP 17...	0.58	0.80	--	<0.020	24	8.6

SUWANNEE RIVER BASIN

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02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.

LOCATION.--Lat 31°23'03", long 83°11'33", Berrien County, Hydrologic Unit 03110202, at 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
APR 16...	0600	525	44	46	5.90	8.00	18.5	5.8	64
SEP 04...	0600	1.4	64	65	6.18	6.30	24.0	3.3	39

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB 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)	ALKA- LINITY LAB AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
APR 16...	150	8.4	11	7	2.3	1.2	2.6	30	0.4	1.8	4.0	9.8
SEP 04...	120	6.5	16	7	3.4	1.9	4.3	33	0.5	1.9	9.0	12

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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
APR 16...	9.0	7.5	<0.10	0.9	52	29	74	0.07	<0.100	<0.100	0.130	0.120
SEP 04...	11	9.1	0.10	14	64	53	0.24	0.09	0.500	0.210	0.100	0.150

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 16...	0.87	0.78	1.0	0.90	--	--	0.040	0.020	12	270	<1	<1
SEP 04...	0.70	0.45	0.80	0.60	1.3	--	0.070	<0.010	16	100	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 16...	<1	<10	<1	730	<5	<5	48	0.20	0.3	<1	22
SEP 04...	<1	<10	<1	1100	5	<5	340	0.10	<0.1	<1	8

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 October to December, 1931, published in WSP 1304.

REVISED RECORDS.--WSP 822: 1936, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 76.77 ft above 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.--Estimated daily discharges: July 26-29. Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--56 years (1932-87), 1,063 ft³/s, 10.31 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 greater than base discharge 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. 1	0100	*10,900	*26.60	Apr. 1	0400	3,340	14.15
Mar. 11	1200	7,350	24.80				

Minimum discharge, 30 ft³/s, Nov. 9-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	35	181	2290	10700	5610	3330	346	654	834	161	83
2	46	33	181	2680	10200	5570	3290	323	587	827	150	82
3	44	33	196	2900	9480	5530	3230	302	581	840	138	97
4	42	32	230	3060	8810	5490	3160	282	588	904	133	101
5	40	32	269	3280	8180	5390	3000	263	676	869	140	104
6	39	33	300	3380	7460	5220	2870	246	599	762	131	254
7	37	32	323	3530	6750	5250	2800	233	465	675	120	826
8	38	31	337	3800	6260	5690	2780	234	378	646	112	910
9	39	30	335	4140	5610	6270	2760	216	319	633	117	752
10	38	30	328	4470	4940	6840	2720	204	277	720	120	598
11	37	30	573	4750	4430	7300	2650	195	245	871	111	469
12	37	30	1070	4940	4070	7110	2530	189	223	1020	107	397
13	37	30	1240	5040	3820	6710	2400	192	205	1200	140	358
14	39	32	1100	5040	3640	6400	2220	192	197	1360	264	310
15	38	30	1040	4900	3490	6030	2010	190	186	1460	262	261
16	35	31	1060	4660	3520	5630	1780	212	175	1490	241	222
17	36	32	1110	4830	3700	5200	1570	208	163	1390	235	194
18	36	43	1160	4980	3820	4720	1370	224	159	1230	213	190
19	34	49	1200	5110	3850	4250	1200	291	152	1060	183	207
20	34	45	1230	5190	3770	3820	1050	386	142	887	168	194
21	33	53	1250	5160	3770	3470	934	479	139	714	161	173
22	32	54	1210	5170	4000	3170	838	489	194	569	169	150
23	32	55	1190	5240	4720	2930	755	428	394	436	162	139
24	32	56	1340	5340	5170	2700	688	389	582	357	145	127
25	32	66	1480	5570	5560	2490	624	346	628	298	125	116
26	33	87	1550	5870	5830	2360	563	374	635	260	114	105
27	32	101	1570	6170	5870	2290	505	499	640	230	111	98
28	32	107	1620	6490	5710	2290	455	663	649	200	107	92
29	35	118	1590	7280	---	2280	411	804	658	180	99	87
30	39	150	1800	9080	---	2810	373	859	652	169	92	86
31	37	---	1950	10600	---	3270	---	778	---	165	88	---
TOTAL	1143	1520	30113	154940	157130	144090	54866	11036	12142	23256	4619	7782
MEAN	36.9	50.7	971	4998	5612	4648	1829	356	405	750	149	259
MAX	48	150	1950	10600	10700	7300	3330	859	676	1490	264	910
MIN	32	30	181	2290	3490	2280	373	189	139	165	88	82
CFSM	.03	.04	.69	3.57	4.01	3.32	1.31	.25	.29	.54	.11	.19
IN.	.03	.04	.80	4.12	4.18	3.83	1.46	.29	.32	.62	.12	.21
CAL YR 1986	TOTAL	385745	MEAN	1057	MAX	18600	MIN	30	CFSM	.76	IN	10.25
WTR YR 1987	TOTAL	602637	MEAN	1651	MAX	10700	MIN	30	CFSM	1.18	IN	16.01

SUWANNEE RIVER BASIN

185

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
14...	0730	3.4	780	861	7.70	7.80	26.0	22.0	5.8	73
NOV										
11...	0800	3.2	760	764	7.70	7.90	24.0	20.0	6.3	76
DEC										
15...	0850	15	292	269	7.00	7.20	15.0	9.0	8.8	88
JAN										
20...	0830	98	117	104	6.70	6.50	11.0	5.0	11.0	101
FEB										
24...	0825	40	125	116	6.80	6.90	10.0	8.5	9.7	87
MAR										
17...	0800	18	250	233	7.00	7.00	15.0	11.0	8.8	88
APR										
20...	0805	8.1	380	362	7.40	7.50	19.0	19.0	8.3	91
MAY										
19...	0840	9.8	600	556	7.40	7.50	24.0	26.0	7.6	92
JUN										
09...	0645	5.0	596	668	7.60	7.90	24.0	20.0	6.5	78
JUL										
21...	0745	3.7	800	752	7.70	7.80	26.5	27.0	6.6	83
AUG										
20...	0745	5.1	920	985	7.70	7.90	27.0	25.0	6.7	86
SEP										
15...	0750	6.0	680	750	7.30	7.70	25.0	25.5	6.4	79

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
14...	30	1.0	0.6	690	166	<1	2.40	0.100	5.55	6.8
NOV										
11...	25	<1.0	1.5	110	162	<1	3.16	0.100	7.80	7.5
DEC										
15...	60	8.0	2.6	460	41	9	3.04	0.090	1.04	7.9
JAN										
20...	70	15	2.1	490	15	13	0.920	0.040	0.280	9.4
FEB										
24...	60	10	2.0	170	19	6	1.21	<0.020	0.360	16
MAR										
17...	40	5.0	0.7	--	40	16	2.85	0.060	1.21	6.0
APR										
20...	50	6.0	0.6	--	70	4	4.90	0.210	4.00	10
MAY										
19...	80	8.0	1.4	1300	83	2	2.30	<0.020	2.41	9.2
JUN										
09...	15	4.0	1.8	790	142	4	2.76	<0.020	4.41	27
JUL										
21...	--	3.0	1.4	--	163	6	3.40	0.150	5.43	6.6
AUG										
20...	--	7.0	2.8	330	150	<1	1.72	0.160	4.15	5.8
SEP										
15...	25	15	1.8	490	121	3	4.05	0.150	3.17	8.8

SUWANNEE RIVER BASIN

02317749 WITHLACOOCHIE 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 16...	1325	13	210	203	7.00	7.30	20.5	22.0	6.1	68
NOV 13...	1520	12	280	271	7.00	7.30	21.0	18.5	6.2	70
DEC 17...	1430	1410	79	75	6.00	5.50	13.5	19.0	7.7	74
JAN 22...	1450	2150	51	45	5.80	5.30	10.5	6.0	8.6	79
FEB 26...	1445	2100	40	37	6.20	5.70	11.0	10.5	9.5	86
MAR 19...	1455	698	56	50	6.20	5.80	15.5	25.0	7.8	80
APR 22...	1405	148	93	88	6.40	6.40	19.0	35.0	7.4	81
MAY 21...	1435	191	110	111	6.70	6.70	24.0	25.0	5.9	71
JUN 11...	1345	46	122	122	6.60	6.90	25.5	32.5	6.2	76
JUL 23...	1345	7.8	160	151	6.80	7.50	27.0	37.5	6.8	87
AUG 18...	1425	257	98	95	6.30	6.80	24.5	34.0	5.7	69
SEP 17...	1430	19	152	171	6.50	7.00	26.0	31.0	6.2	77

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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 16...	55	1.0	1.5	--	35	--	--	--	--
NOV 13...	40	<1.0	3.5	30	45	0.220	0.080	0.600	9.6
DEC 17...	160	6.0	2.1	--	5.0	<0.020	0.030	0.110	25
JAN 22...	180	8.0	0.8	--	4.0	0.090	0.040	0.070	16
FEB 26...	110	6.0	1.0	490	5.0	<0.020	0.150	0.050	17
MAR 19...	160	6.0	0.6	--	7.0	0.120	0.100	0.110	16
APR 22...	150	3.0	0.7	110	13	0.470	0.090	0.170	20
MAY 21...	180	10	1.2	170	13	0.190	<0.020	0.110	17
JUN 11...	120	4.0	1.4	20	18	<0.020	<0.020	0.200	17
JUL 23...	60	<1.0	0.6	70	34	0.170	0.040	0.320	9.6
AUG 18...	130	7.0	1.9	130	8.0	0.180	0.030	0.210	20
SEP 17...	90	4.0	0.3	<20	29	0.290	0.110	0.330	16

SUWANNEE RIVER BASIN

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02317757 WITHLACOOCHEE RIVER NEAR VALDOSTA, GA.

LOCATION.--Lat 30°51'00", long 83°20'23", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 94, 0.8 mi upstream from Little River, and 4 mi northwest of Valdosta.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
16...	1255	3.5	96	92	6.80	6.90	20.0	20.0	5.1	57
NOV										
13...	1440	6.0	92	87	6.70	7.00	21.0	18.5	5.3	60
DEC										
17...	1355	1200	79	75	6.00	5.70	13.5	18.0	7.7	74
JAN										
22...	1425	3670	49	45	5.90	5.50	10.5	7.0	8.2	75
FEB										
26...	1355	3520	40	36	6.00	5.70	11.0	10.5	8.8	80
MAR										
17...	1355	857	58	54	6.30	6.10	15.5	24.0	7.6	78
APR										
22...	1335	120	96	89	6.50	6.50	26.0	35.0	7.2	90
MAY										
21...	1345	220	130	125	6.70	6.80	24.0	29.0	6.3	76
JUN										
11...	1230	19	120	118	6.60	6.90	25.5	32.0	6.1	75
JUL										
23...	1240	3.3	118	113	6.70	7.00	26.5	38.0	5.5	69
AUG										
18...	1350	300	90	87	6.20	6.20	25.0	33.0	5.5	67
SEP										
17...	1240	3.7	122	121	6.50	6.90	25.5	32.5	5.9	73

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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									
16...	50	6.0	2.0	--	24	--	--	--	--
NOV									
13...	35	6.0	1.4	230	23	0.410	0.210	0.150	5.4
DEC									
17...	180	7.0	2.0	4900	5.0	0.030	0.050	0.130	23
JAN									
22...	150	10	0.7	--	4.0	0.070	0.030	0.080	16
FEB									
26...	130	7.0	0.8	110	5.0	0.050	<0.020	0.060	18
MAR									
17...	140	7.0	0.7	--	6.0	0.130	0.090	0.150	18
APR									
22...	--	4.0	1.8	1300	19	0.540	0.180	0.170	15
MAY									
21...	130	10	1.2	790	12	0.230	0.040	0.120	17
JUN									
11...	100	5.0	1.6	330	17	0.020	<0.020	0.190	13
JUL									
23...	25	4.0	0.4	230	35	0.580	0.320	0.150	4.5
AUG									
18...	120	10	1.9	2300	7.0	0.180	0.080	0.210	18
SEP									
17...	40	5.0	1.2	170	28	0.730	0.400	0.140	6.7

SUWANNEE RIVER BASIN

02318500 WITHLACOCHEE 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.--Streamflow includes return flow by the City of Valdosta. Laboratory chemical analyses by Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
16...	1150	25	185	181	6.80	7.00	20.5	19.0	5.6	63
NOV										
13...	1250	23	240	227	6.90	7.20	21.0	17.0	5.1	57
DEC										
17...	1245	2500	78	73	6.20	5.80	13.5	17.5	8.4	81
JAN										
22...	1320	7120	53	47	6.00	5.50	11.0	7.0	8.1	75
FEB										
26...	1250	8100	40	--	6.20	--	11.0	10.5	8.4	76
MAR										
19...	1250	2530	58	52	6.40	6.30	15.0	23.0	8.0	81
APR										
22...	1225	550	77	72	6.50	6.60	20.5	35.0	7.7	87
MAY										
21...	1225	1000	75	74	6.50	6.80	24.5	31.0	6.0	73
JUN										
11...	1115	100	106	103	6.60	7.00	26.0	31.0	6.4	80
JUL										
23...	1120	74	84	79	6.50	6.80	27.0	34.5	6.9	88
AUG										
18...	1230	610	83	80	6.30	6.60	25.5	33.0	6.0	74
SEP										
17...	1110	52	123	125	6.60	6.90	26.0	29.0	6.8	85

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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									
16...	40	3.0	0.4	1300	25	2.30	<0.020	1.29	9.2
NOV									
13...	20	<1.0	1.4	80	35	3.18	0.100	2.25	6.9
DEC									
17...	150	9.0	2.2	--	5.0	0.150	0.090	0.140	20
JAN									
22...	120	10	0.8	--	3.0	0.170	0.040	0.080	14
FEB									
26...	--	--	--	--	--	--	--	--	--
MAR									
19...	140	12	0.8	--	9.0	0.240	0.070	0.250	15
APR									
22...	120	5.0	2.0	20	14	0.610	0.160	0.160	16
MAY									
21...	120	17	1.2	490	10	0.290	0.020	0.090	12
JUN									
11...	110	5.0	1.1	20	17	0.230	<0.020	0.340	14
JUL									
23...	95	4.0	0.3	<20	12	0.640	0.250	0.310	13
AUG									
18...	110	15	1.8	11000	11	0.370	0.070	0.230	16
SEP									
17...	60	5.0	0.7	<20	16	1.31	0.130	--	12

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. Elevation of gage is 110 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Nov. 3-6. Records good.

AVERAGE DISCHARGE.--7 years (water years 1981-87), 251 ft³/s, 12.67 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft³/s, Feb. 12, 1986, gage height, 18.75 ft, from floodmarks.

No flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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. 1	1400	1,750	11.87	Feb. 24	2300	*2,550	*12.55
Jan. 22	2100	2,020	12.13	Apr. 2	0900	2,290	12.35

Minimum discharge, 0.13 ft³/s, Oct. 23-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.2	75	1350	635	1280	1890	25	42	72	6.8	8.5
2	2.2	1.8	80	1460	605	1280	2220	23	32	62	10	8.6
3	1.9	1.6	75	1380	661	1380	1890	23	25	46	15	8.3
4	1.6	1.3	68	1320	625	1360	1430	18	21	36	17	7.0
5	1.3	1.0	74	1510	667	1250	1070	15	18	29	15	5.6
6	1.1	.80	83	1410	764	1160	841	13	16	30	13	5.8
7	.91	.72	88	1320	790	1020	694	11	13	63	10	12
8	.73	.61	84	1280	761	920	571	11	12	81	7.7	18
9	.59	.52	77	1170	737	771	474	14	14	82	5.7	20
10	.56	.47	139	991	700	733	384	18	19	87	4.6	23
11	.55	.38	581	845	643	745	312	18	19	79	4.1	15
12	.56	.34	714	742	573	724	258	17	15	56	5.9	12
13	.51	.34	642	673	500	675	214	16	13	36	7.6	9.6
14	.48	.33	555	612	430	593	184	37	13	27	26	7.8
15	.49	.33	496	587	372	506	163	315	14	21	80	5.8
16	.49	.31	494	648	459	432	145	524	13	17	41	4.4
17	.42	.35	510	977	688	377	131	411	11	13	42	3.9
18	.34	2.7	486	1080	857	343	120	290	11	11	79	3.8
19	.27	7.0	431	1280	988	379	110	198	14	8.3	130	3.7
20	.23	7.6	384	1530	953	369	100	160	17	6.9	142	4.2
21	.20	13	333	1640	963	372	91	122	18	6.9	109	3.0
22	.16	12	286	1870	1060	409	82	93	31	7.6	78	2.1
23	.14	8.9	340	1940	1620	432	74	78	60	7.0	54	1.5
24	.13	7.1	593	1740	2100	436	67	70	94	7.4	37	1.1
25	.24	5.8	593	1720	2460	417	60	84	108	6.5	29	.80
26	4.6	7.9	643	1710	2170	359	51	156	102	6.5	23	1.9
27	3.0	17	736	1530	1670	300	45	173	114	12	19	3.2
28	1.9	15	798	1340	1240	330	38	124	133	12	15	2.5
29	2.5	21	773	1110	---	392	34	103	115	9.3	12	1.6
30	3.2	41	649	887	---	846	30	84	87	7.2	10	1.1
31	2.8	---	524	738	---	1380	---	60	---	7.6	8.0	---
TOTAL	36.90	179.40	12404	38390	26691	21970	13773	3304	1214	953.2	1056.4	205.80
MEAN	1.19	5.98	400	1238	953	709	459	107	40.5	30.7	34.1	6.86
MAX	4.6	41	798	1940	2460	1380	2220	524	133	87	142	23
MIN	.13	.31	68	587	372	300	30	11	11	6.5	4.1	.80
CFSM	.004	.02	1.49	4.60	3.54	2.64	1.71	.40	.15	.11	.13	.03
IN.	.01	.02	1.72	5.31	3.69	3.04	1.90	.46	.17	.13	.15	.03
CAL YR 1986	TOTAL	129003.76	MEAN	353	MAX	14600	MIN	.00	CFSM	1.31	IN	17.84
WTR YR 1987	TOTAL	120177.70	MEAN	329	MAX	2460	MIN	.13	CFSM	1.22	IN	16.62

SUWANNEE RIVER BASIN

02318725 OKAPILCO CREEK AT QUITMAN, GA.

LOCATION.--Lat 30°47'10", long 83°31'33", Brooks County, Hydrologic Unit 03110203, at U.S. Highways 84 and 221, 1.8 mi east of Quitman.

DRAINAGE AREA.--278 mi², approximately.

PERIOD OF RECORD.--November 1974 to current year. Published as Okapilco Creek near Quitman, water years 1974 through 1982.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
16...	1220	2.0	290	288	7.30	7.30	20.5	19.0	3.6	40
NOV										
13...	1320	1.5	360	343	7.30	7.40	21.0	17.5	1.5	17
DEC										
17...	1315	320	73	68	6.20	6.00	13.5	18.0	7.3	71
JAN										
22...	1350	1520	54	49	6.30	5.80	10.0	6.0	8.5	77
FEB										
26...	1310	1890	41	--	6.30	--	11.0	10.5	8.7	79
MAR										
19...	1315	340	64	58	6.40	6.30	23.5	15.5	7.5	90
APR										
22...	1255	102	74	69	6.50	6.50	19.5	35.0	6.4	71
MAY										
21...	1255	164	69	67	6.40	6.60	31.0	24.5	5.4	73
JUN										
11...	1150	16	100	96	6.60	6.80	31.5	26.0	4.0	55
JUL										
23...	1155	4.2	152	144	6.70	6.90	26.5	36.0	3.2	40
AUG										
18...	1305	66	87	85	6.50	6.70	25.0	33.0	5.0	61
SEP										
17...	1140	7.0	150	147	6.60	6.90	25.5	31.0	4.2	52

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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									
16...	30	32	0.5	2300	92	0.220	4.30	2.45	14
NOV									
13...	40	25	>8.8	11000	120	<0.020	5.61	2.75	18
DEC									
17...	120	12	1.9	460	7.0	0.290	0.070	0.120	15
JAN									
22...	120	17	1.1	--	6.0	0.250	0.080	0.090	11
FEB									
26...	--	--	--	--	--	--	--	--	--
MAR									
19...	120	10	1.3	--	8.0	0.640	0.410	0.140	10
APR									
22...	100	9.0	1.6	490	15	0.530	0.280	0.250	24
MAY									
21...	140	12	1.4	1300	10	0.260	0.080	0.100	14
JUN									
11...	120	7.0	2.7	1100	20	0.250	0.080	0.400	13
JUL									
23...	100	12	6.6	14000	35	0.680	0.960	1.00	15
AUG									
18...	80	16	3.0	13000	16	0.390	0.240	0.330	11
SEP									
17...	60	16	3.9	46000	32	0.700	0.560	0.870	20

SUWANNEE RIVER BASIN

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02318960 WITHLACOCHEE 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.--Streamflow includes return flow by the City of Valdosta. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
16...	1110	130	225	213	7.40	7.90	20.5	17.0	6.0	67
NOV										
13...	1210	110	242	233	7.30	7.70	21.0	16.5	4.6	52
DEC										
17...	1150	3530	70	65	6.20	5.90	13.5	17.5	8.2	79
JAN										
22...	1230	7930	52	46	6.20	5.80	11.0	6.0	8.0	74
FEB										
26...	1150	9640	40	37	6.30	6.10	11.0	12.0	8.4	76
MAR										
19...	1150	4080	66	61	6.60	6.50	15.0	21.0	7.9	80
APR										
22...	1140	856	115	109	6.90	7.20	20.0	34.0	6.3	70
MAY										
21...	1140	1380	93	89	6.70	7.00	24.5	31.0	5.8	70
JUN										
11...	1035	340	152	151	7.00	7.60	25.0	31.0	5.1	62
JUL										
23...	1025	250	165	164	6.90	7.60	26.5	32.0	4.8	60
AUG										
18...	1145	850	108	--	6.60	6.80	25.5	34.0	5.6	69
SEP										
17...	1020	190	188	191	6.90	7.70	25.5	30.0	6.0	74

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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										
16...	10	<1.0	0.7	50	91	1	0.180	<0.020	0.180	3.3
NOV										
13...	15	<1.0	1.4	20	98	10	0.340	0.150	0.220	3.9
DEC										
17...	140	10	1.9	790	6.0	<1	0.140	0.060	0.100	18
JAN										
22...	100	12	1.0	--	6.0	1	0.160	0.060	0.090	13
FEB										
26...	110	15	1.0	1300	5.0	6	0.090	<0.020	0.060	14
MAR										
19...	120	6.0	0.7	--	14	21	0.230	0.070	0.070	12
APR										
22...	100	4.0	1.5	50	37	--	0.520	0.110	0.130	10
MAY										
21...	110	13	1.0	140	20	14	0.300	0.070	0.080	17
JUN										
11...	60	2.0	0.8	<20	56	2	0.400	<0.020	0.160	8.5
JUL										
23...	5	1.0	0.9	50	62	1	0.370	0.040	0.140	8.9
AUG										
18...	100	14	1.9	3300	18	<1	0.370	0.030	0.270	11
SEP										
17...	25	4.0	1.1	<20	73	4	0.230	0.160	0.170	7.8

OCHLOCKNEE RIVER BASIN

02327205 OCHLOCKNEE 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
15...	0730	4.7	980	967	7.10	7.40	21.5	15.0	2.7	31
NOV										
12...	0835	3.8	880	897	7.10	7.30	21.0	20.0	1.9	22
DEC										
16...	0830	72	212	197	6.40	6.50	13.0	17.5	6.0	57
JAN										
21...	0820	1100	62	56	6.20	6.10	11.0	6.0	7.8	72
FEB										
25...	0830	840	53	49	6.30	6.30	10.5	10.0	8.9	80
MAR										
18...	0830	115	89	83	6.50	--	14.0	15.0	7.0	69
APR										
21...	0710	38	142	133	6.60	6.70	18.0	18.0	6.3	68
MAY										
20...	0815	44	137	132	6.50	6.70	23.0	25.0	5.0	59
JUN										
10...	0735	3.0	656	736	7.10	7.30	24.0	22.0	4.0	48
JUL										
22...	0735	2.5	816	818	7.20	7.20	25.5	26.0	4.1	51
AUG										
19...	0740	90	112	114	6.30	6.50	24.5	28.0	4.2	51
SEP										
16...	0740	5.5	640	690	7.10	7.20	24.5	23.5	4.2	51

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)
OCT										
15...	25	<1.0	1.2	--	92	1	6.00	<0.020	4.14	5.0
NOV										
12...	20	<1.0	3.0	230	95	9	9.49	0.060	5.77	6.2
DEC										
16...	120	6.0	4.5	210	15	<1	2.06	0.250	0.570	16
JAN										
21...	100	18	8.0	--	7.0	2	0.430	0.280	0.160	11
FEB										
25...	120	24	2.0	--	8.0	5	0.390	0.170	0.120	9.1
MAR										
18...	90	5.0	3.0	230	2.0	1	0.610	0.030	0.280	9.0
APR										
21...	120	8.0	--	80	16	1	1.70	0.130	0.550	10
MAY										
20...	100	8.0	4.0	90	14	6	0.840	0.080	0.510	21
JUN										
10...	20	<1.0	2.2	1300	68	10	5.00	0.210	2.72	7.1
JUL										
22...	20	<1.0	2.0	--	80	1	8.50	0.100	3.64	5.4
AUG										
19...	110	11	4.5	490	13	<1	0.380	0.100	0.500	16
SEP										
16...	30	2.0	3.0	790	81	3	5.50	0.130	2.58	18

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 15...	0845	15	455	436	7.10	7.40	22.0	16.5	4.1	47
NOV 12...	0950	12	568	565	7.20	7.40	21.0	23.0	4.4	50
DEC 16...	0945	581	108	98	6.60	6.60	13.0	15.0	8.6	82
JAN 21...	0910	5180	53	46	6.10	5.80	12.0	7.5	7.6	71
FEB 25...	0930	5250	41	38	6.20	6.10	11.0	10.5	9.1	83
MAR 18...	0930	789	73	68	6.60	6.30	14.0	16.0	8.5	83
APR 21...	0815	258	98	91	6.60	6.60	18.5	19.5	7.6	82
MAY 20...	0935	252	128	122	6.60	6.90	23.5	26.5	6.0	72
JUN 10...	0840	28	190	189	6.70	7.00	24.0	27.5	4.9	59
JUL 22...	0835	33	323	306	6.80	6.90	26.0	26.0	4.2	52
AUG 19...	0845	649	72	--	6.30	6.40	25.0	29.0	5.6	69
SEP 16...	1840	33	233	241	6.70	7.00	25.0	25.0	5.5	67

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	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 15...	20	5.0	2.3	--	72	4.16	0.100	2.17	11
NOV 12...	25	5.0	1.7	230	80	4.11	0.120	3.45	7.0
DEC 16...	110	11	1.6	170	13	0.560	0.040	0.250	13
JAN 21...	120	25	2.0	--	6.0	0.170	0.030	0.090	16
FEB 25...	120	19	1.4	--	6.0	0.190	<0.020	0.070	13
MAR 18...	95	6.0	1.3	40	9.0	0.440	0.020	0.310	5.7
APR 21...	110	6.0	1.4	490	16	0.950	0.150	0.290	8.6
MAY 20...	110	17	1.2	110	15	0.720	0.070	0.350	18
JUN 10...	110	9.0	1.0	130	30	1.32	0.030	0.800	9.9
JUL 22...	50	5.0	0.5	--	40	3.20	0.110	1.17	8.4
AUG 19...	110	15	1.5	90	9.0	0.480	0.080	0.230	14
SEP 16...	50	8.0	1.2	140	35	1.50	0.160	0.680	36

OCHLOCKONEE RIVER BASIN

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.

LOCATION.--Lat 30°43'53", long 84°14'12", Grady County, Hydrologic Unit 03120003, at county highway bridge, 1.5 mi 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
15...	0940	31	295	282	7.00	7.50	22.0	18.0	6.9	80
NOV										
12...	1045	22	385	370	7.10	7.50	21.0	23.0	6.9	78
DEC										
16...	1040	1060	142	131	6.60	6.60	13.0	15.5	8.7	83
JAN										
21...	0950	5700	84	77	6.20	6.00	12.0	8.0	7.6	71
FEB										
25...	1020	7230	46	43	6.40	6.30	11.0	12.0	8.5	77
MAR										
18...	1015	2020	68	63	6.60	6.30	14.0	16.5	7.8	76
APR										
21...	0855	769	108	101	6.60	6.60	18.5	23.0	7.1	77
MAY										
20...	1015	458	108	100	6.80	7.10	23.5	28.0	6.2	74
JUN										
10...	0940	90	170	170	6.80	7.20	24.5	28.5	5.7	69
JUL										
22...	0930	125	131	124	6.70	6.80	26.0	27.0	5.5	68
AUG										
19...	0920	1060	112	111	6.40	6.60	25.0	29.5	5.6	68
SEP										
16...	0915	130	204	207	6.80	7.00	25.5	27.0	6.2	77

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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 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)
OCT									
15...	30	7.0	--	1.0	--	46	5	2.88	0.100
NOV									
12...	50	9.0	--	1.4	790	51	15	1.89	0.100
DEC									
16...	100	15	--	1.2	330	12	<1	0.460	0.120
JAN									
21...	240	28	--	1.7	--	10	8	0.230	0.060
FEB									
25...	110	25	--	1.2	--	7.0	12	0.160	<0.020
MAR									
18...	95	7.0	--	1.2	270	9.0	1	0.370	0.020
APR									
21...	110	8.0	--	1.1	50	14	2	0.930	0.140
MAY									
20...	110	18	--	0.7	460	19	16	0.830	0.050
JUN									
10...	110	9.0	--	0.9	<20	31	8	1.01	<0.020
JUL									
22...	90	9.0	--	0.3	--	25	6	0.800	0.070
AUG									
19...	110	17	29	1.7	90	9.0	<1	0.920	0.060
SEP									
16...	60	10	23	1.4	70	36	8	1.09	0.270

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
15...	--	--	--	0.610	5.9
NOV					
12...	--	--	--	0.870	8.1
DEC					
16...	--	--	--	0.190	12
JAN					
21...	--	--	--	0.110	11
FEB					
25...	--	--	--	0.100	11
MAR					
18...	--	--	--	0.170	5.5
APR					
21...	--	--	--	0.190	7.3
MAY					
20...	--	--	--	0.260	17
JUN					
10...	--	--	--	0.430	8.5
JUL					
22...	--	--	--	0.290	10
AUG					
19...	1.0	1.1	2.0	0.220	12
SEP					
16...	0.23	0.50	1.6	0.360	12

APALACHICOLA RIVER BASIN

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 above National Geodetic Vertical Datum of 1929.

AVERAGE DISCHARGE.--6 years, 121 ft³/s, 36.76 in/yr.

REMARKS.--No estimated daily discharges. 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 discharge, 19 ft³/s, Oct. 6-8, 1986.

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 greater than base discharge 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)
Nov. 26	0945	1,450	3.75	Feb. 28	2100	*1,520	*3.87

Minimum discharge, 19 ft³/s, Oct. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	55	239	119	143	787	236	95	96	71	34	30
2	26	50	336	109	181	374	209	92	92	100	33	27
3	23	47	220	104	164	282	287	91	85	81	34	27
4	23	45	170	102	152	242	241	88	82	83	42	37
5	22	55	146	99	142	218	216	88	79	68	53	31
6	20	50	130	96	138	204	202	86	76	62	56	73
7	20	67	119	97	136	193	195	84	73	59	50	57
8	21	65	118	95	128	199	185	83	71	59	69	46
9	46	62	175	93	121	232	180	81	69	55	50	38
10	54	57	294	99	117	200	174	79	68	53	39	36
11	32	71	342	94	116	183	171	78	70	50	37	40
12	34	71	301	91	115	178	165	80	70	49	38	46
13	108	64	245	90	112	170	156	78	72	48	38	50
14	96	58	208	89	121	164	182	87	71	47	37	48
15	46	64	161	91	117	160	200	81	77	46	42	35
16	37	59	121	89	156	156	201	78	82	45	45	34
17	33	57	115	87	141	151	185	86	72	44	37	34
18	31	54	116	268	128	170	175	74	72	43	37	32
19	30	51	107	377	120	217	165	78	73	43	35	33
20	29	80	102	199	115	181	158	79	107	42	32	33
21	28	71	98	158	114	169	151	74	78	40	31	29
22	27	63	95	157	124	158	149	69	73	40	31	28
23	27	68	165	136	126	153	145	70	71	39	29	27
24	31	73	418	129	116	166	139	67	66	37	29	27
25	680	85	215	218	112	220	131	68	66	36	35	27
26	236	641	169	219	122	188	125	78	81	38	39	26
27	101	261	149	169	246	192	122	78	63	38	33	26
28	75	165	136	153	960	187	124	80	59	35	31	26
29	62	133	128	142	---	181	119	109	57	36	32	28
30	55	122	120	151	---	276	109	121	56	36	29	65
31	51	---	114	149	---	306	---	101	---	37	30	---
TOTAL	2130	2864	5572	4269	4583	6857	5197	2581	2227	1560	1187	1096
MEAN	68.7	95.5	180	138	164	221	173	83.3	74.2	50.3	38.3	36.5
MAX	680	641	418	377	960	787	287	121	107	100	69	73
MIN	20	45	95	87	112	151	109	67	56	35	29	26
CFSM	1.54	2.14	4.04	3.09	3.68	4.96	3.88	1.87	1.66	1.13	.86	.82
IN.	1.78	2.39	4.65	3.56	3.82	5.72	4.33	2.15	1.86	1.30	.99	.91
CAL YR 1986	TOTAL	26607	MEAN	72.9	MAX 680	MIN 20	CFSM 1.64	IN 22.19				
WTR YR 1987	TOTAL	40123	MEAN	110	MAX 960	MIN 20	CFSM 2.47	IN 33.47				

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 Soque 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 above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Aug. 26 to Sept. 6. Records good, except those for the period of questionable gage-height record, Aug. 26 to Sept. 6, which are fair. Some regulation at low flow from Habersham Mill powerplant.

AVERAGE DISCHARGE.--30 years, 830 ft³/s, 35.78 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 greater than base discharge 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)
Oct. 25	2130	8,890	8.42	Feb. 28	2300	11,900	10.44
Nov. 26	1300	*12,700	*10.99				

Minimum daily discharge, 108 ft³/s, Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189	410	1110	718	807	5460	1250	735	666	451	345	240
2	193	309	1510	714	1050	2010	1120	731	620	631	302	250
3	182	450	1150	635	990	1540	1650	704	572	976	402	240
4	172	388	932	637	886	1340	1470	718	554	888	392	220
5	108	361	813	643	837	1220	1220	684	534	662	434	290
6	166	346	741	607	809	1140	1140	683	512	578	429	270
7	188	391	675	601	844	1080	1080	672	469	521	626	610
8	137	440	726	589	781	1080	1040	652	516	491	532	450
9	125	317	726	580	765	1230	1010	637	475	474	485	393
10	348	462	1090	617	733	1100	976	619	478	455	430	340
11	293	415	1500	558	721	1020	968	637	478	443	358	373
12	143	471	1290	592	717	998	935	653	486	339	338	343
13	565	379	1020	556	698	968	929	736	487	458	306	306
14	1030	365	890	553	712	943	1020	858	425	408	303	393
15	510	390	850	562	736	914	1230	776	535	387	303	298
16	365	291	730	554	912	921	1100	686	768	317	297	300
17	277	454	702	549	885	886	1020	674	580	332	366	298
18	249	402	715	1360	801	916	970	645	543	350	324	295
19	159	377	667	3480	760	1200	928	671	590	312	307	281
20	229	429	644	1400	728	1020	920	735	845	392	300	201
21	226	536	521	1040	721	951	895	689	673	359	290	280
22	218	498	615	999	746	900	878	642	598	366	260	276
23	209	351	658	921	864	900	865	617	522	322	250	257
24	221	524	2600	827	757	902	847	588	510	312	250	242
25	4230	513	1340	1280	732	1360	830	582	580	312	240	201
26	2950	5790	1020	1630	751	1120	804	612	825	304	240	132
27	1090	2030	892	1100	1670	1100	808	580	592	388	300	156
28	781	1190	823	970	6830	1170	816	595	496	350	320	267
29	636	949	793	894	---	1020	776	726	455	334	270	257
30	548	817	735	879	---	1270	771	715	448	309	260	330
31	459	---	703	855	---	1740	---	786	---	342	260	---
TOTAL	17196	21045	29181	27900	29243	39419	30266	21038	16832	13563	10519	8789
MEAN	555	702	941	900	1044	1272	1009	679	561	438	339	293
MAX	4230	5790	2600	3480	6830	5460	1650	858	845	976	626	610
MIN	108	291	521	549	698	886	771	580	425	304	240	132
CFSM	1.76	2.23	2.99	2.86	3.31	4.04	3.20	2.16	1.78	1.39	1.08	.93
IN.	2.03	2.49	3.45	3.29	3.45	4.66	3.57	2.48	1.99	1.60	1.24	1.04

CAL YR 1986	TOTAL	155630	MEAN 426	MAX 5790	MIN 94	CFSM 1.35	IN 18.38
WTR YR 1987	TOTAL	264991	MEAN 726	MAX 6830	MIN 108	CFSM 2.31	IN 31.29

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 19...	1230	389	33	33	7.00	7.00	12.0	17.5	9.3	89
JAN 27...	1300	1080	28	27	6.80	6.50	5.0	3.0	12.6	102
MAR 11...	1230	1020	25	23	7.00	6.80	8.5	4.0	11.0	97
MAY 13...	0730	760	28	28	6.80	6.80	17.0	21.0	8.5	91
JUL 15...	1215	407	29	29	7.10	6.80	24.0	28.0	8.4	104
SEP 09...	0830	478	25	25	7.00	7.00	21.0	24.0	7.8	91

DATE	TUR- BID- ITY (NTU)	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)
NOV 19...	5.0	2.0	270	9.0	0.290	0.100	<0.020	2.2
JAN 27...	12	0.8	460	6.0	0.610	0.070	<0.030	2.9
MAR 11...	5.0	0.6	170	8.0	0.380	0.170	0.030	1.9
MAY 13...	20	1.3	3300	8.0	0.300	0.110	0.110	7.4
JUL 15...	10	0.8	130	8.0	0.290	<0.020	<0.020	2.5
SEP 09...	24	1.4	940	8.0	0.170	0.100	0.060	3.8

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.--July 1929 to January 1932, April 1940 to current year. Monthly discharge only for July 1929, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 1,128.6 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--49 years (water years 1930-31, 1941-87), 363 ft³/s, 32.22 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft³/s, Aug. 23, 1967, gage height, 25.17 ft; minimum daily, 44 ft³/s, Aug. 6, 1986.

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 greater than base discharge 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. 25	2000	4,560	9.05	Jan. 19	0315	3,040	6.83
Nov. 26	1315	3,850	8.07	Feb. 28	2245	*5,430	*10.16

Minimum daily discharge, 50 ft³/s, Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	161	458	276	355	2560	567	288	220	161	93	75
2	66	156	623	257	530	1080	507	287	211	291	89	72
3	65	144	451	241	449	795	784	284	196	479	101	65
4	61	138	354	232	389	654	661	276	189	384	118	68
5	59	147	306	225	360	575	559	269	185	243	130	75
6	54	149	271	217	345	526	511	267	176	198	128	110
7	51	164	250	213	353	494	487	261	172	225	167	159
8	50	185	256	209	326	490	437	253	168	176	123	119
9	59	170	271	206	305	531	416	245	164	161	120	128
10	135	168	488	227	297	469	399	242	161	152	103	95
11	99	170	681	209	293	442	395	240	162	145	99	113
12	83	212	547	200	291	435	378	244	167	139	95	123
13	260	182	399	197	282	419	366	257	168	133	94	150
14	559	169	336	193	290	402	433	298	176	130	91	115
15	178	178	307	204	312	391	509	274	184	126	88	93
16	129	173	285	197	407	383	489	252	252	123	116	86
17	112	169	268	201	374	370	453	240	192	119	96	92
18	99	159	280	894	329	394	416	230	187	117	92	84
19	92	150	250	2010	308	554	396	236	191	115	89	87
20	89	235	237	781	294	436	381	258	259	113	83	130
21	89	249	224	521	291	403	368	265	226	108	80	89
22	88	198	214	492	316	382	358	238	208	106	77	79
23	87	190	241	417	359	366	348	230	180	104	74	74
24	85	222	1010	368	310	376	334	224	173	101	72	74
25	2530	227	522	731	297	603	326	213	187	98	70	72
26	1510	1670	391	928	313	472	319	206	227	95	71	69
27	428	871	335	567	884	489	310	223	187	98	75	66
28	271	484	303	472	3430	530	323	288	160	93	73	64
29	214	367	293	420	---	445	302	231	154	88	73	63
30	186	311	268	400	---	607	294	220	149	89	75	100
31	166	---	255	372	---	786	---	241	---	99	70	---
TOTAL	8020	8168	11364	13077	13089	17859	12826	7780	5631	4809	2925	2789
MEAN	259	272	367	422	467	576	428	251	188	155	94.4	93.0
MAX	2530	1670	1010	2010	3430	2560	784	298	259	479	167	159
MIN	50	138	214	193	282	366	294	206	149	88	70	63
CFSM	1.69	1.78	2.40	2.76	3.05	3.77	2.80	1.64	1.23	1.01	.62	.61
IN.	1.95	1.99	2.76	3.18	3.18	4.34	3.12	1.89	1.37	1.17	.71	.68

CAL YR 1986	TOTAL	64279	MEAN	176	MAX	2530	MIN	44	CFSM	1.15	IN	15.63
WTR YR 1987	TOTAL	108337	MEAN	297	MAX	3430	MIN	50	CFSM	1.94	IN	26.34

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.--July 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. Prior to October 1971, published as 02334500, Chattahoochee River "near Buford". Monthly discharge only for July to December 1901, October 1941 to January 1942, published in WSP 1304.

REVISED RECORDS.--WRD 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 above 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.--No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier beginning January 1956 (See "Lakes and Reservoirs in Apalachicola River basin", station 02334400.)

AVERAGE DISCHARGE.--46 years, 2,096 ft³/s, 27.37 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 discharge, 26 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, 11,100 ft³/s, Sept. 25, gage height, 7.91 ft; minimum daily discharge, 398 ft³/s, Mar. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	880	990	1010	434	476	835	1650	1200	1260	1030	3610
2	1030	1040	989	1010	946	1200	833	675	1200	1250	980	3600
3	1040	1050	996	1020	940	441	855	859	1200	1240	3880	3600
4	732	1040	995	1020	913	1180	522	1210	1190	717	3870	3620
5	742	1060	979	1020	927	435	517	1210	1190	1060	3890	1010
6	1050	1030	980	1020	925	926	1240	1210	698	1990	3890	923
7	1050	1030	990	1040	428	430	1130	1210	865	1990	3860	3850
8	1050	863	986	1010	437	434	1080	1220	1920	1980	1020	3850
9	1050	865	987	1370	1340	798	1090	682	1930	1980	969	3840
10	1040	1020	990	740	1360	795	1070	852	1910	1970	3870	3840
11	731	1040	991	746	1340	797	475	1220	1920	716	3890	3850
12	727	1010	978	1020	1350	799	515	1210	1920	1060	3880	1020
13	1140	1020	990	1020	897	793	2320	1220	858	1250	3900	926
14	1150	1020	990	1030	427	435	2310	1220	860	1250	3910	3460
15	1140	1650	994	1030	621	432	2300	1210	1530	1250	1040	3470
16	1140	1040	994	1020	427	764	2310	679	1530	1240	969	3460
17	1150	1020	1000	433	967	763	2300	856	1240	1240	4310	3400
18	1030	1020	998	684	894	765	506	1230	1230	979	3890	3320
19	1030	1020	993	816	432	750	512	1230	1230	985	3920	1020
20	1170	1130	1000	610	959	753	2670	1220	709	2730	3920	937
21	1170	1040	1000	916	425	429	2660	1230	1040	2730	3940	2170
22	1160	1040	1000	917	626	431	4380	1210	1250	2720	949	1820
23	1170	1010	984	925	901	771	2690	688	1240	2730	882	3100
24	1150	1010	1000	435	899	760	2730	869	1240	2700	3570	3110
25	1110	1010	995	647	430	760	584	1250	1240	956	3560	3090
26	1110	1030	1000	445	750	762	593	1220	1240	964	3570	927
27	1030	1000	999	924	441	764	1650	1220	708	2750	3570	847
28	1070	960	999	915	523	402	1660	1220	1050	2740	3580	3140
29	1060	1020	1010	941	---	398	1670	1230	894	2740	1070	3250
30	1070	982	1020	893	---	773	1660	694	897	2730	1000	3140
31	1040	---	1010	493	---	833	---	862	---	2740	3610	---
TOTAL	32372	30950	30827	27120	21959	21249	45667	33766	37129	54637	90189	81200
MEAN	1044	1032	994	875	784	685	1522	1089	1238	1762	2909	2707
MAX	1170	1650	1020	1370	1360	1200	4380	1650	1930	2750	4310	3850
MIN	727	863	978	433	425	398	475	675	698	716	882	847
MEAN†	1792	1906	2079	2438	2984	2956	2078	1284	1206	793	577	581
CFSM†	1.72	1.83	2.00	2.34	2.87	2.84	2.00	1.23	1.16	.76	.55	.56
INT†	1.98	2.04	2.31	2.70	2.99	3.27	2.23	1.42	1.29	.88	.63	.62
CAL YR 1986 TOTAL	424450			1163	4190	473		947		.91	12.37	
WTR YR 1987 TOTAL	507065			1389	4380	398		1715		1.65	22.39	

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

201

02334885 SUWANEE CREEK NEAR SUWANEE, GA.

LOCATION.--Lat 34°01'56", long 84°05'22", Gwinnett County, Hydrologic Unit 03130001, on upstream side of right bank bridge pier on State Highway 13 (old U.S. Highway 23), 0.2 mi upstream from Bennett Creek, 0.6 mi downstream from Mill Creek, 2.4 mi southwest of Suwanee, and 3.1 mi upstream from mouth.

DRAINAGE AREA.--46.8 mi².

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 909.71 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,150 ft³/s, Nov. 26, 1986, gage height, 10.41 ft; minimum discharge, 0.86 ft³/s, July 22, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0900	1,080	8.74	Jan. 19	1100	1,290	9.13
Nov. 26	2300	*2,150	*10.41	Mar. 1	1400	1,400	9.32

Minimum discharge, 1.5 ft³/s, Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	39	189	54	68	1080	96	36	32	21	8.3	2.6
2	8.8	37	176	49	82	242	82	35	27	25	7.2	2.4
3	8.2	34	103	45	79	135	118	34	25	62	7.4	2.0
4	7.7	32	77	44	67	109	100	33	26	34	9.8	2.0
5	7.4	32	65	43	62	94	80	32	25	27	14	1.7
6	5.8	32	57	42	61	85	74	32	23	25	14	3.1
7	5.0	31	52	41	167	80	69	31	22	25	23	12
8	4.7	30	50	41	95	86	67	39	21	22	15	32
9	5.2	30	49	40	73	108	64	37	20	21	13	12
10	35	29	70	43	66	83	61	31	19	19	11	7.7
11	29	30	168	41	64	75	60	27	19	18	9.7	6.7
12	17	34	115	39	62	74	59	32	19	17	8.9	6.5
13	149	31	75	39	59	71	57	31	21	16	8.6	7.5
14	153	29	62	38	57	67	64	34	25	14	8.3	7.2
15	43	36	57	43	57	65	65	35	23	13	7.6	5.7
16	31	37	53	42	81	64	62	32	41	11	7.3	5.1
17	26	34	52	47	70	62	61	30	41	11	7.0	5.0
18	22	33	75	271	61	74	58	28	27	10	6.8	4.9
19	19	31	57	972	58	113	56	37	32	9.9	6.3	6.0
20	18	152	50	246	55	77	54	37	67	9.6	5.4	10
21	17	127	47	116	54	69	53	35	41	9.1	4.5	6.7
22	16	60	45	127	58	64	52	34	31	8.4	3.3	5.2
23	15	48	61	121	64	61	52	31	29	8.0	3.0	4.7
24	15	48	207	90	55	62	49	29	28	7.6	2.9	4.4
25	229	58	104	210	52	81	46	28	29	6.9	2.6	4.1
26	698	695	73	358	61	70	42	28	27	6.9	2.9	3.7
27	116	776	62	137	249	74	41	27	24	6.9	3.1	3.4
28	63	132	57	103	672	110	41	26	22	6.5	3.0	3.2
29	47	86	53	88	---	73	38	28	21	7.9	2.5	3.3
30	40	110	51	83	---	109	36	26	20	17	2.1	5.0
31	36	---	48	73	---	187	---	31	---	9.3	1.9	---
TOTAL	1895.8	2913	2460	3726	2709	3804	1857	986	827	505.0	230.4	185.8
MEAN	61.2	97.1	79.4	120	96.8	123	61.9	31.8	27.6	16.3	7.43	6.19
MAX	698	776	207	972	672	1080	118	39	67	62	23	32
MIN	4.7	29	45	38	52	61	36	26	19	6.5	1.9	1.7
CFSM	1.31	2.08	1.70	2.56	2.07	2.63	1.32	.68	.59	.35	.16	.13
IN.	1.51	2.32	1.96	2.96	2.15	3.02	1.48	.78	.66	.40	.18	.15
CAL YR 1986	TOTAL	14266.7	MEAN	39.1	MAX	776	MIN	1.1	CFSM	.84	IN	11.34
WTR YR 1987	TOTAL	22099.0	MEAN	60.5	MAX	1080	MIN	1.7	CFSM	1.29	IN	17.57

APALACHICOLA RIVER BASIN

02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA.

LOCATION.--Lat 33°59'50", long 84°12'07", Gwinnett-Fulton County line, Hydrologic Unit 03130001, on downstream side of right bank pier of bridge on State Highway 141, 1.5 mi 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 October to December 1902, 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 above 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.--No estimated daily discharges. 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.--75 years (water years 1903-46, 1957-87), 2,291 ft³/s, 26.59 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, 8,820 ft³/s, Aug. 17, gage height, 10.19 ft; minimum daily, 621 ft³/s, Mar. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	1090	1660	1190	674	3350	1090	1840	1040	1200	2180	3670
2	1080	970	1530	1190	1120	1450	1050	1240	1270	1400	1020	3660
3	1050	1150	1350	1640	1190	1530	1170	816	1270	1470	3100	3680
4	916	1130	1270	1160	1120	864	1160	1230	1290	1010	4040	3690
5	744	1120	1230	1170	1110	1410	785	1340	1260	943	4010	1750
6	944	1140	1190	1160	1110	746	817	1330	1090	1810	4080	976
7	1040	1130	1180	1180	921	1140	1420	1340	828	2120	4090	2410
8	1050	1120	1180	1160	749	713	1340	1330	1550	2110	1850	4020
9	1050	957	1180	1500	1320	765	1300	1070	2030	2100	1110	3910
10	1200	958	1250	913	1520	1020	1350	865	2040	2090	2850	3900
11	805	1120	1520	863	1510	991	1300	1180	2030	1200	3980	3920
12	786	1150	1430	1130	1510	1000	727	1330	2050	924	3990	2530
13	1150	1600	1760	1120	1220	984	1510	1330	1370	1170	4040	956
14	1560	1140	729	1150	660	951	2600	1350	935	1300	3990	2310
15	1280	1190	1210	1170	630	642	2580	1350	1490	1290	2140	3520
16	1210	1170	1200	1160	834	642	2580	990	1660	1290	1030	3520
17	1200	1160	1200	649	700	905	2590	862	1510	1280	2930	3500
18	1140	1140	1250	1660	1130	943	1760	1180	1370	1130	4050	3420
19	1080	1130	1210	3270	1040	1010	721	1330	1400	989	4030	2190
20	1120	1400	1680	1530	663	934	1980	1340	1170	2230	4050	939
21	1170	1430	675	1240	1090	928	2970	1340	990	2850	4060	1930
22	1210	1220	1170	1290	786	628	4010	1320	1200	2850	2420	2170
23	1200	1190	1230	1300	690	621	3610	972	1330	2880	959	2690
24	1200	1190	1470	787	1050	903	3030	837	1350	2810	2190	3210
25	2280	1200	1340	1290	1040	953	1700	1140	1340	1580	3640	3190
26	2300	2690	1250	1500	658	931	755	1320	1330	991	3690	1530
27	1400	2700	1220	1320	1360	943	1370	1300	1040	2060	3650	837
28	1170	1400	1200	1230	2590	1080	1860	1310	910	2850	3680	2580
29	1180	1240	1190	1200	---	645	1860	1330	974	2490	2430	3230
30	1150	1460	1190	1150	---	733	1850	1060	906	2920	1050	3250
31	1160	---	1180	773	---	1240	---	848	---	2830	2810	---
TOTAL	36865	38685	39324	39045	29995	31595	52845	37420	40023	56167	93139	83088
MEAN	1189	1290	1269	1260	1071	1019	1762	1207	1334	1812	3004	2770
MAX	2300	2700	1760	3270	2590	3350	4010	1840	2050	2920	4090	4020
MIN	744	957	675	649	630	621	721	816	828	924	959	837
CAL YR 1986 TOTAL	482943			1323	MAX 4510	MIN 649	MEAN† 1107	CFSM† .95	INT† 12.85			
WTR YR 1987 TOTAL	578191			1584	MAX 4090	MIN 621	MEAN† 1910	CFSM† 1.63	INT† 22.17			

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02335450 CHATTAHOOCHEE RIVER ABOVE ROSWELL, GA.

LOCATION.--Lat 33°59'09", long 84°18'58", Fulton County, Hydrologic Unit 03130001, on right bank at Eves Road, 3.3 mi upstream from Big Creek, and 2.2 mi upstream from State Highway 400 (revised), 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 above National Geodetic Vertical Datum of 1929. Prior to July 7, 1976, at site 1.8 mi downstream at datum 8.51 ft lower.

REMARKS.--No estimated daily discharges. 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.--29 years (water years 1942-59, 1977-87), 2,086 ft³/s, 23.22 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,000 ft³/s, Jan. 8, 1946, from rating curve extended above 30,000 ft³/s basis of computation of peak flow over Morgan Falls Dam 6 miles downstream, gage height, 23.4 ft from floodmark (site and datum then in use); minimum daily discharge, 315 ft³/s, Aug. 11, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,640 ft³/s, Sept. 8, gage height, 7.74 ft; minimum daily discharge, 566 ft³/s, Feb. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1060	1110	1930	1170	652	3730	1140	1620	820	1130	2570	3450		
2	999	929	1640	1150	947	1570	1080	1540	1150	1560	1010	3450		
3	1020	1090	1390	1490	1160	1550	1230	751	1150	1670	2160	3480		
4	1020	1090	1240	1140	1050	760	1180	882	1160	1320	4050	3490		
5	705	1100	1220	1110	1040	1390	840	1190	1170	838	3890	2540		
6	722	1080	1180	1110	1030	723	761	1220	1150	1440	3930	919		
7	975	1130	1140	1120	1150	1080	1330	1200	705	2030	4200	1330		
8	1030	1120	1140	1110	739	746	1290	1170	950	1970	2690	4000		
9	1050	941	1140	1390	1040	785	1230	1200	1790	1940	1090	3780		
10	1370	915	1250	927	1470	1000	1220	673	1810	1970	1900	3740		
11	1120	1080	1630	829	1440	983	1230	863	1820	1650	3780	3750		
12	766	1140	1540	1090	1370	975	687	1330	1840	773	3850	3270		
13	1460	1480	1700	1060	1180	951	1200	1390	1770	994	3840	910		
14	1840	1170	766	1040	695	944	2400	1330	911	1210	3770	1330		
15	1330	1130	1220	1070	587	616	2430	1310	1150	1260	2890	3330		
16	1200	1270	1170	1090	824	624	2380	1130	1750	1200	1050	3300		
17	1210	1160	1150	761	624	866	2370	741	1560	1180	1900	3290		
18	1130	1140	1230	2220	1070	984	1800	855	1360	1230	3850	3200		
19	1030	1060	1210	3840	992	1080	673	1230	1520	950	3820	2900		
20	1100	1610	1610	1770	566	934	1390	1290	1740	1520	3830	916		
21	1170	1520	709	1210	1030	892	2670	1260	989	2630	3810	1250		
22	1150	1230	1110	1320	665	639	3100	1170	1090	2630	3150	2100		
23	1140	1200	1230	1260	690	626	3820	1140	1270	2680	929	2120		
24	1170	1200	1510	847	1020	899	2750	682	1560	2600	1200	3070		
25	2650	1180	1400	1370	968	961	2000	859	1580	2090	3390	2980		
26	2690	3240	1250	1770	667	948	646	1180	1330	950	3510	2020		
27	1710	2980	1190	1280	1470	966	757	1140	1260	1270	3450	735		
28	1170	1470	1190	1200	3240	1090	1650	1170	799	2630	3450	1650		
29	1150	1220	1160	1140	---	673	1680	1180	975	2440	3030	3040		
30	1100	1600	1140	1100	---	822	1670	1200	925	2690	975	3100		
31	1140	---	1160	798	---	1250	---	705	---	2620	1880	---		
TOTAL	38377	39585	39545	39782	29376	32057	48604	34601	39054	53065	88844	78440		
MEAN	1238	1320	1276	1283	1049	1034	1620	1116	1302	1712	2866	2615		
MAX	2690	3240	1930	3840	3240	3730	3820	1620	1840	2690	4200	4000		
MIN	705	915	709	761	566	616	646	673	705	773	929	735		
CAL YR 1986	TOTAL	451314	MEAN	1236	MAX	4210	MIN	427	MEAN†	1020	CFSM†	.84	INT†	11.35
WTR YR 1987	TOTAL	561330	MEAN	1538	MAX	4200	MIN	566	MEAN†	1864	CFSM†	1.53	INT†	20.75

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

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 above National Geodetic Vertical Datum of 1929 (levels by U.S. Soil Conservation Service).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--27 years, 113 ft³/s, 21.31 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft³/s, Feb. 3, 1982, gage height, 13.05 ft; minimum daily, 1.7 ft³/s, July 22, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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. 27	0500	831	7.68	Mar. 1	1000	*2,410	*10.49
Jan. 20	0200	1,610	9.50				

Minimum daily discharge, 5.4 ft³/s, Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	64	273	85	103	2110	154	69	83	54	11	10
2	28	62	243	79	122	1030	126	66	56	93	9.7	10
3	24	58	151	71	127	247	205	66	51	78	11	9.0
4	23	56	111	70	106	171	228	65	55	63	18	7.2
5	20	58	94	69	97	143	143	64	51	57	20	5.5
6	18	57	86	67	94	130	124	63	47	50	28	5.4
7	17	56	80	65	160	123	115	63	44	49	56	13
8	17	60	78	64	123	128	109	61	43	44	30	107
9	35	56	82	63	102	159	104	57	42	40	47	46
10	171	59	146	73	94	129	101	55	40	38	27	23
11	188	56	227	69	94	114	97	56	40	35	23	19
12	65	59	218	62	92	118	95	63	51	33	21	18
13	224	54	131	61	88	113	93	63	50	31	20	18
14	376	51	104	61	86	106	125	67	53	29	19	18
15	177	65	95	70	86	103	198	68	54	28	17	16
16	75	67	87	68	122	101	183	61	89	26	16	15
17	61	64	83	72	108	100	120	59	75	24	17	14
18	50	61	130	373	97	118	107	55	59	23	17	14
19	42	56	100	1000	92	174	99	56	70	22	17	15
20	40	159	87	1210	88	126	93	55	92	21	17	16
21	39	249	80	264	87	111	88	54	90	19	14	14
22	37	111	75	218	94	104	86	56	98	18	12	12
23	36	86	96	207	112	101	85	52	66	18	12	11
24	36	87	183	152	93	105	79	50	73	16	12	11
25	326	79	133	323	86	131	76	48	65	15	11	10
26	622	329	104	570	99	112	73	47	55	15	12	9.5
27	555	422	92	337	340	113	72	45	50	14	11	8.9
28	122	152	85	167	794	188	73	46	45	12	10	8.5
29	86	105	80	139	---	127	71	46	43	13	9.5	9.3
30	74	138	78	122	---	181	72	45	41	11	11	31
31	66	---	73	110	---	243	---	45	---	11	9.5	---
TOTAL	3669	3036	3685	6361	3786	7059	3394	1766	1771	1000	565.7	524.3
MEAN	118	101	119	205	135	228	113	57.0	59.0	32.3	18.2	17.5
MAX	622	422	273	1210	794	2110	228	69	98	93	56	107
MIN	17	51	73	61	86	100	71	45	40	11	9.5	5.4
CFSM	1.64	1.40	1.65	2.85	1.88	3.17	1.57	.79	.82	.45	.25	.24
IN.	1.90	1.57	1.90	3.29	1.96	3.65	1.75	.91	.92	.52	.29	.27
CAL YR 1986	TOTAL	21042.8	MEAN	57.7	MAX	622	MIN	1.7	CFSM	.80	IN	10.87
WTR YR 1987	TOTAL	36617.0	MEAN	100	MAX	2110	MIN	5.4	CFSM	1.39	IN	18.92

APALACHICOLA RIVER BASIN

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02335870 SOPE CREEK NEAR MARIETTA, GA.

LOCATION.--Lat 33°57'14", long 84°26'36", Cobb County, Hydrologic Unit 03130001, on downstream side of bridge on Lower Roswell Road (South Roswell Road), 0.3 mi downstream from Bishop Creek, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--29.2 mi², approximately.

PERIOD OF RECORD.--October 1984 to current year. Occasional low-flow measurements, water years 1944, 1951, 1953-55, 1957, 1961).

GAGE.--Water-stage recorder. Datum of gage is 881.37 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Aug. 15-17, 21-28. Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,710 ft³/s, Oct. 25, 1986, gage height, 12.01 ft; minimum daily discharge, 0.89 ft³/s, July 31, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1948, 21.1 ft, Mar. 30, 1977, from floodmark, present site and datum, discharge, 4,000 ft³/s, from rating curve extended above 1,100 ft³/s and computation of peak flow at site upstream. Flood of Feb. 4, 1982 reached a stage of 20.0 ft, discharge 3,650 ft³/s, from rating curve extended above 1,100 ft³/s.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 10	0745	1,020	8.64	Jan. 18	2200	1,380	10.44
Oct. 13	2245	985	8.45	Feb. 28	2030	1,380	10.45
Oct. 25	1900	*1,710	*12.01	June 24	2100	1,110	9.08
Nov. 26	0815	1,100	9.04				

Minimum daily discharge, 1.1 ft³/s, Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	15	87	40	31	272	40	21	23	50	5.9	5.3
2	4.1	15	45	26	58	80	36	49	16	35	5.3	4.5
3	2.5	14	31	24	35	58	172	28	24	22	8.4	4.1
4	2.2	14	26	23	31	48	56	24	25	22	210	3.9
5	2.0	17	24	22	29	42	42	23	16	33	53	3.7
6	1.5	14	22	22	35	39	37	21	15	26	197	9.9
7	1.1	14	22	22	102	37	34	21	14	19	213	41
8	1.5	18	22	21	38	46	33	20	14	17	25	159
9	54	14	23	21	31	74	31	19	14	16	19	67
10	316	13	154	29	30	43	29	19	13	14	22	14
11	27	17	172	22	29	35	29	31	14	13	19	11
12	61	15	58	21	30	41	28	29	14	13	14	13
13	322	13	37	21	28	35	27	49	111	13	13	11
14	180	12	29	21	28	33	37	55	26	11	12	14
15	26	18	28	27	28	32	127	26	168	7.6	12	9.3
16	17	14	25	32	98	32	36	23	142	6.8	11	8.5
17	14	16	37	30	34	30	31	23	38	6.4	10	7.4
18	12	13	59	816	31	160	29	23	28	6.2	12	7.1
19	11	13	28	533	28	133	27	102	83	5.7	16	16
20	11	249	25	79	27	46	26	135	107	5.5	12	14
21	10	39	23	45	27	39	26	46	42	5.1	9.4	7.4
22	8.7	25	22	92	40	35	25	26	24	4.9	7.0	5.8
23	8.5	27	92	58	37	32	25	23	30	4.6	6.0	5.4
24	11	24	106	45	29	39	24	21	194	4.8	5.8	4.8
25	771	25	41	393	28	43	23	20	235	4.9	5.2	4.8
26	155	359	32	122	79	33	23	19	36	16	5.6	4.5
27	35	55	28	53	405	40	23	19	27	11	6.2	4.3
28	23	34	26	42	796	38	25	26	23	7.5	6.0	4.3
29	19	28	25	37	---	31	22	29	22	6.9	5.3	20
30	17	139	24	36	---	146	21	23	21	7.0	4.8	87
31	16	---	23	33	---	65	---	20	---	6.9	4.8	---
TOTAL	2143.3	1283	1396	2808	2222	1857	1144	1013	1559	421.8	955.7	572.0
MEAN	69.1	42.8	45.0	90.6	79.4	59.9	38.1	32.7	52.0	13.6	30.8	19.1
MAX	771	359	172	816	796	272	172	135	235	50	213	159
MIN	1.1	12	22	21	27	30	21	19	13	4.6	4.8	3.7
CFSM	2.37	1.47	1.54	3.10	2.72	2.05	1.31	1.12	1.78	.47	1.06	.65
IN.	2.73	1.63	1.78	3.58	2.83	2.37	1.46	1.29	1.99	.54	1.22	.73

CAL YR 1986	TOTAL	10406.19	MEAN 28.5	MAX 771	MIN .89	CFSM .98	IN 13.26
WTR YR 1987	TOTAL	17374.80	MEAN 47.6	MAX 816	MIN 1.1	CFSM 1.63	IN 22.13

APALACHICOLA RIVER BASIN

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. Prior to October 1951, published as "near Vinings".

REVISED RECORDS.--WSP 972: 1932.

GAGE.--Water-stage recorder. Datum of gage is 750.10 ft above 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.--No estimated daily discharges. 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.--54 years (water years 1929-31, 1937-87), 2,564 ft³/s, 24.01 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, 17,300 ft³/s, Jan. 19, gage height, 13.72 ft, minimum daily discharge, 859 ft³/s, Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	948	1240	3130	1490	1010	7520	1580	1720	1210	1310	1980	3160
2	923	1110	1910	1300	1070	4380	1290	1400	1280	1390	1170	3170
3	897	1070	1710	1310	1460	2010	1930	1110	1300	2370	1560	3230
4	891	1220	1550	1430	1350	1270	1610	1120	1360	1370	3910	3190
5	877	1160	1430	1300	1170	1570	1200	1350	1340	1160	4480	2610
6	859	1180	1370	1210	1250	1150	1240	1360	1200	1540	3890	1130
7	882	1180	1310	1240	1820	1180	1580	1340	1110	2610	4620	1440
8	878	1190	1310	1230	1160	1120	1580	1390	1290	1930	3040	4690
9	1020	1100	1310	1420	1100	1270	1370	1160	1650	2050	1270	3940
10	2220	1050	1860	1330	1660	1360	1450	1050	1930	1890	1630	3420
11	1380	1210	2490	1040	1630	1220	1200	1130	1870	1450	3560	3440
12	1090	1160	2060	1030	1510	1240	989	1470	2130	1100	3610	2990
13	2650	1280	1610	1170	1500	1170	1340	2150	2120	1110	3590	1180
14	3160	1320	1420	1150	1100	1070	2530	1870	1300	1120	3520	1530
15	1570	1330	1370	1270	988	974	2850	1400	1840	1110	2870	2980
16	1310	1540	1420	1240	1160	946	2840	1330	2190	1130	1200	3040
17	1280	1260	1400	1190	994	927	2550	1100	2000	1160	1560	3100
18	1190	1340	1580	6790	1200	1530	1780	1130	1540	1080	3840	2990
19	1020	1170	1420	11300	1150	1620	1090	1350	1530	1050	3520	2530
20	1060	2590	1640	3620	991	1340	1440	1620	2400	1380	3600	1180
21	1280	2280	1230	2220	992	1060	2650	1660	1550	2540	3600	1390
22	1110	1250	1130	2010	1040	956	2790	1460	1580	2520	2880	1800
23	1100	1440	1800	1980	1010	949	3920	1150	1490	2480	1140	1880
24	1190	1340	1840	1400	1190	988	2730	1070	1720	2520	1440	2720
25	6060	1470	1920	2650	1120	1200	2210	1090	2880	1860	2900	2950
26	4890	4650	1440	3100	1130	1180	1050	1250	1490	1240	3340	2100
27	2750	3930	1480	1920	2700	1350	1060	1320	1290	1520	3170	1080
28	1360	2090	1350	1740	6670	1340	1620	1300	1190	2370	3260	1230
29	1370	1530	1330	1490	---	1020	1750	1350	1150	2520	2520	2780
30	1230	2070	1290	1440	---	1490	1740	1370	1130	2510	1060	3270
31	1180	---	1280	1140	---	1810	---	1140	---	2560	1570	---
TOTAL	49625	47750	49390	64150	41125	48210	54959	41710	48060	53950	85300	76140
MEAN	1601	1592	1593	2069	1469	1555	1832	1345	1602	1740	2752	2538
MAX	6060	4650	3130	11300	6670	7520	3920	2150	2880	2610	4620	4690
MIN	859	1050	1130	1030	988	927	989	1050	1110	1050	1060	1080

CAL YR 1986	TOTAL	523393	MEAN	1434	MAX	6060	MIN	859	MEAN†	1218	CFSM†	.84	IN†	11.41
WTR YR 1987	TOTAL	660369	MEAN	1809	MAX	11300	MIN	859	MEAN†	2135	CFSM†	1.47	IN†	20.00

†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 above National Geodetic Vertical Datum of 1929 (City of Atlanta benchmark.) Prior to May 27, 1963, water-stage recorder at site 1,000 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 16-18, Feb. 8, 9, July 10-25, July 27 to Aug. 3, Aug. 10 to Sept. 8, and Sept. 10-29. Records fair, except those of questionable or no gage-height record, Oct. 16-18, Feb. 8, 9, July 10-25, July 27 to Aug. 3, Aug. 10 to Sept. 8, and Sept. 10-29, which are fair to poor

AVERAGE DISCHARGE.--29 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 greater than base discharge 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. 25	1630	4,130	13.62	Jan. 18	2215	*8,110	*19.22
Nov. 20	1145	2,740	11.12	Feb. 28	2045	3,190	11.99
Nov. 26	0800	3,700	12.89	June 13	1500	3,940	13.30

Minimum daily discharge, 10 ft³/s, Sept. 28, but may have been less during periods of estimated daily discharge, Aug. 10 to Sept. 8 and Sept. 10-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	29	456	98	62	774	86	42	109	353	23	17
2	17	24	173	59	121	182	146	51	34	189	63	15
3	16	24	95	57	75	115	435	75	50	359	36	13
4	15	21	71	56	60	91	118	60	95	390	362	12
5	15	33	59	57	59	77	84	73	30	211	285	12
6	15	27	53	57	131	69	74	40	25	178	128	29
7	14	23	49	57	614	64	70	37	21	168	336	25
8	14	31	46	56	120	271	65	35	20	83	167	191
9	59	28	51	56	100	222	61	32	19	62	104	329
10	338	30	171	64	94	79	56	31	18	39	28	21
11	44	102	542	55	87	59	61	65	91	33	31	16
12	62	122	130	55	89	71	54	99	31	31	22	23
13	619	39	75	55	80	54	52	342	1070	26	21	24
14	342	27	60	56	76	50	94	481	154	24	21	21
15	34	111	61	78	83	47	96	108	454	22	20	15
16	25	37	54	83	245	46	58	70	810	21	20	13
17	20	51	66	100	94	45	52	53	141	19	19	12
18	18	33	177	3900	81	257	49	45	87	18	19	12
19	17	23	62	2350	74	158	46	88	153	17	26	46
20	17	1240	52	404	71	55	45	235	356	17	19	21
21	16	165	49	400	68	47	44	169	148	16	18	14
22	16	80	49	580	138	41	43	49	64	16	17	14
23	16	69	283	439	117	39	42	38	236	15	29	14
24	20	368	303	430	69	52	39	33	122	15	27	13
25	1630	159	91	1050	61	74	38	30	488	80	19	12
26	355	1390	64	295	232	45	37	27	183	120	18	11
27	72	172	57	125	752	177	36	26	61	48	21	11
28	45	106	53	95	1710	127	48	25	41	25	18	10
29	37	98	52	80	---	49	36	23	35	24	17	72
30	34	890	51	73	---	438	34	23	31	23	16	273
31	27	---	52	66	---	203	---	251	---	24	17	---
TOTAL	3992	5552	3607	11386	5563	4078	2199	2756	5177	2666	1967	1311
MEAN	129	185	116	367	199	132	73.3	88.9	173	86.0	63.5	43.7
MAX	1630	1390	542	3900	1710	774	435	481	1070	390	362	329
MIN	14	21	46	55	59	39	34	23	18	15	16	10
CFSM	1.49	2.13	1.34	4.23	2.29	1.52	.84	1.02	1.99	.99	.73	.50
IN.	1.71	2.38	1.55	4.88	2.38	1.75	.94	1.18	2.22	1.14	.84	.56

CAL YR 1986	TOTAL	30058.7	MEAN	82.4	MAX	1630	MIN	8.2	CFSM	.95	IN	12.88
WTR YR 1987	TOTAL	50254.0	MEAN	138	MAX	3900	MIN	10	CFSM	1.59	IN	21.54

APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.97	3.06	5.22	3.53	3.50	6.06	3.50	3.11	3.63	4.61	---	---
2	2.87	2.99	3.99	3.18	3.85	4.14	3.78	3.21	3.12	4.07	---	---
3	2.85	2.99	3.53	3.16	3.59	3.84	5.09	3.39	3.16	4.75	---	---
4	2.85	2.94	3.34	3.15	3.48	3.70	3.72	3.26	3.55	4.68	4.40	---
5	2.83	3.10	3.24	3.16	3.47	3.61	3.49	3.38	3.07	4.17	4.35	---
6	2.83	3.02	3.18	3.16	3.74	3.54	3.40	3.11	3.00	3.89	3.67	---
7	2.81	2.97	3.14	3.16	5.59	3.51	3.37	3.07	2.94	3.94	4.69	---
8	2.82	3.08	3.11	3.15	---	4.56	3.33	3.05	2.92	3.46	3.82	4.02
9	3.15	3.03	3.16	3.16	---	4.38	3.30	3.01	2.91	3.33	3.69	4.58
10	4.67	3.07	3.98	3.23	3.55	3.62	3.26	3.00	2.90	---	---	---
11	3.20	3.55	5.44	3.14	3.50	3.46	3.30	3.30	3.35	---	---	---
12	3.23	3.77	3.75	3.14	3.51	3.55	3.24	3.47	3.08	---	---	---
13	5.63	3.17	3.38	3.14	3.45	3.42	3.22	4.71	6.60	---	---	---
14	4.60	3.03	3.25	3.15	3.42	3.39	3.55	5.20	3.90	---	---	---
15	3.19	3.69	3.25	3.36	3.48	3.36	3.57	3.65	4.78	---	---	---
16	---	3.15	3.19	3.35	4.36	3.35	3.28	3.37	6.27	---	---	---
17	---	3.28	3.27	3.51	3.54	3.34	3.22	3.23	3.85	---	---	---
18	---	3.10	4.00	12.01	3.46	4.41	3.20	3.16	3.52	---	---	---
19	2.97	2.97	3.26	9.34	3.41	4.05	3.17	3.44	3.85	---	---	---
20	2.96	7.38	3.16	5.05	3.39	3.43	3.16	4.03	4.78	---	---	---
21	2.95	4.00	3.14	5.04	3.36	3.36	3.15	3.94	3.85	---	---	---
22	2.95	3.53	3.14	5.65	3.76	3.30	3.14	3.27	3.33	---	---	---
23	2.96	3.45	4.36	5.18	3.67	3.28	3.13	3.17	4.15	---	---	---
24	2.99	4.62	4.59	5.15	3.37	3.40	3.10	3.10	3.64	---	---	---
25	8.16	3.95	3.50	7.00	3.30	3.58	3.08	3.06	5.17	---	---	---
26	4.70	7.52	3.28	4.66	4.22	3.33	3.07	3.03	4.04	3.73	---	---
27	3.46	4.04	3.22	3.90	6.17	3.94	3.07	3.02	3.38	---	---	---
28	3.24	3.69	3.18	3.73	8.71	3.85	3.18	3.00	3.20	---	---	---
29	3.15	3.65	3.16	3.63	---	3.38	3.06	2.98	3.13	---	---	---
30	3.12	6.49	3.16	3.58	---	5.13	3.04	2.97	3.08	---	---	4.35
31	3.02	---	3.16	3.53	---	4.13	---	3.92	---	---	---	---
MEAN	---	3.74	3.54	4.27	---	3.79	3.34	3.37	3.74	---	---	---
MAX	---	7.52	5.44	12.01	---	6.06	5.09	5.20	6.60	---	---	---
MIN	---	2.94	3.11	3.14	---	3.28	3.04	2.97	2.90	---	---	---

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 07...	0830	13	195	186	6.90	7.50	20.5	19.5	5.6	63
NOV 04...	1015	21	170	170	6.90	7.40	16.5	20.5	8.0	84
DEC 02...	0945	202	104	99	6.80	7.00	9.5	7.5	8.5	76
JAN 06...	0930	57	150	142	6.80	7.00	3.5	6.0	12.4	95
FEB 05...	0930	57	169	160	6.90	6.90	9.5	11.0	9.6	85
MAR 05...	0815	79	152	149	7.00	7.10	8.5	9.0	11.5	99
APR 09...	1400	60	150	155	7.30	7.40	18.0	25.0	9.5	103
MAY 05...	0815	76	128	127	7.10	6.90	18.5	15.0	6.2	67
JUN 03...	0845	26	168	166	7.20	7.40	24.0	26.5	6.3	76
JUL 07...	0800	142	93	96	6.70	6.90	23.5	24.5	6.1	73
AUG 04...	0800	46	160	151	7.10	7.30	25.0	24.0	5.1	64
SEP 02...	0845	18	190	184	7.20	7.40	21.0	18.5	6.5	75

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	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 07...	8.0	--	--	60	0.370	0.140	0.060	3.0
NOV 04...	11	1.7	11000	53	0.340	0.060	0.060	5.4
DEC 02...	32	3.1	49000	27	0.650	0.150	0.100	4.4
JAN 06...	5.0	1.4	4900	45	0.800	0.130	0.040	2.6
FEB 05...	6.0	1.0	3300	42	0.330	0.280	0.090	3.2
MAR 05...	7.0	0.8	1700	41	0.990	0.180	0.050	1.6
APR 09...	5.0	2.5	700	43	0.700	0.090	0.030	3.8
MAY 05...	30	1.9	104500	35	0.550	0.170	0.220	4.6
JUN 03...	6.0	1.1	2000	51	0.440	<0.020	0.090	3.0
JUL 07...	110	4.0	230000	21	0.740	0.090	0.090	7.8
AUG 04...	10	2.5	13300	48	0.520	0.170	0.080	5.8
SEP 02...	10	1.7	13000	57	0.210	0.190	0.090	3.7

APALACHICOLA RIVER BASIN

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. 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 hydro-electric plant.

AVERAGE DISCHARGE.--6 years, 2,488 ft³/s, 21.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft³/s, Feb. 3, 1982, gage height, 28.91 ft; minimum daily discharge, 901 ft³/s, Oct. 7, 1986.

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, 20,800 ft³/s, Jan. 19, gage height, 23.47 ft; minimum daily discharge, 901 ft³/s, Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1100	1300	4240	1690	1250	10200	1820	1830	1370	1870	2250	3310		
2	975	1180	2430	1420	1430	5320	1570	1740	1190	1980	1230	3360		
3	962	1090	2010	1400	1650	2670	2850	1200	1220	2850	1570	3420		
4	919	1240	1750	1530	1650	1540	2050	1240	1410	2030	4260	3350		
5	922	1220	1560	1430	1450	1890	1430	1440	1270	1670	5670	2970		
6	906	1200	1530	1300	1480	1330	1370	1430	1190	1720	4420	1170		
7	901	1210	1440	1330	3180	1450	1730	1410	1010	3040	5580	1440		
8	925	1220	1410	1350	1490	1640	1780	1450	1110	2150	3810	4970		
9	1080	1130	1440	1420	1310	1780	1570	1250	1490	2240	1640	5190		
10	3000	1070	2260	1580	1840	1630	1600	1060	1840	2000	1610	3790		
11	1660	1250	3640	1130	1890	1460	1450	1220	1940	1690	3840	3800		
12	1170	1340	2510	1130	1840	1510	1140	1410	2140	1140	3940	3470		
13	3830	1260	1820	1220	1750	1380	1360	3210	4460	1130	3920	1280		
14	4380	1340	1640	1250	1410	1280	2800	2760	1710	1130	3810	1580		
15	1810	1430	1510	1440	1200	1180	3220	1650	1990	1130	3280	3160		
16	1400	1660	1560	1370	1710	1140	3160	1530	3690	1100	1270	3300		
17	1310	1280	1470	1430	1260	1100	2790	1190	2360	1160	1490	3370		
18	1260	1360	1980	9160	1340	1990	2190	1160	1610	1050	4020	3250		
19	1050	1250	1600	15800	1450	2200	1240	1390	1610	1020	3920	2960		
20	1080	4740	1740	5030	1190	1560	1540	1820	3300	1230	3900	1350		
21	1300	2830	1400	2790	1210	1330	2750	2290	1970	2560	3880	1290		
22	1180	1400	1170	2980	1340	1120	3020	1580	1590	2650	3280	1870		
23	1130	1540	2210	2680	1320	1100	4340	1230	1890	2550	1190	1980		
24	1210	1820	2690	1920	1330	1180	3010	1100	1640	2660	1430	2790		
25	7130	1810	2140	4530	1390	1400	2660	1090	4170	2130	2960	3180		
26	7050	7150	1660	4310	1610	1300	1160	1200	1800	1410	3570	2380		
27	3000	4790	1600	2430	4250	1710	1150	1270	1420	1490	3380	1100		
28	1620	2520	1480	2090	9190	1790	1610	1250	1220	2390	3490	1130		
29	1420	1650	1470	1790	---	1210	1910	1290	1170	2600	2870	2780		
30	1320	3560	1400	1760	---	2280	1860	1380	1110	2610	1090	4140		
31	1230	---	1370	1490	---	2340	---	1260	---	2650	1440	---		
TOTAL	58230	57840	58130	82180	53410	61010	62130	46330	55890	59030	94010	83130		
MEAN	1878	1928	1875	2651	1908	1968	2071	1495	1863	1904	3033	2771		
MAX	7130	7150	4240	15800	9190	10200	4340	3210	4460	3040	5670	5190		
MIN	901	1070	1170	1130	1190	1100	1140	1060	1010	1020	1090	1100		
CAL YR 1986	TOTAL	573966	MEAN	1573	MAX	7150	MIN	901	MEAN†	1357	CFSM†	.85	INT†	11.52
WTR YR 1987	TOTAL	771320	MEAN	2113	MAX	15800	MIN	901	MEAN†	2439	CFSM†	1.52	INT†	20.70

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

211

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
07...	0900	839	125	--	7.10	7.20	28.0	20.0	6.8	89
NOV										
04...	0915	1150	112	109	7.00	7.20	21.0	20.0	7.0	80
DEC										
02...	1045	1960	92	86	6.80	7.00	11.0	7.5	9.5	89
JAN										
06...	1015	1190	102	93	7.10	6.90	11.0	6.5	12.0	110
FEB										
05...	1030	1270	112	104	7.10	7.00	10.0	11.0	10.6	95
MAR										
05...	0900	1480	100	99	7.10	7.10	11.0	8.0	11.8	108
APR										
09...	1445	1210	125	130	7.20	7.10	16.0	29.0	9.8	102
MAY										
05...	0900	1460	100	95	7.10	7.00	21.5	15.0	7.2	83
JUN										
03...	0930	1070	108	100	7.00	7.10	25.0	27.0	6.5	80
JUL										
07...	0900	2970	68	70	7.00	6.90	21.5	25.0	7.3	84
AUG										
04...	0840	5060	57	53	7.10	7.20	18.5	25.0	8.1	89
SEP										
01...	0850	4120	60	57	7.10	7.10	16.0	19.0	9.6	100

DATE	TUR- BID- ITY (HTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY LAB (MG/L 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)
OCT									
07...	12	--	--	29	14	0.920	1.86	1.15	3.6
NOV									
04...	95	4.4	12000	27	224	0.570	0.900	0.520	6.7
DEC									
02...	34	3.4	7000	23	44	0.510	0.820	0.440	2.9
JAN									
06...	5.0	2.2	790	24	3	0.570	1.03	0.430	2.4
FEB									
05...	10	1.1	1700	28	16	0.660	1.27	0.560	2.8
MAR									
05...	20	1.6	330	23	27	0.570	0.120	0.450	2.3
APR									
09...	8.0	3.2	70	30	4	0.520	2.25	0.590	4.6
MAY									
05...	10	1.6	1100	25	12	0.610	0.990	0.350	3.3
JUN									
03...	28	1.2	2800	25	40	0.800	1.19	0.410	1.6
JUL									
07...	100	2.4	28000	17	206	0.640	0.380	0.440	7.4
AUG									
04...	44	2.3	7900	14	29	0.580	0.390	0.220	4.6
SEP									
01...	24	2.2	22000	15	51	0.400	0.400	0.160	2.9

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 November to December 1913, 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 above 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.--Estimated daily discharges: Oct. 22-27. Records good, except for period of estimated discharges, Oct. 22-27, which are fair.

AVERAGE DISCHARGE.--51 years (water years 1905, 1938-87), 334 ft³/s, 18.44 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 greater than base discharge 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)
Jan. 20	0500	*4,020	*11.17	Mar. 1	1300	2,830	8.64

Minimum discharge, 21 ft³/s, Oct. 8 and 9, gage height, 0.47 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	83	499	192	312	2770	528	122	205	516	49	33
2	88	85	424	198	323	2290	407	123	212	739	51	33
3	58	80	329	182	331	1230	514	119	160	354	97	31
4	44	76	262	168	297	580	546	132	176	351	147	29
5	35	77	219	162	267	426	449	150	186	514	104	26
6	30	78	195	150	252	357	370	134	169	290	111	27
7	26	79	178	145	415	320	324	128	124	255	320	29
8	23	82	168	145	381	398	297	125	101	576	492	40
9	26	77	163	143	319	634	277	115	88	554	282	135
10	362	78	383	151	263	599	256	106	78	282	167	69
11	138	77	572	151	244	453	246	125	71	207	129	54
12	77	85	556	144	238	378	237	164	66	171	101	48
13	327	82	431	139	227	347	229	466	483	148	102	47
14	493	79	311	138	218	311	231	365	734	134	110	97
15	230	86	258	144	226	288	298	274	785	117	90	75
16	156	92	230	153	359	269	256	246	977	108	76	68
17	113	97	214	182	352	255	234	209	771	96	70	55
18	88	100	279	1720	311	439	218	165	396	88	67	47
19	73	92	249	3600	268	898	207	192	268	83	155	50
20	64	415	221	3900	244	786	195	279	234	77	142	55
21	58	562	197	2750	237	583	187	312	222	75	96	49
22	55	424	180	995	248	409	182	221	205	73	74	45
23	53	274	219	684	281	337	173	174	233	69	61	39
24	52	223	369	540	257	314	162	150	232	63	61	34
25	200	210	374	988	235	323	152	135	687	61	50	31
26	700	686	311	1650	297	304	143	122	350	125	45	29
27	275	646	250	1190	895	369	139	113	223	85	43	27
28	183	472	217	750	2020	386	140	107	177	71	40	26
29	137	301	196	499	---	369	132	108	142	62	37	28
30	113	376	185	415	---	492	129	96	121	55	36	147
31	94	---	173	355	---	652	---	105	---	50	33	---
TOTAL	4491	6174	8812	22723	10317	18566	7858	5382	8876	6449	3438	1503
MEAN	145	206	284	733	368	599	262	174	296	208	111	50.1
MAX	700	686	572	3900	2020	2770	546	466	977	739	492	147
MIN	23	76	163	138	218	255	129	96	66	50	33	26
CFSM	.59	.84	1.15	2.98	1.50	2.44	1.07	.71	1.20	.85	.45	.20
IN.	.68	.93	1.33	3.44	1.56	2.81	1.19	.81	1.34	.98	.52	.23

CAL YR 1986	TOTAL	52847.4	MEAN 145	MAX 805	MIN 5.9	CFSM .59	IN 7.99
WTR YR 1987	TOTAL	104589.0	MEAN 287	MAX 3900	MIN 23	CFSM 1.17	IN 15.82

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 08...	0700	23	105	100	7.00	7.40	18.5	15.0	6.9	75
NOV 05...	0900	77	96	96	7.10	7.10	16.5	17.0	7.6	80
DEC 03...	0900	337	82	81	7.10	6.90	9.5	8.5	10.0	90
JAN 07...	0900	145	76	76	7.10	7.00	4.5	10.5	11.8	94
FEB 04...	0930	298	70	68	7.00	6.80	8.5	9.5	11.3	99
MAR 05...	0930	433	62	60	6.80	6.90	9.5	8.0	12.1	107
APR 08...	0800	301	64	65	7.00	6.90	10.0	10.5	9.7	89
MAY 05...	0930	153	82	82	7.10	6.80	19.0	15.5	6.5	72
JUN 04...	0715	188	84	83	6.90	7.10	24.0	22.5	6.0	73
JUL 07...	0930	236	76	77	7.00	7.00	24.0	28.0	6.4	78
AUG 06...	0805	75	86	80	6.80	7.20	25.5	28.5	6.3	79
SEP 01...	0715	33	94	90	7.20	6.90	23.0	26.0	6.4	77

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	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 08...	21	1.6	490	31	0.170	0.100	<0.020	2.9
NOV 05...	14	2.1	230	31	0.120	0.050	0.030	4.1
DEC 03...	17	1.1	700	18	0.270	0.150	0.040	3.3
JAN 07...	10	0.8	20	22	0.370	0.110	<0.020	1.9
FEB 04...	15	0.8	490	17	0.270	0.050	<0.020	2.6
MAR 05...	19	1.4	1300	13	0.270	0.100	0.110	2.4
APR 08...	7.0	1.3	170	18	0.210	0.040	<0.020	2.0
MAY 05...	15	1.1	1300	25	0.290	0.080	0.050	4.1
JUN 04...	35	2.1	2300	27	0.290	<0.020	0.030	3.5
JUL 07...	20	2.1	330	25	0.200	0.060	0.040	4.5
AUG 06...	17	1.0	230	24	0.400	0.110	0.100	8.5
SEP 01...	15	1.0	330	19	0.190	0.060	0.030	9.8

APALACHICOLA RIVER BASIN

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 above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Estimated daily discharges: Jan. 13 to Feb. 25. Records good, except those of no gage height record, Jan. 13 to Feb. 25, which are fair. 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.--22 years, 3,624 ft³/s, 23.89 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 recorded discharge, 15,800 ft³/s, Mar. 1, gage height, 15.88 ft, but was higher Jan. 19, during a period of no gage height record; minimum daily, 1,050 ft³/s, Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1510	1530	5450	2030	2100	14500	2880	2190	2040	3180	2940	3060
2	1270	1490	3920	2070	2100	8650	2530	2340	1640	5120	1690	3470
3	1170	1340	2880	1840	2400	5460	3790	1760	1640	3450	1670	3500
4	1130	1440	2420	1940	2500	3030	3780	1620	1930	2950	3700	3420
5	1110	1510	1940	1870	2200	2680	2480	2030	1730	3480	6050	3480
6	1090	1480	1940	1710	2000	2350	2160	1850	1650	2480	4490	1560
7	1050	1480	1830	1700	3600	2180	2330	1860	1400	3930	5910	1410
8	1100	1500	1790	1770	3200	2730	2490	1840	1340	3070	4740	3950
9	1090	1420	1820	1670	2300	3200	2420	1750	1670	3140	2950	5590
10	3680	1350	2710	2070	2200	2840	2200	1480	1990	2630	1750	4050
11	2820	1420	3440	1580	2600	2530	2200	1620	2110	2500	3580	3910
12	1470	1810	3430	1500	2500	2340	1880	1860	2380	1630	4110	3870
13	3850	1440	2810	1500	2300	2240	1740	4250	4740	1520	4090	1870
14	6090	1720	2450	1600	2200	2080	3020	3330	4520	1540	3990	1640
15	2870	1690	1940	1700	1900	1900	3820	3000	2590	1510	3910	2910
16	1870	1970	2130	1800	2500	1800	3710	2170	5740	1450	1770	3470
17	1570	1550	1940	1900	2500	1750	3360	1820	4390	1480	1440	3450
18	1540	1690	2590	5200	2100	2480	3210	1610	2520	1400	3530	3400
19	1370	1640	2160	23000	2200	4140	1970	1850	2220	1370	4300	3420
20	1280	4960	2100	20000	2000	2930	1730	2150	3820	1320	4110	1910
21	1420	4910	2130	7600	1900	2530	2780	3090	2880	2360	4010	1360
22	1500	2570	1570	5600	2000	1990	3420	2140	1940	2870	3860	1870
23	1310	2070	2200	5200	2400	1860	4750	1850	2390	2720	1700	2200
24	1330	2260	3830	3800	2100	1850	3540	1510	2430	2840	1470	2660
25	4820	2630	2840	4400	2100	2070	3500	1490	5550	2740	2650	3120
26	10000	7100	2550	9400	2130	2110	1810	1460	3040	1790	3540	3010
27	3800	6880	2090	5400	5560	2210	1540	1670	2180	1650	3590	1370
28	2600	4030	2060	3900	10800	3200	1680	1580	1700	2330	3540	1240
29	1660	2270	1960	3100	---	2150	2300	1650	1610	2790	3400	2340
30	1750	3860	1860	2800	---	3020	2290	1770	1520	2690	1590	4510
31	1520	---	1800	2600	---	3740	---	1500	---	2770	1240	---
TOTAL	70640	73010	76580	132250	76390	98540	81310	62090	77300	76700	101310	87020
MEAN	2279	2434	2470	4266	2728	3179	2710	2003	2577	2474	3268	2901
MAX	10000	7100	5450	23000	10800	14500	4750	4250	5740	5120	6050	5590
MIN	1050	1340	1570	1500	1900	1750	1540	1460	1340	1320	1240	1240

CAL YR 1986	TOTAL	718090	MEAN	1967	MAX	10000	MIN	1050	MEAN†	1751	CFSM†	.85	INT†	11.54
WTR YR 1987	TOTAL	1013140	MEAN	2776	MAX	23000	MIN	1050	MEAN†	3102	CFSM†	1.51	INT†	20.45

†ADJUSTED FOR CHANGE IN LAKE SIDNEY LANIER.

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 TEMPERATURE: October 1975 to current year.

DISSOLVED OXYGEN: July 1976 to current year.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 192 microsiemens Feb. 20, 1979; minimum recorded, 33 microsiemens July 7, 1976, May 3, 1985.

pH: Maximum recorded, 7.50 units Nov. 20-23, 1980; minimum recorded, 5.50 units Aug. 12, Sept. 13, 1978.

WATER TEMPERATURE: Maximum recorded, 32.0°C June 24, 1981; minimum recorded, 2.5°C Jan. 12, 1982.

DISSOLVED OXYGEN: Maximum recorded, 13.1 mg/L Mar. 24, 1977; minimum recorded, 1.6 mg/L July 26, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 181 microsiemens Oct. 9; minimum, 45 microsiemens Oct. 26.

pH: Maximum, 7.27 units June 22; minimum recorded, 6.32 units May 28.

WATER TEMPERATURE: Maximum recorded, 29.5°C July 13, 14; minimum recorded, 5.5°C Jan. 27.

DISSOLVED OXYGEN: Maximum recorded, 11.4 mg/L Jan. 29, Feb. 27; minimum, 3.0 mg/L June 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
15...	0745	3570	84	81	6.70	6.90	18.5	9.5	7.5	82
NOV										
04...	1030	1500	160	153	6.80	7.10	20.5	20.0	5.5	63
DEC										
01...	0945	5220	80	73	7.00	6.90	13.5	9.5	9.1	90
JAN										
07...	1645	1700	132	115	7.00	6.80	11.5	17.5	8.9	84
FEB										
02...	1400	--	127	110	6.80	6.80	11.0	13.5	9.2	87
MAR										
03...	1500	4290	80	74	6.90	6.80	10.0	20.5	10.3	93
APR										
08...	0930	2550	109	103	7.00	6.90	12.5	13.5	8.4	81
MAY										
05...	1500	2000	135	126	6.90	6.80	21.5	19.5	5.7	66
JUN										
03...	0830	1820	152	142	6.80	6.80	27.5	25.5	4.2	54
JUL										
07...	0745	4910	101	99	6.70	6.80	24.0	27.0	5.6	67
AUG										
04...	0830	3490	101	91	6.90	6.90	24.5	25.5	5.7	70
SEP										
01...	0845	3140	99	94	6.90	7.00	22.5	21.5	6.4	75

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TUR- BID- ITY (NTU)	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)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 15...	100	14	4.4	2300	17	103	0.960	0.450
NOV 04...	14	18	6.6	260	31	17	1.51	4.00
DEC 01...	60	15	3.4	22000	10	85	0.500	0.410
JAN 07...	8.0	17	3.9	130	26	10	0.980	1.20
FEB 02...	13	13	2.8	3100	27	20	0.750	1.11
MAR 03...	85	15	3.7	790	16	87	0.530	0.420
APR 08...	10	13	4.2	1100	25	23	0.810	1.02
MAY 05...	19	20	2.1	2800	31	32	1.16	1.45
JUN 03...	15	12	5.1	7900	28	33	1.59	1.14
JUL 07...	65	19	3.5	49000	21	196	0.870	0.510
AUG 04...	34	19	5.2	13000	20	--	1.14	0.610
SEP 01...	19	10	4.4	950	24	36	1.05	0.880

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 15...	0.25	0.70	1.7	0.480	3.5
NOV 04...	0.0	4.0	5.5	1.16	6.7
DEC 01...	0.0	0.40	0.90	0.780	4.4
JAN 07...	0.50	1.7	2.7	0.660	4.5
FEB 02...	0.39	1.5	2.3	0.600	3.1
MAR 03...	0.0	0.40	0.93	0.250	3.6
APR 08...	1.8	2.8	3.6	0.510	5.0
MAY 05...	0.0	0.80	2.0	0.830	11
JUN 03...	0.76	1.9	3.5	0.790	3.5
JUL 07...	0.99	1.5	2.4	0.620	7.7
AUG 04...	0.89	1.5	2.6	0.670	3.8
SEP 01...	0.32	1.2	2.3	0.750	4.7

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02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	158	127	166	130	89	79	140	126	140	129	61	54
2	163	141	147	128	116	88	124	100	135	123	69	60
3	175	153	147	132	127	106	130	112	141	118	103	67
4	168	157	160	136	134	118	133	99	137	112	120	92
5	178	155	155	138	148	125	124	102	139	121	132	113
6	158	142	163	146	155	124	135	110	151	125	136	115
7	176	146	171	140	144	119	148	129	135	84	143	119
8	179	169	168	143	135	116	152	126	112	93	136	110
9	181	165	151	135	141	123	---	---	126	109	110	100
10	168	81	151	138	151	118	---	---	136	115	113	106
11	110	78	155	141	118	87	---	---	129	103	128	114
12	131	109	163	128	109	85	---	---	135	103	139	121
13	128	72	153	141	122	109	---	---	140	114	135	121
14	84	63	147	124	127	107	151	136	135	119	142	127
15	118	74	148	125	134	121	152	130	145	131	142	123
16	134	118	145	104	131	115	147	129	130	109	129	120
17	142	126	136	106	137	126	148	107	134	110	155	125
18	143	129	139	125	139	112	125	48	147	132	161	128
19	143	128	155	128	130	113	55	47	154	124	123	95
20	152	126	156	74	131	121	64	56	150	133	116	92
21	159	124	101	74	126	111	78	65	154	139	128	109
22	149	115	126	94	140	127	94	80	147	128	132	122
23	173	132	134	123	138	112	119	96	133	124	130	123
24	166	134	127	109	128	85	116	107	---	---	139	125
25	163	51	129	112	100	92	136	84	161	126	142	131
26	66	45	134	67	98	81	82	74	151	135	137	125
27	86	67	87	70	111	95	98	82	137	73	147	99
28	122	84	91	85	106	95	103	92	78	58	129	95
29	144	124	120	92	125	106	126	104	---	---	121	109
30	147	122	119	81	133	117	134	111	---	---	121	90
31	160	132	---	---	139	123	138	112	---	---	111	90
MONTH	181	45	171	67	155	79	152	47	161	58	161	54
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	117	104	143	96	136	113	142	66	105	84	145	74
2	123	105	144	101	146	117	99	70	122	98	97	73
3	140	93	131	120	153	133	118	80	134	106	95	74
4	101	86	---	---	154	121	108	84	139	72	96	75
5	112	103	---	---	146	125	101	87	95	66	96	72
6	119	112	148	123	151	122	---	---	101	70	126	85
7	130	113	143	125	149	137	---	---	107	66	132	119
8	130	108	142	127	145	134	108	86	82	72	121	66
9	129	105	139	126	153	121	123	86	104	82	78	69
10	140	109	146	134	151	96	120	89	121	104	80	73
11	142	108	140	118	143	95	134	92	134	77	83	72
12	137	116	144	128	149	93	142	121	89	71	87	70
13	134	126	140	81	133	71	137	127	90	70	120	82
14	143	100	124	90	91	70	153	128	87	71	134	119
15	116	87	115	84	104	87	160	143	92	69	130	82
16	109	82	131	114	109	69	156	146	118	87	94	75
17	105	85	130	118	101	76	155	145	131	112	97	76
18	105	81	130	119	123	104	167	144	136	73	91	77
19	119	103	141	127	128	113	164	142	85	74	93	74
20	122	116	146	114	146	78	144	133	87	70	115	92
21	131	101	135	90	119	92	157	100	87	70	130	113
22	107	78	129	110	128	107	111	89	89	70	140	100
23	103	71	142	123	138	115	106	89	131	86	130	85
24	98	81	150	129	134	112	111	88	135	125	136	76
25	100	84	134	121	131	69	108	87	139	82	110	76
26	129	94	139	122	113	79	131	106	99	75	97	75
27	139	128	142	126	126	114	125	114	92	75	129	92
28	153	135	151	127	139	124	130	95	95	73	130	119
29	150	100	152	125	132	125	118	80	91	74	138	73
30	142	94	147	127	154	128	108	82	136	90	94	67
31	---	---	137	130	---	---	108	82	148	125	---	---
MONTH	153	71	152	81	154	69	167	66	148	66	145	66
YEAR	181	45										

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.67	6.48	7.04	7.00	7.12	6.98	7.00	6.96	6.88	6.83	6.90	6.75
2	6.88	6.70	7.00	6.96	7.19	7.12	7.04	6.93	6.84	6.76	6.85	6.79
3	7.01	6.80	6.96	6.89	7.19	7.17	7.01	6.94	6.79	6.75	7.08	6.85
4	7.02	6.81	6.88	6.80	7.22	7.19	7.02	6.95	6.79	6.73	7.09	7.00
5	7.04	6.88	6.92	6.86	7.24	7.20	7.00	6.94	6.77	6.72	7.07	7.02
6	6.92	6.83	6.89	6.84	7.25	7.19	7.00	6.94	6.82	6.72	7.06	7.00
7	6.90	6.84	6.84	6.73	7.20	7.16	7.02	6.95	6.78	6.64	7.07	6.99
8	6.93	6.89	6.73	6.59	7.15	7.08	6.99	6.95	6.77	6.67	7.01	6.93
9	6.91	6.85	6.59	6.53	7.08	7.04	---	---	6.77	6.71	6.93	6.87
10	6.91	6.70	6.56	6.52	7.11	6.97	---	---	6.78	6.71	6.95	6.91
11	6.78	6.65	6.62	6.51	6.99	6.90	---	---	6.76	6.71	6.97	6.92
12	6.74	6.59	6.73	6.62	6.94	6.90	---	---	6.78	6.68	6.99	6.94
13	6.64	6.46	6.74	6.71	7.02	6.92	---	---	6.87	6.80	7.02	6.95
14	6.71	6.60	6.86	6.76	7.04	6.94	7.02	6.96	6.88	6.82	7.03	7.00
15	6.73	6.66	6.82	6.74	6.98	6.90	7.01	6.96	6.92	6.86	7.03	6.99
16	6.77	6.73	6.76	6.71	6.96	6.90	6.99	6.93	6.97	6.88	7.01	6.95
17	6.80	6.75	6.77	6.60	6.96	6.91	6.95	6.91	7.00	6.93	7.00	6.93
18	6.77	6.72	6.63	6.53	6.95	6.88	6.99	6.63	7.04	6.97	7.02	6.90
19	6.76	6.70	6.58	6.52	6.95	6.91	6.61	6.33	7.02	6.96	6.95	6.91
20	6.76	6.66	6.69	6.59	6.94	6.91	6.62	6.42	7.02	6.96	6.99	6.92
21	6.71	6.61	6.71	6.60	6.97	6.90	6.77	6.57	7.04	6.99	7.01	6.95
22	6.64	6.60	6.75	6.70	7.01	6.91	6.89	6.76	7.07	7.02	7.00	6.96
23	6.66	6.61	6.76	6.73	---	---	6.90	6.78	7.03	6.99	6.96	6.90
24	6.64	6.53	6.73	6.59	---	---	6.86	6.79	---	---	6.95	6.90
25	6.69	6.50	6.72	6.63	---	---	6.84	6.43	7.00	6.92	6.96	6.93
26	6.68	6.61	6.74	6.54	---	---	6.84	6.66	6.95	6.89	6.97	6.90
27	6.73	6.64	6.71	6.63	---	---	6.79	6.73	6.94	6.82	6.98	6.77
28	6.92	6.69	6.81	6.74	---	---	6.76	6.69	6.91	6.79	6.91	6.78
29	7.01	6.93	6.97	6.83	6.93	6.86	6.99	6.66	---	---	6.85	6.80
30	7.06	7.00	7.07	6.95	6.98	6.92	6.99	6.92	---	---	6.84	6.75
31	7.04	7.01	---	---	6.99	6.93	6.92	6.86	---	---	6.83	6.74
MONTH	7.06	6.46	7.07	6.51	7.25	6.86	7.04	6.33	7.07	6.64	7.09	6.74
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.89	6.86	7.08	7.00	7.01	6.89	6.95	6.51	6.91	6.83	7.02	6.86
2	6.96	6.88	7.00	6.91	6.96	6.84	6.85	6.57	6.96	6.86	7.00	6.96
3	6.96	6.86	6.92	6.82	7.03	6.54	6.87	6.82	6.94	6.77	7.02	6.95
4	6.93	6.89	---	---	7.01	6.96	6.86	6.77	6.98	6.80	6.96	6.92
5	7.00	6.96	---	---	7.00	6.95	6.85	6.70	6.98	6.69	6.97	6.91
6	7.02	6.94	7.06	6.99	7.01	6.98	---	---	7.00	6.84	6.95	6.91
7	7.01	6.94	7.06	7.03	6.99	6.93	---	---	7.10	6.85	6.94	6.80
8	6.98	6.93	7.09	7.02	6.95	6.88	7.14	6.74	6.96	6.89	6.88	6.81
9	6.99	6.92	7.03	6.98	6.94	6.90	7.11	6.68	6.98	6.87	6.83	6.65
10	6.99	6.93	7.02	6.92	6.91	6.81	7.09	7.03	6.98	6.93	6.86	6.77
11	7.01	6.95	6.96	6.82	6.88	6.82	7.06	6.99	6.95	6.89	6.85	6.80
12	7.00	6.94	6.88	6.76	7.06	6.79	7.06	6.98	6.95	6.90	6.86	6.81
13	6.98	6.89	6.81	6.60	6.89	6.63	6.95	6.89	6.95	6.93	6.89	6.84
14	6.95	6.88	6.97	6.65	6.83	6.63	6.88	6.84	6.99	6.94	6.88	6.79
15	6.90	6.85	6.81	6.67	6.87	6.75	6.81	6.76	7.00	6.94	6.83	6.71
16	6.88	6.85	6.83	6.58	7.12	6.60	6.75	6.70	7.00	6.96	6.83	6.75
17	6.90	6.86	6.88	6.81	7.18	6.95	7.00	6.61	6.99	6.85	6.81	6.76
18	6.91	6.88	6.87	6.73	7.19	7.03	7.00	6.95	6.99	6.82	6.85	6.79
19	6.89	6.87	6.84	6.72	7.12	6.97	7.00	6.93	6.97	6.87	6.86	6.79
20	6.87	6.80	6.82	6.62	7.07	6.60	6.98	6.88	7.12	6.88	6.87	6.84
21	6.82	6.79	6.82	6.57	6.91	6.83	6.94	6.86	7.12	7.07	6.89	6.71
22	6.78	6.73	6.79	6.76	7.27	6.66	7.05	6.87	7.13	7.05	6.82	6.75
23	6.76	6.67	6.82	6.78	7.20	7.14	7.01	6.99	7.15	7.08	6.82	6.78
24	6.77	6.74	6.81	6.78	7.18	6.87	7.00	6.95	7.10	7.02	6.83	6.78
25	6.83	6.81	6.80	6.37	7.13	6.81	6.98	6.91	7.04	6.93	6.85	6.78
26	6.86	6.84	6.76	6.73	7.04	6.82	6.98	6.91	6.99	6.93	6.89	6.77
27	6.87	6.81	6.77	6.69	7.03	7.01	6.94	6.80	7.02	6.90	6.90	6.83
28	7.20	6.74	7.09	6.32	7.00	6.97	6.92	6.80	7.03	6.96	6.89	6.79
29	7.16	7.09	7.12	7.06	6.96	6.91	6.93	6.88	7.00	6.93	6.89	6.81
30	7.11	7.06	7.10	7.03	6.98	6.88	6.91	6.86	6.97	6.93	6.90	6.79
31	---	---	7.07	6.68	---	---	6.88	6.84	6.97	6.89	---	---
MONTH	7.20	6.67	7.12	6.32	7.27	6.54	7.14	6.51	7.15	6.69	7.02	6.65
YEAR	7.27	6.32										

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.7	4.0	6.9	6.3	10.1	8.6	9.1	8.8	9.2	8.9	11.1	10.9
2	4.5	4.1	6.8	6.4	10.2	8.9	9.6	9.0	9.3	8.6	10.9	10.5
3	4.2	3.7	6.5	6.0	9.3	8.7	9.6	9.0	9.7	8.5	10.7	9.5
4	3.9	3.7	6.0	5.5	9.4	8.9	9.8	9.0	10.0	9.3	10.3	8.9
5	3.8	3.6	5.9	5.6	9.5	9.0	9.7	9.0	9.8	9.2	9.4	9.0
6	4.2	3.8	5.8	5.4	9.6	9.0	9.2	8.9	9.7	9.2	10.1	8.5
7	4.1	3.9	5.7	5.0	9.6	9.1	8.9	8.6	10.2	9.3	8.9	8.6
8	4.3	3.7	5.7	4.9	9.4	8.9	8.6	8.1	10.3	9.5	8.8	8.1
9	4.4	4.3	5.7	5.2	8.8	8.1	---	---	10.0	9.8	8.4	8.2
10	6.3	4.4	5.7	5.4	8.5	7.8	---	---	10.7	10.0	8.6	8.1
11	6.9	6.1	5.8	5.4	9.0	8.1	---	---	11.1	10.3	9.5	8.4
12	6.7	6.0	6.7	5.7	9.1	8.8	---	---	10.2	8.6	9.7	9.3
13	7.3	6.4	6.6	6.0	9.5	8.9	---	---	9.0	8.3	9.9	9.1
14	7.5	6.6	7.8	6.7	9.9	9.3	8.7	8.3	8.7	8.2	9.8	8.7
15	7.6	6.9	8.3	7.3	9.6	9.0	8.4	8.0	8.2	8.0	9.5	8.5
16	7.2	6.7	8.6	7.6	9.4	8.8	8.2	7.6	8.9	8.0	9.1	8.1
17	7.0	6.6	8.4	6.6	8.9	8.4	8.3	7.3	9.4	8.8	8.3	6.8
18	7.1	6.7	6.9	6.2	8.5	8.1	---	---	9.2	9.0	8.3	6.3
19	7.0	6.6	6.8	5.9	8.9	8.5	---	---	10.0	9.0	9.8	8.2
20	6.8	6.5	8.2	6.2	9.0	8.4	---	---	9.5	9.1	9.5	8.7
21	7.0	6.1	8.6	8.4	9.3	8.9	---	---	9.1	8.8	8.9	8.0
22	7.3	6.5	8.8	8.1	9.0	8.3	---	---	9.2	8.9	8.2	7.6
23	6.9	6.2	8.3	8.1	9.6	8.5	---	---	9.3	9.1	8.1	7.0
24	6.7	6.0	8.4	7.9	10.1	9.4	---	---	---	---	7.1	6.9
25	7.7	5.9	7.8	7.1	9.8	9.5	---	---	9.7	9.0	6.8	6.4
26	8.3	7.9	8.8	7.2	10.0	9.4	---	---	9.6	8.9	7.0	6.2
27	8.4	8.0	8.8	8.3	9.6	9.1	---	---	11.4	9.5	6.9	6.0
28	8.1	6.8	8.6	8.4	9.5	9.1	---	---	11.3	10.8	6.7	5.9
29	7.2	6.7	8.4	8.0	9.5	9.0	11.4	6.8	---	---	6.7	6.1
30	7.5	6.9	8.6	8.0	9.3	8.8	8.8	7.1	---	---	6.6	5.5
31	7.2	6.4	---	---	9.3	8.8	9.4	8.3	---	---	8.2	6.5
MONTH	8.4	3.6	8.8	4.9	10.2	7.8	11.4	6.8	11.4	8.0	11.1	5.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.1	8.1	7.1	5.7	5.6	3.0	6.0	5.0	7.5	6.7	7.7	4.3
2	9.2	8.1	6.5	5.2	5.2	4.6	6.2	4.9	7.3	5.8	8.3	7.5
3	9.7	7.9	6.0	5.4	5.0	4.2	6.8	5.7	6.1	4.0	8.4	7.7
4	10.1	9.5	---	---	5.3	4.1	6.5	5.4	7.4	4.5	8.4	7.6
5	9.5	8.6	---	---	5.5	4.0	6.1	5.0	7.3	5.4	8.3	7.7
6	9.3	7.6	6.5	5.9	5.6	4.8	---	---	7.5	6.3	8.1	6.1
7	8.9	7.4	6.5	6.1	5.4	4.9	---	---	7.6	5.9	6.2	5.5
8	8.6	6.2	6.4	5.9	5.0	4.5	7.2	6.2	7.5	7.0	7.9	6.0
9	8.3	6.1	6.2	5.8	5.1	3.5	7.0	5.8	7.4	5.6	7.9	6.1
10	7.7	6.0	6.0	5.5	6.3	4.1	7.0	6.0	5.7	5.0	8.3	7.7
11	7.6	6.2	5.7	5.4	6.5	3.9	7.0	5.7	7.2	4.5	8.6	8.1
12	7.5	5.9	5.4	4.7	6.4	3.7	6.1	5.2	7.8	4.5	8.8	8.0
13	6.6	5.6	6.2	5.1	6.8	4.6	5.5	4.7	8.1	7.5	8.8	6.9
14	6.8	5.7	6.2	5.3	6.2	5.1	5.0	4.3	8.3	7.8	7.1	6.0
15	7.8	6.6	6.2	5.6	6.2	5.9	4.8	4.3	8.4	7.8	7.7	5.9
16	8.2	6.9	5.9	5.4	6.3	5.3	5.0	4.7	8.0	6.3	8.5	7.8
17	8.6	7.6	5.9	5.2	7.0	5.6	5.1	4.9	6.4	4.7	8.5	7.7
18	9.1	7.9	5.6	4.9	6.3	5.7	5.1	4.6	8.2	4.9	8.6	8.0
19	8.1	7.0	5.1	4.7	6.1	5.4	5.0	4.7	8.2	7.1	8.5	7.8
20	7.0	6.0	5.4	4.6	6.8	5.2	5.0	4.7	8.0	7.5	7.8	6.8
21	7.0	6.0	5.6	4.7	6.6	5.2	6.5	4.6	8.3	7.9	7.1	5.9
22	8.1	6.7	6.1	5.3	6.1	5.2	7.7	6.5	8.4	7.8	7.2	5.8
23	8.4	7.2	6.2	5.8	5.5	4.9	7.8	6.7	8.0	5.6	8.2	6.0
24	8.3	7.4	6.1	5.5	5.5	3.4	7.9	6.5	5.7	4.3	8.5	6.3
25	8.4	7.7	6.2	5.6	6.5	5.1	7.9	6.2	6.9	4.6	8.6	7.5
26	7.9	6.3	6.0	5.5	6.1	5.4	6.6	4.3	8.2	6.9	8.7	7.9
27	6.3	5.6	5.8	5.4	5.8	5.3	5.6	4.5	8.5	7.6	8.0	6.4
28	5.6	5.2	5.6	5.2	5.6	5.3	5.8	4.5	8.3	7.6	6.5	5.5
29	7.1	5.2	5.8	5.0	5.7	5.4	7.4	5.1	8.2	7.3	7.5	5.0
30	7.4	5.9	5.6	5.0	5.4	4.8	7.6	6.3	7.1	5.3	8.1	6.0
31	---	---	5.9	5.2	---	---	7.7	6.4	5.4	4.2	---	---
MONTH	10.1	5.2	7.1	4.6	7.0	3.0	7.9	4.3	8.5	4.0	8.8	4.3
YEAR	11.4	3.0										

APALACHICOLA RIVER BASIN

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02337500 SNAKE CREEK NEAR WHITESBURG, GA.

LOCATION (REVISED).--Lat 33°31'46", long 84°55'42", Carroll County, Hydrologic Unit 03130002, on left bank, on downstream side of former bridge pier, 50 ft upstream from county highway bridge, at Banning Mills, 1.6 mi north of U.S. Highway 27 (ALT), 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. Elevation of gage is 850 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--33 years, 57.2 ft³/s, 20.99 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 greater than base discharge 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. 18	1745	*2,950	*8.99	June 25	2045	1,530	6.53
June 16	1100	1,870	7.24	Aug. 6	1745	1,390	6.22

Minimum discharge, 3.7 ft³/s, Oct. 7, 8, gage height, 1.74 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	11	50	29	45	300	70	40	29	58	21	18
2	5.6	11	46	27	48	122	67	40	30	51	20	17
3	5.3	11	39	26	45	91	87	46	28	46	20	16
4	4.9	11	34	26	42	78	80	48	34	74	33	15
5	4.6	11	31	25	40	72	72	52	29	90	41	16
6	4.3	11	29	23	41	67	68	44	27	68	219	19
7	3.9	11	27	23	64	61	67	42	26	82	86	21
8	3.8	11	26	23	52	77	63	40	25	55	39	23
9	7.2	11	26	23	44	105	61	37	24	47	30	38
10	19	11	37	24	42	84	58	36	24	42	26	23
11	9.5	12	51	23	41	70	57	51	23	38	25	21
12	9.1	14	46	22	40	67	56	50	23	36	60	21
13	20	12	38	22	41	62	64	45	67	34	31	25
14	27	11	34	21	38	59	86	55	66	35	26	33
15	14	13	33	22	39	57	69	57	85	35	24	22
16	11	13	31	23	71	56	63	44	565	32	24	21
17	10	14	30	24	54	54	59	39	150	30	24	20
18	9.7	14	32	796	49	97	57	37	101	29	24	19
19	9.2	13	29	619	45	155	55	37	67	28	26	21
20	9.0	56	28	179	43	90	52	43	58	28	22	22
21	8.9	41	27	88	43	77	51	42	58	28	21	19
22	8.7	27	26	82	50	69	49	39	57	27	21	18
23	8.7	24	33	67	50	64	48	36	48	26	20	16
24	9.2	22	45	58	45	66	46	34	43	25	20	16
25	28	24	37	227	43	64	45	34	232	25	19	15
26	24	255	34	150	62	59	44	32	209	27	20	15
27	15	67	33	85	146	60	43	31	87	25	19	15
28	13	44	30	69	407	59	43	30	60	26	18	15
29	12	37	28	60	---	57	41	30	49	23	18	16
30	12	52	28	53	---	90	40	29	44	22	17	22
31	11	---	27	48	---	84	---	28	---	21	17	---
TOTAL	343.5	875	1045	2987	1770	2573	1761	1248	2368	1213	1031	598
MEAN	11.1	29.2	33.7	96.4	63.2	83.0	58.7	40.3	78.9	39.1	33.3	19.9
MAX	28	255	51	796	407	300	87	57	565	90	219	38
MIN	3.8	11	26	21	38	54	40	28	23	21	17	15
CFSM	.30	.79	.91	2.61	1.71	2.24	1.59	1.09	2.13	1.06	.90	.54
IN.	.35	.88	1.05	3.00	1.78	2.59	1.77	1.25	2.38	1.22	1.04	.60
CAL YR 1986 TOTAL	8316.4			MEAN 22.8	MAX 255	MIN 3.8	CFSM .62	IN 8.36				
WTR YR 1987 TOTAL	17812.5			MEAN 48.8	MAX 796	MIN 3.8	CFSM 1.32	IN 17.91				

APALACHICOLA RIVER BASIN

02337500 SNAKE CREEK NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)				
APR 15...	0730	73	30	31	7.10	8.30	16.5	8.9	95				
SEP 03...	0700	15	32	33	7.21	7.00	19.0	8.2	90				

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB 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 15...	33	5.5	8	0	1.8	0.80	2.3	36	0.4	1.0	9.0	1.4
SEP 03...	22	4.7	8	0	1.8	0.80	2.5	38	0.4	0.90	11	1.3

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 CONSTITU- ENTS, 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 15...	3.7	1.8	<0.10	8.7	22	26	4.3	0.03	0.200	0.170	0.020	0.020
SEP 03...	1.8	2.0	0.10	11	23	28	0.93	0.03	0.100	0.120	0.020	0.020

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- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)
APR 15...	0.38	0.38	0.40	0.40	0.60	--	0.020	0.010	1.5	<10	<1	<1
SEP 03...	0.68	0.18	0.70	0.20	0.80	--	0.010	0.020	1.3	20	<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 15...	<1	<10	<1	64	<5	<5	32	--	--	<1	67
SEP 03...	<1	<1	<1	170	10	<5	29	<0.10	<0.1	15	<3

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 above National Geodetic Vertical Datum of 1929. Prior to May 1, 1949, nonrecording 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.--No estimated daily discharges. 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.--37 years (water years 1939-53, 1966-87), 3,987 ft³/s, 22.28 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, 28,400 ft³/s, Jan. 19, gage height, 18.65 ft; minimum daily, 1,160 ft³/s Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1630	1700	6130	2190	2520	20300	3770	2600	2220	3110	3110	2470		
2	1540	1720	5140	2510	2480	12500	3290	2650	2130	6830	2270	3550		
3	1370	1570	3420	2170	2780	7530	3920	2310	2010	3880	1870	3620		
4	1320	1570	2900	2220	2900	4410	5160	2070	2220	4320	3140	3550		
5	1240	1690	2510	2180	2620	3390	3440	2740	2150	4670	6190	3570		
6	1210	1690	2350	2060	2370	3300	2920	2390	1980	3800	4980	2490		
7	1160	1660	2220	1980	4260	2880	2900	2290	1760	4640	6970	1580		
8	1190	1660	2160	2040	3740	3220	3100	2260	1620	3860	5590	2870		
9	1220	1650	2120	1960	2650	4240	3130	2220	1830	3610	4130	5790		
10	2390	1540	2600	2290	2560	3950	2790	1910	2190	3280	2240	4460		
11	3990	1520	4270	2030	2970	3380	2790	1990	2360	2920	3070	3970		
12	1950	1940	5160	1800	2910	3000	2520	2590	2560	2190	4460	3990		
13	3060	1690	3520	1800	2700	2980	2300	5380	3480	1890	4330	3030		
14	6340	1800	2920	1920	2600	2730	3090	4190	6870	1870	4240	1930		
15	3930	1840	2340	2000	2200	2520	4210	4770	3210	1850	4130	2490		
16	2260	2020	2510	2100	2850	2410	4280	2890	7340	1760	2750	3640		
17	1860	1970	2350	2250	2850	2350	4010	2560	6730	1730	1700	3580		
18	1780	1890	2620	6130	2400	2610	3790	2180	3630	1720	2740	3570		
19	1670	1850	2730	26400	2560	5210	2760	2270	2900	1620	4550	3550		
20	1460	3600	2410	23100	2300	4040	2260	2640	3700	1560	4300	2790		
21	1540	6850	2560	8830	2190	3370	2800	3390	3940	2070	4180	1640		
22	1720	3530	1980	6490	2360	2770	3770	2820	2750	3070	4070	1880		
23	1520	2400	2130	6060	2770	2520	4650	2400	2700	3010	2750	2340		
24	1520	2400	4150	4370	2420	2440	4380	2000	3060	3010	1620	2380		
25	2620	2940	3390	5130	2460	2640	3880	1910	5040	2970	2260	3240		
26	12100	6360	3130	10900	2500	2790	2850	1830	4860	2370	3580	3230		
27	4970	9280	2480	6340	5710	2680	1980	1990	3020	1970	3780	2040		
28	3410	5060	2440	4620	12900	3860	2030	1930	2290	2260	3660	1370		
29	1990	3150	2270	3640	---	2950	2640	1930	2050	2920	3630	1930		
30	1980	3320	2220	3310	---	3260	2680	2130	1920	2910	2490	4280		
31	1760	---	2140	3030	---	4630	---	1990	---	2920	1420	---		
TOTAL	77700	81860	91270	153850	88530	130860	98090	79220	94520	90590	110200	90820		
MEAN	2506	2729	2944	4963	3162	4221	3270	2555	3151	2922	3555	3027		
MAX	12100	9280	6130	26400	12900	20300	5160	5380	7340	6830	6970	5790		
MIN	1160	1520	1980	1800	2190	2350	1980	1830	1620	1560	1420	1370		
CAL YR 1986	TOTAL	807990	MEAN	2214	MAX	12100	MIN	1160	MEAN†	1998	CFSM†	.82	INT†	11.17
WTR YR 1987	TOTAL	1187510	MEAN	3253	MAX	26400	MIN	1160	MEAN†	3579	CFSM†	1.47	INT†	20.00

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, July 1975 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: August 1975 to September 1976, November 1978 to September 1984.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.5°C June 24, 1981; minimum, 1.5°C Jan. 13, 1982.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 08...	0800	1180	138	124	6.80	7.00	23.0	19.0	4.2	50
NOV 05...	1230	1710	140	139	6.90	7.00	20.0	22.0	5.4	61
DEC 03...	1015	3480	92	87	6.90	6.90	12.0	13.0	9.4	89
JAN 07...	1230	1970	110	103	7.00	7.10	9.5	18.0	9.2	82
FEB 04...	1030	2870	114	107	6.90	6.80	9.5	10.0	10.4	92
MAR 02...	1300	11300	56	55	6.80	6.90	8.5	16.5	10.5	91
APR 08...	0915	3340	89	94	6.80	6.90	12.0	15.0	7.8	74
MAY 07...	0930	2250	108	106	6.80	6.90	21.0	22.0	5.2	60
JUN 04...	0830	2060	125	122	6.90	6.80	25.0	24.0	3.6	44
JUL 08...	0915	3860	73	76	6.80	6.90	23.5	29.0	6.3	75
AUG 06...	1000	4310	70	64	6.60	6.90	20.0	31.0	7.0	79
SEP 01...	1130	2350	120	118	6.80	7.00	23.5	30.0	5.2	62

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINE- ITY 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)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 08...	15	5.0	80	22	14	2.52	0.790	1.24	3.0
NOV 05...	34	5.3	310	26	86	1.88	1.47	0.930	4.4
DEC 03...	50	2.3	4900	21	102	0.650	0.580	0.710	9.6
JAN 07...	21	5.0	4600	24	65	1.18	1.12	0.880	6.4
FEB 04...	15	2.7	700	24	24	0.830	0.940	0.510	3.6
MAR 02...	100	2.2	4900	10	181	0.430	0.240	0.170	4.2
APR 08...	15	1.1	490	20	30	0.970	0.550	0.430	5.9
MAY 07...	39	1.2	3500	24	114	1.43	0.660	0.460	2.9
JUN 04...	16	2.0	700	22	29	2.00	0.260	0.580	4.2
JUL 08...	50	1.9	3300	17	155	0.750	0.110	0.420	12
AUG 06...	71	3.3	28000	13	162	1.13	0.170	0.150	10
SEP 01...	15	1.3	1400	22	13	1.59	0.460	1.07	4.9

APALACHICOLA RIVER BASIN

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02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

				STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT							
	06...	1245	1440		26.0	27	105
	06...	1250	1440		26.0	24	93
	25...	2000	3800		--	154	1580
	26...	0935	14000		--	850	32100
	26...	0940	14000		--	905	34200
NOV							
	12...	1300	2310		--	30	187
	12...	1305	2310		--	33	206
DEC							
	15...	1108	2500		10.0	26	175
	15...	1113	2500		10.0	25	169
JAN							
	19...	1401	27700		--	554	41400
	20...	1114	25600		--	328	22700
	20...	1119	25600		--	332	23000
	20...	1535	22200		--	301	18100
	20...	1540	22200		--	279	16700
	21...	1201	8670		--	212	4960
	21...	1206	8670		--	195	4570
FEB							
	09...	1445	2780		9.0	31	233
	09...	1450	2780		9.0	34	255
	27...	1830	7220		--	104	2030
	27...	1835	7220		--	108	2110
	28...	1133	11900		--	383	12300
MAR							
	01...	1126	21000		--	631	35800
	01...	1131	21000		--	654	37200
	02...	0919	12500		--	290	9810
	02...	0924	12500		--	304	10300
	02...	1602	10600		--	288	8220
	02...	1607	10600		--	265	7560
	16...	1303	2600		14.0	15	105
	16...	1308	2600		14.0	14	98
APR							
	27...	1245	2200		19.0	21	124
	27...	1250	2200		19.0	22	130
JUN							
	08...	1145	1850		--	17	85
	08...	1150	1850		--	16	80
JUL							
	20...	1345	1780		27.5	14	67
	20...	1350	1780		27.5	13	63
AUG							
	31...	1210	1660		24.0	11	49
	31...	1215	1660		24.0	11	49

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
OCT												
25...	1955	3800	27	40	54	63	72	80	87	91	96	100
25...	2000	3800	--	--	--	--	--	78	--	--	--	--
26...	0935	14000	--	--	--	--	--	70	--	--	--	--
JAN												
19...	1356	27700	--	29	--	--	--	53	67	86	99	100
19...	1401	27700	--	--	--	--	--	49	--	--	--	--
20...	1535	22200	--	--	--	--	--	44	--	--	--	--
FEB												
28...	1128	11900	13	19	25	29	34	41	59	85	97	100
28...	1133	11900	--	--	--	--	--	49	--	--	--	--
MAR												
02...	0919	12500	--	--	--	--	--	60	--	--	--	--

APALACHICOLA RIVER BASIN

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.

LOCATION.--Lat 33°16'45", long 85°06'00", Heard County, Hydrologic Unit 03130002, at the 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 Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 08...	1000	165	156	7.00	7.20	25.5	19.0	6.2	77
NOV 05...	1330	134	129	6.90	7.10	21.0	21.5	6.6	75
DEC 03...	1230	82	78	6.80	6.90	11.5	11.5	8.5	79
JAN 07...	1330	102	95	7.10	6.80	9.0	20.0	10.6	93
FEB 04...	1230	102	99	6.90	6.60	12.0	16.5	10.5	99
MAR 05...	1100	80	78	6.80	6.90	10.5	15.5	9.5	86
APR 08...	1045	96	99	6.90	6.90	13.0	18.5	8.9	86
MAY 07...	1030	110	108	6.90	7.10	22.5	24.5	6.6	78
JUN 04...	1000	112	111	7.00	7.00	26.0	29.0	4.2	53
JUL 08...	1005	94	97	6.80	6.80	27.0	32.0	5.5	70
AUG 06...	1225	74	67	6.60	6.70	24.0	28.5	5.8	70
SEP 01...	1215	98	96	7.10	7.10	25.0	31.0	7.0	86

DATE	TUR- BID- ITY (NTU)	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)
OCT 08...	7.0	2.0	430	23	7	2.76	0.270	1.02	2.6
NOV 05...	24	2.8	110	22	49	1.89	0.430	0.680	4.3
DEC 03...	80	4.0	3300	17	200	0.740	0.360	0.270	5.4
JAN 07...	15	2.9	330	18	31	1.22	0.510	0.480	2.3
FEB 04...	11	1.6	230	14	16	0.820	0.460	0.350	2.3
MAR 05...	39	1.5	790	16	61	0.840	0.330	0.230	3.0
APR 08...	12	1.0	460	20	24	1.15	0.290	0.360	3.8
MAY 07...	18	2.5	130	21	33	1.64	0.340	0.480	3.3
JUN 04...	14	1.8	230	18	17	1.54	<0.020	0.360	4.6
JUL 08...	80	2.7	4900	18	38	0.950	0.090	0.130	5.1
AUG 06...	90	3.3	33000	12	254	1.31	0.210	0.330	17
SEP 01...	14	1.7	20	14	15	1.11	0.070	0.550	3.1

APALACHICOLA RIVER BASIN

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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.

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

GAGE.--Water-stage recorder. Datum of gage is 634.68 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Sept. 9-30. Records good, except those for the period of estimated record, which are fair. Daily water temperature record available for water years 1979-84.

AVERAGE DISCHARGE.--9 years, 147 ft³/s, 15.72 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.92 ft, April 14, 1979 (discharge not determined); minimum daily discharge, 0.24 ft³/s, Aug. 7, 1986.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 1	1600	*1,730	*9.37

Minimum daily discharge, 4.5 ft³/s, Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	23	368	81	136	1590	281	62	33	188	28	16
2	8.0	22	257	86	151	909	208	63	32	495	25	14
3	7.2	23	175	75	177	501	271	139	35	421	25	12
4	7.3	22	131	72	136	369	352	112	57	452	141	12
5	6.5	22	110	73	125	285	232	105	52	975	116	12
6	5.7	23	96	69	124	235	186	98	37	536	63	12
7	5.0	24	88	67	274	204	174	84	31	440	91	13
8	4.5	24	84	66	280	234	163	78	28	249	106	13
9	4.7	24	81	65	169	320	152	71	26	167	57	55
10	7.8	25	82	68	136	261	140	64	24	134	42	35
11	11	27	136	68	126	197	131	71	22	107	34	28
12	11	38	168	62	120	176	130	155	21	83	65	26
13	17	36	119	60	113	164	123	142	28	67	86	35
14	86	30	98	59	113	150	124	221	77	57	43	48
15	86	29	89	63	107	141	131	215	90	50	32	35
16	42	33	85	66	238	135	126	150	147	45	29	27
17	27	57	86	88	215	137	118	104	333	41	26	23
18	22	84	90	192	145	200	114	83	146	38	25	20
19	18	57	88	685	125	332	110	92	95	35	24	17
20	16	189	81	658	117	212	115	89	80	33	22	22
21	15	595	74	284	118	165	112	76	103	32	20	20
22	14	268	71	472	190	146	105	70	140	31	19	19
23	14	128	87	747	407	133	98	66	122	29	17	18
24	15	108	138	433	239	135	85	60	91	27	16	17
25	37	92	117	387	170	168	76	56	271	27	15	16
26	123	199	96	722	225	144	74	53	570	63	25	15
27	82	363	87	482	575	140	72	48	374	100	37	14
28	49	173	81	299	989	445	70	43	164	70	24	13
29	36	145	77	220	---	309	68	40	109	47	19	14
30	31	252	75	180	---	315	65	38	87	37	17	15
31	28	---	72	154	---	406	---	35	---	31	16	---
TOTAL	844.2	3135	3487	7103	6040	9258	4206	2783	3425	5107	1305	636
MEAN	27.2	105	112	229	216	299	140	89.8	114	165	42.1	21.2
MAX	123	595	368	747	989	1590	352	221	570	975	141	55
MIN	4.5	22	71	59	107	133	65	35	21	27	15	12
CFSM	.21	.83	.88	1.80	1.70	2.35	1.10	.71	.90	1.30	.33	.17
IN.	.25	.92	1.02	2.08	1.77	2.71	1.23	.82	1.00	1.50	.38	.19
CAL YR 1986	TOTAL	24972.51	MEAN	68.4	MAX	630	MIN	.24	CFSM	.54	IN	7.31
WTR YR 1987	TOTAL	47329.20	MEAN	130	MAX	1590	MIN	4.5	CFSM	1.02	IN	13.86

APALACHICOLA RIVER BASIN

02338720 CHATTAHOOCHEE RIVER NEAR LA GRANGE, GA.

LOCATION.--Lat 33°04'42", long 85°06'39", Troup County, Hydrologic Unit 03130002, at the City of La Grange water 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 Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
08...	1100	130	127	7.50	7.60	26.0	22.0	5.4	68
NOV									
05...	1415	96	94	7.20	7.10	19.0	24.0	8.1	89
DEC									
03...	1330	75	72	6.70	6.60	13.5	10.0	8.2	80
JAN									
07...	1415	96	92	7.00	7.00	8.0	16.5	10.4	89
FEB									
04...	1330	74	72	6.90	6.70	8.5	19.0	10.4	90
MAR									
05...	1200	52	51	6.80	6.80	9.5	17.5	8.4	74
APR									
08...	1145	82	83	7.30	7.20	14.0	17.0	9.4	93
MAY									
07...	1115	90	96	9.00	8.60	23.5	25.0	11.3	135
JUN									
04...	1100	105	104	9.40	9.20	28.5	27.5	7.8	102
JUL									
08...	1100	100	93	9.80	9.70	30.0	35.0	11.5	154
AUG									
06...	1335	118	96	9.80	9.90	31.5	29.5	13.4	186
SEP									
01...	1325	97	90	9.60	9.50	29.0	29.5	15.7	208

DATE	TUR- BID- ITY (NTU)	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)
OCT								
08...	5.0	--	3.6	<20	24	8	1.07	0.250
NOV								
05...	13	--	3.9	<20	19	15	0.970	0.060
DEC								
03...	49	--	1.9	230	15	20	0.630	0.220
JAN								
07...	7.0	--	2.3	170	20	8	1.09	0.300
FEB								
04...	25	--	0.9	80	13	11	0.480	0.260
MAR								
05...	60	--	1.6	4900	11	57	0.380	0.140
APR								
08...	7.0	--	1.6	20	18	6	0.810	0.050
MAY								
07...	3.0	--	3.8	<20	23	5	0.960	<0.020
JUN								
04...	2.0	--	3.9	<20	26	8	0.210	<0.020
JUL								
08...	2.0	--	4.8	<20	21	25	0.050	0.030
AUG								
06...	8.0	19	4.5	<20	23	21	<0.020	0.080
SEP								
01...	9.0	15	2.0	<20	18	27	0.160	0.040

02338720 CHATTAHOOCHEE RIVER NEAR LA GRANGE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
08...	--	--	--	0.360	4.2
NOV					
05...	--	--	--	0.140	6.6
DEC					
03...	--	--	--	0.170	3.6
JAN					
07...	--	--	--	0.290	2.0
FEB					
04...	--	--	--	0.200	4.0
MAR					
05...	--	--	--	0.100	3.3
APR					
08...	--	--	--	0.150	2.4
MAY					
07...	--	--	--	0.130	4.2
JUN					
04...	--	--	--	0.120	--
JUL					
08...	--	--	--	0.060	6.5
AUG					
06...	1.3	1.4	--	0.090	14
SEP					
01...	0.86	0.90	1.1	0.180	6.0

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, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1896 to current year. 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 above 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.--No estimated daily discharges. 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.--91 years, 5,591 ft³/s, 21.39 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 discharge, 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, 17,300 ft³/s, Jan. 19, Feb. 28, gage height, 9.75 ft; minimum daily discharge, 599 ft³/s Oct. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1910	688	6370	5320	4600	10500	2940	4420	4640	4060	1020	6000
2	1950	686	4840	5360	7860	16400	4080	2580	4570	6900	1020	4630
3	1940	4520	6220	803	7960	16100	4740	1410	4590	8160	6940	4670
4	599	4620	5270	790	7910	16200	1070	1540	6460	6220	7100	4660
5	599	4690	5320	4270	7910	12800	953	1470	6440	10900	7100	612
6	1970	4700	834	4400	8020	12500	6630	3280	706	5840	7460	610
7	1960	4720	795	4690	1320	1270	6660	2670	655	5590	7320	6000
8	1960	730	6480	4080	1020	994	8500	2720	4520	5610	733	6070
9	1960	700	6530	3830	5940	9610	8470	766	6100	7330	690	6070
10	1980	4720	6550	795	6520	9880	8580	743	6130	7230	5640	6070
11	605	4760	6650	789	5960	9860	869	2050	6130	3660	6940	6060
12	615	4760	6700	5320	5990	9900	855	1550	6140	3630	6370	651
13	2000	4800	885	4050	5950	9960	6630	1590	609	4880	6340	673
14	2040	4860	830	4060	731	1240	6680	1560	676	5080	6360	6710
15	2000	733	5250	4100	703	880	4060	1620	2750	3950	667	6750
16	1950	706	5260	4070	6710	7190	3330	869	2710	3910	653	6780
17	1920	2290	5310	844	5870	7360	3400	831	2730	3950	6460	6770
18	632	2300	5280	1090	5510	7530	850	2400	2750	1030	6460	6750
19	620	2150	5340	10100	5460	7650	839	2350	4570	1030	6380	667
20	1890	2300	823	11400	5420	7500	5300	2360	7150	5730	6530	631
21	1900	2580	773	16100	933	1030	5290	2380	5920	5640	6520	6710
22	1940	955	5230	16400	1090	880	6260	4180	4680	5680	646	4050
23	1960	853	5320	11900	6400	6070	5340	2150	4740	5800	637	6710
24	1980	4080	5380	7030	6210	6130	5310	3340	4750	5730	6570	6790
25	724	4130	5360	6230	6140	6140	831	2690	5090	1050	6600	6790
26	762	4360	5330	9840	6180	6100	814	2700	8460	1240	6650	672
27	1990	4620	848	10200	6490	6180	2110	2700	7680	5290	6670	668
28	1950	4290	806	9780	6830	959	2100	2710	2590	5180	6670	3270
29	1980	6030	5300	9750	---	900	2110	2730	3670	5140	637	3290
30	1970	7230	5280	9760	---	2990	5320	773	3750	5150	620	3400
31	1940	---	5280	4600	---	4390	---	794	---	5150	5920	---
TOTAL	50196	99561	136444	191751	147637	217093	120921	65926	132356	155740	146323	130184
MEAN	1619	3319	4401	6186	5273	7003	4031	2127	4412	5024	4720	4339
MAX	2040	7230	6700	16400	8020	16400	8580	4420	8460	10900	7460	6790
MIN	599	686	773	789	703	880	814	743	609	1030	620	610
CAL YR 1986 TOTAL		963689	MEAN 2640	MAX 7230	MIN 517	MEAN† 2573	CFSM† .72	INT† 9.84				
WTR YR 1987 TOTAL		1594132	MEAN 4367	MAX 16400	MIN 599	MEAN† 4724	CFSM† 1.33	INT† 18.07				

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER AND WEST POINT LAKE.

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GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.56	1.92	4.94	4.38	4.07	6.77	3.24	3.95	3.99	3.72	2.28	4.46
2	2.58	1.92	4.12	4.40	5.59	9.40	3.81	3.23	3.95	5.15	2.29	3.85
3	2.57	3.92	4.87	2.11	5.64	9.28	4.13	2.56	3.96	5.67	5.12	3.86
4	1.84	3.99	4.30	2.10	5.61	9.30	2.32	2.64	4.83	4.81	5.20	3.86
5	1.84	4.02	4.39	3.88	5.61	7.82	2.23	2.60	4.81	7.06	5.22	1.94
6	2.59	4.02	2.13	3.94	5.66	7.65	5.01	3.46	2.04	4.57	5.36	1.94
7	2.58	4.03	2.10	4.07	2.55	2.41	5.02	3.04	2.02	4.44	5.32	4.44
8	2.58	1.97	4.92	3.78	2.36	2.26	5.87	3.08	3.93	4.44	2.05	4.49
9	2.58	1.94	4.95	3.67	4.71	6.37	5.85	2.08	4.67	5.25	2.01	4.49
10	2.59	4.01	4.96	2.10	4.98	6.53	5.90	2.06	4.69	5.20	4.43	4.48
11	1.85	4.05	5.01	2.10	4.72	6.52	2.16	2.78	4.69	3.49	5.03	4.48
12	1.86	4.05	5.04	4.37	4.73	6.53	2.15	2.55	4.69	3.47	4.77	1.98
13	2.61	4.07	2.18	3.77	4.71	6.55	5.00	2.58	2.01	4.10	4.74	2.00
14	2.66	4.09	2.13	3.78	2.17	2.39	5.03	2.56	2.06	4.26	4.74	4.76
15	2.64	1.97	4.34	3.79	2.15	2.17	3.73	2.60	3.13	3.73	1.99	4.79
16	2.59	1.95	4.36	3.78	5.11	5.24	3.44	2.16	3.10	3.71	1.98	4.80
17	2.57	2.84	4.38	2.14	4.71	5.34	3.47	2.13	3.13	3.72	4.76	4.79
18	1.87	2.88	4.37	2.33	4.50	5.42	2.15	2.98	3.13	2.29	4.75	4.78
19	1.86	2.75	4.39	6.55	4.47	5.50	2.14	2.95	3.97	2.29	4.71	1.99
20	2.54	2.86	2.13	7.14	4.44	5.42	4.36	2.95	5.16	4.56	4.77	1.96
21	2.56	3.09	2.09	9.28	2.22	2.28	4.36	2.97	4.61	4.52	4.77	4.75
22	2.58	2.17	4.32	9.39	2.33	2.17	4.82	3.90	4.02	4.54	1.97	3.60
23	2.60	2.08	4.38	7.41	4.94	4.73	4.39	2.83	4.04	4.60	1.97	4.75
24	2.61	3.67	4.43	5.26	4.83	4.77	4.37	3.38	4.04	4.56	4.76	4.80
25	1.96	3.71	4.41	4.85	4.79	4.77	2.13	3.08	4.23	2.30	4.77	4.79
26	2.00	3.87	4.39	6.49	4.81	4.75	2.12	3.08	5.83	2.45	4.79	1.97
27	2.64	4.09	2.15	6.65	4.98	4.79	2.79	3.08	5.58	4.37	4.79	1.94
28	2.62	3.85	2.11	6.42	5.10	2.24	2.79	3.08	3.02	4.31	4.78	3.26
29	2.62	4.63	4.37	6.40	---	2.19	2.79	3.09	3.51	4.29	1.96	3.28
30	2.62	5.26	4.36	6.41	---	3.26	4.30	2.09	3.54	4.29	1.95	3.35
31	2.60	---	4.36	4.07	---	3.99	---	2.10	---	4.28	4.42	---
MEAN	2.41	3.32	3.92	4.74	4.37	5.12	3.73	2.83	3.88	4.21	3.95	3.69
MAX	2.66	5.26	5.04	9.39	5.66	9.40	5.90	3.95	5.83	7.06	5.36	4.80
MIN	1.84	1.92	2.09	2.10	2.15	2.17	2.12	2.06	2.01	2.29	1.95	1.94
CAL YR 1986	MEAN 3.01		MAX 5.26	MIN 1.75								
WTR YR 1987	MEAN 3.84		MAX 9.40	MIN 1.84								

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 08...	1300	599	95	96	7.10	7.20	27.5	26.5	5.5	70
NOV 05...	1530	1160	106	107	7.00	7.20	21.0	24.0	3.6	41
DEC 03...	1500	1670	70	68	6.70	6.70	13.0	10.5	8.4	81
JAN 07...	1535	913	72	70	7.00	7.00	11.5	19.0	10.0	93
FEB 04...	1500	4130	54	51	6.90	6.60	11.0	18.0	11.1	102
MAR 05...	1315	16200	77	78	7.00	7.00	10.5	18.0	8.6	77
APR 08...	1230	5720	56	57	7.00	7.10	13.0	20.5	8.9	86
MAY 07...	1215	743	65	72	7.30	7.40	20.0	26.5	7.6	85
JUN 04...	1200	743	78	78	7.20	7.20	28.5	29.0	6.8	89
JUL 08...	1200	697	68	70	6.80	6.90	27.0	35.0	5.6	71
AUG 06...	1450	15100	88	79	6.90	6.80	27.5	23.5	3.1	40
SEP 01...	1415	14400	90	86	7.00	7.00	27.5	30.0	3.7	48

DATE	TUR- BID- ITY (NTU)	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)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
OCT 08...	3.0	2.6	<20	24	0.160	0.110	0.040	2.3	250	60
NOV 05...	4.0	1.0	110	26	0.570	0.080	0.080	3.7	290	60
DEC 03...	10	1.6	130	15	0.470	0.180	0.050	2.9	1300	110
JAN 07...	7.0	1.5	60	19	0.520	0.180	0.060	3.1	820	120
FEB 04...	15	0.3	220	14	0.230	0.130	0.040	4.0	1200	100
MAR 05...	7.0	1.0	<20	16	0.710	0.340	0.150	2.4	460	95
APR 08...	5.0	0.9	90	16	0.200	0.090	0.040	3.3	760	120
MAY 07...	5.0	2.2	50	25	0.240	0.060	0.040	3.6	810	130
JUN 04...	3.0	1.3	20	24	0.220	<0.020	0.060	1.9	410	120
JUL 08...	5.0	1.9	20	22	0.140	0.100	0.040	3.7	1600	150
AUG 06...	5.0	1.1	90	20	<0.020	0.430	<0.020	14	920	340
SEP 01...	5.0	1.0	<20	20	0.230	0.260	0.070	4.1	--	--

APALACHICOLA RIVER BASIN

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02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
07...	1115	599	18.0	3	4.9
07...	1120	599	18.0	5	8.1
FEB					
15...	1245	686	10.5	9	17
15...	1250	686	10.5	9	17
APR					
28...	1145	802	19.0	7	15
28...	1150	802	19.0	6	13
JUN					
09...	1115	588	22.0	6	9.5
09...	1120	588	22.0	6	9.5
JUL					
21...	1115	1030	26.5	11	31
21...	1120	1030	26.5	8	22

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
08...	1215	12	--	777	7.20	7.40	21.0	25.0	1.7	--
NOV										
05...	1500	23	525	529	7.00	7.10	19.0	24.0	2.4	26
DEC										
03...	1430	230	118	114	6.60	6.50	11.5	10.5	7.3	68
JAN										
07...	1500	66	220	215	6.90	6.70	8.0	19.0	9.6	82
FEB										
04...	1430	--	150	144	6.80	6.70	12.5	20.0	8.2	78
MAR										
05...	1245	153	105	105	6.50	6.90	11.5	17.5	8.7	80
APR										
08...	1300	98	166	169	6.90	7.00	13.5	20.5	6.9	67
MAY										
07...	1245	68	280	285	7.20	7.20	20.0	26.5	6.4	72
JUN										
04...	1235	49	328	334	7.00	7.10	24.5	29.0	3.5	43
JUL										
08...	1220	98	111	115	6.80	7.00	25.5	35.0	5.5	68
AUG										
06...	1500	380	47	44	6.60	6.60	24.0	24.0	6.5	79
SEP										
01...	1500	26	440	400	7.40	7.50	25.0	30.0	4.8	59

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINE- 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								
08...	5.0	5.2	140	111	0.730	5.90	2.38	18
NOV								
05...	8.0	5.9	4900	72	0.600	2.90	1.75	15
DEC								
03...	17	1.7	360	21	0.280	0.200	0.300	4.5
JAN								
07...	9.0	2.1	50	35	0.760	0.340	0.630	6.1
FEB								
04...	11	2.7	1100	26	0.460	0.350	0.590	6.0
MAR								
05...	15	2.0	50	22	0.290	0.200	0.320	7.6
APR								
08...	9.0	1.8	220	34	0.460	0.130	0.360	30
MAY								
07...	13	1.9	790	54	1.06	0.140	0.720	6.3
JUN								
04...	10	2.4	1100	44	2.50	<0.020	1.10	15
JUL								
08...	11	1.9	170	31	0.860	0.140	0.270	4.7
AUG								
06...	390	2.8	7900	10	0.330	0.110	0.080	32
SEP								
01...	7.0	1.4	230	87	0.790	0.060	2.33	8.0

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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.

PERIOD OF RECORD.--October 1982 to current year.

REMARKS:--Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola Basin," stations 02334400 and 02339400.)

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 10.55 ft, Mar. 1.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.73	7.39	9.13	8.79	8.71	9.67	8.53	8.40	8.21	8.63	7.75	8.58
2	7.76	7.59	8.75	8.80	9.23	10.43	8.47	8.44	8.41	9.12	7.80	8.41
3	7.72	8.53	9.20	7.45	9.27	10.37	8.78	7.97	8.41	9.43	8.50	8.23
4	7.31	8.66	8.71	7.41	9.25	10.36	8.05	8.07	8.58	9.20	9.06	8.35
5	7.36	8.65	8.88	8.20	9.24	9.97	7.60	8.03	8.71	9.89	9.08	7.25
6	7.81	8.66	7.48	8.52	9.27	9.89	8.66	8.42	7.24	9.09	9.12	7.41
7	7.92	8.68	6.91	8.59	8.30	8.00	9.07	7.85	6.47	8.99	9.22	8.67
8	7.77	7.65	8.78	8.54	8.15	7.02	9.31	8.02	7.99	8.94	7.86	8.78
9	7.84	7.83	9.05	8.54	8.86	9.08	9.34	7.01	8.64	9.21	7.52	8.60
10	7.91	8.37	9.05	7.34	9.07	9.58	9.40	7.38	8.65	9.19	8.42	8.68
11	7.39	8.84	9.08	7.24	8.97	9.56	7.36	7.64	8.65	8.64	8.81	8.63
12	7.50	8.82	9.10	8.42	8.97	9.57	7.73	7.87	8.64	8.57	8.85	7.35
13	7.74	8.72	7.70	8.57	8.96	9.58	8.82	7.74	7.78	8.79	8.83	7.03
14	7.79	8.71	7.46	8.56	7.47	7.92	9.19	7.76	7.83	8.88	8.79	8.27
15	7.87	7.46	8.61	8.58	7.19	7.49	8.78	8.01	8.29	8.72	7.24	8.84
16	7.72	7.56	8.84	8.57	9.07	8.92	8.49	7.66	8.12	8.67	7.03	8.81
17	7.72	7.69	8.84	7.30	9.05	9.18	8.46	7.68	8.10	8.69	8.36	8.78
18	7.56	8.21	8.84	7.95	8.92	9.21	7.34	8.16	8.45	8.16	8.78	8.94
19	7.46	7.76	8.85	9.49	8.88	9.27	7.86	7.94	8.58	8.12	8.77	7.41
20	7.69	8.22	7.44	9.67	8.87	9.22	8.71	7.95	8.71	8.88	8.78	7.04
21	7.83	8.42	7.25	10.37	7.67	7.86	8.83	7.94	8.88	8.95	8.78	8.10
22	7.76	8.08	8.56	10.41	8.00	7.46	8.91	8.28	8.80	8.95	7.06	8.46
23	7.82	7.29	8.83	9.82	8.97	8.66	8.80	7.91	8.79	8.99	6.79	8.35
24	7.80	7.86	8.94	9.37	9.06	8.96	8.78	8.21	8.77	8.98	8.33	8.76
25	7.66	8.30	9.00	9.04	9.01	8.94	7.25	8.23	8.84	8.23	8.75	8.77
26	8.00	8.72	8.91	9.43	9.02	8.94	7.42	8.01	9.27	8.22	8.90	7.41
27	8.06	8.82	7.43	9.69	9.11	8.95	7.50	7.98	9.46	8.88	8.76	6.58
28	7.83	8.80	7.39	9.49	9.12	7.99	7.77	8.02	8.52	8.89	8.88	7.28
29	7.82	8.83	8.22	9.44	---	7.85	7.97	7.94	8.55	8.88	7.36	8.17
30	7.78	9.18	8.79	9.46	---	8.16	8.28	7.43	8.59	8.85	7.41	8.09
31	7.71	---	8.77	8.75	---	8.78	---	7.34	---	8.77	8.48	---
MEAN	7.73	8.28	8.48	8.77	8.77	8.93	8.38	7.91	8.43	8.85	8.32	8.13
MAX	8.06	9.18	9.20	10.41	9.27	10.43	9.40	8.44	9.46	9.89	9.22	8.94
MIN	7.31	7.29	6.91	7.24	7.19	7.02	7.25	7.01	6.47	8.12	6.79	6.58</

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 left bank at downstream side 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 above 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.--Estimated daily discharges: Oct. 16-31, Nov. 29 to Jan. 5, Jan. 10, 11, 22, 25-27, June 5-25, and July 5-9. Records fair except those below 3,000 ft³/s and those for periods of estimated daily discharges, 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.--58 years, 6,745 ft³/s, 19.61 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 loat North Highlands Dam before redevelopment; maximum stage known, 53.2 ft, Mar. 16, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38,700 ft³/s Mar. 1; maximum gage height, 20.52 ft; minimum daily, 1,170 ft³/s, July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	1380	15000	5900	5770	32200	8170	4690	4870	6290	2700	6010
2	1530	1520	14000	5200	11000	28200	7630	2150	4370	7420	3370	5130
3	1640	2340	12000	2400	12600	26000	6710	2700	4290	11200	6790	4650
4	1460	4820	10500	3600	11800	21500	3430	3190	5490	12000	7730	4000
5	1460	5030	5000	3500	10600	16000	5920	2770	5400	14000	8770	1400
6	1600	4610	1800	6190	11100	16800	6720	4540	5400	8900	8080	1770
7	1460	4000	2200	5030	11400	9570	7920	4060	1200	7500	8040	5780
8	1450	1700	5900	5060	8110	5900	9050	2810	3600	9200	4160	6520
9	2150	1700	7200	5230	10700	9400	10400	1300	3000	8400	2790	5530
10	1620	5170	6400	1300	10400	11000	9540	1670	4000	8880	3610	5820
11	1730	7280	7900	1600	9100	11600	5510	3020	5800	4050	5100	6930
12	1580	4480	7800	4840	7900	13400	4630	2120	5400	4270	5610	5170
13	3130	5000	2500	5840	8020	12000	6450	3140	3400	5500	7060	3810
14	3210	3830	2700	5000	3220	7010	7570	4120	5500	5350	7110	6410
15	2110	1330	6500	4680	4380	4960	5400	3480	5300	5320	3780	6720
16	3300	1470	5600	4610	7940	5850	4500	1420	4900	2960	3330	8120
17	2800	7740	6200	2670	10800	8580	3880	2620	4800	2500	6260	3590
18	1500	5260	6600	4910	9460	9970	2340	3120	3500	1370	6550	5320
19	1300	3280	7100	10700	7650	10700	1920	2760	7300	1170	7380	1830
20	1300	10700	2900	16200	7540	10300	5740	3070	7600	5190	6870	1390
21	2100	9190	2700	23700	2300	7270	6390	3680	8100	6170	6230	6260
22	1800	4260	5900	22000	5460	5300	6800	5210	9900	6430	2490	4650
23	2600	2800	7200	21400	6360	6080	6250	2270	6200	4980	1870	6320
24	2200	5020	5800	14700	7800	7780	6230	4220	8000	4670	5490	5870
25	3100	7280	6600	13000	8890	8000	1550	3620	8000	1930	7430	6250
26	1700	12800	6900	15000	9400	6930	1490	2780	10700	3370	7440	3290
27	2400	14000	2900	14500	15400	8030	3100	3810	14800	4350	7480	1500
28	2300	12200	2500	13900	22100	5160	3340	2840	8320	5740	5810	2260
29	2500	10000	5200	13800	---	4700	2970	1850	7040	5880	1890	2990
30	2900	12500	6000	13500	---	5000	4630	2140	6860	5910	1350	3680
31	2300	---	6600	6760	---	8670	---	2860	---	5850	4430	---
TOTAL	63720	172690	194100	276720	257200	344860	166180	94030	183040	186750	167000	138970
MEAN	2055	5756	6261	8926	9186	11120	5539	3033	6101	6024	5387	4632
MAX	3300	14000	15000	23700	22100	32200	10400	5210	14800	14000	8770	8120
MIN	1300	1330	1800	1300	2300	4700	1490	1300	1200	1170	1350	1390

CAL YR 1986 TOTAL 1314020 MEAN 3600 MAX 15000 MIN 1150 MEANT 3523 CFSMT .75 INT 10.24
WTR YR 1987 TOTAL 2245260 MEAN 6151 MAX 32200 MIN 1170 MEANT 6515 CFSMT 1.40 INT 18.95

*ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, AND LAKE HARDING.

APALACHICOLA RIVER BASIN

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02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.09	4.75	---	---	7.09	19.25	9.40	7.19	7.61	8.52	5.31	7.09
2	4.08	4.88	---	---	9.33	17.33	8.91	6.22	7.28	8.92	5.63	6.96
3	4.09	5.28	---	---	10.30	16.00	8.40	6.37	7.21	10.03	6.98	6.46
4	3.99	6.24	---	---	9.99	14.26	7.41	6.74	7.52	10.32	7.76	6.01
5	4.04	6.43	---	---	9.44	12.20	8.06	6.49	---	---	8.10	4.78
6	4.08	6.27	---	7.83	9.68	12.38	8.47	6.93	---	---	7.88	5.05
7	3.98	5.95	---	7.38	10.24	9.84	8.64	6.69	---	---	7.93	6.71
8	3.92	4.93	---	7.14	9.04	8.48	8.98	6.17	---	---	6.46	6.96
9	4.28	4.97	---	7.03	9.57	9.68	9.58	5.45	---	---	5.93	6.77
10	3.95	6.50	---	5.32	9.60	10.23	9.29	5.69	---	9.38	6.34	6.67
11	4.01	7.49	---	5.52	8.81	10.19	7.89	6.26	---	7.64	6.64	7.07
12	4.00	6.40	---	6.81	8.11	10.81	7.71	6.14	---	7.64	6.73	6.49
13	4.85	6.46	---	7.17	7.90	10.21	8.38	6.56	---	8.07	7.23	6.06
14	5.24	6.00	---	6.75	6.06	8.36	8.73	7.00	---	7.85	7.40	7.04
15	4.59	4.65	---	6.69	6.66	7.37	8.10	7.08	---	7.66	6.45	7.30
16	---	4.82	---	6.59	8.20	7.58	7.56	6.34	---	6.81	6.36	7.91
17	---	7.93	---	5.98	9.58	8.35	7.24	6.84	---	6.32	7.44	6.21
18	---	7.02	---	7.21	9.09	9.03	6.60	7.16	---	5.65	7.66	6.81
19	---	6.42	---	9.83	8.10	9.76	6.64	7.08	---	5.69	7.88	5.79
20	---	9.69	---	11.81	8.06	9.42	7.78	7.08	---	7.09	7.74	5.54
21	---	9.75	---	14.77	5.73	8.29	8.00	7.10	---	7.45	7.41	7.34
22	---	7.78	---	16.76	6.92	7.35	8.12	7.64	---	7.65	6.14	7.01
23	---	7.28	---	15.44	7.46	7.80	7.99	6.87	---	7.00	6.00	7.47
24	---	8.04	---	12.10	7.99	8.24	8.02	7.59	---	7.07	7.21	7.32
25	---	8.69	---	---	8.31	8.21	6.57	7.62	---	5.68	7.82	7.48
26	---	11.18	---	---	8.60	7.71	6.56	7.37	10.23	6.18	7.91	6.40
27	---	12.01	---	11.55	11.19	8.08	7.04	7.58	11.69	6.59	7.85	5.77
28	---	10.65	---	11.33	15.43	7.11	6.98	7.25	9.40	6.90	7.19	5.98
29	---	---	---	10.87	---	7.24	6.82	6.73	8.70	6.93	5.67	6.00
30	---	---	---	10.55	---	8.21	7.20	6.69	8.76	6.80	5.43	5.93
31	---	---	---	7.75	---	9.90	---	6.96	---	6.61	6.66	---
MEAN	---	---	---	---	8.80	9.96	7.90	6.80	---	---	6.94	6.55
MAX	---	---	---	---	15.43	19.25	9.58	7.64	---	---	8.10	7.91
MIN	---	---	---	---	5.73	7.11	6.56	5.45	---	---	5.31	4.78

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.

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

GAGE.--Water-stage recorder. Elevation of gage is 230 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--19 years, 460 ft³/s, 18.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,300 ft³/s, Apr. 1, 1981, gage height, 21.06 ft; minimum, 72 ft³/s, July 16, Aug. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge 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)
Jan. 22	1530	3,550	10.05	Mar. 1	0430	*5,740	*12.52

Minimum discharge, 92 ft³/s, Sept. 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	119	1570	517	563	4260	1360	214	144	217	119	105
2	100	119	1180	637	720	1890	913	215	139	305	116	108
3	99	119	795	475	927	1220	822	225	135	247	121	110
4	97	119	595	432	716	969	831	234	157	245	243	109
5	96	119	495	572	611	852	691	241	165	303	221	106
6	95	120	436	505	736	787	607	235	145	254	171	118
7	94	120	400	424	1750	752	562	228	130	327	196	193
8	94	119	378	380	1270	1080	531	226	120	290	239	128
9	97	119	367	355	856	1170	507	214	113	211	222	120
10	125	118	371	359	680	968	478	194	112	173	156	113
11	136	117	393	362	614	780	457	200	109	154	138	107
12	129	119	451	330	577	750	440	350	110	143	142	109
13	147	119	497	309	547	708	418	370	119	138	156	140
14	376	115	415	301	519	645	400	521	894	137	142	153
15	331	114	360	324	506	598	393	454	1200	137	125	141
16	246	121	338	388	776	563	383	357	759	131	117	127
17	174	508	324	601	718	537	371	279	855	123	114	115
18	145	607	327	1060	593	677	358	243	595	118	111	112
19	130	415	352	1240	521	1330	343	260	393	114	105	109
20	121	1250	352	867	483	981	332	311	294	111	112	109
21	116	1700	322	654	486	744	311	561	280	113	106	105
22	115	897	294	2440	569	629	299	387	381	118	102	101
23	115	499	357	2110	818	563	285	337	501	120	99	95
24	118	403	719	1150	646	529	270	260	368	118	100	94
25	145	381	651	1270	596	546	258	232	433	131	102	95
26	188	716	491	1680	627	527	251	203	521	151	110	95
27	173	830	410	1080	1790	523	244	183	387	133	115	94
28	148	580	369	815	4090	754	239	170	271	131	112	93
29	134	516	342	711	---	665	227	163	213	130	109	95
30	127	1010	325	668	---	1090	218	157	184	119	105	98
31	122	---	312	610	---	2340	---	149	---	118	103	---
TOTAL	4431	12208	14988	23626	24305	30427	13799	8373	10227	5260	4229	3397
MEAN	143	407	483	762	868	982	460	270	341	170	136	113
MAX	376	1700	1570	2440	4090	4260	1360	561	1200	327	243	193
MIN	94	114	294	301	483	523	218	149	109	111	99	93
CFSM	.42	1.19	1.41	2.23	2.54	2.87	1.35	.79	1.00	.50	.40	.33
IN.	.48	1.33	1.63	2.57	2.64	3.31	1.50	.91	1.11	.57	.46	.37
CAL YR 1986 TOTAL	119715			MEAN 328	MAX 7510	MIN 74	CFSM .96	IN 13.02				
WTR YR 1987 TOTAL	155270			MEAN 425	MAX 4260	MIN 93	CFSM 1.24	IN 16.89				

APALACHICOLA RIVER BASIN

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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.--No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Lake, and George W. Andrews Reservoir. (See "Lakes and Reservoir 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.--12 years, 10,940 ft³/s, 18.10 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, 499 ft³/s, Mar. 3, 1986.

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, 57,900 ft³/s, Mar. 2, maximum headwater gage height, 103.32 ft, Aug. 25, maximum tailwater gage height, 100.78 ft, Mar. 2; minimum daily discharge, 748 ft³/s, Dec. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2740	1600	20500	13100	10000	53800	21700	11300	10300	10600	1290	9660
2	2830	842	17700	13100	22000	54300	21400	1670	8490	8860	1320	8830
3	2990	4010	20200	2060	15900	33400	20800	1020	8360	15200	6500	9220
4	1070	5940	21500	1420	16200	28600	9560	5230	11500	8950	7760	9140
5	891	5710	22200	14600	15900	20900	8410	8710	12600	15900	7380	1620
6	2620	5670	2670	16000	22600	19800	15400	8090	1880	16200	7500	1030
7	2450	6180	748	15400	17800	14000	15300	9080	3100	13000	7510	6380
8	3130	2180	9650	15300	21000	15000	14400	9840	8840	12800	1610	7590
9	2940	832	10400	15300	15700	20600	13900	2460	11900	16300	996	6730
10	3010	5540	9840	2100	20800	22000	14000	960	13100	16100	7220	7270
11	1340	7280	13400	891	23500	21200	2130	3740	13100	7070	8430	7100
12	828	7290	14500	9430	19800	21700	3130	4240	13200	6410	8420	1010
13	2420	7190	3850	10600	16100	21800	11300	4160	1960	10300	4870	1580
14	3230	7110	1260	9420	2260	14400	11800	4750	1560	10600	3810	6900
15	3380	1670	12300	10100	1180	8220	12300	12700	8590	8580	1710	6990
16	2990	860	13700	9890	11600	13700	11700	3050	9790	10500	1190	7250
17	2640	5130	13900	2330	14500	15400	11900	1790	8430	10500	7560	7430
18	999	7710	14000	1450	18500	16500	1910	8030	8440	1510	8560	3860
19	817	7260	13900	17800	16800	22600	2840	9480	8220	981	7000	1170
20	1850	7520	2300	21500	16700	23600	8100	8130	6810	7240	4950	920
21	3020	7590	1020	29300	8850	12300	8640	8400	4670	6340	5940	3480
22	3190	1940	8680	32000	8510	6520	8930	9860	10800	6760	1620	3950
23	3120	1560	10400	36000	13400	14000	8810	1760	12700	7190	1110	7170
24	3000	9930	9830	38000	13700	16100	8330	1500	13000	9550	8680	7010
25	1700	11300	9710	30400	13500	16100	2540	6380	13200	4440	9570	7220
26	1040	17600	9500	20300	13500	15700	2480	6520	13300	4240	9760	1670
27	2170	27900	2740	29300	18500	15700	7940	6520	15700	10200	10800	2180
28	2940	27800	2580	28400	30800	2960	7700	8510	19700	11200	8090	8510
29	2760	13500	11000	28400	---	1850	7810	8700	8200	10800	1350	9430
30	2980	12800	12700	21600	---	13700	10900	1430	11100	11000	1080	9650
31	2840	---	13100	12800	---	23700	---	1170	---	7940	6660	---
TOTAL	73925	229444	329778	508291	439600	600150	306060	179180	292540	297261	170246	171950
MEAN	2385	7648	10640	16400	15700	19360	10200	5780	9751	9589	5492	5732
MAX	3380	27900	22200	38000	30800	54300	21700	12700	19700	16300	10800	9660
MIN	817	832	748	891	1180	1850	1910	960	1560	981	996	920

CAL YR 1986 TOTAL 2255676 MEAN 6180 MAX 48500 MIN 499 MEAN† 6067 CFSM† .74 INT 10.04
WTR YR 1987 TOTAL 3598425 MEAN 9859 MAX 54300 MIN 748 MEAN† 10296 CFSM† 1.25 INT 17.03

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

APALACHICOLA RIVER BASIN

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE IT-FLO AS HC03)	ALKA- LITY, CARBON- ATE IT-FLO (MG/L - CAC03)	ALKA- LITY LAB (MG/L AS CAC03)
OCT 23...	1130	840	100	101	7.30	7.60	20.5	8.9	99	34	28	29
JAN 26...	1130	20100	79	84	7.20	7.23	9.0	10.3	90	19	16	15
MAR 26...	0900	17300	56	58	7.10	7.01	15.0	9.1	92	13	11	12
MAY 21...	0830	--	66	72	7.20	7.90	22.5	4.9	57	21	17	17
JUL 22...	0800	2620	72	75	7.02	7.60	28.5	3.6	46	27	22	20
SEP 01...	1015	3500	81	80	7.30	7.80	28.5	5.8	75	25	21	23

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 NONCARB WH WAT TOT LAB 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 23...	1.4	11	7	27	0	7.9	1.7	8.4	38	0.7	2.2
JAN 26...	12	480	900	18	2	5.4	1.2	6.0	38	0.6	2.1
MAR 26...	9.5	100	53	14	3	4.2	0.93	3.5	32	0.4	1.5
MAY 21...	8.3	70	27	20	3	5.7	1.3	4.2	30	0.4	1.3
JUL 22...	2.0	16	20	19	0	5.6	1.3	5.5	35	0.6	1.9
SEP 01...	2.0	40	69	21	0	6.0	1.4	5.7	34	0.6	2.2

DATE	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 23...	2.7	9.6	6.2	0.10	5.6	86	59	195	0.12
JAN 26...	1.9	12	6.1	0.10	9.0	53	52	2880	0.07
MAR 26...	1.6	12	3.9	<0.10	7.9	34	40	1590	0.05
MAY 21...	2.1	5.0	4.0	<0.10	4.4	47	37	0.0	0.06
JUL 22...	4.1	11	4.1	0.10	6.6	53	50	375	0.07
SEP 01...	2.0	9.0	4.9	0.10	8.2	50	50	473	0.07

APALACHICOLA RIVER BASIN

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02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITRO- GEN, NITRITE DIS- SOLVED (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)
OCT 23...	<0.010	<0.100	<0.010	<0.010	--	0.70	0.060	0.020	<0.010
JAN 26...	0.010	0.850	0.040	0.040	0.56	0.60	0.070	0.020	0.010
MAR 26...	--	--	0.050	--	0.55	0.60	0.030	0.050	--
MAY 21...	<0.010	0.250	0.050	0.030	0.55	0.60	0.030	0.010	<0.010
JUL 22...	<0.010	0.110	0.090	0.110	0.41	0.50	0.030	0.020	0.010
SEP 01...	<0.010	0.130	0.030	0.030	0.27	0.30	0.050	<0.010	<0.010

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 23...	10	<1	17	<0.5	<1	<1	<3	2	9	<5
JAN 26...	40	<1	20	<0.5	<1	<1	<3	2	84	<5
MAY 21...	50	<1	18	<0.5	<1	<1	<3	1	120	37
SEP 01...	<10	<1	18	<0.5	<1	<1	<3	2	54	<5

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 23...	<4	14	<0.1	<10	2	<1	<1	37	<6	3
JAN 26...	<4	16	0.4	<10	1	<1	<1	29	<6	10
MAY 21...	<4	5	<0.1	<10	1	<1	<1	30	<6	7
SEP 01...	<4	3	<0.1	<10	3	<1	<1	32	<6	29

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 23...	1135	840	20.5	6	14	97
JAN 26...	1135	20100	9.0	14	760	98
MAR 26...	0905	17300	1500.0	17	794	87
MAY 21...	0835	--	22.5	14	--	79
SEP 01...	1020	3500	28.5	11	104	69

APALACHICOLA RIVER BASIN

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 Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
15...	1210	124	120	7.00	7.60	25.0	20.0	7.8	95
NOV									
12...	1315	128	123	7.00	7.60	23.0	25.5	8.3	97
DEC									
16...	1330	100	93	6.80	7.20	13.5	17.5	9.9	95
JAN									
21...	1235	82	74	6.70	7.10	10.0	6.5	11.2	100
FEB									
25...	1250	80	76	6.80	7.30	11.0	13.0	11.4	104
MAR									
18...	1245	63	60	6.90	6.90	13.0	15.5	10.6	102
APR									
21...	1200	92	88	7.20	7.40	21.5	31.5	11.8	135
MAY									
20...	1220	87	83	6.80	7.20	26.0	30.0	8.6	107
JUN									
10...	1210	85	83	6.70	7.20	25.5	29.5	7.2	89
JUL									
22...	1210	83	80	6.90	7.30	27.0	32.0	8.4	106
AUG									
19...	1215	102	101	6.80	7.20	29.0	32.0	9.3	122
SEP									
16...	1215	114	116	6.70	7.20	28.0	32.0	7.6	98

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA (MG/L AS N)
OCT									
15...	5	5.0	--	2.3	--	34	6	0.140	0.080
NOV									
12...	10	5.0	--	2.9	20	32	4	0.100	0.040
DEC									
16...	15	5.0	--	1.1	230	22	3	0.430	0.040
JAN									
21...	35	16	--	1.3	--	17	13	0.500	0.070
FEB									
25...	30	10	--	1.2	--	18	9	0.490	<0.020
MAR									
18...	50	16	--	1.2	50	15	11	0.350	0.040
APR									
21...	10	5.0	--	--	20	26	<1	0.580	0.090
MAY									
20...	150	61	--	1.2	700	23	23	0.330	<0.020
JUN									
10...	20	5.0	--	0.4	70	23	9	0.110	<0.020
JUL									
22...	5	1.0	--	0.9	--	23	8	0.130	0.040
AUG									
19...	10	5.0	17	3.6	330	28	<1	0.150	0.090
SEP									
16...	--	7.0	--	2.2	790	33	--	0.190	0.180

APALACHICOLA RIVER BASIN

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02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
15...	--	--	--	0.040	4.2
NOV					
12...	--	--	--	0.040	6.2
DEC					
16...	--	--	--	0.030	4.1
JAN					
21...	--	--	--	0.030	4.2
FEB					
25...	--	--	--	0.030	8.1
MAR					
18...	--	--	--	0.070	32
APR					
21...	--	--	--	<0.020	3.5
MAY					
20...	--	--	--	<0.020	5.5
JUN					
10...	--	--	--	0.030	3.3
JUL					
22...	--	--	--	<0.020	4.7
AUG					
19...	0.91	1.0	1.2	0.050	4.6
SEP					
16...	--	--	--	0.040	8.1

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, 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
07...	1000	260	250	7.00	7.20	20.5	18.5	3.6	41
NOV									
04...	1130	246	242	6.90	7.20	17.0	22.0	3.9	41
DEC									
02...	1145	102	99	6.70	6.70	9.5	7.5	8.2	74
JAN									
06...	1100	126	129	7.00	6.80	4.5	10.0	10.8	85
FEB									
05...	1115	121	116	7.00	6.90	10.0	10.5	9.4	84
MAR									
04...	1015	116	114	7.10	--	9.5	14.5	8.6	76
APR									
06...	0845	112	113	6.90	7.00	10.0	12.0	6.6	60
MAY									
05...	1030	103	100	6.60	6.50	18.5	15.0	3.6	39
JUN									
03...	1015	218	212	7.00	7.30	25.0	33.0	2.6	32
JUL									
07...	1040	72	74	6.60	6.40	23.5	29.0	4.7	56
AUG									
04...	0930	73	69	6.50	6.50	24.5	27.5	4.9	61
SEP									
02...	0945	158	157	7.20	7.40	22.0	24.0	6.2	73

DATE	TUR- BID- ITY (NTU)	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)
OCT									
07...	14	--	--	44	<1	3.45	0.680	1.45	5.0
NOV									
04...	15	4.7	4900	61	15	1.30	5.05	0.850	7.6
DEC									
02...	39	3.3	2300	24	38	0.530	0.200	0.170	5.4
JAN									
06...	10	1.3	1400	35	3	0.560	0.380	0.060	3.1
FEB									
05...	12	2.1	330	31	9	0.840	0.210	0.050	3.6
MAR									
04...	15	2.1	900	13	7	0.720	0.170	0.060	2.8
APR									
06...	10	2.9	490	30	7	0.400	0.190	0.060	3.4
MAY									
05...	59	4.6	330000	23	52	0.430	0.260	0.110	9.5
JUN									
03...	14	2.2	1300	63	9	0.190	2.15	0.190	6.3
JUL									
07...	75	4.2	130000	13	142	0.480	0.090	0.100	7.9
AUG									
04...	90	3.8	22000	11	27	0.530	0.090	0.070	5.6
SEP									
02...	17	1.8	2300	46	14	0.270	0.090	0.190	4.1

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, 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
07...	1040	13	290	286	7.20	7.30	20.0	19.0	5.2	58
NOV										
04...	1215	27	168	164	6.90	7.20	17.0	22.5	4.9	52
DEC										
02...	1230	225	78	76	6.70	6.60	9.5	7.5	8.0	72
JAN										
06...	1130	35	128	120	7.00	6.90	5.0	10.0	10.4	83
FEB										
05...	1145	45	108	103	6.90	6.60	10.0	10.5	9.2	83
MAR										
04...	1045	65	98	97	7.00	7.00	9.5	15.0	9.0	80
APR										
06...	0920	53	102	103	7.00	6.90	9.5	12.5	7.4	66
MAY										
05...	1100	195	91	83	6.60	6.40	18.0	15.0	3.8	41
JUN										
03...	1045	15	138	138	7.10	7.30	25.5	33.0	4.6	57
JUL										
07...	1120	165	80	80	6.80	6.70	25.0	32.0	5.0	62
AUG										
04...	0950	--	69	64	6.50	6.30	25.0	28.5	4.6	57
SEP										
01...	1030	--	155	155	7.30	7.40	22.5	27.0	7.1	84

DATE	TUR- BIO- IDITY (NTU)	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)
OCT									
07...	19	--	--	54	1	1.26	0.070	0.730	7.0
NOV									
04...	15	1.8	170	42	10	0.630	0.060	0.320	7.0
DEC									
02...	43	2.2	1300	17	34	0.430	0.120	0.210	4.0
JAN									
06...	11	1.3	220	32	11	0.560	0.130	0.160	4.4
FEB									
05...	14	1.3	50	28	12	0.380	0.090	0.100	4.2
MAR									
04...	15	1.1	80	31	<1	0.550	0.050	0.070	2.6
APR									
06...	20	2.4	130	26	33	0.380	0.050	0.100	4.0
MAY									
05...	60	3.1	17000	19	45	0.470	0.180	0.140	10
JUN									
03...	25	1.1	1100	38	17	0.420	<0.020	0.190	2.6
JUL									
07...	55	3.2	3300	20	45	0.360	0.070	0.120	4.8
AUG									
04...	68	2.5	22000	10	41	0.600	0.150	0.170	6.4
SEP									
01...	30	2.7	1300	45	26	0.140	0.070	0.150	4.9

APALACHICOLA RIVER BASIN

02344350 FLINT RIVER NEAR LOVEJOY, GA.

LOCATION.--Lat 33°24'56", long 84°23'05", Clayton County, Hydrologic Unit 03130005, at the downstream side of bridge on Hampton Road, 0.7 mi upstream from Shoal Creek, 4.4 mi southwest of Lovejoy, 4.7 mi southeast of Fayetteville, and at mile 325.7.

DRAINAGE AREA.--130 mi².

PERIOD OF RECORD.--May 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is 758.75 ft above National Geodetic Vertical Datum of 1929 (levels by Clayton County Water Authority).

REMARKS.--Estimated daily discharge: June 6-19, July 13-25, Aug. 13 to Sept. 30. Records good, except those for the periods of estimated daily discharge, which are fair to poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,690 ft³/s, Oct. 15, 1986, gage height, 15.16 ft; minimum daily discharge, 19 ft³/s, July 13 and 16, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 15	0200	*4,690	*15.16	Jan. 19	2300	1,950	11.20
Oct. 26	2100	4,060	14.44	Mar. 1	1700	2,130	11.55

Minimum daily discharge, 20 ft³/s, Sept. 26 and 28, but may have been less during the period of estimated daily record, Aug. 13 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	48	971	85	119	2040	438	59	40	66	85	21
2	28	39	808	101	116	1290	205	66	41	181	359	21
3	32	36	347	98	141	453	185	100	41	327	156	21
4	27	38	181	85	143	250	360	80	42	332	133	22
5	25	45	134	80	113	190	284	114	57	613	286	23
6	24	46	111	77	106	162	163	197	37	404	109	23
7	22	46	98	74	217	146	139	106	31	188	373	24
8	21	43	90	73	608	176	129	81	27	316	427	35
9	22	44	85	73	262	548	122	71	24	177	131	34
10	24	43	88	74	147	481	115	63	22	98	77	66
11	45	45	143	79	123	246	110	63	21	78	56	47
12	64	53	451	77	113	175	108	94	22	66	45	42
13	66	71	305	70	107	158	106	147	35	56	40	46
14	1450	59	148	68	101	146	102	185	90	50	38	45
15	3450	55	115	70	98	131	103	201	170	52	36	37
16	793	75	103	76	116	122	114	245	280	50	35	38
17	171	83	97	92	204	117	107	136	245	45	33	37
18	74	96	94	185	148	125	98	87	190	40	30	36
19	51	83	112	1180	115	249	93	80	160	35	29	34
20	40	157	105	1440	103	290	88	79	128	31	28	32
21	34	740	88	478	99	164	84	93	107	28	26	30
22	29	646	81	410	110	134	81	71	134	24	25	28
23	27	211	84	1020	196	119	78	68	106	23	23	27
24	29	129	190	609	225	113	74	61	101	23	22	24
25	94	118	425	345	135	123	70	57	164	32	23	21
26	2230	182	212	921	140	135	67	53	124	70	27	20
27	2240	545	126	704	585	161	64	50	94	109	27	22
28	379	401	104	269	1420	460	63	49	83	104	24	20
29	127	168	93	178	---	585	64	47	61	115	24	22
30	75	241	87	151	---	312	62	46	55	70	22	23
31	59	---	84	134	---	618	---	44	---	58	21	---
TOTAL	11781	4586	6160	9376	6110	10419	3876	2893	2732	3861	2770	921
MEAN	380	153	199	302	218	336	129	93.3	91.1	125	89.4	30.7
MAX	3450	740	971	1440	1420	2040	438	245	280	613	427	66
MIN	21	36	81	68	98	113	62	44	21	23	21	20
CFSM	2.92	1.18	1.53	2.32	1.68	2.59	.99	.72	.70	.96	.69	.24
IN.	3.37	1.31	1.76	2.68	1.75	2.98	1.11	.83	.78	1.10	.79	.26
CAL YR 1986	TOTAL	45429	MEAN 124	MAX 3450	MIN 19	CFSM .95	IN 13.00					
WTR YR 1987	TOTAL	65485	MEAN 179	MAX 3450	MIN 20	CFSM 1.38	IN 18.74					

APALACHICOLA RIVER BASIN

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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 Hill Bridge 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
07...	1140	24	190	186	7.30	7.40	21.0	22.0	6.7	77
NOV										
04...	1300	52	148	144	6.90	7.10	16.5	23.5	6.7	70
DEC										
02...	1300	--	52	53	6.80	6.50	9.5	7.5	8.2	74
JAN										
06...	1215	93	90	92	7.10	7.00	4.0	12.0	12.8	99
FEB										
05...	1230	138	82	79	7.00	6.70	10.0	10.5	10.3	92
MAR										
04...	1130	285	68	68	6.80	7.00	10.0	17.0	10.5	94
APR										
06...	1000	195	72	72	6.90	7.20	10.0	13.0	7.5	68
MAY										
05...	1130	116	102	102	6.90	6.70	18.5	15.0	5.9	64
JUN										
03...	1130	36	110	108	7.10	7.30	25.5	34.5	5.6	70
JUL										
07...	1210	200	75	75	6.80	6.70	24.5	33.0	5.6	68
AUG										
04...	1030	118	86	80	6.80	6.90	26.0	29.0	5.3	67
SEP										
02...	1140	27	140	145	7.30	7.50	24.0	28.5	7.2	88

DATE	TUR- BID- ITY (NTU)	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)	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...	10	--	--	47	<1	0.630	0.080	0.670	5.0
NOV									
04...	10	1.3	<20	32	5	0.760	0.090	0.690	8.9
DEC									
02...	53	2.2	2200	10	36	0.180	0.120	0.230	4.7
JAN									
06...	9.0	1.3	70	23	2	0.690	0.090	0.240	3.3
FEB									
05...	10	1.0	80	18	--	0.360	0.040	0.170	4.2
MAR									
04...	20	1.0	230	24	<1	0.290	0.100	0.140	3.5
APR									
06...	13	1.9	50	18	<1	0.260	0.070	0.140	3.3
MAY									
05...	10	0.7	70	30	13	0.460	0.110	0.340	7.6
JUN									
03...	10	0.9	90	33	2	0.480	<0.020	0.360	2.9
JUL									
07...	16	2.1	70	21	12	0.120	0.080	0.230	6.6
AUG									
04...	17	1.3	110	21	<1	0.300	0.090	0.290	4.7
SEP									
02...	11	1.0	50	39	3	0.150	0.090	0.380	4.9

APALACHICOLA RIVER BASIN

02344400 FLINT RIVER ABOVE GRIFFIN, GA.

LOCATION.--Lat 33°18'33", long 84°23'36", Spalding-Fayette County line, Hydrologic Unit 03130005, at bridge on State Highway 92, 3.4 mi upstream from Central of Georgia Railroad bridge, 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
07...	1240	--	210	196	7.20	7.30	21.0	24.0	5.6	64
NOV										
04...	1400	49	138	138	6.90	7.10	16.0	23.5	6.0	62
DEC										
02...	1330	--	50	53	6.60	6.40	10.0	8.0	7.8	71
JAN										
06...	1300	--	82	81	7.20	7.00	5.0	12.0	11.4	91
FEB										
05...	1300	--	78	76	6.90	6.80	9.5	11.0	10.0	88
MAR										
04...	1230	--	58	58	6.70	6.60	10.0	18.0	10.2	91
APR										
06...	1045	--	66	66	6.80	7.20	10.0	13.0	7.2	65
MAY										
05...	1200	--	96	94	7.00	6.90	19.0	15.5	5.1	56
JUN										
03...	1200	--	108	106	7.10	7.10	25.5	35.0	5.4	67
JUL										
07...	1240	--	69	71	6.70	6.70	24.0	34.0	5.4	65
AUG										
04...	1100	--	87	80	6.90	6.80	25.5	30.0	5.1	64
SEP										
02...	1210	--	130	131	7.20	7.20	25.0	29.0	6.0	74

DATE	TUR- BID- ITY (NTU)	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)
OCT								
07...	10	17	--	--	47	2	0.800	0.060
NOV								
04...	9.0	16	1.2	60	30	8	0.680	0.070
DEC								
02...	43	19	2.3	460	12	31	0.120	0.150
JAN								
06...	8.0	13	1.4	75	23	2	0.540	0.050
FEB								
05...	9.0	10	1.0	20	17	5	0.360	0.040
MAR								
04...	24	12	0.9	20	13	5	0.190	<0.020
APR								
06...	12	13	2.5	80	16	<1	0.180	<0.020
MAY								
05...	8.0	16	0.8	170	28	3	0.400	0.140
JUN								
03...	11	12	1.0	20	34	7	0.430	<0.020
JUL								
07...	18	19	4.0	330	20	7	0.100	0.060
AUG								
04...	18	18	0.8	260	18	1	0.180	0.120
SEP								
02...	16	13	0.7	230	36	12	0.180	0.090

APALACHICOLA RIVER BASIN

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02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
07...	0.14	0.20	1.0	0.530	5.4
NOV					
04...	0.33	0.40	1.1	0.490	5.9
DEC					
02...	0.05	0.20	0.32	0.180	6.0
JAN					
06...	0.15	0.20	0.74	0.190	3.4
FEB					
05...	0.16	0.20	0.56	0.120	4.7
MAR					
04...	--	0.30	0.49	0.080	3.3
APR					
06...	--	0.40	0.58	0.110	3.8
MAY					
05...	0.36	0.50	0.90	0.260	4.8
JUN					
03...	--	0.40	0.83	0.270	4.5
JUL					
07...	0.54	0.60	0.70	0.230	7.4
AUG					
04...	0.88	1.0	1.2	0.210	9.8
SEP					
02...	0.41	0.50	0.68	0.410	4.8

APALACHICOLA RIVER BASIN

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.

GAGE.--Water-stage recorder. Datum of gage is 711.44 ft above 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.--Estimated daily discharges: Oct. 12-Nov. 5. Records good, except those for the period Oct. 12-Nov. 5, and those greater than 100 ft³/s, which are fair. 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.--50 years, 349 ft³/s, 17.42 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft³/s, Nov. 27, 1948, gage height, 18.0 ft; minimum daily discharge, 1.8 ft³/s, July 18, 1986.

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 greater than base discharge 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)
Oct. 15	unknown	unknown	unknown	Mar. 1	1700	*4,120	*12.52
Oct. 27	unknown	unknown	unknown				

Minimum daily discharge, 15 ft³/s, Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	70	1260	159	265	3780	955	89	53	79	76	19
2	21	60	1140	165	257	3570	865	92	46	125	115	18
3	20	54	1170	165	279	2430	527	133	47	257	292	18
4	20	52	763	165	273	1120	451	185	75	442	313	18
5	21	52	358	149	257	587	506	161	62	484	223	18
6	21	54	242	137	227	405	497	168	64	614	316	23
7	18	55	199	127	546	341	322	237	57	1210	321	29
8	15	56	176	123	678	391	273	166	47	578	400	38
9	15	55	156	120	736	562	252	126	35	402	500	41
10	17	56	154	128	589	720	234	109	30	309	273	36
11	20	53	203	135	308	807	218	115	28	174	145	57
12	40	55	308	132	250	531	208	167	25	130	105	67
13	76	60	433	124	224	369	199	179	32	104	82	50
14	250	84	453	116	208	319	194	220	127	79	68	49
15	2800	86	260	120	199	290	191	279	186	73	58	59
16	2000	83	201	127	234	262	188	331	446	62	54	46
17	1000	115	179	161	268	241	199	322	608	68	49	44
18	200	140	177	271	316	256	194	218	708	65	43	38
19	90	139	170	646	269	367	177	146	709	56	40	34
20	60	268	174	929	217	440	164	130	419	49	38	38
21	48	511	169	1830	200	471	148	121	601	40	34	37
22	41	587	147	1480	257	327	140	134	328	35	31	34
23	35	780	153	1340	437	264	133	111	273	31	30	34
24	33	513	294	1280	420	233	125	105	204	29	29	27
25	35	212	374	1350	391	238	119	95	246	28	24	21
26	110	414	462	1520	360	244	114	79	296	29	23	18
27	2600	752	363	1260	844	255	107	71	282	45	22	18
28	2000	707	231	1230	1800	406	97	64	178	119	23	21
29	450	660	187	700	---	643	94	61	139	125	26	17
30	170	651	164	381	---	888	92	58	103	126	24	24
31	90	---	152	307	---	999	---	56	---	86	21	---
TOTAL	12338	7434	10872	16877	11309	22756	7983	4528	6454	6053	3798	991
MEAN	398	248	351	544	404	734	266	146	215	195	123	33.0
MAX	2800	780	1260	1830	1800	3780	955	331	709	1210	500	67
MIN	15	52	147	116	199	233	92	56	25	28	21	17
CFSM	1.46	.91	1.29	2.00	1.49	2.70	.98	.54	.79	.72	.45	.12
IN.	1.69	1.02	1.49	2.31	1.55	3.11	1.09	.62	.88	.83	.52	.14

CAL YR 1986 TOTAL 62227.0 MEAN 170 MAX 2800 MIN 1.8 CFSM .63 IN 8.51
WTR YR 1987 TOTAL 111393.0 MEAN 305 MAX 3780 MIN 15 CFSM 1.12 IN 15.23

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. Elevation of gage is 740 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No Estimated daily discharges. Records good, except those for the periods, Oct. 10 to Nov. 21 and July 27 to Sept. 30, which are fair, and Oct. 1-9, which are poor. Low flow affected by withdrawals and return flow by several municipalities and by regulation of water level of Lake Peachtree.

AVERAGE DISCHARGE.--23 years, 130 ft³/s, 17.48 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft³/s, Nov. 5, 1977, gage height, 14.88 ft; minimum daily discharge, 1.0 ft³/s, Oct. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Mar. 1	1200	*1,590	*9.52	July 2	2200	1,060	8.51

Minimum daily discharge, 1.0 ft³/s, Oct. 7.

REVISIONS:--The minimum daily discharge for water year 1986 has been revised to 1.1 ft³/s, Sept. 30. Revised daily discharges, in cubic feet per second, for Sept. 1986, are given below. These figures supersede those published in the report for 1986.

Sept. 29.....1.7

Sept 30.....1.1

	TOTAL	MEAN	MAX	MIN	CFSM	IN
September 1986	159.6	5.32	12	1.1	.05	.06
Wtr Yr 1986	20257.4	55.5	615	1.1	.55	7.46

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	4.5	256	42	96	1540	255	33	17	90	25	4.8
2	1.2	4.0	261	45	98	1160	183	38	16	571	31	4.4
3	1.8	4.2	214	42	115	494	186	82	15	923	38	4.4
4	1.7	4.7	146	39	101	255	232	66	69	496	83	3.8
5	1.2	3.9	85	36	86	186	196	77	56	427	126	3.4
6	1.1	1.4	64	34	84	158	152	79	39	518	60	4.0
7	1.0	2.1	55	32	167	148	132	64	29	343	72	4.6
8	1.1	2.0	49	36	202	174	118	54	23	205	225	4.9
9	1.4	2.2	50	39	146	274	110	46	17	129	97	5.0
10	2.6	2.1	56	40	107	263	102	40	13	100	50	5.0
11	6.2	12	77	42	93	207	89	39	14	77	34	4.7
12	7.1	5.0	109	40	85	165	82	70	14	59	26	5.9
13	13	4.5	100	38	80	147	80	152	16	50	23	6.3
14	44	4.5	76	36	75	129	81	161	81	42	21	9.3
15	39	5.7	64	39	72	115	84	242	236	44	18	10
16	18	5.7	58	41	102	107	83	164	211	40	16	11
17	6.9	16	55	55	129	101	79	116	315	36	14	11
18	3.7	27	52	107	109	118	76	89	356	31	10	9.7
19	2.7	28	54	368	90	208	72	78	218	27	7.2	9.2
20	2.5	98	53	684	80	194	69	68	131	25	6.6	12
21	2.2	268	48	412	77	147	65	53	111	22	6.4	8.9
22	2.2	222	45	304	105	123	61	45	212	20	5.3	7.2
23	1.9	104	49	475	216	108	57	41	362	16	4.3	6.0
24	12	68	100	409	174	100	53	37	298	14	3.9	5.2
25	39	58	110	284	125	103	48	32	240	13	4.1	4.3
26	135	125	85	565	136	97	64	28	248	16	4.5	3.4
27	40	166	69	552	338	99	70	25	214	30	5.6	3.2
28	23	121	61	288	957	491	57	23	194	55	5.4	2.8
29	11	85	56	182	---	495	40	21	110	37	4.5	3.2
30	6.3	137	52	140	---	315	35	18	73	24	4.5	15
31	5.9	---	44	112	---	326	---	15	---	19	4.4	---
TOTAL	435.8	1591.5	2653	5558	4245	8547	3011	2096	3948	4499	1035.7	192.6
MEAN	14.1	53.1	85.6	179	152	276	100	67.6	132	145	33.4	6.42
MAX	135	268	261	684	957	1540	255	242	362	923	225	15
MIN	1.0	1.4	44	32	72	97	35	15	13	13	3.9	2.8
CFSM	.14	.53	.85	1.77	1.51	2.73	.99	.67	1.31	1.44	.33	.06
IN.	.16	.59	.98	2.05	1.56	3.15	1.11	.77	1.45	1.66	.38	.07
CAL YR 1986	TOTAL	16344.7	MEAN	44.8	MAX	390	MIN	1.0	CFSM	.44	IN	6.02
WTR YR 1987	TOTAL	37812.6	MEAN	104	MAX	1540	MIN	1.0	CFSM	1.03	IN	13.93

APALACHICOLA RIVER BASIN

02346180 FLINT RIVER NEAR THOMASTON, GA.

LOCATION.--Lat 32°50'20", long 84°25'27", Upson-Talbot County line, Hydrologic Unit 03130005, at downstream end of left bank pier of bridge on State Highway 36, 2.5 mi 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 above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good, except those less than 1,000 ft³/s, which are fair.

AVERAGE DISCHARGE.--21 years, 1,598 ft³/s, 17.79 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 discharge, 55 ft³/s, July 22, 1986.

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 greater than base discharge 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)
Jan. 22	2400	7,040	11.38	Mar. 1	1300	*11,500	*13.01

Minimum daily discharge, 93 ft³/s, Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	411	5550	996	1620	11100	4070	622	401	771	335	143
2	125	366	4670	1040	1610	11000	3210	652	383	688	303	144
3	119	344	3600	981	1760	9310	2640	760	367	1220	370	132
4	112	307	2900	930	1680	7060	2350	855	363	2140	738	124
5	105	296	2070	959	1540	4050	2170	951	416	3760	897	122
6	99	300	1410	906	1680	2340	2020	885	471	3130	880	130
7	93	295	1150	846	4770	1910	1810	889	426	3740	853	201
8	93	296	1030	807	4300	1930	1570	936	385	3870	849	225
9	110	294	964	779	3190	2360	1470	800	342	2400	1160	267
10	145	298	948	795	2560	2470	1380	694	312	1540	1110	250
11	168	319	1030	830	2050	2390	1300	784	287	1140	745	215
12	160	384	1370	810	1690	2240	1240	1010	262	877	533	215
13	181	362	1530	781	1530	1880	1190	1070	273	725	440	239
14	788	347	1470	757	1430	1650	1170	1190	529	619	396	289
15	937	367	1330	778	1370	1540	1160	1450	852	529	370	286
16	868	392	1080	816	1660	1450	1140	1770	1180	470	350	257
17	900	847	987	981	1870	1370	1110	1570	1620	427	324	243
18	905	823	987	1590	1760	1550	1090	1350	1940	395	308	221
19	558	763	1030	3490	1640	2580	1050	1050	2050	368	290	212
20	373	1410	977	3790	1470	2360	1000	897	1810	333	273	205
21	308	3170	922	3740	1390	2100	960	836	2590	307	237	199
22	277	3030	867	6150	1700	1820	921	853	2640	287	220	203
23	256	2230	926	6670	2760	1570	881	815	2000	269	205	191
24	247	1840	1530	5180	2640	1440	847	747	2090	252	189	176
25	263	1420	1810	4870	2280	1460	808	693	2950	238	177	165
26	631	1740	1670	6220	2160	1450	767	637	2740	245	181	154
27	2050	3550	1530	5500	4380	1440	744	575	2010	246	172	144
28	1310	2930	1280	4500	7380	1730	732	525	1540	271	153	133
29	1150	2310	1080	3600	---	2180	695	480	1160	363	142	126
30	910	4020	991	2440	---	3500	651	449	889	410	135	185
31	536	---	930	1850	---	4740	---	426	---	368	135	---
TOTAL	14908	35461	49619	74382	65870	95970	42146	27221	35278	32398	13470	5796
MEAN	481	1182	1601	2399	2353	3096	1405	878	1176	1045	435	193
MAX	2050	4020	5550	6670	7380	11100	4070	1770	2950	3870	1160	289
MIN	93	294	867	757	1370	1370	651	426	262	238	135	122
CFSM	.39	.97	1.31	1.97	1.93	2.54	1.15	.72	.96	.86	.36	.16
IN.	.45	1.08	1.51	2.27	2.01	2.93	1.29	.83	1.08	.99	.41	.18
CAL YR 1986	TOTAL	279574	MEAN	766	MAX	5550	MIN 55	CFSM .63	IN 8.52			
WTR YR 1987	TOTAL	492519	MEAN	1349	MAX	11100	MIN 93	CFSM 1.11	IN 15.02			

APALACHICOLA RIVER BASIN

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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 above 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.--No estimated daily discharges. Records good. Records of chemical analyses for the water years 1968-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--64 years (water years 1912-22, 1929-31, 1938-87), 2,363 ft³/s, 17.35 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, 81 ft³/s, Aug. 7, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1912, that of Mar. 15, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Nov. 30	1900	12,300	14.14	Feb. 7	1200	12,200	14.06
Jan. 22	1800	13,700	15.12	Mar. 1	0900	*21,700	*20.09

Minimum discharge, 153 ft³/s Oct. 8, 9, gage height, 1.14 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	532	10500	1590	2460	20600	6860	948	573	1200	525	204
2	206	463	7790	1790	2360	16600	5180	957	550	1100	484	219
3	203	427	5620	1620	2790	12600	4330	1140	531	1330	718	222
4	192	406	4350	1480	2590	9750	3990	1300	522	2120	1010	211
5	178	382	3350	1590	2320	6500	3560	1420	556	3720	1190	194
6	166	372	2360	1540	2620	4120	3270	1350	615	3770	1230	201
7	157	377	1850	1390	10500	3370	3010	1280	597	4560	1950	228
8	153	369	1630	1300	8330	3380	2670	1440	547	4770	1070	330
9	156	363	1490	1220	5320	4010	2460	1310	503	3340	1180	358
10	229	359	1460	1180	4040	4070	2300	1100	470	2060	1290	402
11	268	357	1490	1220	3350	3770	2170	1120	437	1560	998	338
12	263	438	1900	1210	2730	3590	2060	1800	410	1170	707	325
13	260	514	2320	1160	2430	3210	1960	1780	400	963	596	399
14	1020	475	2160	1120	2230	2810	1900	1680	868	834	521	491
15	1160	449	1990	1110	2090	2580	1880	1960	1520	745	481	504
16	1010	475	1670	1160	2460	2430	1840	2310	1520	670	453	412
17	920	1150	1470	1470	2820	2310	1780	2120	2100	624	435	363
18	936	1610	1420	2850	2610	2420	1730	1840	2470	582	407	338
19	764	1130	1520	5680	2390	5000	1680	1660	2470	555	388	314
20	513	2430	1490	5730	2180	4650	1590	1330	2190	523	372	303
21	417	5510	1360	4960	2040	3770	1520	1220	3610	498	346	287
22	376	4520	1260	10400	2240	3210	1440	1170	4490	475	307	276
23	347	3190	1320	11400	4060	2740	1370	1130	4060	456	286	278
24	334	2540	3040	8120	4030	2480	1300	1030	2850	435	269	262
25	341	2150	3410	6880	3430	2500	1230	924	6450	431	254	243
26	405	1950	2880	9250	3160	2520	1170	847	5970	434	247	232
27	1680	4440	2420	8000	7570	2400	1110	775	3310	421	250	221
28	1630	4170	2100	6150	15800	3070	1090	721	2380	512	237	211
29	1170	3350	1740	5030	---	3290	1060	672	1770	548	221	204
30	1080	8370	1560	3790	---	4780	990	633	1370	631	211	205
31	712	---	1440	2870	---	9070	---	602	---	577	201	---
TOTAL	17458	53268	80360	114260	110950	157600	68500	39569	56109	41614	18834	8775
MEAN	563	1776	2592	3686	3963	5084	2283	1276	1870	1342	608	293
MAX	1680	8370	10500	11400	15800	20600	6860	2310	6450	4770	1950	504
MIN	153	357	1260	1110	2040	2310	990	602	400	421	201	194
CFSM	.30	.96	1.40	1.99	2.14	2.75	1.23	.69	1.01	.73	.33	.16
IN.	.35	1.07	1.62	2.30	2.23	3.17	1.38	.80	1.13	.84	.38	.18
CAL YR 1986 TOTAL	452848			MEAN 1241	MAX 14200	MIN 87	CFSM .67	IN 9.11				
WTR YR 1987 TOTAL	767297			MEAN 2102	MAX 20600	MIN 153	CFSM 1.14	IN 15.43				

APALACHICOLA RIVER BASIN

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 Highway 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 January to December 1910, 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 1912). WDR GA-82-1: 1981(P).

GAGE.--Water-stage recorder. Datum of gage is 255.83 ft above 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-station recorder at site 500 ft downstream at same datum.

REMARKS.--No estimated daily discharges. 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.--65 years (water years 1905-12, 1931-87), 3,546 ft³/s, 16.61 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,900 ft³/s, Nov. 30, 1948, gage height, 25.2 ft; minimum, 440 ft³/s, Aug. 8, 9, 1986.

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 discharge greater than base discharge 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. 26	1300	14,700	14.34	Mar. 4	0300	*25,000	*17.76

Minimum discharge, 564 ft³/s, Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	657	1330	6880	2850	6040	8860	7790	1840	1280	2830	1180	1300
2	633	1120	8100	3630	4470	13100	9110	1810	1240	2740	1140	1100
3	626	1000	9810	3860	4200	22000	10600	1930	1200	2610	1120	923
4	615	934	12300	3460	4390	24300	10200	2100	1170	2540	1330	854
5	604	887	11800	3450	4310	20200	8150	2300	1160	2820	1600	810
6	593	863	8800	3520	4130	16200	6330	2350	1140	3670	1810	792
7	578	851	5080	3290	4740	13000	5350	2290	1150	4750	1800	800
8	567	831	3490	2890	6640	9670	4820	2180	1160	4950	2240	808
9	571	823	3040	2620	8160	6870	4370	2200	1120	5500	1920	812
10	641	812	3160	2450	10000	6320	4030	2140	1080	5040	1740	881
11	666	804	3230	2360	10600	6350	3770	1940	1040	3470	1800	916
12	679	802	3170	2310	8170	6000	3570	1830	1010	2610	1720	984
13	703	805	3380	2240	5200	5530	3400	2190	986	2160	1520	1250
14	760	860	3730	2150	4180	5100	3260	2520	1090	1860	1320	1520
15	951	895	3560	2110	3790	4590	3150	2700	1420	1690	1190	1540
16	1510	886	3240	2210	3800	4210	3100	2900	2150	1550	1100	1360
17	1530	1120	2920	2650	4130	3960	3040	3070	2460	1430	1050	1190
18	1390	1650	2660	3250	4460	3870	2970	2950	2870	1330	1010	1060
19	1330	2470	2550	4980	4270	4340	2880	2660	3250	1260	973	991
20	1290	2580	2570	6620	3880	5700	2800	2480	3270	1190	939	957
21	1100	3850	2550	7340	3590	6720	2700	2320	3020	1150	915	922
22	951	5720	2410	8250	3480	6560	2580	3100	3530	1110	889	881
23	869	6310	2410	8970	3890	5470	2470	2790	4890	1090	854	837
24	826	5540	2850	9400	5040	4560	2370	2420	5490	1060	813	807
25	817	3910	4190	12200	5670	4140	2270	2140	5180	1020	785	789
26	833	3470	5000	14400	5330	4120	2170	1850	6530	1000	765	772
27	877	3960	4570	13200	5300	4250	2100	1690	7540	991	765	753
28	1180	5280	3830	11500	6860	4270	2020	1570	7410	995	771	742
29	1920	6110	3330	11100	---	4630	1960	1480	5120	989	751	736
30	1650	6130	2920	10400	---	5220	1910	1400	3250	1030	785	734
31	1510	---	2640	8750	---	6470	---	1340	---	1110	1030	---
TOTAL	29427	72603	140170	178410	148720	246580	125240	68480	83206	67545	37625	28821
MEAN	949	2420	4522	5755	5311	7954	4175	2209	2774	2179	1214	961
MAX	1920	6310	12300	14400	10600	24300	10600	3100	7540	5500	2240	1540
MIN	567	802	2410	2110	3480	3870	1910	1340	986	989	751	734
CFSM	.33	.83	1.56	1.98	1.83	2.74	1.44	.76	.96	.75	.42	.33
IN.	.38	.93	1.80	2.29	1.91	3.16	1.61	.88	1.07	.87	.48	.37
CAL YR 1986	TOTAL	741557	MEAN	2032	MAX	13700	MIN	448	CFSM	.70	IN	9.51
WTR YR 1987	TOTAL	1226827	MEAN	3361	MAX	24300	MIN	567	CFSM	1.16	IN	15.74

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	2.21	9.28	4.73	8.43	11.07	10.13	3.17	2.11	4.71	1.90	2.15
2	.57	1.76	10.42	5.78	6.78	13.59	11.29	3.11	2.02	4.58	1.81	1.73
3	.56	1.49	11.85	6.06	6.47	16.91	12.34	3.33	1.93	4.39	1.76	1.31
4	.52	1.34	13.23	5.57	6.69	17.55	12.06	3.61	1.88	4.30	2.21	1.14
5	.49	1.22	12.96	5.55	6.60	16.41	10.45	3.93	1.85	4.70	2.74	1.02
6	.46	1.16	11.04	5.64	6.39	14.99	8.73	4.00	1.81	5.82	3.12	.98
7	.42	1.13	7.42	5.34	7.07	13.56	7.74	3.91	1.82	7.09	3.09	1.00
8	.39	1.08	5.60	4.80	9.04	11.66	7.17	3.73	1.85	7.31	3.83	1.02
9	.40	1.06	5.01	4.41	10.47	9.25	6.66	3.77	1.77	7.90	3.31	1.03
10	.60	1.03	5.17	4.15	11.96	8.73	6.27	3.67	1.68	7.41	2.99	1.21
11	.66	1.01	5.26	4.01	12.34	8.75	5.95	3.33	1.59	5.56	3.10	1.29
12	.70	1.01	5.18	3.95	10.45	8.40	5.70	3.15	1.51	4.39	2.95	1.45
13	.76	1.01	5.46	3.83	7.58	7.93	5.49	3.74	1.46	3.70	2.57	2.03
14	.90	1.15	5.90	3.69	6.45	7.48	5.30	4.26	1.69	3.19	2.20	2.59
15	1.36	1.24	5.69	3.62	5.98	6.92	5.16	4.53	2.39	2.89	1.92	2.63
16	2.57	1.22	5.28	3.78	5.99	6.48	5.08	4.81	3.68	2.64	1.72	2.27
17	2.60	1.76	4.85	4.46	6.39	6.18	5.01	5.04	4.16	2.41	1.61	1.91
18	2.32	2.82	4.47	5.28	6.77	6.08	4.91	4.89	4.76	2.21	1.51	1.64
19	2.21	4.18	4.30	7.34	6.55	6.63	4.79	4.46	5.29	2.06	1.43	1.47
20	2.12	4.44	4.34	9.02	6.08	8.10	4.67	4.21	5.32	1.92	1.35	1.39
21	1.73	6.05	4.31	9.71	5.73	9.11	4.52	3.96	4.98	1.83	1.29	1.31
22	1.38	8.12	4.09	10.55	5.59	8.96	4.36	5.07	5.63	1.74	1.23	1.21
23	1.18	8.72	4.09	11.18	6.10	7.86	4.19	4.66	7.25	1.69	1.14	1.10
24	1.07	7.93	4.74	11.53	7.40	6.88	4.04	4.11	7.89	1.62	1.03	1.02
25	1.04	6.12	6.44	13.15	8.07	6.40	3.88	3.66	7.56	1.54	.96	.97
26	1.09	5.58	7.37	14.26	7.72	6.38	3.72	3.19	8.93	1.50	.91	.93
27	1.20	6.19	6.90	13.68	7.69	6.53	3.60	2.91	9.89	1.47	.91	.89
28	1.86	7.67	6.02	12.85	9.24	6.56	3.47	2.68	9.77	1.48	.93	.86
29	3.31	8.52	5.39	12.64	---	6.96	3.37	2.51	7.47	1.47	.88	.84
30	2.82	8.54	4.83	12.26	---	7.60	3.28	2.36	5.28	1.57	.96	.84
31	2.56	---	4.45	10.98	---	8.87	---	2.22	---	1.74	1.55	---
MEAN	1.31	3.56	6.49	7.54	7.57	9.32	6.11	3.74	4.17	3.45	1.90	1.37
MAX	3.31	8.72	13.23	14.26	12.34	17.55	12.34	5.07	9.89	7.90	3.83	2.63
MIN	.39	1.01	4.09	3.62	5.59	6.08	3.28	2.22	1.46	1.47	.88	.84
WTR YR 1987	MEAN	4.70	MAX	17.55	MIN	.39						

APALACHICOLA RIVER BASIN

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECCRD.--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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
14...	1030	755	64	61	6.90	7.40	22.0	23.0	7.6	88
NOV										
11...	1125	808	58	56	6.90	7.20	20.5	22.5	7.9	89
DEC										
15...	1225	3560	52	46	6.60	7.00	10.5	12.0	10.0	90
JAN										
20...	1005	6560	44	40	6.70	6.40	9.0	5.0	10.5	92
FEB										
24...	1125	5050	47	44	6.70	7.20	10.0	10.0	11.1	99
MAR										
17...	1135	3950	43	40	6.70	6.70	12.0	11.5	10.0	94
APR										
20...	1115	2810	47	45	6.80	6.80	17.5	26.0	8.3	88
MAY										
19...	1105	2660	50	48	6.70	7.30	24.5	29.5	8.0	97
JUN										
09...	1000	1130	56	53	6.70	7.40	26.5	29.0	7.3	92
JUL										
21...	1025	1150	53	48	6.80	7.00	27.0	32.0	7.1	90
AUG										
20...	1045	940	56	54	6.70	6.90	26.0	32.0	7.6	95
SEP										
15...	1135	1560	42	42	6.40	6.80	26.0	33.0	7.5	94

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)
OCT									
14...	10	5.0	7	0.7	140	20	6	0.140	<0.020
NOV									
11...	30	5.0	9	0.7	40	17	7	0.120	0.050
DEC									
15...	60	20	13	0.8	790	13	31	0.180	<0.020
JAN									
20...	120	45	18	2.3	1100	12	74	0.120	0.030
FEB									
24...	45	27	9	0.6	220	13	65	0.130	<0.020
MAR									
17...	35	14	--	0.6	--	11	--	0.180	0.030
APR									
20...	30	9.0	13	1.2	--	15	17	0.150	0.140
MAY									
19...	60	21	12	0.9	130	16	17	0.260	<0.020
JUN									
09...	25	5.0	--	0.3	45	18	4	0.050	<0.020
JUL									
21...	30	7.0	7	0.6	--	17	11	0.260	0.200
AUG									
20...	--	9.0	--	1.2	130	14	4	0.050	0.050
SEP									
15...	30	15	--	0.9	490	13	--	0.190	0.110

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
14...	--	0.10	0.24	0.050	2.7
NOV					
11...	0.15	0.20	0.32	0.030	3.9
DEC					
15...	--	0.10	0.28	0.120	3.9
JAN					
20...	0.27	0.30	0.42	0.060	6.1
FEB					
24...	--	0.10	0.23	0.050	4.0
MAR					
17...	--	--	--	0.040	5.7
APR					
20...	0.06	0.20	0.35	0.080	2.3
MAY					
19...	--	0.20	0.46	0.060	3.2
JUN					
09...	--	--	--	0.030	1.9
JUL					
21...	0.20	0.40	0.66	0.070	2.7
AUG					
20...	--	--	--	0.040	2.1
SEP					
15...	--	--	--	<0.020	7.1

APALACHICOLA RIVER BASIN

02349900 TURKEY CREEK AT BYROMVILLE, GA.

LOCATION.--Lat 32°11'44", long 83°54'03", Dooly County, Hydrologic Unit 03130006, on downstream side of bridge on State Highway 90, 0.5 mi southwest of Byromville, and 11 mi upstream from mouth.

DRAINAGE AREA.--45 mi², approximately.

PERIOD OF RECORD.--Water years 1951-58 (annual maximum), June 1958 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 286 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Prior to June 19, 1958, crest-stage gage at site 50 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records fair.

AVERAGE DISCHARGE.--29 years, 47.0 ft³/s, 14.18 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 greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	2300	780	10.29	Mar. 1	0300	590	9.90
Jan. 22	2300	*1,010	*10.67				

Minimum discharge, 3.1 ft³/s, Aug. 25, 26, 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.8	33	75	100	551	163	13	8.9	17	5.3	11
2	3.5	5.0	29	125	103	315	110	13	8.1	21	5.4	6.1
3	3.4	5.0	27	86	127	208	94	13	7.6	29	5.4	5.6
4	3.4	4.9	22	78	109	170	93	12	7.5	49	5.3	5.2
5	3.3	5.1	19	149	94	138	79	12	6.9	38	5.0	5.1
6	3.3	5.3	16	151	138	118	69	12	6.3	19	5.0	5.1
7	3.3	5.5	16	103	245	110	67	12	6.4	20	5.2	5.1
8	3.4	5.5	15	77	228	157	62	11	6.7	15	4.7	4.8
9	3.7	5.4	15	65	157	207	55	11	6.3	12	4.4	4.8
10	4.1	5.4	24	58	122	162	51	9.9	5.9	10	4.2	4.8
11	4.0	5.5	36	53	106	128	46	9.7	6.0	9.1	4.2	4.6
12	4.0	5.7	56	46	98	113	43	11	6.1	8.3	4.4	9.9
13	4.0	5.6	76	42	92	106	40	11	6.3	7.7	4.5	14
14	4.4	5.7	53	40	84	97	37	9.5	11	7.5	4.4	21
15	4.1	5.6	37	44	80	89	38	9.8	13	7.0	4.3	9.0
16	3.7	6.1	32	61	104	82	35	12	13	6.5	4.5	6.3
17	3.5	21	29	119	113	79	32	11	12	6.3	4.4	5.5
18	3.5	12	28	148	89	83	31	9.5	48	6.3	3.8	5.3
19	3.5	8.2	27	510	77	154	28	8.9	34	6.2	3.3	5.2
20	3.7	14	25	527	71	131	28	8.6	19	6.4	3.3	5.3
21	3.6	14	24	234	71	100	26	9.9	14	6.4	3.8	5.0
22	3.6	9.0	22	627	85	88	25	36	26	6.1	3.7	4.8
23	3.6	7.8	42	648	125	76	23	33	48	6.0	3.5	4.6
24	3.8	8.2	97	282	103	68	21	16	30	5.9	3.5	4.5
25	4.2	11	80	221	83	80	19	12	20	6.1	3.2	4.4
26	4.3	9.9	54	289	83	95	19	9.5	17	6.0	3.2	4.4
27	4.1	9.3	42	202	128	80	18	8.4	18	5.9	3.3	4.4
28	4.2	9.2	37	157	402	82	17	23	14	6.0	3.1	4.2
29	4.2	10	32	136	---	80	16	18	11	5.6	3.1	4.1
30	4.3	36	30	124	---	105	14	13	10	5.4	4.1	4.1
31	4.5	---	29	114	---	211	---	10	---	5.4	10	---
TOTAL	117.8	265.7	1104	5591	3417	4263	1399	408.7	447.0	366.1	135.5	188.2
MEAN	3.80	8.86	35.6	180	122	138	46.6	13.2	14.9	11.8	4.37	6.27
MAX	4.5	36	97	648	402	551	163	36	48	49	10	21
MIN	3.3	4.8	15	40	71	68	14	8.4	5.9	5.4	3.1	4.1
CFSM	.08	.20	.79	4.00	2.71	3.07	1.04	.29	.33	.26	.10	.14
IN.	.10	.22	.91	4.62	2.82	3.52	1.16	.34	.37	.30	.11	.16
CAL YR 1986 TOTAL	6531.7			MEAN 17.9	MAX 175	MIN 2.1	CFSM .40	IN 5.40				
WTR YR 1987 TOTAL	17703.0			MEAN 48.5	MAX 648	MIN 3.1	CFSM 1.08	IN 14.63				

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, 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 Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
14...	0940	95	91	7.00	7.30	22.0	22.0	6.5	76
NOV									
11...	1040	105	98	6.90	7.30	21.0	19.0	6.9	78
DEC									
15...	1125	75	68	6.60	6.90	10.5	11.0	9.6	86
JAN									
20...	1010	62	56	6.60	6.30	10.0	8.5	9.2	83
FEB									
24...	1020	65	58	6.70	7.00	10.0	11.0	10.1	90
MAR									
17...	1045	63	59	6.70	6.50	12.5	10.5	9.8	93
APR									
20...	0955	72	67	6.80	6.80	18.0	21.5	8.9	95
MAY									
19...	1030	74	69	7.00	7.10	24.5	27.0	7.5	91
JUN									
09...	0930	82	77	6.80	7.30	26.5	26.5	6.9	87
JUL									
21...	0930	82	--	6.70	--	27.5	30.0	6.0	77
AUG									
20...	0930	84	82	6.70	6.50	28.0	30.0	6.2	80
SEP									
15...	1030	64	62	6.40	6.80	27.0	31.5	7.0	89

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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									
14...	40	10	0.8	170	18	0.200	0.130	<0.020	3.8
NOV									
11...	50	9.0	0.7	170	19	0.210	0.100	0.040	4.9
DEC									
15...	75	20	0.4	460	14	0.250	<0.020	0.050	5.6
JAN									
20...	120	34	2.5	1700	12	0.560	0.050	0.070	7.0
FEB									
24...	45	12	0.4	230	14	0.380	0.020	0.040	4.3
MAR									
17...	45	11	0.5	--	13	0.260	0.270	0.050	8.3
APR									
20...	40	7.0	1.1	--	17	0.250	0.110	0.030	6.3
MAY									
19...	95	17	0.8	20	17	0.280	<0.020	0.040	3.9
JUN									
09...	60	6.0	0.5	700	19	0.190	<0.020	0.030	2.0
JUL									
21...	--	--	--	--	--	0.330	0.180	0.040	5.7
AUG									
20...	--	11	1.5	40	16	0.300	0.090	0.080	3.2
SEP									
15...	35	14	0.7	90	12	0.290	0.070	<0.020	6.7

APALACHICOLA RIVER BASIN

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
APR 15...	1130	220	36	38	6.70	8.30	19.0	7.3	81
SEP 03...	1130	85	39	39	6.85	6.70	23.0	7.2	84

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT 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)	ALKA- LINITY LAB (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
APR 15...	110	8.6	13	2	4.1	0.70	1.7	21	0.2	0.70	11	4.3
SEP 03...	76	14	12	2	3.7	0.69	1.5	20	0.2	0.90	10	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 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 (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
APR 15...	7.5	2.2	<0.10	5.1	27	29	16	0.04	<0.100	<0.100	0.040	0.050
SEP 03...	6.9	2.8	0.10	8.0	29	32	6.7	0.04	0.200	0.180	0.040	0.060

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. (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 15...	0.46	0.55	0.50	0.60	--	--	0.030	0.010	6.1	30	1	<1
SEP 03...	0.36	0.14	0.40	0.20	0.60	--	0.040	0.020	6.2	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 15...	<1	<10	<1	520	<5	<5	160	--	--	<1	26
SEP 03...	<1	40	<1	720	9	<5	130	--	--	<1	8

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LOCATION.--Lat 31°45'52", long 84°15'12", Lee County, Hydrologic Unit 03130007, at bridge on Prison Farm Road, 3.6 mi west of U.S. Highway 19, and 5.2 mi northwest of Leesburg.
DRAINAGE AREA.--527 mi², approximately.
PERIOD OF RECORD.--Water years 1949-65 (annual maximum), March 1985 to current year.
GAGE.--Water-stage recorder. Datum of gage is 211.74 ft above National Geodetic Vertical Datum of 1929 (Georgia State Highway Commission benchmark). April 6, 1949 to September 30, 1965, crest-stage gage at site 1,500 ft upstream at same datum.
REMARKS.--No estimated daily discharges. Records good.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,800 ft³/s, Apr. 6, 1960, gage height, 19.45 ft, minimum daily discharge, 39 ft³/s, July 15, 1986.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1943 or 1944 is believed to have reached an elevation of about 23 ft from information by local resident. Maximum stage of 20.46 was reached March 5, 1966.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 23	1800	*2,550	*11.96	Mar. 3	1800	2,540	11.94
Feb. 8	1300	1,600	9.58	Apr. 2	0800	1,770	10.04

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	132	1160	435	860	1420	1630	263	214	586	200	216
2	89	146	1170	615	805	1970	1750	256	200	765	168	199
3	88	168	1130	655	861	2490	1710	268	189	921	168	251
4	93	163	1120	692	900	2350	1680	260	185	869	187	303
5	93	152	983	944	889	1840	1370	251	210	729	229	243
6	89	146	672	1050	1020	1350	1070	246	235	739	248	201
7	84	143	488	931	1360	1020	913	243	213	588	239	193
8	83	142	429	785	1580	991	801	247	190	518	261	181
9	81	143	402	615	1480	1070	721	252	171	505	309	172
10	80	142	436	514	1330	1120	674	247	155	410	247	163
11	110	141	521	472	1160	1130	637	233	143	333	186	160
12	140	140	733	446	920	1100	607	243	138	278	192	199
13	133	139	889	423	772	1020	579	425	136	245	234	319
14	158	138	774	404	711	878	558	567	156	219	412	349
15	205	137	605	398	675	799	541	503	236	202	537	336
16	195	137	517	471	752	747	522	582	303	190	508	283
17	183	167	467	702	917	701	506	687	402	187	328	233
18	161	432	432	916	997	706	493	566	527	175	269	202
19	141	620	408	1740	1050	1090	477	411	516	161	227	182
20	130	684	405	1900	1030	1320	458	396	438	168	199	170
21	122	615	406	1700	887	1290	438	411	373	174	181	161
22	117	532	379	2080	794	1230	412	438	381	177	173	152
23	113	515	388	2520	932	1130	388	611	567	165	161	144
24	113	513	594	2310	987	878	370	729	940	154	150	139
25	116	443	679	2160	949	738	347	924	1190	140	140	133
26	123	324	659	2280	891	726	327	675	781	127	132	127
27	137	322	608	2110	873	714	313	374	602	124	126	124
28	149	460	501	1690	947	736	299	303	719	122	121	123
29	151	617	423	1390	---	791	288	264	726	124	118	121
30	141	884	386	1230	---	969	276	248	465	127	117	120
31	134	---	364	1030	---	1300	---	230	---	162	135	---
TOTAL	3841	9437	19128	35608	27329	35614	21155	12353	11701	10384	6902	5899
MEAN	124	315	617	1149	976	1149	705	398	390	335	223	197
MAX	205	884	1170	2520	1580	2490	1750	924	1190	921	537	349
MIN	80	132	364	398	675	701	276	230	136	122	117	120
CFSM	.24	.60	1.17	2.18	1.85	2.18	1.34	.76	.74	.64	.42	.37
IN.	.27	.67	1.35	2.51	1.93	2.51	1.49	.87	.83	.73	.49	.42
CAL YR 1986	TOTAL	113290		MEAN 310	MAX	1170	MIN 39	CFSM .59	IN 8.00			
WTR YR 1987	TOTAL	199351		MEAN 546	MAX	2520	MIN 80	CFSM 1.04	IN 14.07			

APALACHICOLA RIVER BASIN

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. Elevation of gage is 220 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: May 7-30. Records good, except those of no gage-height record, May 7-30, which are poor. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

AVERAGE DISCHARGE.--7 years (water years 1981-87), 361 ft³/s, 13.54 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,290 ft³/s, Feb. 7, 1985, gage height, 13.91 ft; minimum discharge, 12 ft³/s, July 20, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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. 24	0200	*2,620	*11.75	Mar. 3	0700	2,210	11.40

Minimum discharge, 48 ft³/s Oct. 9, gage height, 2.76 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	95	486	297	669	888	936	162	111	371	105	444
2	68	102	694	321	592	1720	1120	156	107	589	125	485
3	61	113	818	353	585	2140	1030	163	102	861	136	263
4	56	114	735	443	573	1700	900	200	102	783	123	228
5	56	101	642	559	578	1140	762	228	104	766	132	227
6	55	94	541	601	604	821	622	209	122	540	153	177
7	55	93	407	644	754	660	567	190	122	455	147	153
8	49	97	289	631	1070	655	530	190	103	354	128	145
9	49	111	242	582	1140	709	481	180	90	275	116	143
10	53	110	247	530	987	854	439	170	86	266	106	169
11	64	116	288	423	867	824	410	160	81	231	94	135
12	79	118	342	349	737	766	388	170	74	182	103	137
13	85	112	427	314	614	692	370	270	72	152	139	201
14	96	109	481	300	551	602	353	350	94	133	171	244
15	121	99	523	298	511	548	340	300	130	146	177	246
16	144	91	476	312	519	520	324	370	179	126	188	272
17	136	121	378	396	536	494	314	430	223	104	162	291
18	120	162	311	489	577	484	305	330	265	88	159	218
19	104	213	283	1140	604	588	291	230	285	81	147	167
20	94	282	279	1900	590	719	284	220	261	76	137	148
21	88	375	270	1870	572	920	275	240	236	77	151	136
22	85	384	262	1900	547	846	259	250	256	84	119	129
23	84	337	284	2370	579	728	245	300	268	88	111	131
24	84	301	335	2460	635	616	231	440	305	89	95	133
25	84	296	364	1980	673	544	215	560	358	95	82	119
26	88	274	442	1780	652	519	200	360	461	92	77	103
27	96	228	478	1530	645	504	192	210	528	81	73	94
28	100	223	444	1260	646	506	185	160	376	75	79	83
29	99	248	384	1020	---	499	177	155	269	77	69	78
30	96	346	313	870	---	574	168	134	267	103	64	77
31	94	---	275	782	---	733	---	119	---	101	77	---
TOTAL	2602	5465	12740	28704	18607	24513	12913	7606	6037	7541	3745	5576
MEAN	83.9	182	411	926	665	791	430	245	201	243	121	186
MAX	144	384	818	2460	1140	2140	1120	560	528	861	188	485
MIN	49	91	242	297	511	484	168	119	72	75	64	77
CFSM	.23	.50	1.14	2.56	1.84	2.19	1.19	.68	.56	.67	.33	.51
IN.	.27	.56	1.31	2.95	1.91	2.52	1.33	.78	.62	.77	.38	.57

CAL YR 1986	TOTAL	75175	MEAN 206	MAX 818	MIN 12	CFSM .57	IN 7.73
WTR YR 1987	TOTAL	136049	MEAN 373	MAX 2460	MIN 49	CFSM 1.03	IN 13.98

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, October 1929 to current year. 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 above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1902, nonrecording 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.--No estimated daily discharges. 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.--77 years (water years 1902-20, 1930-87), 6,240 ft³/s, 15.96 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 greater than base discharge 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)
Jan. 24	1500	25,300	18.89	Mar. 6	1800	*27,000	*19.78

Minimum daily discharge, 731 ft³/s, Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	2150	8070	6170	14900	15800	12100	3470	2640	5710	1540	1240
2	983	1830	6520	6690	13300	21100	13000	3590	3500	7400	1700	1650
3	951	1650	8850	6670	10900	22500	15300	892	3160	6770	2040	1610
4	1020	2000	8190	6400	10500	23300	16300	2420	1950	7060	1800	1540
5	1780	1410	10600	7780	8230	24400	15300	4360	1580	5040	1700	1640
6	1180	1370	10400	7970	9120	25900	14100	3040	1400	5310	2440	1960
7	910	1480	12700	7930	10800	25300	12100	3800	1340	7720	2050	1940
8	899	1530	8730	7540	11800	22100	9650	2760	1280	9330	1680	1820
9	1050	1530	7550	6590	14500	19000	9760	3760	1220	6380	2650	2860
10	1150	1390	3500	6110	14500	15200	6940	2440	1340	6280	2830	1770
11	1130	1370	4410	5160	14800	12400	6940	3920	1730	6090	3160	1040
12	1400	1600	6950	5460	15700	12700	6900	3910	1050	4850	2530	934
13	2010	1440	8640	6130	14600	10600	4430	2960	1120	4420	1600	1200
14	2150	1280	5000	3380	11800	10700	7320	3790	1370	2760	4420	2710
15	3280	1400	5410	3490	7320	9890	5800	3830	2690	2880	2460	3680
16	1960	1380	6950	3750	9330	6980	4550	4270	2210	1690	1710	3000
17	1360	1250	4300	4930	9170	8060	4880	4880	4570	2750	3970	3590
18	2040	2480	4400	9780	7250	9130	6200	5790	5610	1730	2120	1210
19	2200	3560	4250	13000	7030	9770	3600	5220	7160	1180	1720	731
20	1550	4150	4370	20500	6530	9170	4520	4500	5030	3110	2040	2100
21	1910	4910	4300	21700	9370	9580	4440	3580	4580	1310	1590	2270
22	1790	5130	4240	22500	7810	11900	5020	5920	6120	1860	938	1710
23	1550	6630	5350	22800	8980	11100	3510	5530	7340	3530	1290	1150
24	1370	8330	5690	24500	8640	10100	4270	6480	9570	1880	1870	1160
25	1360	7040	4950	23200	10600	10700	3460	4310	8270	1580	1940	1160
26	1310	4890	7340	20700	10600	7720	3870	3720	6310	2270	1120	1160
27	1490	5340	7050	21400	10500	7450	3470	3460	8420	1220	1870	1160
28	1580	5270	7160	21000	12100	7560	2910	3520	9780	1740	1820	1300
29	1260	5790	7190	19600	---	7910	3280	3260	9650	2450	1360	1210
30	2690	8870	4630	17200	---	10700	2570	2760	9380	1480	757	1180
31	2380	---	4670	17300	---	12400	---	2650	---	1530	1540	---
TOTAL	48793	98450	202360	377330	300680	421120	216490	118792	131370	119310	62255	51685
MEAN	1574	3282	6528	12170	10740	13580	7216	3832	4379	3849	2008	1723
MAX	3280	8870	12700	24500	15700	25900	16300	6480	9780	9330	4420	3680
MIN	899	1250	3500	3380	6530	6980	2570	892	1050	1180	757	731
CFSM	.30	.62	1.23	2.29	2.02	2.56	1.36	.72	.83	.73	.38	.32
IN.	.34	.69	1.42	2.64	2.11	2.95	1.52	.83	.92	.84	.44	.36
CAL YR 1986	TOTAL	1250915	MEAN	3427	MAX	16100	MIN	683	CFSM	.65	IN	8.76
WTR YR 1987	TOTAL	2148635	MEAN	5887	MAX	25900	MIN	731	CFSM	1.11	IN	15.05

APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.49	3.66	7.28	6.28	11.30	11.99	9.49	4.72	4.07	5.90	3.04	2.57
2	2.31	3.37	6.48	6.56	10.30	15.86	10.03	4.75	4.72	6.92	3.22	3.08
3	2.26	3.16	7.72	6.56	8.81	16.92	11.64	2.18	4.49	6.32	3.57	3.13
4	2.37	3.51	7.34	6.40	8.58	17.46	12.30	3.84	3.46	6.73	3.32	3.05
5	3.30	2.88	8.66	7.14	7.37	18.25	11.62	5.13	3.08	5.66	3.17	3.16
6	2.56	2.83	8.53	7.24	7.85	19.20	10.84	4.42	2.88	5.80	3.95	3.50
7	2.21	2.97	9.90	7.22	8.79	18.83	9.57	4.94	2.81	7.11	3.48	3.49
8	2.19	3.04	7.64	7.01	9.34	16.63	8.12	4.10	2.73	7.92	3.19	3.36
9	2.41	3.03	7.02	6.50	11.02	14.34	8.16	4.83	2.65	6.37	4.13	4.28
10	2.56	2.86	4.40	6.25	11.04	11.53	6.67	3.95	2.75	6.31	4.25	3.23
11	2.54	2.80	5.27	5.73	11.25	9.69	6.70	4.94	3.23	6.23	4.43	2.40
12	2.88	3.09	6.69	5.88	11.90	9.86	6.69	5.00	2.42	5.52	4.03	2.25
13	3.52	2.92	7.58	6.17	11.13	8.68	5.27	4.08	2.50	5.27	3.07	2.62
14	3.66	2.73	5.64	4.59	9.33	8.74	6.90	4.94	2.84	4.21	5.16	4.10
15	4.59	2.88	5.85	4.67	6.88	8.24	6.07	4.96	4.08	4.26	3.68	4.86
16	3.47	2.85	6.71	4.78	7.94	6.71	5.39	5.23	3.59	3.19	2.94	4.35
17	2.81	2.69	5.14	5.59	7.85	7.29	5.57	5.58	5.37	4.08	4.89	4.75
18	3.55	3.88	5.28	8.23	6.83	7.86	6.30	6.07	5.96	3.13	3.65	2.47
19	3.74	4.77	5.21	10.09	6.71	8.19	4.76	5.75	6.79	2.57	3.22	1.87
20	3.00	5.13	5.29	15.46	6.47	7.85	5.33	5.27	5.38	4.42	3.56	3.61
21	3.42	5.58	5.25	16.30	7.99	8.06	5.28	4.63	5.38	2.71	2.98	3.78
22	3.30	5.71	5.22	16.94	7.16	9.41	5.65	6.07	6.25	3.38	2.25	3.19
23	3.03	6.53	5.83	17.14	7.78	8.97	4.72	5.93	6.91	4.69	2.74	2.57
24	2.83	7.42	6.02	18.32	7.59	8.36	5.23	6.45	8.08	3.23	3.39	2.57
25	2.84	6.73	5.59	17.45	8.63	8.70	4.71	5.26	7.39	3.09	3.47	2.57
26	2.77	5.45	6.92	15.61	8.63	7.10	5.00	4.87	6.33	3.77	2.48	2.57
27	2.97	5.82	6.76	16.12	8.64	6.96	4.69	4.70	7.47	2.53	3.39	2.57
28	3.06	5.79	6.82	15.78	9.56	7.03	4.24	4.75	8.17	3.14	3.35	2.75
29	2.66	6.07	6.84	14.79	---	7.21	4.59	4.56	8.09	3.93	2.73	2.63
30	3.96	7.72	5.41	12.97	---	8.72	4.01	4.20	7.95	2.91	1.94	2.59
31	3.81	---	5.46	13.03	---	9.70	---	4.12	---	3.03	2.94	---
MEAN	3.00	4.26	6.44	10.09	8.81	10.79	6.85	4.85	4.93	4.66	3.41	3.13
MAX	4.59	7.72	9.90	18.32	11.90	19.20	12.30	6.45	8.17	7.92	5.16	4.86
MIN	2.19	2.69	4.40	4.59	6.47	6.71	4.01	2.18	2.42	2.53	1.94	1.87
CAL YR 1986	MEAN 4.28		MAX 12.12	MIN 1.81								
WTR YR 1987	MEAN 5.92		MAX 19.20	MIN 1.87								

APALACHICOLA RIVER BASIN

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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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTANT- ANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMH/CM)	SPE- CIFIC CON- DUCT- ANCE (UMH/CM)	PH	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 15...	1010	3600	76	6	7.5	11.0	10.0	84
MAR 17...	0925	10200	69	69	6.90	13.0	12.5	99
JUN 09...	0815	1230	8	33	8.00	27.0	25.0	89
SEP 15...	0920	4810	9	88	7.11	27.5	29.0	90

DATE	COLOR	TEMP- RITS	OXYGEN	DISS- SOLVED	NITRO- GEN,	NITRO- GEN,	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
	(PLAT- INCH- COALTY -RITS)		TEMP- RITS	(MG/L AT 20°C)	(MG/L AT 20°C)	(MG/L AS N)		
DEC 15...	540	2	1.1	0.00	0.040	0.040	0.050	8.6
MAR 17...	44	10	1	0.160	0.080	0.080	0.030	13
JUN 09...	44	1.0	1.5	0.130	0.020	0.020	0.030	8.7
SEP 15...	5			0.130	0.130	0.130	0.070	5.5

APALACHICOLA RIVER BASIN

02352790 FLINT RIVER NEAR PUTNEY, GA.

LOCATION.--Lat 31°26'39", long 84°08'16", Dougherty County, Hydrologic Unit 03130008, at Plant Mitchell intake, 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 June 1984.

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 31.0°C July 15-18, 1980, July 26-29, 1981; minimum, 4.5°C Jan. 1-3, 1984.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
15...	1350	3700	140	135	7.10	7.60	24.0	22.0	7.2	86
NOV										
12...	1505	2050	162	153	7.10	7.60	22.0	28.0	6.9	80
DEC										
16...	1510	7050	90	81	6.80	7.00	12.0	18.0	10.0	93
JAN										
21...	1445	22400	76	70	6.80	6.90	10.0	7.0	10.6	95
FEB										
25...	1500	9790	84	79	6.90	7.60	11.0	13.0	10.9	99
MAR										
18...	1450	7840	92	84	7.10	7.10	14.0	16.0	9.7	96
APR										
21...	1340	6070	98	94	7.10	7.40	20.0	31.5	10.9	122
MAY										
20...	1430	3910	114	109	7.00	7.50	26.0	31.0	7.9	99
JUN										
10...	1420	2420	151	153	7.00	7.70	26.5	30.5	7.0	88
JUL										
22...	1400	2350	145	136	7.00	7.60	27.5	33.0	6.6	84
AUG										
19...	1405	2520	118	117	6.80	7.60	28.0	32.5	6.8	88
SEP										
16...	1400	3960	111	112	6.70	7.40	28.0	32.0	7.0	91

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT									
15...	20	8.0	13	2.0	--	27	4	0.220	0.160
NOV									
12...	35	5.0	--	1.5	20	38	12	0.600	0.430
DEC									
16...	110	16	19	0.9	13000	20	1	0.430	0.080
JAN									
21...	65	29	18	1.4	--	20	16	0.460	0.060
FEB									
25...	50	10	15	1.0	--	24	5	0.590	<0.020
MAR									
18...	50	8.0	11	0.6	330	25	<1	0.510	0.040
APR									
21...	45	6.0	13	1.1	1300	32	2	0.860	0.180
MAY									
20...	50	10	13	0.8	490	33	5	0.500	0.070
JUN									
10...	40	3.0	11	0.8	4900	51	8	0.800	0.130
JUL									
22...	40	4.0	10	0.3	--	46	6	0.720	0.110
AUG									
19...	20	5.0	--	1.4	490	36	<1	0.840	0.100
SEP									
16...	20	6.0	--	1.5	1300	32	6	0.320	0.130

APALACHICOLA RIVER BASIN

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02352790 FLINT RIVER NEAR PUTNEY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
15...	0.24	0.40	0.62	0.070	4.1
NOV					
12...	--	--	--	0.080	4.5
DEC					
16...	0.12	0.20	0.63	0.080	6.1
JAN					
21...	0.24	0.30	0.76	0.070	5.6
FEB					
25...	--	0.10	0.69	0.030	18
MAR					
18...	0.16	0.20	0.71	0.040	5.7
APR					
21...	0.12	0.30	1.2	0.060	3.7
MAY					
20...	0.23	0.30	0.80	0.040	3.9
JUN					
10...	0.47	0.60	1.4	0.050	2.7
JUL					
22...	0.39	0.50	1.2	0.060	4.4
AUG					
19...	--	--	--	0.050	3.8
SEP					
16...	--	--	--	0.030	3.8

APALACHICOLA RIVER BASIN

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 October 1945 to September 1946, October 1947 to December 1948, published in WSP 1304), October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 110.20 ft above 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.--Estimated daily discharges: July 17-22. Records good, except for the period July 17-22, which are poor. 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.--43 years (water years 1939-50, 1957-87), 6,879 ft³/s, 16.27 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 floodmark; discharge, 94,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge 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)
Jan. 25	0800	24,800	19.08	Mar. 7	2300	*26,100	*19.73

Minimum discharge, 1,190 ft³/s, Oct. 8, 9, gage height, 3.55 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1480	2890	7850	6030	16900	14800	12900	3990	3510	7900	2240	2330
2	1480	2280	7640	7050	15000	19100	12800	4840	4080	7870	2250	1630
3	1280	2160	7450	7080	12900	21100	14000	3490	4150	8550	2560	2290
4	1280	1970	8880	7130	11800	22600	15700	2330	3530	6400	2590	2120
5	1460	2340	8590	7590	11200	23400	15400	4910	2660	7240	2470	2030
6	2010	1640	9560	8000	9320	24500	15200	4170	2280	6270	2630	2280
7	1350	1740	11100	8190	11200	25700	13500	4450	2180	7460	3160	2490
8	1200	1780	9920	8270	11800	25400	11500	4740	2070	8680	2330	2470
9	1220	1810	8510	7590	13200	22800	10600	4300	2000	8160	2780	2690
10	1420	1800	6730	7090	14200	19100	9760	3840	1990	7610	3410	3230
11	1460	1590	4810	6400	14200	14700	8510	3730	2160	6870	3840	1990
12	1430	1680	5620	5910	15200	13700	8490	5380	2120	6750	3350	1600
13	1910	1920	8290	7050	14900	12600	7140	4400	1830	5680	3060	1510
14	2190	1610	7100	5320	13400	11900	7580	4450	1890	4530	2750	2070
15	3020	1560	5640	4290	10900	11500	8350	5000	2670	4040	5010	3800
16	3040	1640	6980	4770	9340	9930	6420	4900	3530	3360	2310	3990
17	2180	1640	6540	4790	10400	9350	6010	5500	4430	2800	3960	3740
18	1770	1930	5100	7490	9690	9770	7230	5970	5670	3850	3360	3380
19	2490	3060	4900	11600	8850	11000	6070	6540	6640	2400	2840	1570
20	2490	3980	5180	16400	7430	10700	5920	5700	7330	2100	2330	1730
21	1800	4640	5070	20600	9570	10500	5600	5550	5210	3700	2900	2570
22	2360	5130	4960	21600	9310	11500	6020	4520	5870	2300	1870	2870
23	2010	5890	5560	23200	9750	11700	5780	6860	7390	3600	1670	1960
24	1860	7040	5630	23900	10200	11500	4920	6880	8510	3660	2010	1670
25	1690	7870	6210	24600	10700	11000	5170	6280	9090	2340	2650	1640
26	1640	5650	6440	23800	11100	10200	4960	5160	8450	2450	2300	1620
27	1650	5750	7440	21900	11300	9230	4850	4630	7110	2930	1820	1610
28	1730	5620	7470	21800	11400	9230	4580	4620	9590	1970	2450	1600
29	1940	5690	7600	21300	---	8550	4330	4410	9620	2810	2390	1780
30	1550	7590	6780	19400	---	10700	4230	4040	9570	2990	1680	1570
31	3030	---	5110	17800	---	12000	---	3670	---	2190	1390	---
TOTAL	57420	101890	214660	387940	325160	449760	253520	149250	147130	149460	82360	67830
MEAN	1852	3396	6925	12510	11610	14510	8451	4815	4904	4821	2657	2261
MAX	3040	7870	11100	24600	16900	25700	15700	6880	9620	8680	5010	3990
MIN	1200	1560	4810	4290	7430	8550	4230	2330	1830	1970	1390	1510
CFSM	.32	.59	1.21	2.18	2.02	2.53	1.47	.84	.85	.84	.46	.39
IN.	.37	.66	1.39	2.51	2.11	2.91	1.64	.97	.95	.97	.53	.44
CAL YR 1986	TOTAL	1455481	MEAN	3988	MAX	14900	MIN	971	CFSM	.70	IN	9.43
WTR YR 1987	TOTAL	2386380	MEAN	6538	MAX	25700	MIN	1200	CFSM	1.14	IN	15.47

APALACHICOLA RIVER BASIN

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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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CAC03)	ALKA- LITY LAB (MG/L AS CAC03)
OCT 24...	0730	1820	160	167	7.60	7.60	20.0	7.5	83	53	43	42
JAN 27...	0830	21800	68	72	7.10	6.90	8.0	11.2	95	22	18	17
MAR 26...	1215	10900	95	98	7.50	7.43	17.5	8.9	95	43	36	32
MAY 21...	1430	6370	128	135	7.50	7.80	25.5	6.6	81	49	41	41
JUL 22...	1230	1980	147	153	7.95	7.80	28.0	5.8	74	68	56	57
SEP 01...	1430	2660	188	185	8.00	8.00	28.5	6.6	85	75	62	64

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 NONCARB WH WAT TOT LAB 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 24...	5.0	23	210	45	2	16	1.3	15	41	1	1.7
JAN 27...	27	3800	1200	22	4	7.5	0.90	3.4	23	0.3	1.5
MAR 26...	9.0	240	59	31	0	11	0.96	4.9	24	0.4	1.2
MAY 21...	8.1	170	52	40	0	14	1.2	9.1	32	0.7	1.3
JUL 22...	3.0	7	6	57	1	21	1.2	6.5	19	0.4	1.5
SEP 01...	0.40	250	17	62	0	23	1.2	10	25	0.6	1.5

DATE	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 24...	2.1	19	13	<0.10	11	130	100	639	0.18
JAN 27...	2.8	13	4.3	<0.10	7.7	55	50	3240	0.08
MAR 26...	2.2	8.6	5.6	<0.10	7.2	53	61	1560	0.07
MAY 21...	2.5	6.0	7.2	<0.10	9.7	80	73	1380	0.11
JUL 22...	1.2	11	5.6	0.10	9.7	93	90	497	0.13
SEP 01...	1.2	14	8.7	0.10	9.1	109	100	783	0.15

APALACHICOLA RIVER BASIN
02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED TOTAL (MG/L AS P)
OCT 24...	0.030	1.60	0.060	0.090	0.84	0.90	0.060	0.040	0.030
JAN 27...	<0.010	0.650	0.020	0.060	0.58	0.60	0.100	0.050	0.020
MAR 26...	<0.010	0.460	0.040	0.040	0.66	0.70	0.030	0.020	0.010
MAY 21...	0.010	0.570	0.050	0.080	0.95	1.0	0.050	0.030	<0.010
JUL 22...	0.010	0.710	0.040	0.070	0.66	0.70	0.080	0.070	0.050
SEP 01...	0.020	0.800	0.060	0.070	0.64	0.70	0.100	0.070	0.070

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 24...	70	<1	19	<0.5	<1	<1	<3	4	360	<5
JAN 27...	270	<1	20	<0.5	<1	<1	<3	2	300	<5
MAY 21...	50	<1	20	<0.5	<1	<1	<3	1	510	<5
SEP 01...	<10	<1	19	<0.5	1	<1	<3	4	67	<5

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 24...	<4	15	0.2	<10	2	<1	<1	31	<6	35
JAN 27...	<4	32	--	<10	<1	<1	<1	16	<6	9
MAY 21...	<4	8	<0.1	<10	6	<1	1	31	<6	10
SEP 01...	<4	9	<0.1	<10	1	1	<1	37	<6	12

APALACHICOLA RIVER BASIN

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02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT					
22...	1256	2340	20.5	8	51
22...	1301	2340	20.5	8	51
24...	0735	1820	20.0	9	44
DEC					
19...	1351	4780	14.0	12	155
19...	1356	4780	14.0	15	194
JAN					
27...	0835	21800	8.0	25	1470
MAR					
06...	1518	24700	13.0	31	2070
06...	1523	24700	13.0	35	2330
26...	1220	10900	17.5	11	324
APR					
09...	1336	10600	15.0	12	343
09...	1341	10600	15.0	12	343
MAY					
21...	1435	6370	25.5	21	361
22...	1339	3780	25.5	11	112
22...	1344	3780	25.5	9	92
JUL					
02...	1401	8970	28.5	11	266
02...	1406	8970	28.5	12	291
AUG					
14...	1423	2260	28.0	5	31
14...	1428	2260	28.0	5	31
SEP					
01...	1435	2660	28.5	15	108

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT			
24...	0735	1820	97
JAN			
27...	0835	21800	91
MAR			
26...	1220	10900	92
MAY			
21...	1435	6370	73
SEP			
01...	1435	2660	47

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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
FEB								
20...	1513	8900	1	26	86	99	100	--
20...	1514	8900	<1	13	50	88	99	100
20...	1515	8900	<1	6	19	70	96	100
20...	1516	8900	--	<1	15	89	99	100

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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
SEP										
14...	1450	1920	<1	1	17	75	97	99	100	--
14...	1451	1920	<1	8	32	54	82	94	100	--
14...	1452	1920	<1	1	4	37	82	88	91	100
14...	1453	1920	--	--	<1	11	82	98	100	--

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.--September 1905 to December 1907, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 150.3 ft above 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.--No estimated daily discharges. Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--50 years (water years 1906-07, 1940-87), 786 ft³/s, 17.22 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft³/s, Jan. 27, 1978, gage height, 15.08 ft; minimum discharge, 45 ft³/s, July 19, 23, 1986.

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 greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 24	1300	*3,310	*6.46

Minimum discharge, 119 ft³/s, Aug. 26, gage height, 0.60.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	188	577	514	1100	1620	2150	358	277	571	381	193
2	128	193	692	619	1010	2030	2370	352	259	484	312	345
3	134	236	761	694	1090	2510	2300	344	245	530	298	524
4	138	265	730	774	1160	2460	2020	344	239	677	262	425
5	132	249	665	1000	1200	1980	1580	346	247	925	222	371
6	128	231	559	1310	1190	1450	1310	344	420	927	212	320
7	123	224	440	1620	1240	1150	1160	338	511	845	195	291
8	125	217	384	1760	1360	1150	1060	349	344	741	191	264
9	128	213	361	1550	1470	1270	947	353	273	558	204	251
10	132	211	361	1200	1610	1330	871	347	249	455	189	236
11	135	209	418	894	1490	1340	817	328	223	385	165	229
12	146	206	514	733	1200	1260	774	314	203	345	152	249
13	172	208	622	658	982	1180	744	430	217	321	159	299
14	195	212	722	621	865	1090	716	542	317	286	182	375
15	267	207	718	633	809	996	704	610	547	262	241	345
16	351	206	625	734	896	902	677	756	863	256	271	295
17	331	204	552	953	1130	840	648	880	987	315	266	271
18	261	241	511	1090	1260	839	619	813	887	269	242	248
19	218	357	489	1410	1300	1220	602	678	887	242	211	230
20	196	485	498	2000	1220	1690	578	580	881	225	192	219
21	181	569	525	2260	1130	1970	553	496	691	208	178	203
22	172	652	502	2400	1110	1970	525	540	615	208	175	198
23	173	738	512	2880	1470	1680	494	725	811	231	155	187
24	172	659	603	3270	1560	1270	472	1040	1080	227	145	181
25	175	498	689	3120	1520	1130	443	1390	1220	205	130	172
26	184	392	747	2820	1400	1140	422	953	1160	193	125	169
27	200	352	719	2330	1300	1140	411	517	978	197	147	167
28	214	372	651	1970	1280	1160	393	412	721	201	209	161
29	211	416	566	1710	---	1110	391	365	670	212	189	162
30	203	482	498	1440	---	1230	375	329	655	242	170	164
31	193	---	469	1230	---	1740	---	307	---	302	170	---
TOTAL	5642	9892	17680	46197	34352	43847	27126	16480	17677	12045	6340	7744
MEAN	182	330	570	1490	1227	1414	904	532	589	389	205	258
MAX	351	738	761	3270	1610	2510	2370	1390	1220	927	381	524
MIN	123	188	361	514	809	839	375	307	203	193	125	161
CFSM	.29	.53	.92	2.40	1.98	2.28	1.46	.86	.95	.63	.33	.42
IN.	.34	.59	1.06	2.77	2.06	2.63	1.63	.99	1.06	.72	.38	.46
CAL YR 1986 TOTAL	151408		MEAN 415	MAX 1810	MIN 48	CFSM .67	IN 9.08					
WTR YR 1987 TOTAL	245022		MEAN 671	MAX 3270	MIN 123	CFSM 1.08	IN 14.70					

APALACHICOLA RIVER BASIN

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
APR 15...	1330	705	88	81	7.40	8.60	20.0	7.9		89
SEP 03...	1300	540	53	54	6.99	6.30	24.0	6.9		82

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB 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)	ALKA- LINITY LAB (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
APR 15...	65	4.8	39	4	14	1.1	2.3	11	0.2	0.80	35	2.7
SEP 03...	65	19	18	7	5.5	0.94	2.2	20	0.2	1.2	11	2.2

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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
APR 15...	8.0	3.9	<0.10	5.3	58	57	110	0.08	0.500	0.550	0.050	0.070
SEP 03...	10	4.2	0.10	9.6	48	41	70	0.06	0.400	0.440	0.040	0.030

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 15...	0.45	0.43	0.50	0.50	1.0	--	0.030	0.010	3.9	50	<1	<1
SEP 03...	0.46	0.17	0.50	0.20	0.90	--	0.050	<0.010	11	80	<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)	HANGA- 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 15...	<1	<10	<1	500	<5	<5	47	0.20	0.2	<1	26
SEP 03...	<1	20	<1	270	13	<5	33	<0.10	<0.1	<1	7

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LOCATION.--Lat 30°54'41", long 84°34'48", Decatur County, Hydrologic Unit 03130008, on downstream side of bridge on U.S. Highway 27 (Business Route), 0.2 mi downstream from Seaboard Coast Line Railroad bridge, and 29.2 mi upstream from Jim Woodruff Dam, and at mile 29.0.

PERIOD OF RECORD.--Discharge: October 1907 to December 1913, October 1928 to September 1971. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

Annual peaks: Water years 1972-76, 1978-87.

Continuous gage-height record: August 1977 to current year.

Continuous gage-height record: August 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.06 ft above 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, 27,300 ft³/s, Jan. 25, gage height, 23.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.87	17.67	19.18	19.27	21.68	20.99	21.07	19.04	18.75	19.78	19.17	18.45
2	17.84	17.64	19.46	19.56	21.40	21.72	21.10	19.25	18.81	19.51	18.87	18.65
3	17.84	17.58	19.62	19.69	21.25	22.36	21.21	18.98	18.89	19.60	18.59	18.76
4	17.82	17.73	19.85	19.43	20.89	22.59	21.53	18.51	18.91	19.90	18.67	18.89
5	17.69	17.95	19.88	19.30	20.47	22.96	21.55	18.41	18.99	20.00	18.73	18.99
6	17.57	18.14	19.79	19.75	20.15	23.11	21.29	18.65	19.08	19.91	18.86	18.78
7	17.55	18.29	19.63	19.95	20.38	23.19	21.12	18.87	18.70	19.77	18.97	18.60
8	17.53	18.42	19.77	19.95	20.70	23.35	20.78	19.30	18.32	19.71	19.04	18.74
9	17.53	18.28	19.82	19.93	20.80	23.27	20.30	19.47	18.22	19.73	18.69	18.88
10	17.53	18.06	19.72	19.87	20.99	22.76	20.12	19.37	18.33	19.67	18.45	18.99
11	17.55	18.14	19.44	19.36	21.19	21.84	19.89	19.22	18.67	19.65	18.56	19.08
12	17.44	18.27	19.56	18.90	21.30	21.04	19.49	19.35	18.95	19.31	18.73	19.09
13	17.39	18.38	19.68	18.94	21.24	20.87	19.34	19.37	19.16	19.05	18.92	18.83
14	17.51	18.46	19.32	19.00	20.91	20.71	19.47	19.35	18.85	19.20	19.04	18.61
15	17.63	18.52	18.79	18.99	20.17	20.52	20.10	19.43	18.60	19.29	19.05	18.74
16	17.82	18.29	18.89	19.18	19.70	20.13	20.16	19.80	18.85	19.30	18.87	18.94
17	17.85	18.15	19.15	19.35	20.23	19.76	20.04	19.75	19.13	19.30	18.59	19.08
18	17.82	18.29	19.20	19.22	20.52	19.83	19.83	19.74	19.31	19.34	18.84	19.23
19	17.70	18.43	19.28	19.85	20.15	20.25	19.50	19.93	19.49	18.93	18.94	19.10
20	17.65	18.74	19.41	20.56	20.00	20.60	19.22	19.84	19.73	18.50	19.00	18.82
21	17.65	18.96	19.06	21.58	20.18	20.61	19.34	19.57	19.70	18.62	18.86	18.55
22	17.65	19.04	18.65	22.25	20.34	20.40	19.34	19.57	19.57	18.51	18.82	18.48
23	17.68	18.89	18.76	22.72	20.28	20.27	19.57	19.82	19.73	18.48	18.53	18.38
24	17.70	18.87	19.01	23.01	20.39	20.24	19.65	19.66	19.87	18.54	18.29	18.38
25	17.76	19.20	19.05	23.37	20.34	20.23	19.64	19.55	20.05	18.63	18.43	18.41
26	17.73	19.45	19.04	23.38	20.46	20.25	19.29	19.52	20.05	18.41	18.61	18.42
27	17.63	19.49	19.14	23.12	20.49	20.02	19.10	19.47	19.83	18.24	18.76	18.11
28	17.60	19.52	18.91	22.93	20.71	20.03	19.08	19.40	19.97	18.37	18.98	17.88
29	17.59	19.35	18.73	22.84	---	19.63	18.96	19.47	20.10	18.58	19.10	18.07
30	17.59	19.03	18.94	22.58	---	19.65	18.96	19.50	19.83	18.87	18.76	18.33
31	17.60	---	18.97	22.09	---	20.58	---	19.14	---	19.13	18.42	

APALACHICOLA RIVER BASIN

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

LOCATION.--Lat 30°53'34", long 84°36'38", Decatur County, Hydrologic Unit 03130008, at Bainbridge, 0.8 mi 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 Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
15...	1035	215	182	7.30	7.90	23.0	18.5	6.8	80
NOV									
12...	1140	170	160	7.20	7.90	22.5	24.0	7.8	91
DEC									
16...	1210	106	100	7.00	7.40	13.5	17.0	9.0	87
JAN									
21...	1040	85	79	6.70	7.10	12.0	8.5	9.1	85
FEB									
25...	1125	124	107	6.80	7.40	11.0	13.0	10.0	91
MAR									
18...	1100	160	148	7.00	7.40	15.5	15.5	8.9	90
APR									
21...	0955	157	148	7.40	7.70	20.0	28.5	9.1	101
MAY									
20...	1120	130	126	7.20	7.80	25.0	31.0	7.6	93
JUN									
10...	1050	182	180	7.40	8.00	25.0	29.0	7.5	91
JUL									
22...	1055	180	172	7.30	7.80	27.0	31.5	7.3	92
AUG									
19...	1025	172	171	7.20	7.80	27.0	31.0	6.6	84
SEP									
16...	1030	188	189	7.00	7.90	27.0	31.0	6.2	79

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	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)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT									
15...	5	3.0	--	1.3	--	60	6	0.840	0.090
NOV									
12...	20	4.0	--	0.9	110	55	8	0.980	0.140
DEC									
16...	90	15	--	0.8	1400	31	<1	0.640	0.150
JAN									
21...	80	52	--	2.3	--	26	35	0.480	0.100
FEB									
25...	55	12	--	1.1	--	32	6	0.850	0.160
MAR									
18...	40	6.0	--	0.9	330	48	<1	1.51	0.460
APR									
21...	20	5.0	--	0.9	110	61	<1	1.49	0.360
MAY									
20...	40	10	--	1.1	1200	42	14	0.700	0.090
JUN									
10...	20	2.0	--	0.7	130	70	9	1.21	0.140
JUL									
22...	10	1.0	--	0.2	--	69	4	1.00	0.120
AUG									
19...	5	4.0	6	0.9	170	63	<1	0.780	0.100
SEP									
16...	5	3.0	9	1.1	220	72	4	0.950	0.170

APALACHICOLA RIVER BASIN

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02356015 FLINT RIVER BELOW BAINBRIDGE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
15...	--	--	--	0.050	3.2
NOV					
12...	--	--	--	0.060	3.3
DEC					
16...	--	--	--	0.060	6.1
JAN					
21...	--	--	--	0.080	6.7
FEB					
25...	--	--	--	0.060	23
MAR					
18...	--	--	--	0.080	4.4
APR					
21...	--	--	--	0.050	9.3
MAY					
20...	--	--	--	<0.020	5.1
JUN					
10...	--	--	--	0.040	4.6
JUL					
22...	--	--	--	0.030	3.5
AUG					
19...	0.30	0.40	1.2	0.060	2.1
SEP					
16...	0.13	0.30	1.2	0.050	3.5

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.--November 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. Monthly discharge only for November 1920 to June 1921, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 85.7 ft above 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.--Estimated daily discharges: Oct. 21 to Dec. 4. Records good except those of Oct. 21 to Dec. 4, which are fair. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

AVERAGE DISCHARGE.--39 years (water years 1938-70, 1978, 1983-87), 493 ft³/s, 13.80 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, 5.0 ft³/s, Aug. 14, 15, 18, and 19, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 5.3 ft³/s was measured on July 13, 1981. The effect of irrigation on this measurement is unknown.

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. 25	1800	*3,660	*13.96	Mar. 22	1900	2,240	12.07
Mar. 4	1400	3,390	13.68	Apr. 2	1500	3,350	13.63

Minimum discharge, 9.8 ft³/s, Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	56	300	1330	1920	2910	302	343	510	299	64
2	13	15	74	297	1230	2050	3310	288	309	455	261	68
3	12	14	86	291	1180	2690	3130	287	281	418	239	71
4	12	14	83	317	1160	3320	2650	290	273	478	219	71
5	11	15	84	391	1150	2920	2110	277	272	476	198	80
6	11	15	85	437	1130	2140	1750	263	261	602	183	102
7	10	15	85	498	1160	1690	1510	262	242	670	172	126
8	10	15	83	540	1200	1500	1340	279	222	688	158	138
9	11	15	79	612	1210	1430	1200	284	207	592	144	123
10	13	15	77	707	1300	1450	1080	286	200	484	132	111
11	14	15	78	690	1360	1500	988	286	186	405	120	104
12	13	15	89	604	1300	1540	910	284	169	352	112	103
13	13	14	104	541	1190	1450	848	269	170	313	118	116
14	15	14	114	502	1060	1310	796	279	258	284	127	124
15	14	14	126	482	964	1190	753	365	298	280	130	115
16	15	14	143	488	942	1100	710	441	407	258	130	106
17	15	14	164	573	916	1040	670	514	435	229	131	101
18	15	15	181	643	904	1020	635	687	477	208	137	98
19	14	17	185	1110	893	1260	602	864	601	191	137	94
20	14	20	185	1440	877	1590	570	1070	705	177	133	90
21	14	22	181	1680	929	2000	541	1050	640	166	128	85
22	14	25	177	2360	991	2200	513	891	587	158	117	80
23	14	28	196	3060	1260	2120	486	789	560	147	105	75
24	13	29	226	3360	1620	1730	456	703	560	138	96	70
25	13	28	240	3600	1960	1470	426	786	625	134	89	67
26	14	26	261	3420	2040	1380	400	1290	724	129	83	64
27	14	26	280	2670	1990	1290	377	1080	804	124	77	61
28	14	26	294	2100	1850	1250	358	750	752	123	70	58
29	14	28	313	1830	---	1260	338	561	597	126	67	56
30	15	39	317	1670	---	1570	218	458	522	153	63	55
31	15	---	303	1510	---	2120	---	390	---	222	64	---
TOTAL	413	577	4949	38723	35096	52500	32685	16625	12687	9690	4239	2676
MEAN	13.3	19.2	160	1249	1253	1694	1090	536	423	313	137	89.2
MAX	15	39	317	3600	2040	3320	3310	1290	804	688	299	138
MIN	10	14	56	291	877	1020	318	262	169	123	63	55
CFSM	.03	.04	.33	2.58	2.58	3.49	2.25	1.11	.87	.65	.28	.18
IN.	.03	.04	.38	2.97	2.69	4.03	2.51	1.28	.97	.74	.33	.21

CAL YR 1986	TOTAL	117703.1	MEAN 322	MAX 5630	MIN 5.1	CFSM .66	IN 9.03
WTR YR 1987	TOTAL	210860.0	MEAN 578	MAX 3600	MIN 10	CFSM 1.19	IN 16.17

APPALACHICOLA RIVER BASIN

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02357000 SPRING CREEK NEAR IRON CITY, GA.--Continued

PERIOD OF RECORD.--January 1938, August 1957 to October 1962, November 1966 to August 1971, September 1972, November 1973, December 1976 to November 1978, March and July 1986, May 1987.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

		DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	TUR- BID- ITY (NTU)		
		MAY 21...	1300	1040	152	7.40	23.5	6.7	13		
DATE	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	ALA- CHLOR TOTAL RECOVER (UG/L)	ALDRIN, TOTAL (UG/L)	AME- TRYNE TOTAL	ATRA- ZINE, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	CYAN- AZINE TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)
MAY 21...	<0.01	<0.01	<0.01	0.20	<0.010	<0.10	0.10	<0.1	<0.10	<0.010	<0.010
DATE	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METHO- MYL TOTAL (UG/L)
MAY 21...	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<2.0
DATE	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	METOLA- CHLOR WATER WHOLE TOT.REC (UG/L)	METRI- BUZIN WATER WHOLE TOT.REC (UG/L)	MIREX, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PCB, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PROME- TONE TOTAL (UG/L)
MAY 21...	<0.01	<0.01	<0.01	<0.1	<0.1	<0.01	<0.10	<0.01	<0.1	<0.1	<0.1
DATE	PROME- TRYNE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	PROPHAM TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TRI- FLURA- LIN TOTAL RECOVER (UG/L)	TOTAL TRI- THION (UG/L)	
MAY 21...	<0.1	<0.10	<2.0	<2.0	<0.01	<0.10	<0.1	<1	<0.10	<0.01	

LAKES IN APALACHICOLA RIVER BASIN

02334400 LAKE SIDNEY LANIER NEAR BUFORD, GA.

LOCATION.--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).

REMARKS.--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 ft 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, 1,985,600 acre-ft July 5, elevation, 1,071.78 ft; minimum, 1,396,100 acre-ft Oct. 9, elevation, 1,054.85 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1055.25	1408500	-	-
Oct. 31.....	1056.71	1454500	+46000	+748
Nov. 30.....	1058.33	1506500	+52000	+874
Dec. 31.....	1060.36	1573200	+66700	+1085
CAL YR 1986	-	-	-156700	-216
Jan. 31.....	1063.18	1669300	+96100	+1563
Feb. 28.....	1066.62	1791500	+122200	+2200
Mar. 31.....	1070.37	1931100	+139600	+2271
Apr. 30.....	1071.23	1964200	+33100	+556
May 31.....	1071.54	1976200	+12000	+195
June 30.....	1071.49	1974300	-1900	-32
July 31.....	1069.94	1914700	-59600	-969
Aug. 31.....	1066.06	1771300	-143400	-2332
Sept. 30.....	1062.47	1644800	-126500	-2126
WTR YR 1987	-	-	+236300	+326

02339400 WEST POINT LAKE NEAR WEST POINT, GA.

LOCATION.--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).

REMARKS.--Lake is formed by concrete gravity dam with earth dikes at either side. Spillway (crest elevation, 597 ft) is equipped with six tainter gates 50 ft wide by 41 ft high. Storage began Oct. 16, 1974; 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, 295,200 acre-ft, Nov. 8, 1985, elevation, 619.80 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 647,600 acre-ft July 7, elevation, 636.62 ft; minimum, 401,800 acre-ft Oct. 10, elevation, 625.97 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	626.60	414100	-	-
Oct. 31.....	629.78	480100	+66000	+1073
Nov. 30.....	631.60	521200	+41100	+691
Dec. 31.....	630.32	492100	-29100	-473
CAL YR 1986	-	-	+107900	+149
Jan. 31.....	632.33	538400	+46300	+753
Feb. 28.....	632.77	548900	+10500	+189
Mar. 31.....	631.86	527200	-21700	-353
Apr. 30.....	632.92	552500	+25300	+425
May 31.....	636.22	636800	+84300	+1371
June 30.....	636.04	631900	-4900	-82
July 31.....	633.43	565000	-66900	-1088
Aug. 31.....	631.33	514900	-50100	-815
Sept. 30.....	627.73	436800	-78100	-1313
WTR YR 1987	-	-	+22700	+31

02341000 LAKE HARDING NEAR COLUMBUS, GA.

LOCATION.--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.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Reservoir is formed by concrete gravity dam with earth fill abutments. Spillway (crest elevation, 500.0 ft) is equipped with 19 tainter 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 month-end elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	518.9	168000	-	-
Oct. 31.....	519.4	171000	+3000	+49
Nov. 30.....	519.1	170000	-1000	-17
Dec. 31.....	518.6	167000	-3000	-49
CAL YR 1986	-	-	-7000	-10
Jan. 31.....	519.5	172000	+5000	+81
Feb. 28.....	519.6	173000	+1000	+18
Mar. 31.....	519.9	174000	+1000	+16
Apr. 30.....	519.9	174000	0	0
May 31.....	519.7	173000	-1000	-16
June 30.....	519.1	170000	-3000	-50
July 31.....	520.2	176000	+6000	+98
Aug. 31.....	519.8	174000	-2000	-33
Sept. 30.....	519.7	173000	-1000	-17
WTR YR 1987	-	-	+5000	+7

02343240 WALTER F. GEORGE LAKE NEAR FORT GAINES, GA.

LOCATION.--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).

REMARKS.--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 tainter 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, 960,700 acre-ft July 6, elevation, 190.57 ft; minimum, 785,300 acre-ft Oct. 10, elevation, 186.49 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	186.70	793600	-	-
Oct. 31.....	187.60	830500	+36900	+600
Nov. 30.....	189.80	925600	+95100	+1598
Dec. 31.....	188.70	877100	-48500	-789
CAL YR 1986	-	-	-26200	-36
Jan. 31.....	188.45	866400	-10700	-174
Feb. 28.....	189.58	915800	+49400	+890
Mar. 31.....	190.03	935900	+20100	+327
Apr. 30.....	188.84	883100	-52800	-887
May 31.....	189.75	923400	+40300	+655
June 30.....	190.03	935900	+12500	+210
July 31.....	187.47	825100	-110800	-1802
Aug. 31.....	188.36	862500	+37400	+608
Sept. 30.....	187.99	846700	-15800	-266
WTR YR 1987	-	-	+53100	+73

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

LAKES IN APALACHICOLA RIVER BASIN--Continued

02357500 LAKE SEMINOLE NEAR CHATTAHOOCHEE, FL.

LOCATION.--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, non-recording gage at same site at datum 53.96 ft higher; gage readings have been reduced to elevation above mean sea level.

REMARKS.--Lake is formed by earthfill dam with concrete fixed-crest spillway, a center channel spillway with 16 vertical lift gates 40 ft long by 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.

EXTREMES FOR CURRENT YEAR: Maximum contents 395,700 acre-ft July 4, elevation, 77.73 ft; minimum, 317,800 acre-ft Oct. 12, elevation 75.60.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	76.00	331100	-	-
Oct. 31.....	75.83	325400	-5700	-93
Nov. 30.....	76.80	360000	+34600	+582
Dec. 31.....	77.10	371200	+11200	+182
CAL YR 1986	-	-	+800	+1
Jan. 31.....	77.21	375500	+4300	+70
Feb. 28.....	77.51	387100	+11600	+209
Mar. 31.....	77.53	387900	+800	+13
Apr. 30.....	76.80	360000	-27900	-469
May 31.....	76.82	360800	+800	+13
June 30.....	77.10	371200	+10400	+175
July 31.....	77.29	378600	+7400	+120
Aug. 31.....	76.50	349200	-29400	-478
Sept. 30.....	76.58	352100	+2900	+49
WTR YR 1987	-	-	+21000	+29

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.

PERIOD OF RECORD.--October 1938 to December 1949, June 1963 to current year. Occasional low-flow measurements 1959, 1961-62.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,216.04 ft above National Geodetic Vertical Datum of 1929. Prior to June 10, nonrecording gage at site 0.5 mi upstream at datum 8.04 ft higher.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--35 years (water years 1939-49, 1964-87), 511 ft³/s, 29.40 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft³/s, Oct. 4, 1964, gage height, 17.63 ft; minimum, 75 ft³/s, Aug. 6-8, 1986.

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 greater than base discharge 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)
Jan. 19	0215	3,820	5.59	Feb. 28	2100	*4,710	*6.59

Minimum discharge, 87 ft³/s, Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	173	526	373	576	2940	578	420	320	331	150	116
2	106	168	531	359	902	1690	548	414	314	337	146	109
3	101	160	482	337	844	1200	594	407	328	350	155	102
4	100	158	426	330	708	957	579	399	368	358	197	100
5	99	189	390	319	637	839	573	392	310	329	253	100
6	95	198	366	312	597	765	568	382	283	288	194	111
7	89	435	352	308	588	717	555	377	270	276	249	119
8	89	497	430	308	553	712	539	366	266	253	207	129
9	114	318	554	303	514	810	522	354	261	242	196	119
10	233	269	1060	342	492	705	502	349	255	234	177	114
11	160	403	877	323	482	647	502	343	256	228	180	143
12	136	542	718	304	478	641	486	367	259	223	165	190
13	381	363	591	300	464	616	474	369	329	214	156	235
14	444	291	514	298	494	591	562	381	302	211	150	162
15	228	285	474	325	518	576	952	363	357	207	146	139
16	174	269	453	313	537	565	804	396	401	200	153	130
17	151	273	431	311	497	549	731	348	322	194	146	123
18	139	257	443	1480	474	593	660	335	315	190	148	127
19	133	238	407	2920	454	764	600	410	327	188	149	142
20	126	511	385	1420	439	623	562	364	540	181	138	168
21	124	529	368	946	439	583	537	343	419	178	127	132
22	121	373	354	790	477	555	518	331	377	176	123	121
23	119	486	373	662	537	536	502	354	412	173	122	116
24	124	861	577	583	476	526	485	367	399	168	121	114
25	1260	716	531	1150	453	549	475	345	333	164	116	113
26	840	1790	460	1500	505	520	461	341	346	173	117	111
27	377	1300	424	946	1450	526	448	324	310	162	115	110
28	270	725	400	780	3090	566	459	325	275	155	112	109
29	224	562	382	684	---	514	433	321	257	149	111	110
30	199	506	372	663	---	623	432	372	249	146	111	143
31	181	---	348	617	---	678	---	370	---	151	109	---
TOTAL	7042	13845	14999	20606	18675	23676	16641	11329	9760	6829	4739	3857
MEAN	227	462	484	665	667	764	555	365	325	220	153	129
MAX	1260	1790	1060	2920	3090	2940	952	420	540	358	253	235
MIN	89	158	348	298	439	514	432	321	249	146	109	100
CFSM	.96	1.96	2.05	2.82	2.83	3.24	2.35	1.55	1.38	.93	.65	.55
IN.	1.11	2.18	2.36	3.25	2.94	3.73	2.62	1.79	1.54	1.08	.75	.61

CAL YR 1986	TOTAL	96544	MEAN 265	MAX 1790	MIN 75	CFSM 1.12	IN 15.22
WTR YR 1987	TOTAL	151998	MEAN 416	MAX 3090	MIN 89	CFSM 1.76	IN 23.96

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. Elevation of gage is 1,320 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Oct. 20-23, July 27-30, Aug. 12-15, 21-31, Sept. 1-5. Records good, except those less than 5 ft³/s, which are fair, and those of questionable gage-height record, Oct. 20-23, July 27-30, Aug. 12-15, 21-31, Sept. 1-5, which are poor.

AVERAGE DISCHARGE.--13 years, 17.9 ft³/s, 24.33 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, 1.1 ft³/s, June 26, 27, 1986.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 28	1815	*428	*4.41

Minimum daily discharge, 1.2 ft³/s, Sept. 3, but may have been less during period of questionable record, Aug. 21 to Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	6.9	12	11	16	88	20	16	11	8.3	3.8	1.6
2	4.2	6.8	11	9.6	27	40	19	15	9.8	8.1	3.8	1.3
3	3.6	6.8	9.7	9.0	21	29	23	15	10	7.9	6.0	1.2
4	3.6	6.8	9.2	9.0	19	23	21	15	13	10	5.4	1.3
5	3.0	8.4	8.6	8.6	17	21	20	14	10	8.1	5.1	1.5
6	3.0	8.3	8.1	8.5	16	19	19	14	9.0	7.2	4.6	2.1
7	2.5	37	8.1	8.5	16	18	19	14	8.6	6.9	5.0	2.0
8	2.8	19	11	8.2	16	18	18	13	8.3	6.4	4.9	1.7
9	4.3	14	14	8.1	15	22	17	13	8.1	6.2	4.7	1.7
10	8.8	12	25	9.6	14	18	17	12	7.9	6.1	4.2	1.7
11	4.5	21	23	8.6	14	17	17	12	7.9	6.0	4.0	3.5
12	4.6	19	18	8.4	14	18	16	13	8.9	5.9	3.5	11
13	13	14	14	8.1	13	17	16	13	12	5.6	3.3	5.5
14	11	12	13	8.1	15	16	21	13	13	5.4	3.2	4.0
15	6.5	12	12	9.5	14	16	56	12	14	5.3	3.1	3.6
16	5.5	11	11	8.8	16	15	30	12	13	5.2	3.2	3.6
17	5.3	11	11	8.7	14	15	25	12	11	5.1	3.0	3.2
18	5.1	9.9	12	83	14	19	22	12	9.6	5.1	3.3	3.0
19	4.9	9.3	10	90	13	23	21	15	10	5.1	3.6	6.0
20	4.6	23	9.4	31	13	18	20	12	16	4.8	3.4	5.0
21	4.5	17	9.0	22	13	17	19	12	11	4.4	2.7	3.1
22	4.3	13	9.0	20	15	17	18	11	11	4.4	2.2	2.5
23	4.2	23	11	17	15	16	17	11	9.8	4.3	1.8	2.5
24	4.9	29	13	16	14	15	17	11	9.0	4.2	1.5	2.5
25	37	23	12	81	13	16	17	11	8.6	4.8	1.5	2.4
26	15	75	11	53	16	15	16	10	8.4	4.9	2.0	2.2
27	9.3	24	11	29	45	22	16	9.5	7.7	4.0	1.6	2.1
28	8.3	15	9.8	23	185	19	17	9.9	7.3	3.9	1.3	2.1
29	7.5	12	9.4	20	---	17	16	11	7.0	3.8	1.3	2.5
30	7.0	12	9.2	18	---	23	16	15	6.8	3.7	1.3	5.9
31	6.8	---	9.0	17	---	23	---	12	---	4.2	1.6	---
TOTAL	213.8	511.2	363.5	670.3	633	670	606	390.4	297.7	175.3	99.9	92.3
MEAN	6.90	17.0	11.7	21.6	22.6	21.6	20.2	12.6	9.92	5.65	3.22	3.08
MAX	37	75	25	90	185	88	56	16	16	10	6.0	11
MIN	2.5	6.8	8.1	8.1	13	15	16	9.5	6.8	3.7	1.3	1.2
CFSM	.69	1.70	1.17	2.16	2.26	2.16	2.02	1.26	.99	.57	.32	.31
IN.	.80	1.90	1.35	2.50	2.36	2.49	2.26	1.45	1.11	.65	.37	.34
CAL YR 1986	TOTAL	3044.3	MEAN	8.34	MAX	90	MIN	1.1	CFSM	.84	IN	11.33
WTR YR 1987	TOTAL	4723.4	MEAN	12.9	MAX	185	MIN	1.2	CFSM	1.29	IN	17.59

285

LOCATION.--Lat 34°27'11", long 84°33'28", Pickens County, Hydrologic Unit 03150102, on right bank, approximately 300 ft downstream from bridge on Pickens County Road 150, 1.8 mi south of State Highway 53, 2.4 mi southeast of Hinton, and 8.0 mi upstream from mouth.

PERIOD OF RECORD.--July 1986 to September 1987.

REMARKS.--No estimated daily discharges. Records good.

Water year 1987: Maximum discharge, 234 ft³/s, Feb. 28, gage height, 2.80 ft; minimum daily discharge, 0.18 ft³/s, Sept. 4.

[illegible]

MOBILE RIVER BASIN

02381950 SCARECORN CREEK ABOVE HINTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.94	2.8	11	7.0	9.0	112	17	6.5	3.5	6.3	.40	.44
2	1.1	2.8	11	6.3	12	47	13	6.4	3.7	3.6	.44	.30
3	.90	2.6	9.5	5.7	12	25	14	6.5	3.6	2.6	1.4	.24
4	.91	2.7	7.8	5.6	10	16	13	6.3	5.9	9.2	1.8	.18
5	.87	3.5	6.8	5.3	9.3	14	13	6.1	3.7	5.3	1.3	.23
6	.72	3.4	6.0	4.9	8.9	12	13	5.9	2.8	4.2	1.3	.38
7	.66	17	5.6	4.8	9.2	11	12	5.7	2.6	3.4	1.5	2.3
8	.66	14	7.0	4.9	8.4	11	11	5.4	2.4	2.4	1.4	5.8
9	1.5	9.4	7.3	4.7	7.6	12	10	5.0	2.4	2.3	1.5	.83
10	5.4	8.2	16	5.7	7.2	11	9.7	4.9	2.4	2.2	1.0	.65
11	1.6	11	18	5.0	7.2	10	9.7	4.7	2.3	2.0	1.0	.99
12	1.3	12	16	4.4	7.1	10	9.2	4.9	2.6	2.0	.81	3.4
13	6.8	8.7	11	4.4	6.8	10	8.9	5.1	6.5	1.7	.70	2.7
14	6.6	6.7	9.1	4.4	8.0	9.7	11	6.5	4.1	1.7	.58	1.2
15	2.3	6.6	8.1	5.2	7.9	9.3	13	5.6	5.1	1.7	.52	.93
16	1.7	6.1	7.2	4.8	9.5	9.3	12	4.7	4.4	1.5	.57	1.4
17	1.4	5.7	6.9	4.9	8.2	9.0	11	4.1	3.4	1.4	.52	.75
18	1.3	5.0	7.5	27	7.8	10	10	3.8	3.6	1.2	.64	1.1
19	1.2	4.5	6.4	58	7.2	12	9.5	9.9	3.1	1.1	.67	1.5
20	1.1	9.1	6.1	36	6.8	11	8.9	3.9	3.9	1.1	.49	1.3
21	1.1	10	5.7	18	6.8	10	8.5	3.6	3.7	1.1	.36	.87
22	1.1	7.7	5.3	13	8.2	9.6	8.2	3.6	3.4	1.2	.32	.75
23	1.0	8.0	7.2	10	8.2	9.1	8.0	3.4	3.0	1.1	.29	.98
24	1.2	8.6	12	9.1	7.4	9.2	7.6	3.4	2.7	.94	.34	.67
25	33	7.9	12	45	7.2	9.4	7.3	3.2	2.8	.92	.33	.82
26	31	42	9.5	53	8.3	8.8	7.1	2.9	3.0	.88	.34	.71
27	8.9	33	8.2	31	26	11	6.8	2.8	2.3	.79	.37	.59
28	5.4	13	7.3	16	113	12	7.1	3.3	2.0	.84	.35	.66
29	3.9	9.5	6.7	12	---	10	6.8	5.8	1.8	.56	.29	.85
30	3.1	8.8	6.4	11	---	20	6.7	4.2	1.8	.62	.25	3.4
31	2.7	---	5.9	9.7	---	25	---	3.4	---	.63	.33	---
TOTAL	131.36	290.3	270.5	436.8	355.2	505.4	303.0	145.5	98.5	66.48	22.11	36.92
MEAN	4.24	9.68	8.73	14.1	12.7	16.3	10.1	4.69	3.28	2.14	.71	1.23
MAX	33	42	18	58	113	112	17	6.5	6.5	9.2	1.8	5.8
MIN	.66	2.6	5.3	4.4	6.8	8.8	6.7	2.8	1.8	.56	.25	.18
CFSM	.66	1.51	1.36	2.20	1.98	2.55	1.58	.73	.51	.33	.11	.19
IN.	.76	1.69	1.57	2.54	2.06	2.94	1.76	.85	.57	.39	.13	.21

WTR YR 1987 TOTAL 2662.07 MEAN 7.29 MAX 113 MIN .18 CFSM 1.14 IN. 15.47

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LOCATION.--Lat 34°28'34", long 84°35'28", Pickens County, Hydrologic Unit 03150102, on left bank, 100 ft upstream from bridge on State Highway 53, 0.6 mi southwest of Hinton, and 5 mi upstream from Talking Rock Creek, and 8.5 mi west of Jasper.

PERIOD OF RECORD.--April 1939 to December 1943, May 1959 to September 1974, August 1986 to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 1,060 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS:--Estimated daily discharges: Aug. 1-7, 1986, Feb. 2, 6-9, and 18-19, 1987. Records good, except those for periods of estimated record, Aug. 1-7, 1986, Feb. 1, 2, 6-9, and 18-19, which are fair.

AVERAGE DISCHARGE.--19 years (water years 1940-42, 1960-1974, 1987), 28.2 ft³/s, 18.15 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.2 ft, Feb. 16, 1942 (discharge not determined); minimum daily discharge, 1.1 ft³/s, Aug. 29, 30, Sept. 3-5, 1987.

EXTREMES FOR CURRENT PERIOD.--August 1986 to September 1987: Peak discharges greater than base discharge at 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height	Date	Time	Discharge (ft ³ /s)	Gage height
Sept. 3, 1986	1115	*962	*5.59	Feb. 28, 1987	1845	956	5.56

Minimum daily discharge, 1.2 ft³/s, Sept. 3-5, 1987.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

[illegible]

MOBILE RIVER BASIN

02382000 SCARECORN CREEK AT HINTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	11	61	26	30	255	43	17	11	12	3.0	1.5
2	6.4	11	33	28	54	112	35	16	11	9.8	2.8	1.3
3	5.0	11	33	19	46	69	42	17	14	8.3	3.6	1.2
4	4.9	11	47	17	39	47	43	16	29	20	5.2	1.2
5	4.4	13	45	16	37	40	39	16	14	14	4.5	1.2
6	3.8	12	43	16	34	35	36	15	11	22	11	1.4
7	3.3	64	47	15	32	33	33	15	9.4	17	8.0	3.2
8	3.3	44	53	15	28	32	31	14	8.7	11	6.0	12
9	4.2	28	30	16	24	36	31	13	8.3	9.0	6.1	3.3
10	21	23	89	18	21	32	34	13	8.0	8.2	4.6	2.5
11	8.7	32	117	17	21	30	35	13	8.0	7.7	4.1	2.5
12	7.1	34	102	16	21	29	25	13	8.5	7.3	3.5	4.8
13	19	26	77	16	19	28	24	13	16	6.6	3.0	6.6
14	26	22	74	15	25	28	30	19	11	6.2	2.6	4.1
15	12	24	39	18	25	28	38	16	13	6.2	2.4	3.1
16	9.4	26	22	17	33	31	34	14	13	5.6	2.5	3.1
17	8.3	25	21	18	27	24	32	13	11	5.3	2.4	2.7
18	7.4	16	24	154	24	29	29	12	12	4.8	2.7	3.1
19	6.8	14	20	169	22	39	26	13	12	4.8	2.7	3.9
20	6.5	29	20	85	20	32	25	12	13	4.5	2.2	4.5
21	6.5	27	22	51	20	28	24	12	12	4.3	1.8	3.1
22	6.1	21	24	44	24	26	23	11	11	4.6	1.7	2.7
23	5.8	25	36	35	24	25	21	11	10	4.5	1.5	2.7
24	6.2	30	44	29	22	26	21	11	10	4.0	1.5	2.6
25	82	26	35	211	21	26	20	10	9.9	4.1	1.5	2.5
26	69	149	27	127	27	24	19	9.7	9.2	4.1	1.7	2.4
27	25	92	24	76	86	30	18	9.2	7.9	3.6	1.6	2.3
28	17	50	21	50	460	32	19	9.4	7.0	3.4	1.4	2.3
29	14	38	20	39	---	28	18	14	6.8	2.9	1.3	2.6
30	12	42	20	36	---	58	17	15	6.6	3.4	1.3	7.5
31	11	---	20	31	---	63	---	11	---	3.1	1.3	---
TOTAL	427.5	976	1290	1440	1266	1355	865	413.3	332.3	232.3	99.5	97.9
MEAN	13.8	32.5	41.6	46.5	45.2	43.7	28.8	13.3	11.1	7.49	3.21	3.26
MAX	82	149	117	211	460	255	43	19	29	22	11	12
MIN	3.3	11	20	15	19	24	17	9.2	6.6	2.9	1.3	1.2
CFSM	.65	1.53	1.95	2.18	2.12	2.05	1.35	.62	.52	.35	.15	.15
IN.	.75	1.70	2.25	2.51	2.21	2.37	1.51	.72	.58	.41	.17	.17
WTR YR 1987	TOTAL	8794.8	MEAN	24.1	MAX	460	MIN	1.2	CFSM	1.13	IN	15.36

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 Scarecorn Creek, and 3.3 mi northwest of Hinton.

DRAINAGE AREA.--119 mi².

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

REVISED RECORDS.--WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 890 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good, except those for the period Oct. 1 to Nov. 7, which are fair. AVERAGE DISCHARGE.--13 years (water years 1975-87), 192 ft³/s, 21.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft³/s, Mar. 4, 1979, gage height, 14.18 ft; minimum daily discharge, 6.2 ft³/s, Sept. 5, 1987.

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 greater than base discharge of 2,500 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 28	2000	*3,680	*7.26

Minimum daily discharge, 6.2 ft³/s, Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	45	151	118	165	1310	218	107	97	79	23	12
2	29	44	136	112	265	541	195	111	93	76	22	17
3	27	43	126	106	236	345	219	108	89	75	25	11
4	25	44	114	103	202	271	222	105	151	106	36	6.8
5	25	52	108	100	182	235	222	103	103	92	34	6.2
6	24	54	103	98	169	213	204	99	88	89	36	7.0
7	23	179	99	96	173	199	193	98	82	82	46	15
8	22	165	120	95	159	196	184	100	78	64	36	28
9	25	105	132	93	147	224	175	93	76	59	42	21
10	58	91	309	106	142	198	166	90	73	56	32	18
11	39	109	288	100	138	182	170	90	73	53	35	18
12	32	137	239	93	137	186	165	93	79	51	29	25
13	58	102	182	93	132	179	159	101	125	48	26	59
14	102	84	153	93	143	169	193	110	100	45	24	33
15	49	84	141	103	151	164	275	102	117	44	23	29
16	39	80	132	99	167	161	205	99	122	42	23	26
17	35	78	126	100	147	156	183	92	100	41	22	25
18	33	73	135	794	142	171	167	91	97	39	24	25
19	31	69	120	1340	139	234	153	118	101	37	25	28
20	30	129	114	442	135	193	143	101	116	36	22	41
21	29	133	109	276	135	180	138	93	103	34	19	30
22	28	102	105	244	149	167	134	91	108	34	17	27
23	27	131	119	203	160	159	131	88	92	33	16	24
24	27	203	162	172	143	157	125	89	86	31	14	24
25	261	175	151	767	139	159	123	88	81	30	9.1	24
26	185	622	135	742	161	152	119	91	100	34	9.0	23
27	87	309	124	363	491	174	115	82	78	30	13	22
28	63	197	116	266	1990	203	119	94	67	28	11	22
29	56	156	111	222	---	172	111	86	63	25	13	23
30	50	138	108	205	---	242	108	122	60	24	12	35
31	46	---	105	181	---	277	---	126	---	23	7.6	---
TOTAL	1592	3933	4373	7925	6639	7569	5034	3061	2798	1540	725.7	705.0
MEAN	51.4	131	141	256	237	244	168	98.7	93.3	49.7	23.4	23.5
MAX	261	622	309	1340	1990	1310	275	126	151	106	46	59
MIN	22	43	99	93	132	152	108	82	60	23	7.6	6.2
CFSM	.43	1.10	1.19	2.15	1.99	2.05	1.41	.83	.78	.42	.20	.20
IN.	.50	1.23	1.37	2.48	2.08	2.37	1.57	.96	.87	.48	.23	.22
CAL YR 1986	TOTAL	29241.8	MEAN	80.1	MAX	622	MIN	9.8	CFSM	.67	IN	9.14
WTR YR 1987	TOTAL	45894.7	MEAN	126	MAX	1990	MIN	6.2	CFSM	1.06	IN	14.35

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 center bridge pier on U.S. Highway 411 at Carters (revised), 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.--September 1896 to December 1908, October 1918 to September 1923, October 1961 to September 1972, October 1974 to current year. Monthly discharge only for October to November 1918 published in WSP 1304.

REVISED RECORDS.--WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 650.67 ft above 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.--No estimated daily discharges. 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.--40 years (water years 1897-1908, 1919-23, 1962-71, 1975-87), 1,192 ft³/s, 31.07 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, 4,120 ft³/s, Mar. 5, gage height, 11.40 ft; minimum daily discharge, 245 ft³/s, Nov. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	343	298	1660	1030	916	1340	1200	508	679	571	416	600
2	329	275	1690	1060	736	1200	1380	442	700	556	353	638
3	323	251	1660	776	1090	1670	1320	436	711	596	338	684
4	298	245	1500	432	1630	2590	1100	566	693	655	365	708
5	327	290	1050	458	1740	3420	1270	569	702	681	348	722
6	338	304	921	471	1670	3700	1360	572	719	725	371	681
7	347	323	824	484	926	3390	1200	753	706	746	379	664
8	345	294	803	493	723	3120	1120	937	699	721	403	787
9	340	287	875	510	894	2500	1120	972	735	715	389	957
10	304	317	1040	458	1050	2600	1130	857	731	678	380	862
11	308	390	1190	411	1030	2560	1060	871	713	597	421	492
12	294	344	1230	432	1020	2270	972	942	723	568	442	428
13	292	258	1220	403	1090	1960	1090	1060	639	561	474	381
14	311	406	1130	403	890	1230	1050	1030	588	481	461	368
15	300	407	1310	449	732	1070	1350	1040	600	423	435	420
16	305	373	1720	460	912	993	1560	872	725	387	414	437
17	309	613	1590	450	1020	1010	1530	758	805	386	421	445
18	295	847	1480	472	936	1020	1180	724	992	392	449	363
19	284	806	1610	458	957	1320	1180	778	1050	343	442	330
20	262	800	909	1190	1030	1700	870	780	685	316	434	320
21	252	859	755	3220	867	1360	780	811	618	300	427	318
22	258	705	853	2950	739	1220	970	755	745	338	406	304
23	279	475	910	3000	684	1160	975	683	840	343	401	331
24	318	724	852	2270	790	1210	849	666	844	329	427	323
25	330	845	830	1970	1060	1250	480	646	790	318	610	370
26	297	1110	700	2150	1190	1290	431	608	766	297	943	340
27	265	1270	653	2280	1300	1120	371	628	600	503	1050	320
28	277	1490	623	2810	1460	946	350	672	592	421	1230	331
29	286	1810	812	2640	---	889	419	655	569	388	1180	345
30	284	1660	944	1640	---	714	449	653	577	385	1050	341
31	300	---	1030	1170	---	884	---	638	---	391	673	---
TOTAL	9400	19076	34374	37400	29082	52706	30116	22882	21536	15111	16532	14610
MEAN	303	636	1109	1206	1039	1700	1004	738	718	487	533	487
MAX	347	1810	1720	3220	1740	3700	1560	1060	1050	746	1230	957
MIN	252	245	623	403	684	714	350	436	569	297	338	304
MEAN†	446	956	855	1305	1255	1522	1084	778	639	422	282	194
CFSM†	.86	1.83	1.64	2.50	2.41	2.92	2.08	1.49	1.23	.81	.54	.37
INT†	.99	2.05	1.89	2.89	2.51	3.37	2.32	1.72	1.37	.93	.62	.42

CAL YR 1986 TOTAL 193899 MEAN 531 MAX 1810 MIN 245 MEAN† 526 CFSM† 1.01 INT† 13.71
WTR YR 1987 TOTAL 302825 MEAN 830 MAX 3700 MIN 245 MEAN† 809 CFSM† 1.55 INT† 21.09

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

MOBILE RIVER BASIN

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02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.

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 October to November 1938, published in WSP 1304.

REVISED RECORDS.--WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 616.16 above ft National Geodetic Vertical Datum of 1929 (levels by U.S. Army 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-station 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.--Estimated daily discharges: Apr. 6-20. Records good. Flow regulated by Carters Lake and Carters Re-regulation Dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.

AVERAGE DISCHARGE.--49 years, 1,482 ft³/s, 24.22 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 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, 8,720 ft³/s, Mar. 1, gage height, 23.44 ft; minimum daily discharge, 307 ft³/s, Oct. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	387	2150	1390	1640	8350	1730	682	756	724	449	669
2	370	371	2240	1410	1580	5320	1920	600	802	684	403	679
3	379	336	2110	1330	1830	2960	1950	579	813	714	347	747
4	355	327	1990	739	2310	3700	1850	662	874	1020	393	769
5	348	350	1490	695	2390	3950	2000	733	834	978	365	797
6	377	422	1230	724	2320	4400	2200	704	827	876	411	762
7	379	523	1120	731	1780	3980	1900	798	821	947	464	735
8	381	1020	1050	732	1350	3840	1700	1030	797	885	442	802
9	394	643	1230	767	1280	3680	1600	1140	823	853	482	1060
10	365	529	2580	741	1560	3500	1600	1030	836	827	437	1070
11	355	770	2260	677	1520	3330	1500	955	842	739	436	675
12	362	966	2190	647	1480	3040	1400	1030	840	667	482	507
13	371	522	1880	640	1500	2670	1400	1190	867	661	513	488
14	528	637	1670	620	1450	1920	1500	1210	754	616	516	417
15	441	628	1560	675	1240	1520	1600	1280	791	515	466	464
16	386	590	2000	721	1400	1390	1800	1110	896	462	450	482
17	375	615	2090	707	1640	1370	2000	933	997	434	431	503
18	370	1080	1780	2650	1470	1420	1900	823	1060	448	471	452
19	348	1090	2000	5190	1420	2230	1600	899	1300	415	487	384
20	331	1310	1450	3570	1450	2540	1300	891	1160	386	463	368
21	308	1460	1060	4340	1400	2120	1030	943	854	345	454	385
22	307	1240	1030	4150	1270	1780	1140	874	859	375	441	329
23	316	910	1240	4090	1300	1610	1270	840	1050	396	422	362
24	357	1560	1470	3440	1240	1610	1170	769	1070	384	440	357
25	644	1720	1370	3820	1400	1630	797	762	1040	367	455	379
26	965	2300	1220	5790	1740	1680	652	706	943	358	974	401
27	540	2700	1040	4600	3460	1590	574	693	803	446	1030	369
28	426	1990	988	3920	5460	1410	544	773	703	479	1350	358
29	408	2390	982	3670	---	1310	535	742	682	424	1370	380
30	386	2160	1300	2760	---	1210	620	776	670	409	1210	385
31	371	---	1310	1880	---	1670	---	749	---	397	929	---
TOTAL	12623	31546	49080	67816	49880	82730	42782	26906	26364	18231	17983	16535
MEAN	407	1052	1593	2188	1781	2669	1426	868	879	588	580	551
MAX	965	2700	2580	5790	5460	8350	2200	1280	1300	1020	1370	1070
MIN	307	327	982	620	1240	1210	535	579	670	345	347	329

CAL YR 1986 TOTAL 268330 MEAN 735 MAX 2700 MIN 307 MEANT 730 CFSMT .88 INT 11.93
WTR YR 1987 TOTAL 442476 MEAN 1212 MAX 8350 MIN 307 MEANT 1191 CFSMT 1.43 INT 19.46

†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 upstream from confluence with Conasauga River, and 4.0 mi northeast of Calhoun.

DRAINAGE AREA.--861 mi².

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

REVISED RECORDS.--WDR GA-80-1: Drainage area.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
28...	1100	426	92	91	7.00	7.40	15.5	18.5	8.0	81
NOV										
24...	1100	1330	98	--	7.10	7.10	13.5	16.0	8.2	80
DEC										
29...	1100	895	88	82	7.20	7.10	9.0	7.0	10.2	89
JAN										
28...	1100	3830	58	58	7.20	7.00	4.0	4.0	11.2	86
FEB										
24...	1000	1230	87	83	7.50	7.60	6.5	5.5	11.5	95
MAR										
24...	1030	1620	69	68	7.40	7.30	11.5	14.0	9.5	89
APR										
29...	0945	524	98	105	7.50	7.40	15.5	20.0	8.6	87
MAY										
28...	0800	812	65	68	7.30	7.60	19.0	25.5	8.1	88
JUN										
24...	1130	1100	65	66	7.30	7.60	23.0	33.0	7.6	90
JUL										
28...	0910	470	55	52	7.10	7.10	25.0	26.0	6.9	85
AUG										
25...	0815	466	64	58	7.20	7.20	26.0	30.0	7.1	89
SEP										
22...	0800	338	61	62	7.40	7.20	21.0	15.5	7.6	87

DATE	TUR- BIO- IDY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC (MPN)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB 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										
28...	13	1.0	<3100	36	0	83	0.300	0.040	0.040	2.8
NOV										
24...	45	1.1	1700	42	10	32	0.250	0.080	0.070	5.6
DEC										
29...	380	3.6	1500	38	5	33	0.320	0.080	0.510	15
JAN										
28...	19	0.8	790	24	0	28	0.370	0.060	0.060	3.0
FEB										
24...	9.0	1.0	45	50	17	33	0.270	<0.020	<0.020	3.9
MAR										
24...	7.0	--	--	32	4	28	0.300	0.060	<0.020	<1.0
APR										
29...	5.0	0.5	50	46	7	39	0.370	0.040	0.040	6.5
MAY										
28...	10	1.0	110	--	--	24	0.190	<0.020	<0.020	2.3
JUN										
24...	19	1.4	130	20	0	23	0.250	0.070	0.030	2.1
JUL										
28...	3.0	1.5	--	90	--	17	0.200	0.220	0.030	1.4
AUG										
25...	6.0	0.9	70	24	4	20	0.200	0.040	<0.020	2.1
SEP										
22...	5.0	1.7	440	21	0	22	0.170	0.080	0.170	2.4

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 above 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.--Estimated daily discharges: Mar. 22 to Apr. 22. Records good, except those for the period Mar. 22 to Apr. 22, which are fair.

AVERAGE DISCHARGE.--6 years (1982-87), 436 ft³/s, 23.50 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,200 ft³/s, Mar. 17, 1973, gage height, 18.59 ft, present datum; minimum discharge, 26 ft³/s, Sept. 6, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Jan. 20	0200	*6,850	*13.19	Mar. 1	2100	5,620	12.54

Minimum discharge, 26 ft³/s, Sept. 6, gage height, 1.95 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	147	846	313	764	5290	420	226	185	127	50	29
2	49	135	1180	328	1310	3560	330	224	188	202	52	29
3	49	129	924	289	1960	1170	510	220	178	204	54	28
4	50	123	685	270	1150	872	440	216	261	216	55	29
5	47	122	534	258	871	715	390	208	212	313	55	27
6	45	130	444	246	723	625	350	197	167	238	60	32
7	44	173	390	236	643	554	320	190	150	202	61	43
8	43	250	408	230	577	538	290	182	140	166	88	41
9	48	287	894	219	518	890	270	173	130	141	84	51
10	69	253	2320	226	461	845	260	169	124	128	71	45
11	92	235	2180	238	435	664	240	164	119	128	64	39
12	74	531	1190	214	419	604	230	162	116	119	61	36
13	95	443	847	203	397	554	300	162	120	112	57	49
14	455	315	657	199	385	495	450	193	122	106	51	78
15	353	290	558	214	458	461	600	192	147	104	48	60
16	183	288	490	230	1110	434	550	205	130	99	45	46
17	131	257	439	239	910	414	510	231	148	93	44	43
18	109	236	421	1160	629	421	460	180	153	88	47	45
19	96	212	387	4950	525	806	430	165	150	84	99	41
20	87	403	347	5520	452	629	400	165	141	81	62	42
21	81	654	320	1350	430	534	370	163	182	78	50	43
22	77	450	298	921	538	450	350	238	216	75	44	43
23	75	865	324	853	1520	370	337	214	176	74	40	38
24	74	2590	951	665	990	370	314	198	148	72	36	33
25	609	2300	645	1370	717	360	301	228	172	69	34	30
26	1510	2270	513	3170	666	320	285	191	288	65	33	30
27	529	2370	446	1500	2570	290	268	167	307	62	33	29
28	319	941	397	984	4590	310	254	199	187	59	31	27
29	232	677	359	817	---	370	240	321	147	57	30	28
30	187	542	337	768	---	650	232	240	128	54	30	71
31	163	---	315	898	---	520	---	206	---	51	28	---
TOTAL	6026	18618	21046	29078	26718	25085	10701	6189	5032	3667	1597	1205
MEAN	194	621	679	938	954	809	357	200	168	118	51.5	40.2
MAX	1510	2590	2320	5520	4590	5290	600	321	307	313	99	78
MIN	43	122	298	199	385	290	230	162	116	51	28	27
CFSM	.77	2.46	2.69	3.72	3.79	3.21	1.42	.79	.67	.47	.20	.16
IN.	.89	2.75	3.11	4.29	3.94	3.70	1.58	.91	.74	.54	.24	.18

CAL YR 1986	TOTAL	91978	MEAN 252	MAX 2590	MIN 29	CFSM 1.00	IN 13.58
WTR YR 1987	TOTAL	154962	MEAN 425	MAX 5520	MIN 27	CFSM 1.69	IN 22.88

MOBILE RIVER BASIN

02384540 MILL CREEK NEAR CRANDALL, GA.

LOCATION.--Lat 34°52'19", long 84°43'17", Murray County, Hydrologic Unit 03150101, on right bank 100 ft south of Forest Service Road 630, 2.1 mi from Crandall, 1.3 mi upstream from Cohorn Creek, and 1.4 mi northeast of Crandall.
DRAINAGE AREA.--8.27 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is 888.98 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good, except those for the period May 13 to June 10, which were affected by beaverdams and those less than 2.0 ft³/s, which are fair.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 305 ft³/s, Feb. 28, 1987, gage height, 3.60 ft; minimum daily discharge, 0.69 ft³/s, July 23, 1986.EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 28	1930	*305	*3.60

Minimum daily discharge, 0.89 ft³/s, Sept. 4.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	8.0	29	13	25	139	16	8.5	13	23	2.6	1.5
2	2.6	7.3	36	12	60	65	14	8.3	11	20	2.4	1.1
3	2.5	6.9	32	11	61	43	17	8.2	10	19	2.3	.94
4	2.4	6.4	25	10	40	32	15	7.6	24	26	3.5	.89
5	2.4	8.0	20	9.9	30	27	15	7.2	15	23	3.5	.97
6	2.2	10	17	9.4	25	23	17	6.9	12	20	3.3	2.3
7	2.0	15	15	9.0	22	21	23	6.6	10	16	5.2	3.4
8	2.1	22	26	8.7	19	22	24	6.1	8.9	13	3.2	2.2
9	5.6	18	55	8.5	17	37	23	5.8	8.1	11	2.9	1.8
10	5.2	14	123	9.8	15	40	20	5.6	7.7	10	3.2	1.5
11	3.6	25	69	8.6	14	31	18	5.6	6.9	9.5	3.3	1.6
12	4.3	40	45	7.9	14	25	15	7.2	6.4	8.4	2.4	4.1
13	37	25	32	7.7	13	22	14	7.7	7.7	7.5	2.2	3.9
14	54	18	25	7.6	14	20	19	6.0	8.0	7.1	1.9	2.3
15	21	18	22	9.0	13	18	58	6.1	7.4	6.3	1.8	1.8
16	13	15	19	8.6	22	17	41	7.0	9.1	5.6	1.9	1.6
17	9.9	14	17	8.8	19	16	37	7.1	10	5.4	1.8	1.6
18	7.8	13	17	83	18	18	30	7.0	20	4.8	2.9	1.4
19	6.4	12	14	167	19	22	24	6.1	14	4.6	3.3	1.7
20	5.5	26	13	65	26	21	20	5.4	24	4.3	2.0	2.2
21	4.9	30	12	47	26	19	17	7.2	21	4.2	1.6	1.5
22	4.5	22	11	50	34	18	16	8.1	17	4.0	1.4	1.3
23	4.3	49	14	36	57	16	14	7.0	14	3.8	1.3	1.2
24	4.5	124	20	20	40	18	13	6.9	12	3.5	1.3	1.1
25	62	75	20	73	30	17	12	7.6	11	3.3	1.3	1.1
26	36	116	19	76	30	16	11	8.5	84	3.2	1.3	.99
27	21	69	17	41	105	15	10	9.1	29	3.0	1.2	.93
28	15	40	16	30	166	15	9.8	26	19	2.8	1.2	.96
29	12	27	14	24	---	14	9.2	36	15	2.7	1.4	1.0
30	10	23	14	28	---	18	9.0	25	12	2.5	1.1	2.9
31	8.7	---	12	29	---	18	---	18	---	2.5	1.2	---
TOTAL	375.1	896.6	820	928.5	974	843	581.0	295.4	467.2	280.0	69.9	51.78
MEAN	12.1	29.9	26.5	30.0	34.8	27.2	19.4	9.53	15.6	9.03	2.25	1.73
MAX	62	124	123	167	166	139	58	36	84	26	5.2	4.1
MIN	2.0	6.4	11	7.6	13	14	9.0	5.4	6.4	2.5	1.1	.89
CFSM	1.46	3.62	3.20	3.63	4.21	3.29	2.35	1.15	1.89	1.09	.27	.21
IN.	1.69	4.03	3.69	4.18	4.38	3.79	2.61	1.33	2.10	1.26	.31	.23

CAL YR 1986	TOTAL	4200.42	MEAN	11.5	MAX	124	MIN	.69	CFSM	1.39	IN	18.89
WTR YR 1987	TOTAL	6582.48	MEAN	18.0	MAX	167	MIN	.89	CFSM	2.18	IN	29.61

02384540 MILL CREEK NEAR CRANDALL, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1985 to March 1987 (discontinued).

pH: March 1985 to March 1987 (discontinued).

WATER TEMPERATURE: March 1985 to March 1987 (discontinued).

DISSOLVED OXYGEN: March 1985 to March 1987 (discontinued).

INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.

REMARKS.--Collection of continuous water-quality data at this site began March 27, 1985. Unpublished records for the period March 27-31, 1985 are available from the Georgia District files or the National files.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 137 microsiemens Oct. 8, 1985; minimum recorded, 14 microsiemens Dec. 10, 1985.

pH: Maximum recorded, 8.70 units June 14, 1985; minimum recorded, 5.90 units Sept. 5, 1985.

WATER TEMPERATURE: Maximum recorded, 25.0°C June 28, July 10, 26, 27, 29, 1986; minimum recorded, 0.5°C Dec. 21, 22, 25, 26, 27, 29, 30, 1985.

DISSOLVED OXYGEN: Maximum recorded, 14.5 mg/L Jan. 9, 1986; minimum recorded, 5.0 mg/L Sept. 27, 1985.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 39 microsiemens Nov. 20; minimum recorded, 20 microsiemens on many days in Oct., Jan., Feb., Mar.

pH: Maximum recorded, 7.39 units Nov. 8; minimum recorded, 6.15 units Oct. 13.

WATER TEMPERATURE: Maximum recorded, 22.5°C Oct. 1, 2; minimum recorded, 2.0°C Dec. 27.

DISSOLVED OXYGEN: Maximum recorded, 13.3 mg/L Feb. 10; minimum recorded, 7.9 mg/L Oct. 3, 5.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	38	27	29	24	30	28	27	26	25	24	29	21
2	36	27	27	25	30	27	27	26	27	24	28	21
3	36	27	27	25	28	26	30	26	24	24	29	21
4	35	26	27	25	27	26	27	25	25	24	29	21
5	37	27	30	26	27	26	27	25	25	24	29	21
6	32	27	31	27	27	26	27	25	25	24	26	20
7	36	26	30	26	27	26	28	25	25	22	26	22
8	35	26	28	24	28	26	29	27	27	21	26	24
9	36	28	25	24	29	24	29	26	28	21	27	26
10	34	28	25	24	27	25	29	28	26	21	28	23
11	36	28	29	23	26	25	29	27	29	21	29	24
12	37	27	30	24	26	25	30	27	26	25	29	22
13	33	22	29	24	26	25	29	29	29	21	27	22
14	26	21	27	25	26	25	30	28	25	22	27	22
15	22	20	28	24	26	25	31	29	25	23	29	22
16	22	20	26	24	26	25	---	---	26	23	29	21
17	23	20	31	25	26	25	---	---	29	21	25	22
18	24	20	34	25	27	26	---	---	29	21	28	24
19	25	21	37	27	27	26	---	---	30	20	27	23
20	24	21	39	30	27	26	---	---	29	21	27	24
21	25	22	30	27	27	25	---	---	29	20	28	20
22	26	21	30	27	27	26	---	---	29	20	27	21
23	27	23	31	25	30	26	---	---	28	20	29	23
24	27	23	31	23	29	27	---	---	28	21	29	27
25	30	22	25	23	28	26	31	25	29	21	28	27
26	23	22	27	24	28	27	27	20	28	21	29	27
27	23	22	27	25	28	27	26	20	29	21	---	---
28	25	23	26	25	28	27	26	25	29	20	---	---
29	25	23	27	26	28	27	26	25	---	---	---	---
30	25	23	28	26	29	26	27	24	---	---	---	---
31	26	24	---	---	27	26	24	23	---	---	---	---
MONTH	38	20	39	23	30	24	31	20	30	20	29	20

MOBILE RIVER BASIN

02384540 MILL CREEK NEAR CRANDALL, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.91	6.79	7.05	6.81	7.20	7.12	6.83	6.70	6.81	6.68	6.71	6.58
2	6.87	6.79	7.08	6.92	7.14	7.04	6.76	6.64	7.01	6.67	6.78	6.66
3	6.98	6.69	7.17	6.82	7.06	7.00	6.69	6.59	6.75	6.64	6.84	6.64
4	6.75	6.54	6.87	6.56	7.00	6.92	6.69	6.57	6.76	6.68	6.80	6.71
5	7.06	6.49	7.06	6.64	6.96	6.86	6.60	6.52	6.86	6.70	6.86	6.70
6	7.09	7.00	7.01	6.81	6.88	6.82	6.59	6.41	6.90	6.79	6.87	6.73
7	7.05	7.00	7.26	6.92	6.86	6.78	6.70	6.56	6.90	6.81	6.94	6.75
8	6.96	6.92	7.39	7.06	6.95	6.78	6.71	6.54	6.89	6.79	6.94	6.83
9	6.85	6.78	7.06	6.77	6.99	6.70	6.74	6.60	6.80	6.70	6.92	6.81
10	6.87	6.80	6.75	6.67	6.63	6.47	6.76	6.63	6.76	6.61	6.81	6.69
11	6.91	6.78	6.80	6.75	6.63	6.53	6.75	6.52	6.95	6.61	6.74	6.60
12	6.85	6.80	7.04	6.79	6.69	6.62	6.71	6.42	6.98	6.82	6.76	6.63
13	6.85	6.15	7.05	6.85	6.65	6.60	6.82	6.62	7.00	6.82	6.79	6.67
14	6.73	6.20	7.13	7.00	6.69	6.60	6.83	6.65	6.89	6.82	6.83	6.71
15	6.83	6.73	7.00	6.92	6.84	6.68	6.84	6.70	6.94	6.83	6.90	6.72
16	6.85	6.76	6.94	6.83	6.81	6.73	---	---	7.00	6.80	6.95	6.78
17	6.85	6.79	7.04	6.90	6.90	6.75	---	---	6.78	6.62	7.02	6.79
18	6.84	6.80	6.83	6.66	6.95	6.83	---	---	6.72	6.60	6.92	6.72
19	6.82	6.78	6.71	6.58	6.86	6.78	---	---	6.75	6.64	6.95	6.74
20	6.79	6.75	6.87	6.55	6.85	6.77	---	---	6.74	6.61	6.96	6.78
21	6.77	6.73	6.90	6.48	6.84	6.77	---	---	6.83	6.70	6.98	6.76
22	6.80	6.77	6.96	6.56	6.86	6.75	---	---	6.89	6.76	6.98	6.78
23	6.84	6.81	6.76	6.33	7.00	6.78	---	---	6.86	6.67	7.06	6.82
24	6.87	6.84	6.86	6.34	6.97	6.88	---	---	6.78	6.68	6.99	6.90
25	6.84	6.64	6.94	6.76	6.88	6.74	6.94	6.75	6.86	6.74	7.08	6.90
26	6.82	6.73	7.02	6.79	6.80	6.73	6.74	6.68	6.82	6.71	7.07	6.90
27	6.76	6.66	6.91	6.80	6.80	6.73	6.70	6.64	6.82	6.66	7.06	6.91
28	6.72	6.62	6.99	6.88	6.81	6.71	6.80	6.70	6.86	6.61	7.08	6.90
29	6.80	6.60	7.09	6.94	6.76	6.68	6.79	6.76	---	---	7.09	6.90
30	6.87	6.76	7.26	6.99	6.87	6.66	6.92	6.78	---	---	7.07	6.90
31	6.91	6.74	---	---	6.82	6.71	6.80	6.69	---	---	7.04	6.83
MONTH	7.09	6.15	7.39	6.33	7.20	6.47	6.94	6.41	7.01	6.60	7.09	6.58

MOBILE RIVER BASIN

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02384540 MILL CREEK NEAR CRANDALL, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

MOBILE RIVER BASIN

02384540 MILL CREEK NEAR CRANDALL, GA.--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.2	8.2	10.0	9.3	10.2	9.8	12.6	11.7	12.3	11.0	11.1	10.6
2	9.3	8.2	10.2	9.5	10.5	10.2	12.2	11.3	11.1	10.8	11.4	10.9
3	9.3	7.9	10.2	9.6	11.4	10.3	11.8	11.4	11.1	10.8	11.7	10.9
4	9.3	8.1	10.0	9.3	12.1	11.3	11.9	11.3	11.7	11.0	11.8	11.2
5	9.2	7.9	9.4	9.1	12.5	12.0	11.8	11.4	11.8	11.2	12.0	11.1
6	10.0	8.3	9.5	9.1	12.9	12.1	11.9	11.7	11.6	11.4	11.9	10.9
7	10.6	9.1	9.4	9.2	13.0	11.6	12.2	11.1	11.6	11.2	11.7	10.6
8	10.7	9.6	9.1	8.7	11.6	10.3	12.1	11.0	12.0	11.4	10.8	10.3
9	9.8	9.3	9.4	8.7	10.5	9.7	12.2	11.1	12.9	12.0	10.6	10.4
10	9.6	9.3	10.2	9.4	10.5	9.7	11.9	11.0	13.3	12.4	11.5	10.7
11	9.8	9.0	9.8	9.6	10.6	10.0	12.6	11.4	12.9	11.6	11.9	11.5
12	9.7	8.9	10.2	9.8	11.3	10.3	12.8	11.5	11.6	10.9	12.1	11.5
13	9.3	9.0	11.8	10.2	12.2	11.3	12.4	11.9	11.8	11.2	12.2	11.3
14	9.9	9.1	12.6	11.8	12.6	11.8	11.6	10.8	11.9	11.3	12.1	11.0
15	10.3	9.7	11.9	11.2	11.8	11.0	11.3	10.8	11.5	10.8	11.2	10.7
16	10.7	10.2	11.1	10.1	11.6	10.9	---	---	11.4	10.9	11.1	10.6
17	11.1	10.2	10.1	9.4	11.2	10.4	---	---	11.9	11.4	11.1	10.4
18	11.0	10.2	9.8	9.2	11.3	10.5	---	---	11.9	11.6	10.8	10.5
19	11.0	10.1	10.6	9.6	12.1	11.5	---	---	12.2	11.8	11.0	10.4
20	11.3	10.4	10.4	10.2	12.1	11.5	---	---	12.5	11.8	11.0	10.2
21	11.3	10.4	11.2	10.5	12.3	11.7	---	---	12.0	11.5	11.0	10.2
22	11.4	10.3	12.0	11.0	12.3	11.4	---	---	11.7	11.3	11.0	10.1
23	11.2	10.2	11.0	10.3	12.2	10.8	---	---	11.9	11.5	10.7	9.7
24	10.6	9.6	10.5	10.1	11.6	10.7	---	---	12.2	11.6	10.4	10.0
25	9.8	9.5	10.3	9.6	11.5	10.9	12.3	11.6	11.8	10.9	10.2	9.4
26	9.8	9.6	10.2	9.5	11.7	10.9	12.6	11.7	11.4	11.2	10.4	9.7
27	10.1	9.8	10.6	10.2	11.7	11.0	13.2	12.6	11.3	11.0	10.4	9.7
28	10.6	10.0	10.7	10.3	11.8	11.0	12.7	12.2	11.1	10.5	10.2	9.4
29	10.7	10.0	10.7	10.0	11.9	11.3	12.6	11.3	---	---	10.0	9.2
30	10.7	9.8	10.2	9.6	12.6	11.9	11.5	11.0	---	---	10.1	9.4
31	10.6	9.8	---	---	12.9	12.1	12.2	11.4	---	---	11.4	10.5
MONTH	11.4	7.9	12.6	8.7	13.0	9.7	13.2	10.8	13.3	10.5	12.2	9.2

MOBILE RIVER BASIN

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02384748 CONASAUGA RIVER NEAR DALTON, GA.

LOCATION.--Lat 34°47'20", long 84°52'30", Whitfield-Murray County line, Hydrologic Unit 03150101, at Dalton waterworks 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 28...	1400	300	66	66	7.30	7.20	16.5	19.0	7.6	79
NOV 24...	1400	2300	74	74	7.20	6.90	14.0	16.0	8.8	87
DEC 29...	1330	370	112	109	7.30	7.50	7.0	4.5	10.4	87
JAN 28...	1400	960	85	84	7.40	7.40	3.5	5.0	12.2	93
FEB 24...	1300	1020	75	73	7.40	7.40	6.5	13.0	11.0	91
MAR 24...	1430	390	107	99	7.40	7.50	13.0	12.0	9.2	90
APR 29...	1245	--	106	113	7.50	7.60	17.5	28.5	7.9	84
MAY 28...	1030	92	110	118	7.60	7.60	23.0	31.0	6.5	77
JUN 24...	0830	64	100	99	7.30	7.60	24.5	28.5	6.6	81
JUL 28...	1130	--	130	122	7.60	7.50	28.0	32.0	6.3	82
AUG 25...	1145	--	139	141	7.60	7.60	26.0	30.0	6.7	84
SEP 22...	1100	--	143	146	7.60	7.50	21.5	24.0	6.8	78

DATE	TUR- BID- ITY (NTU)	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 NONCARB WH WAT TOT LAB MG/L AS CAC03	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)
OCT 28...	13	8	0.9	<4900	30	5	25	20	0.100	<0.020
NOV 24...	78	29	1.4	49000	32	8	24	139	0.100	0.070
DEC 29...	5.0	6	1.5	110	60	10	50	<1	0.370	0.050
JAN 28...	8.0	8	1.0	130	40	8	32	9	0.390	<0.020
FEB 24...	15	7	0.8	220	36	5	31	26	0.160	<0.020
MAR 24...	5.0	4	--	--	58	13	45	11	0.280	<0.020
APR 29...	4.0	4	0.9	40	--	--	47	12	0.270	0.030
MAY 28...	18	7	1.2	130	--	--	50	31	0.190	<0.020
JUN 24...	12	8	1.4	170	42	1	41	23	0.240	0.120
JUL 28...	5.0	7	1.6	--	60	2	58	16	0.090	0.050
AUG 25...	10	--	1.0	80	63	0	63	15	0.050	0.040
SEP 22...	14	--	2.0	220	69	2	67	22	0.160	0.090

MOBILE RIVER BASIN

02384748 CONASAUGA RIVER NEAR DALTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
28...	--	0.30	0.40	0.040	2.7
NOV					
24...	0.23	0.30	0.40	0.150	11
DEC					
29...	0.05	0.10	0.47	<0.020	2.3
JAN					
28...	--	<0.10	--	<0.020	3.2
FEB					
24...	--	0.10	0.26	0.060	4.4
MAR					
24...	--	0.30	0.58	<0.020	<1.0
APR					
29...	0.77	0.80	1.1	<0.020	2.3
MAY					
28...	--	0.50	0.69	0.030	5.2
JUN					
24...	0.28	0.40	0.64	0.040	2.4
JUL					
28...	0.25	0.30	0.39	0.030	4.7
AUG					
25...	--	--	--	0.030	1.7
SEP					
22...	--	--	--	0.200	3.6

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 48, 3 mi upstream from Rock Creek, and 3.3 mi south of Chatsworth.

DRAINAGE AREA.--64.0 mi².

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

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 690 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. 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.--27 years, 120 ft³/s, 25.46 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft³/s, Mar. 4, 1979, gage height, 12.54 ft; minimum daily discharge, 1.5 ft³/s, Sept. 14, 16, 17, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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. 19	1000	*2,370	*9.14	Mar. 1	0800	2,310	9.09

Minimum daily discharge, 2.0 ft³/s, Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	29	229	63	105	1780	106	44	57	63	7.9	3.5
2	6.6	27	258	59	331	653	95	45	55	72	7.7	4.2
3	7.1	24	175	51	342	329	111	43	49	63	7.6	3.8
4	7.2	23	123	48	203	226	133	42	442	262	9.0	2.6
5	6.0	29	96	46	147	178	133	42	120	137	12	2.2
6	5.7	34	81	43	120	151	115	36	76	99	12	9.0
7	5.5	78	72	41	109	133	111	34	58	81	35	23
8	5.2	108	105	40	96	140	106	32	48	60	15	8.8
9	7.7	66	232	39	84	402	98	30	43	51	13	6.3
10	21	50	918	46	76	307	90	28	39	44	11	4.7
11	13	116	582	42	72	193	84	27	36	41	31	4.0
12	9.5	194	276	38	71	171	79	27	33	39	13	11
13	130	96	168	37	66	150	75	30	37	32	11	23
14	283	67	124	36	70	132	101	39	47	31	8.1	12
15	65	67	105	47	78	121	228	33	51	28	7.0	8.5
16	37	61	91	44	202	112	172	54	53	23	6.9	5.2
17	27	56	82	43	123	105	181	35	54	21	7.4	4.6
18	23	51	85	613	97	122	142	29	73	19	7.8	4.4
19	19	45	73	1940	84	265	113	41	52	17	8.0	4.8
20	17	219	64	705	75	168	95	39	64	17	7.4	6.2
21	17	226	59	252	74	137	84	30	53	14	5.0	5.9
22	16	108	54	202	168	119	76	54	48	14	4.4	3.6
23	16	243	76	171	357	106	70	58	50	13	3.9	3.4
24	15	898	238	129	175	100	65	82	52	12	4.3	2.7
25	415	764	127	616	128	105	61	50	50	10	3.8	2.7
26	327	792	94	1140	185	92	57	43	67	9.5	3.4	2.6
27	84	652	80	395	814	87	55	36	61	9.1	3.8	2.6
28	53	217	71	215	1300	85	53	47	43	8.6	3.7	2.3
29	41	136	65	157	---	79	47	51	35	7.8	3.2	2.0
30	34	106	60	140	---	114	46	57	29	8.0	3.2	2.3
31	31	---	56	119	---	169	---	97	---	6.4	3.3	---
TOTAL	1751.4	5582	4919	7557	5752	7031	2982	1335	1975	1312.4	279.8	181.9
MEAN	56.5	186	159	244	205	227	99.4	43.1	65.8	42.3	9.03	6.06
MAX	415	898	918	1940	1300	1780	228	97	442	262	35	23
MIN	5.2	23	54	36	66	79	46	27	29	6.4	3.2	2.0
CFSM	.88	2.91	2.48	3.81	3.20	3.55	1.55	.67	1.03	.66	.14	.10
IN.	1.02	3.24	2.86	4.39	3.34	4.09	1.73	.78	1.15	.76	.16	.11
CAL YR 1986	TOTAL	23683.7	MEAN	64.9	MAX	1040	MIN	1.6	CFSM	1.01	IN	13.77
WTR YR 1987	TOTAL	40658.5	MEAN	111	MAX	1940	MIN	2.0	CFSM	1.73	IN	23.63

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.

LOCATION.--Lat 34°40'00", long 84°55'42", Whitfield-Murray County line, Hydrologic Unit 03150101, on left bank 250 ft downstream from Tilton Road 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

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

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 622.28 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 24, 1940, nonrecording gage at site 150 ft upstream at same datum. Since Oct. 1, 1979, auxiliary water-stage recorder at Sloan Road bridge, 3.2 mi downstream. Water-stage recorder on Oostanaula River at Resaca used as auxiliary gage during 1961-79 water years.

REMARKS.--Estimated daily discharges: Apr. 19-23. Records good. Flow affected by withdrawals and return flow by the city of Dalton, Ga.

AVERAGE DISCHARGE.--50 years, 1,199 ft³/s, 23.70 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s, Mar. 30, 1951, gage height, 30.2 ft backwater from the Coosawattee River; minimum daily discharge, 12 ft³/s, July 24, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Nov. 26	1300	7,030	15.54	Jan. 27	1500	6,880	15.65
Dec. 12	0100	5,500	13.18	Mar. 2	2000	*11,500	*20.50
Jan. 21	1500	9,830	19.08				

Minimum daily discharge, 20 ft³/s, Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	274	1510	721	1530	9860	1520	486	468	261	45	29
2	53	253	2420	757	1840	11300	1160	470	332	380	39	23
3	43	242	2360	706	3690	10400	1130	476	314	383	62	20
4	41	221	1700	627	3470	4630	1510	486	418	434	63	25
5	44	210	1260	588	2020	2080	1480	511	797	640	64	34
6	54	241	1020	555	1550	1710	1300	483	422	564	79	37
7	64	308	881	545	1330	1510	1160	419	315	427	66	60
8	56	525	814	504	1170	1440	1150	396	278	344	139	129
9	67	523	1240	480	1030	2040	1110	370	223	288	207	125
10	112	473	3780	469	894	2880	1030	352	200	241	144	113
11	91	451	5210	501	813	2080	948	353	186	217	103	83
12	131	898	4690	507	772	1670	873	312	175	435	87	71
13	418	984	2420	427	739	1540	825	322	177	233	77	80
14	1140	686	1620	401	714	1380	860	350	207	180	66	98
15	1130	532	1300	420	793	1250	1030	416	228	158	53	80
16	594	510	1120	466	1910	1180	1650	386	244	150	46	75
17	387	503	968	466	2870	1100	1600	475	271	133	65	60
18	237	449	988	2100	1890	1140	1460	415	259	121	64	54
19	188	403	933	6700	1270	2090	1250	312	526	125	50	52
20	175	673	812	8490	1050	2310	1100	330	353	132	80	53
21	158	1510	724	9660	953	1640	980	298	361	107	91	64
22	138	1320	667	6630	1060	1360	860	272	377	93	63	69
23	133	1190	672	2690	2610	1200	760	373	628	84	56	52
24	132	3920	2440	1940	3250	1080	705	484	382	80	80	40
25	1280	5290	2980	3120	1930	1120	651	434	526	77	70	43
26	2930	6540	1700	6110	1570	1070	619	410	328	72	54	83
27	2180	6600	1210	6740	4690	969	594	321	498	86	36	81
28	823	6160	1020	4130	7460	909	568	302	450	76	33	80
29	505	2630	906	2140	---	976	530	393	318	56	28	89
30	398	1450	794	1730	---	1310	501	473	260	57	22	86
31	327	---	754	1630	---	1840	---	406	---	55	22	---
TOTAL	14090	45969	50913	72950	54868	77064	30914	12286	10521	6689	2154	1988
MEAN	455	1532	1642	2353	1960	2486	1030	396	351	216	69.5	66.3
MAX	2930	6600	5210	9660	7460	11300	1650	511	797	640	207	129
MIN	41	210	667	401	714	909	501	272	175	55	22	20
CFSM	.66	2.23	2.39	3.43	2.85	3.62	1.50	.58	.51	.31	.10	.10
IN.	.76	2.49	2.76	3.95	2.97	4.17	1.67	.67	.57	.36	.12	.11
CAL YR 1986	TOTAL	223727	MEAN	613	MAX	6600	MIN 12	CFSM .89	IN 12.11			
WTR YR 1987	TOTAL	380406	MEAN	1042	MAX	11300	MIN 20	CFSM 1.52	IN 20.60			

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 TEMPERATURE: October 1975 to current year.

DISSOLVED OXYGEN: October 1975 to current year.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 623 microsiemens Sept. 26, 1981; minimum recorded, 34 microsiemens Mar. 23, 1980.

pH: Maximum recorded, 9.01 units July 29, 30 1987; minimum recorded, 6.30 units July 5, 6, 1976.

WATER TEMPERATURE: Maximum recorded, 33.0°C July 21, 1986; minimum recorded, 0.0°C Dec. 19, 20, 1981.

DISSOLVED OXYGEN: Maximum recorded, 15.3 mg/L Sept. 7, 1987; minimum recorded, 0.2 mg/L May 13, 1987.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 613 microsiemens Sept. 30; minimum, 55 microsiemens Mar. 3.

pH: Maximum, 9.01 units July 29, 30; minimum, 6.67 units Jan. 28.

WATER TEMPERATURE: Maximum, 32.0°C July 28, 29, Aug. 2; minimum, 3.0°C Jan. 27.

DISSOLVED OXYGEN: Maximum, 15.3 mg/L Sept. 7; minimum, 0.2 mg/L May 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
28...	1245	785	165	155	7.20	7.30	16.0	20.0	7.6	78
NOV										
24...	1245	4080	118	116	7.30	7.10	12.0	16.5	9.4	89
DEC										
29...	1230	900	172	159	7.40	7.40	7.0	4.0	10.6	88
JAN										
28...	1245	3780	88	89	7.10	7.10	3.5	4.5	10.8	82
FEB										
24...	1130	3380	112	110	7.30	7.60	8.0	10.0	10.9	93
MAR										
24...	1230	1060	147	137	7.40	7.20	14.0	13.0	7.9	79
APR										
29...	1130	527	181	191	7.10	7.20	19.0	27.5	5.6	61
MAY										
28...	0945	275	143	153	7.40	7.30	24.5	28.5	1.8	22
JUN										
24...	0915	384	148	145	7.30	7.40	24.5	29.5	4.9	60
JUL										
28...	1025	78	235	222	7.30	7.50	29.5	30.5	5.4	72
AUG										
25...	1030	63	230	234	7.50	7.50	27.0	30.0	5.1	65
SEP										
22...	0950	71	380	370	7.50	7.40	22.0	20.0	4.1	48

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TUR- BID- ITY (NTU)	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 NONCARB WH WAT TOT LAB MG/L AS CAC03	ALKA- LINITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)
OCT								
28...	32	33	1.5	<13000	50	9	41	47
NOV								
24...	120	33	1.3	7000	48	8	40	260
DEC								
29...	10	15	2.0	1100	76	15	61	8
JAN								
28...	17	18	1.3	3300	40	8	32	17
FEB								
24...	45	13	1.5	4900	60	17	43	77
MAR								
24...	10	12	--	--	60	8	52	19
APR								
29...	8.0	27	1.4	110	66	5	61	18
MAY								
28...	5.0	13	1.3	140	68	7	61	<1
JUN								
24...	36	23	3.0	7900	60	7	53	47
JUL								
28...	5.0	18	4.2	--	90	10	80	22
AUG								
25...	9.0	15	1.9	110	--	--	81	9
SEP								
22...	7.0	49	5.0	130	100	5	100	9

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
28...	0.320	0.610	0.59	1.2	1.5	1.68	11
NOV							
24...	0.260	0.170	0.33	0.50	0.76	0.360	13
DEC							
29...	0.610	0.540	0.16	0.70	1.3	0.880	3.7
JAN							
28...	0.380	0.070	0.63	0.70	1.1	0.230	4.2
FEB							
24...	0.240	<0.020	--	0.40	0.64	0.360	7.1
MAR							
24...	0.270	0.120	0.68	0.80	1.1	0.440	3.9
APR							
29...	0.420	0.310	1.8	2.1	2.5	1.41	20
MAY							
28...	0.250	0.270	0.13	0.40	0.65	0.320	4.5
JUN							
24...	0.550	0.290	0.81	1.1	1.6	0.650	7.8
JUL							
28...	0.610	0.370	0.93	1.3	1.9	1.54	8.3
AUG							
25...	0.680	0.130	1.1	1.2	1.9	0.880	3.7
SEP							
22...	0.120	2.36	0.24	2.6	2.7	2.95	16

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	233	229	201	185	170	153	208	195	133	119	72	61
2	241	233	199	174	165	151	202	197	145	120	60	56
3	246	241	190	171	152	144	208	198	131	102	73	55
4	253	247	247	192	159	148	212	207	108	101	103	75
5	257	254	265	247	172	160	214	203	121	108	121	104
6	261	257	285	265	177	171	232	217	133	119	127	121
7	277	261	272	247	183	177	249	232	136	131	130	123
8	285	277	271	183	180	169	249	228	139	134	131	125
9	284	261	190	165	176	148	245	233	149	137	136	129
10	374	266	191	177	155	127	240	227	157	150	129	121
11	441	382	179	169	124	102	238	218	164	159	130	125
12	466	344	208	157	128	102	235	229	169	162	133	127
13	334	185	---	---	143	128	242	218	171	162	138	131
14	288	197	---	---	154	143	227	219	172	161	142	136
15	202	176	---	---	169	153	228	217	169	147	142	131
16	229	201	---	---	179	169	220	206	165	138	142	132
17	274	231	177	168	187	178	210	193	140	130	158	144
18	266	203	179	169	190	180	218	125	139	134	175	156
19	206	201	190	177	193	187	124	84	143	137	173	144
20	203	180	201	167	196	193	83	73	151	144	147	142
21	264	188	194	166	197	193	81	68	155	147	144	136
22	308	266	194	174	203	195	117	82	148	142	139	132
23	335	311	190	146	205	187	125	116	154	130	148	133
24	338	319	149	119	195	141	134	123	129	113	153	145
25	316	139	118	99	153	141	135	112	117	111	165	154
26	160	93	104	96	157	151	112	88	136	116	169	160
27	146	93	104	90	169	157	93	83	133	96	167	162
28	170	145	112	88	176	168	111	95	98	69	167	154
29	162	147	136	111	190	178	126	111	---	---	161	146
30	184	162	152	137	193	180	137	127	---	---	170	150
31	200	172	---	---	207	190	142	134	---	---	165	140
MONTH	466	93	285	88	207	102	249	68	172	69	175	55
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	176	147	212	204	151	120	139	117	350	329	286	267
2	175	163	210	198	151	143	176	126	363	343	266	262
3	163	144	197	167	149	142	139	128	374	335	263	256
4	156	133	190	166	161	122	127	121	334	281	260	257
5	152	131	222	191	118	102	122	98	278	238	266	261

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.59	7.41	7.27	7.25	7.25	7.23	7.48	7.43	7.51	7.36	---	---
2	7.66	7.42	7.31	7.26	7.24	7.19	7.49	7.46	7.57	7.43	---	---
3	7.81	7.50	7.35	7.31	7.21	7.17	7.47	7.43	7.49	7.25	---	---
4	7.86	7.52	7.34	7.21	7.23	7.19	7.46	7.44	7.26	7.16	---	---
5	7.82	7.51	7.25	7.21	7.30	7.24	7.45	7.41	7.42	7.25	7.47	7.27
6	7.71	7.50	7.22	7.17	7.34	7.29	7.36	7.28	7.51	7.40	7.52	7.42
7	7.63	7.50	7.25	7.19	7.40	7.35	7.35	7.33	7.57	7.47	7.51	7.46
8	7.69	7.50	7.23	7.17	7.42	7.37	7.37	7.35	7.61	7.50	7.48	7.46
9	7.59	7.50	7.26	7.16	7.41	7.34	7.39	7.36	7.54	7.43	7.46	7.39
10	7.61	7.57	7.27	7.25	7.35	7.15	7.40	7.37	7.57	7.40	7.38	7.36
11	7.64	7.48	7.32	7.27	7.14	7.05	7.83	7.43	7.55	7.42	7.39	7.34
12	7.54	7.43	7.29	7.23	7.14	7.07	7.59	7.54	7.52	7.44	7.39	7.34
13	7.56	7.42	---	---	7.31	7.16	7.55	7.46	7.46	7.41	7.40	7.35
14	7.44	7.30	---	---	7.40	7.33	7.54	7.47	7.45	7.38	7.43	7.38
15	7.44	7.20	---	---	7.45	7.41	7.49	7.43	7.61	7.39	7.50	7.40
16	7.37	7.33	---	---	7.42	7.41	7.48	7.44	7.61	7.37	7.45	7.38
17	7.47	7.30	7.36	7.32	7.42	7.39	7.54	7.44	7.34	7.30	7.38	7.33
18	7.29	7.17	7.35	7.32	7.39	7.36	7.72	7.34	7.36	7.29	7.42	7.24
19	7.19	7.17	7.37	7.35	7.40	7.38	7.34	7.04	7.57	7.32	7.39	7.28
20	7.27	7.19	7.50	7.37	7.43	7.40	7.05	6.89	---	---	7.42	7.33
21	7.29	7.21	7.46	7.37	7.48	7.43	7.03	6.92	---	---	7.38	7.34
22	7.21	7.16	7.50	7.39	7.53	7.48	7.27	6.99	---	---	7.45	7.40
23	7.16	7.13	7.49	7.32	7.52	7.48	7.35	7.21	---	---	7.54	7.45
24	7.13	7.08	7.34	7.25	7.54	7.44	7.25	7.20	7.48	7.38	7.48	7.41
25	7.20	6.91	---	---	7.45	7.40	7.22	7.03	7.36	7.25	7.43	7.40
26	7.19	6.94	---	---	7.44	7.41	7.03	6.84	7.26	7.03	7.44	7.41
27	6.94	6.91	---	---	7.49	7.44	6.85	6.77	7.18	7.06	7.42	7.39
28	6.95	6.91	---	---	7.52	7.49	6.90	6.67	7.25	7.16	7.41	7.39
29	7.25	6.95	---	---	7.52	7.46	7.00	6.90	---	---	7.55	7.40
30	7.26	7.24	---	---	7.45	7.42	7.37	7.31	---	---	7.55	7.42
31	7.28	7.25	---	---	7.46	7.43	7.42	7.29	---	---	7.47	7.42
MONTH	7.86	6.91	7.50	7.16	7.54	7.05	7.83	6.67	7.61	7.03	7.55	7.24
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.51	7.43	7.20	7.17	7.19	7.12	7.87	7.40	7.94	7.63	8.13	7.43
2	7.50	7.48	7.17	7.15	7.22	7.15	7.48	7.39	7.80	7.56	8.17	7.47
3	7.49	7.45	7.23	7.18	7.26	7.14	7.47	7.40	7.70	7.50	8.26	7.49
4	7.57	7.46	7.33	7.23	7.23	7.13	7.48	7.44	7.80	7.46	7.99	7.46
5	7.64	7.56	7.29	7.22	7.16	7.07	7.47	7.27	7.91	7.44	7.60	7.48
6	7.62	7.54	7.23	7.20	7.20	7.09	7.39	7.33	7.73	7.52	7.64	7.46
7	7.52	7.44	7.20	7.17	7.25	7.14	7.39	7.27	7.80	7.52	8.53	7.58
8	7.46	7.43	7.18	7.17	7.30	7.18	7.32	7.29	7.70	7.50	7.76	7.52
9	7.45	7.37	7.19	7.17	7.31	7.24	7.30	7.25	7.47	7.32	8.04	7.49
10	7.42	7.35	7.19	7.17	7.37	7.26	7.30	7.28	7.56	7.32	7.72	7.50
11	7.40	7.35	7.26	7.18	7.37	7.25	7.71	7.25	7.72	7.43	7.67	7.45
12	7.41	7.37	7.22	7.20	7.44	7.25	7.39	7.22	7.59	7.37	7.44	7.38
13	7.48	7.40	7.19	7.16	7.34	7.25	7.45	7.25	7.65	7.34	7.44	7.40
14	7.40	7.31	7.22	7.16	7.39	7.25	7.33	7.23	7.73	7.37	7.44	7.37
15	7.34	7.29	7.25	7.18	7.45	7.33	7.43	7.29	7.67	7.40	7.48	7.37
16	7.41	7.35	7.22	7.17	7.48	7.36	7.42	7.31	7.99	7.33	7.40	7.28
17	7.42	7.39	7.21	7.16	7.37	7.30	7.58	7.36	7.64	7.36	7.31	7.27
18	7.47	7.43	7.20	7.16	7.47	7.32	7.84	7.45	7.55	7.37	7.35	7.30
19	7.48	7.46	7.23	7.15	7.57	7.30	8.30	7.55	7.98	7.35	7.42	7.39
20	7.47	7.38	7.29	7.16	7.54	7.21	8.58	7.70	7.79	7.42	7.48	7.41
21	7.40	7.28	7.21	7.11	7.30	7.21	8.78	7.83	7.61	7.37	7.71	7.48
22	7.30	7.25	7.25	7.13	7.37	7.31	8.78	7.71	7.73	7.35	7.69	7.45
23	7.29	7.24	7.25	7.17	7.54	7.31	8.73	7.76	7.91	7.55	7.51	7.41
24	7.27	7.25	7.22	7.15	7.49	7.28	8.45	7.77	7.82	7.54	7.50	7.40
25	7.29	7.26	7.21	7.15	7.47	7.28	8.24	7.70	7.65	7.51	7.51	7.42
26	7.33	7.30	7.30	7.18	7.47	7.34	8.48	7.63	7.71	7.50	7.45	7.43
27	7.42	7.34	7.41	7.19	7.43	7.38	8.48	7.72	8.28	7.50	7.58	7.45
28	7.34	7.27	7.26	7.17	7.38	7.33	8.80	7.74	8.40	7.61	7.50	7.45
29	7.30	7.23	7.29	7.19	7.40	7.36	9.01	7.70	8.35	7.61	7.67	7.46
30	7.25	7.18	7.26	7.08	7.44	7.39	9.01	7.91	8.32	7.53	7.57	7.52
31	---	---	7.15	7.06	---	---	8.44	7.81	7.77	7.44	---	---
MONTH	7.64	7.18	7.41	7.06	7.57	7.07	9.01	7.22	8.40	7.32	8.53	7.27
YEAR	9.01	6.67										

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.2	4.8	6.7	6.4	8.7	8.5	10.6	10.4	11.1	10.9	9.7	9.3
2	7.9	4.8	6.5	6.4	8.6	7.8	10.5	10.4	11.1	9.9	9.4	9.0
3	8.4	4.9	6.7	6.5	8.9	8.4	10.8	10.4	10.8	10.7	9.5	9.3
4	8.8	5.3	6.5	5.7	9.2	8.6	10.9	10.6	10.8	10.7	9.6	8.7
5	7.9	5.3	5.8	5.1	9.5	9.2	11.2	10.6	11.1	10.8	9.7	9.5
6	8.2	5.3	5.1	4.2	9.8	9.4	10.9	10.3	10.8	10.6	9.9	9.3
7	7.6	5.2	5.2	4.3	9.9	9.7	10.9	10.5	11.0	10.3	9.9	9.6
8	8.1	5.4	5.4	4.2	10.0	9.6	10.9	10.5	10.8	10.3	9.7	9.2
9	6.4	5.4	6.0	5.1	9.7	9.5	10.9	10.4	10.8	10.3	9.3	8.8
10	5.6	4.1	6.1	5.7	9.6	8.6	10.8	10.2	11.0	10.5	9.2	9.0
11	4.3	3.4	7.0	6.2	9.1	8.6	10.6	10.2	11.0	10.6	9.6	9.1
12	4.4	3.2	7.2	6.3	9.2	8.8	11.1	10.5	10.7	10.3	10.1	9.5
13	5.9	4.3	---	---	9.9	9.3	11.4	10.6	10.1	9.3	10.2	9.8
14	5.9	4.8	---	---	10.3	9.9	11.1	10.8	9.5	9.2	10.0	9.7
15	7.5	6.0	---	---	10.6	10.4	10.8	10.2	10.0	9.1	10.0	9.7
16	6.5	6.3	---	---	10.5	10.2	10.2	9.8	10.1	9.1	9.8	9.3
17	6.3	5.7	8.5	7.9	10.2	9.8	9.9	9.6	10.1	9.7	9.2	8.8
18	6.4	5.6	8.1	7.4	9.8	9.3	10.3	9.2	10.4	10.2	8.8	7.2
19	6.3	5.9	7.5	7.1	9.5	9.2	10.5	10.2	10.6	10.4	9.0	7.1
20	6.5	6.1	8.2	7.3	9.7	9.4	10.2	9.8	10.5	10.4	8.9	8.4
21	6.4	5.6	8.7	7.4	9.9	9.5	10.1	9.9	10.5	10.3	9.0	8.3
22	5.7	4.9	9.0	8.7	10.1	9.7	11.3	8.7	10.5	10.1	9.1	8.6
23	4.9	4.2	9.4	8.9	10.3	9.9	10.4	9.8	10.5	9.9	9.2	8.4
24	4.5	4.1	9.3	8.6	10.5	9.9	10.7	10.5	10.5	10.2	8.6	7.9
25	6.9	4.9	8.5	7.9	10.4	10.2	10.8	10.4	10.5	10.3	8.3	7.7
26	7.4	7.0	8.1	7.4	10.3	10.1	10.5	10.4	10.4	9.1	8.4	7.9
27	7.5	7.3	7.6	7.2	10.3	10.1	10.7	10.5	10.1	9.4	7.8	7.3
28	7.4	7.2	7.8	7.3	10.4	10.2	11.2	10.3	10.1	9.8	7.6	7.2
29	7.5	7.3	8.9	7.4	10.4	10.3	11.3	11.2	---	---	7.9	7.3
30	7.4	7.0	8.9	8.8	10.5	10.2	11.4	11.2	---	---	8.0	6.7
31	7.2	6.6	---	---	10.5	10.2	11.2	10.9	---	---	8.4	7.5
MONTH	8.8	3.2	9.4	4.2	10.6	7.8	11.4	8.7	11.1	9.1	10.2	6.7
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.2	8.4	4.0	2.6	4.0	2.4	6.3	5.7	7.6	2.9	10.6	4.5
2	9.2	8.8	3.0	2.3	3.5	2.1	6.0	4.3	6.7	1.4	10.7	4.7
3	9.3	8.7	4.0	2.3	4.2	2.1	5.9	5.3	6.0	1.0	11.2	4.9
4	10.1	9.1	4.8	3.6	4.4	2.0	6.2	5.9	7.0	1.4	10.0	4.9
5	10.2	9.9	4.4	3.4	5.3	4.5	6.2	6.0	7.4	1.4	7.1	5.1
6	10.1	9.6	3.7	2.7	5.0	4.2	6.4	6.2	5.7	2.4	7.3	4.8
7	9.6	8.8	3.0	2.1	5.3	4.1	6.4	6.1	6.8	2.7	15.3	6.3
8	9.4	8.8	2.6	1.9	5.5	3.9	6.1	5.8	6.1	3.4	10.5	5.1
9	9.2	8.4	2.7	2.0	5.3	4.1	5.9	5.6	3.6	2.2	11.0	4.6
10	8.8	8.1	3.2	2.4	5.3	4.2	5.7	5.4	5.7	2.9	10.2	5.5
11	8.4	7.3	4.3	2.8	5.4	3.9	5.7	5.2	7.7	4.2	11.1	4.7
12	7.8	7.1	3.5	2.0	6.1	4.0	5.6	3.6	7.1	4.3	5.3	1.9
13	7.9	7.0	2.6	.2	5.0	3.8	5.5	4.1	7.8	4.2	2.0	1.1
14	7.0	5.9	.9	.3	5.3	3.9	5.3	4.2	8.5	4.8	4.3	1.4
15	6.0	5.5	1.3	.5	5.5	4.6	6.0	5.0	7.9	5.1	6.5	2.3
16	7.2	5.9	1.3	.5	5.5	4.6	6.3	5.1	10.2	4.7	4.1	2.2
17	8.1	7.2	2.9	.7	5.6	4.8	7.1	5.3	8.2	5.1	4.0	1.9
18	8.7	8.0	4.8	1.6	6.1	5.0	8.2	5.4	7.4	4.5	4.9	2.1
19	8.7	8.4	3.1	1.1	6.0	4.7	9.7	5.8	10.0	4.3	3.6	2.1
20	8.4	7.6	3.9	1.2	5.8	5.0	10.2	6.5	9.0	4.6	8.5	2.5
21	7.5	6.4	2.9	1.3	5.5	5.0	11.6	6.8	7.7	4.0	10.4	4.1
22	6.4	5.4	3.8	1.3	5.9	5.5	11.3	6.2	8.1	3.5	7.4	3.4
23	5.3	4.4	3.4	1.3	6.3	5.5	11.1	5.9	9.0	4.9	6.0	2.7
24	4.5	3.9	3.0	1.6	6.0	4.8	9.6	5.7	8.0	4.4	6.2	2.6
25	4.9	3.7	3.2	1.9	5.5	2.5	8.9	4.8	6.8	4.2	6.7	2.7
26	5.9	4.3	3.4	1.8	4.9	4.1	10.6	3.8	7.5	3.1	4.7	2.7
27	7.0	5.5	3.1	1.3	5.8	4.9	10.5	4.6	10.7	3.9	8.9	3.6
28	6.3	5.0	2.7	1.0	6.2	5.8	12.3	4.2	11.5	4.8	9.2	3.7
29	5.8	4.4	2.8	1.0	6.3	6.0	13.5	4.8	11.3	4.7	7.3	3.3
30	5.0	3.5	3.4	1.9	6.3	5.9	14.1	6.5	11.6	4.3	5.9	2.0
31	---	---	3.1	1.7	---	---	10.6	5.8	8.4	4.7	---	---
MONTH	10.2	3.5	4.8	.2	6.3	2.0	14.1	3.6	11.6	1.0	15.3	1.1
YEAR	15.3	.2										

MOBILE RIVER BASIN

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02387050 CONASAUGA RIVER NEAR RESACA, GA.

LOCATION.--Lat 34°35'36", long 84°56'02", Gordon County, Hydrologic Unit 03150101, at bridge on State Highway 136, 1.1 mi northeast of Resaca, and 5.1 mi upstream from the confluence with Coosawatee 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
28...	1130	1020	150	143	7.20	7.20	16.0	19.0	7.8	80
NOV										
24...	1130	3650	126	124	7.10	7.10	13.5	16.0	8.0	78
DEC										
29...	1130	1100	168	157	7.30	7.40	7.0	3.0	10.4	87
JAN										
28...	1130	6000	86	85	7.10	7.00	3.0	4.0	11.8	89
FEB										
24...	1030	3300	117	114	7.40	7.50	6.5	6.5	10.6	87
MAR										
24...	1145	--	145	134	7.40	7.30	13.5	13.0	8.5	84
APR										
29...	1015	465	177	186	7.10	7.10	19.0	27.0	4.1	45
MAY										
28...	0845	260	150	157	7.10	7.30	24.5	26.0	1.5	18
JUN										
24...	1000	410	160	159	7.50	7.70	24.5	30.0	4.4	54
JUL										
28...	0935	76	226	215	7.60	7.60	28.0	26.5	7.1	93
AUG										
25...	0945	84	250	246	7.50	7.50	26.0	28.5	3.9	49
SEP										
22...	0900	78	360	367	7.40	7.30	22.0	16.5	2.6	30

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB 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										
28...	35	1.6	<33000	50	11	39	0.560	0.460	1.41	20
NOV										
24...	120	1.5	23000	52	9	43	0.270	0.160	0.430	9.6
DEC										
29...	12	2.0	1100	66	6	60	0.690	0.480	0.830	3.7
JAN										
28...	20	1.5	330	36	8	28	0.320	0.070	0.220	5.1
FEB										
24...	55	1.2	330	56	10	46	0.210	<0.020	0.350	8.0
MAR										
24...	10	--	--	60	9	51	0.250	0.070	0.290	2.3
APR										
29...	5.0	1.2	170	70	12	58	0.510	0.230	1.10	7.4
MAY										
28...	5.0	1.0	20	68	6	62	0.430	0.060	0.330	3.3
JUN										
24...	27	2.0	170	70	4	66	0.490	0.100	0.320	5.5
JUL										
28...	9.0	4.2	--	90	14	76	0.520	0.070	1.23	7.2
AUG										
25...	12	2.2	230	100	13	92	0.340	0.070	0.610	3.3
SEP										
22...	6.0	3.6	130	100	15	90	0.700	0.410	2.55	16

MOBILE RIVER BASIN

02387500 OOSTANULA RIVER AT RESACA, GA.

LOCATION.--Lat 34°34'42", long 84°56'29", Gordon County, Hydrologic Unit 03150103, on downstream side of center pier of bridge on U.S. Highway 41 at Resaca (revised), 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 October, 1892, 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). WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.14 ft above 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.

REMARKS.--No estimated daily discharges. 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.--95 years, 2,799 ft³/s, 23.76 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, 17,600 ft³/s, Mar. 2, gage height, 22.79 ft; minimum daily discharge, 353 ft³/s, Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	417	749	3710	2250	3390	15600	3350	1110	1240	973	448	667
2	401	709	4540	2280	3300	17000	3110	1100	1170	1100	446	653
3	384	653	4640	2250	4990	15300	3040	1040	1130	1090	382	705
4	373	628	3970	1660	5880	13100	3390	1070	1250	1380	409	740
5	353	606	3150	1420	4740	7880	3410	1230	1610	1630	408	781
6	377	699	2620	1410	4050	6580	3410	1190	1370	1520	421	789
7	395	838	2300	1390	3470	5870	3120	1150	1190	1440	485	761
8	405	1530	2090	1350	2770	5540	2760	1330	1090	1290	514	853
9	423	1400	2490	1340	2440	5840	2700	1460	1040	1170	656	1090
10	443	1180	5850	1330	2590	6430	2560	1390	1020	1090	593	1170
11	454	1290	7150	1300	2490	5790	2450	1260	1010	975	550	900
12	469	2000	7310	1270	2390	4930	2250	1310	983	1060	527	595
13	702	1840	5080	1200	2350	4370	2110	1410	1040	971	546	576
14	1660	1540	3720	1110	2360	3570	2320	1500	946	836	551	520
15	1800	1370	3140	1150	2180	2850	2440	1630	1000	691	509	512
16	1270	1280	3300	1260	2960	2620	3380	1550	1070	611	483	528
17	916	1240	3420	1290	4420	2490	3510	1370	1220	561	449	540
18	725	1550	3050	4160	3690	2520	3290	1300	1270	548	494	513
19	606	1620	3150	11200	2880	3950	2760	1170	1660	538	511	433
20	547	1940	2730	11900	2650	4940	2470	1220	1660	496	478	413
21	515	2950	2010	12100	2560	4040	1960	1240	1260	453	518	403
22	473	2820	1820	12600	2440	3250	1890	1170	1190	421	491	397
23	459	2360	2030	8820	3520	2860	2000	1160	1580	444	463	382
24	489	4760	3580	5630	4490	2700	1870	1250	1540	437	444	382
25	1630	6750	4640	6070	3570	2740	1560	1250	1510	424	493	370
26	3480	8290	3510	11100	3360	2750	1280	1150	1340	408	818	438
27	3330	9520	2580	12000	7330	2620	1180	1080	1280	421	1010	444
28	1680	8650	2270	10300	12400	2380	1110	1040	1240	562	1250	413
29	1110	6510	2040	6670	---	2260	1050	1110	1060	467	1370	423
30	913	3980	2230	5020	---	2540	1090	1280	949	423	1280	446
31	801	---	2180	3740	---	3430	---	1190	---	422	1090	---
TOTAL	28000	81252	106300	146570	105660	168740	72820	38710	36918	24852	19087	17837
MEAN	903	2708	3429	4728	3774	5443	2427	1249	1231	802	616	595
MAX	3480	9520	7310	12600	12400	17000	3510	1630	1660	1630	1370	1170
MIN	353	606	1820	1110	2180	2260	1050	1040	946	408	382	370

CAL YR 1986 TOTAL 511640 MEAN 1402 MAX 9520 MIN 353 MEANT 1397 CFSMT .87 INT 11.84
WTR YR 1987 TOTAL 846746 MEAN 2320 MAX 17000 MIN 353 MEANT 2299 CFSMT 1.44 INT 19.49

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

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GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.67	2.48	7.71	5.40	7.27	21.33	7.21	3.34	3.61	3.07	1.80	2.37
2	1.62	2.38	8.80	5.46	7.11	22.60	6.86	3.33	3.47	3.32	1.80	2.34
3	1.57	2.25	8.94	5.43	9.37	21.33	6.74	3.20	3.38	3.32	1.62	2.46
4	1.54	2.19	8.06	4.39	10.48	19.13	7.27	3.26	3.62	3.87	1.70	2.55
5	1.47	2.13	6.77	3.95	9.06	13.17	7.30	3.58	4.29	4.34	1.69	2.64
6	1.54	2.35	5.84	3.93	8.18	11.34	7.30	3.51	3.86	4.14	1.73	2.66
7	1.59	2.67	5.35	3.89	7.37	10.47	6.87	3.42	3.50	3.99	1.91	2.60
8	1.62	4.12	5.03	3.82	6.28	10.05	6.28	3.78	3.31	3.70	1.98	2.81
9	1.67	3.85	5.66	3.80	5.75	10.43	6.16	4.02	3.21	3.47	2.34	3.30
10	1.73	3.40	10.42	3.77	5.98	11.15	5.94	3.89	3.17	3.30	2.19	3.46
11	1.76	3.59	12.02	3.72	5.82	10.37	5.76	3.65	3.14	3.07	2.08	2.90
12	1.80	5.00	12.20	3.66	5.67	9.31	5.43	3.73	3.09	3.24	2.02	2.19
13	2.39	4.68	9.46	3.53	5.59	8.60	5.18	3.93	3.21	3.06	2.07	2.14
14	4.38	4.07	7.57	3.35	5.62	7.51	5.54	4.09	3.01	2.77	2.08	2.00
15	4.65	3.73	6.68	3.44	5.31	6.42	5.75	4.35	3.13	2.43	1.97	1.98
16	3.63	3.56	6.90	3.65	6.58	6.04	7.24	4.19	3.28	2.23	1.90	2.02
17	2.89	3.49	7.08	3.69	8.66	5.83	7.44	3.85	3.56	2.11	1.81	2.05
18	2.44	4.06	6.55	8.03	7.68	5.87	7.12	3.72	3.65	2.07	1.93	1.98
19	2.15	4.17	6.69	16.42	6.47	8.02	6.28	3.48	4.39	2.05	1.98	1.76
20	2.00	4.77	6.06	17.28	6.09	9.32	5.80	3.56	4.38	1.94	1.89	1.71
21	1.92	6.59	4.97	17.66	5.93	8.16	4.94	3.60	3.65	1.82	1.99	1.68
22	1.80	6.37	4.66	18.31	5.75	7.06	4.81	3.47	3.50	1.73	1.92	1.66
23	1.75	5.52	4.99	14.65	7.43	6.44	4.99	3.46	4.24	1.79	1.85	1.62
24	1.84	9.06	7.32	10.80	8.74	6.16	4.77	3.62	4.18	1.77	1.79	1.62
25	4.17	11.54	8.88	11.23	7.51	6.24	4.21	3.62	4.12	1.74	1.93	1.58
26	7.37	13.27	7.25	16.48	7.23	6.25	3.68	3.43	3.80	1.69	2.70	1.78
27	7.14	14.56	5.86	17.04	12.10	6.04	3.48	3.28	3.68	1.73	3.14	1.79
28	4.41	13.67	5.40	15.30	17.48	5.64	3.34	3.21	3.60	2.11	3.62	1.71
29	3.31	11.22	5.04	11.44	---	5.45	3.23	3.35	3.25	1.86	3.85	1.74
30	2.88	8.07	5.35	9.41	---	5.90	3.32	3.69	3.02	1.74	3.68	1.80
31	2.60	---	5.28	7.76	---	7.33	---	3.51	---	1.73	3.31	---
MEAN	2.69	5.63	7.06	8.41	7.59	9.64	5.67	3.62	3.58	2.62	2.20	2.16
MAX	7.37	14.56	12.20	18.31	17.48	22.60	7.44	4.35	4.39	4.34	3.85	3.46
MIN	1.47	2.13	4.66	3.35	5.31	5.45	3.23	3.20	3.01	1.69	1.62	1.58
CAL YR 1986	MEAN 3.62		MAX 14.56	MIN 1.47								
WTR YR 1987	MEAN 5.06		MAX 22.60	MIN 1.47								

MOBILE RIVER BASIN

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 September 1984.

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, Dec. 31, 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
AUG					
21...	1245	570	--	39	60
21...	1250	570	--	40	62
SEP					
30...	1420	435	25.0	15	18
30...	1425	435	25.0	16	19

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV					
04...	1025	618	16.5	11	18
04...	1030	618	16.5	11	18
DEC					
16...	1241	3350	9.0	18	163
16...	1246	3350	9.0	23	208
JAN					
19...	1355	11800	--	138	4390
20...	1236	11900	--	99	3190
20...	1241	11900	--	95	3060
23...	1229	8740	--	40	944
23...	1234	8740	--	42	991
28...	1147	10600	--	30	855
28...	1152	10600	--	30	855
FEB					
27...	1408	8070	--	110	2400
27...	1413	8070	--	103	2240
27...	1932	9600	--	155	4020
28...	1619	12700	--	105	3610
28...	1624	12700	--	106	3650
MAR					
01...	1516	15900	--	153	6570
01...	1521	15900	--	128	5500
03...	1028	15300	--	54	2230
03...	1033	15300	--	45	1860
05...	1007	7980	--	47	1010
05...	1012	7980	--	47	1010
APR					
22...	1042	1870	19.0	25	126
22...	1047	1870	19.0	25	126
JUL					
13...	1351	950	26.0	21	54
13...	1356	950	26.0	18	46
AUG					
26...	1844	1010	25.0	35	96
26...	1849	1010	25.0	36	98

MOBILE RIVER BASIN

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02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	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
JAN											
19...	1350	11800	57	--	--	--	88	93	97	97	100
19...	1355	11800	--	--	--	--	88	--	--	--	--
20...	1236	11900	--	--	--	--	83	--	--	--	--
28...	1147	10600	--	--	--	--	84	--	--	--	--
FEB											
27...	1927	9600	28	45	58	70	81	90	97	99	100
27...	1932	9600	--	--	--	--	67	--	--	--	--
MAR											
03...	1028	15300	--	--	--	--	69	--	--	--	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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
JAN									
20...	1107	12000	7	66	99	100	--	--	--
20...	1108	12000	--	6	67	98	100	--	--
20...	1109	12000	1	9	50	82	86	87	100
20...	1110	12000	--	3	51	92	98	99	100
MAR									
03...	1121	15300	--	63	99	100	--	--	--
03...	1122	15300	--	1	25	81	95	98	100
03...	1123	15300	--	1	42	96	99	100	--
APR									
28...	0929	1110	18	73	99	100	--	--	--
28...	0930	1110	3	19	66	87	92	94	100
28...	0931	1110	1	5	86	100	--	--	--
28...	0932	1110	3	5	21	89	99	100	--

MOBILE RIVER BASIN

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.

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

REVISED RECORDS.--WDR GA-80-1: Drainage area.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature Air Temperature, and Dissolved Oxygen is by the 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, Oostanaula River at Resaca, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 28...	1215	1600	128	122	7.20	7.20	16.5	19.0	7.4	77
NOV 24...	1215	4710	119	114	7.20	7.00	12.5	16.0	9.3	88
DEC 29...	1200	2020	128	119	7.40	7.40	7.5	4.0	10.8	91
JAN 28...	1200	10500	72	73	7.10	7.10	4.0	4.0	11.8	91
FEB 24...	1100	4640	117	115	7.70	7.60	6.5	7.0	10.2	84
MAR 24...	1100	2690	101	94	7.40	7.20	13.0	13.5	9.5	92
APR 29...	1045	1040	140	147	7.20	7.70	18.0	25.0	5.9	63
MAY 28...	0915	1030	85	96	7.50	7.50	21.0	27.5	6.5	74
JUN 24...	1030	1590	92	96	7.50	7.60	23.0	30.0	7.3	87
JUL 28...	1005	618	82	77	7.50	7.30	25.0	27.5	6.7	83
AUG 25...	0900	501	95	95	7.40	7.60	26.0	30.0	6.6	82
SEP 22...	0835	390	110	111	7.30	7.10	21.0	21.0	6.5	74

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB 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 28...	34	1.3	<22000	46	9	37	0.590	0.370	0.730	9.5
NOV 24...	70	1.0	7900	50	14	36	0.300	0.190	0.400	8.2
DEC 29...	9.0	2.0	330	60	16	44	0.520	0.240	0.370	3.1
JAN 28...	21	1.0	1300	30	14	16	0.330	0.050	0.190	6.7
FEB 24...	41	1.1	630	54	8	46	0.260	<0.020	0.120	6.6
MAR 24...	9.0	--	--	44	6	38	0.300	0.060	0.080	1.8
APR 29...	5.0	1.0	30	62	24	38	0.500	0.090	0.450	14
MAY 28...	8.0	1.1	130	38	2	36	0.300	<0.020	0.100	1.9
JUN 24...	25	2.4	220	--	--	36	0.340	0.210	0.100	4.0
JUL 28...	5.0	1.8	--	36	8	28	0.210	0.650	0.120	2.4
AUG 25...	10	1.3	190	36	4	32	0.230	0.040	0.140	2.8
SEP 22...	10	2.1	230	33	0	34	0.260	0.160	0.510	5.0

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 above National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Estimated daily discharges: Aug. 17 to Sept. 30. Records good, except for period Aug. 8 to Sept. 30, which are fair.

AVERAGE DISCHARGE.--19 years, 25.9 ft³/s, 23.93 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.03 ft, Mar. 4, 1979 (discharge not determined); minimum daily discharge, 0.64 ft³/s, July 31, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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. 26	0830	423	5.36	Feb. 28	2330	*488	*5.79
Jan. 25	1915	411	5.28				

Minimum daily discharge, 0.80 ft³/s, Sept. 26-28, but may have been less during the period of estimated record, Aug. 17 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	3.0	27	12	26	334	52	5.0	4.9	3.7	1.9	1.3
2	1.1	3.4	30	10	47	116	42	4.9	4.0	3.9	2.0	1.2
3	1.1	4.8	26	8.8	35	75	46	5.4	8.6	4.1	2.0	1.0
4	1.2	5.0	20	8.3	30	55	39	5.1	17	13	2.1	1.1
5	1.2	6.4	17	7.8	27	43	33	5.1	6.6	7.1	2.3	1.1
6	1.1	7.6	15	7.1	24	35	30	4.6	4.9	6.2	2.1	1.1
7	1.1	12	13	6.8	29	30	28	4.4	4.1	5.2	2.1	1.2
8	1.2	11	13	6.5	22	34	24	4.0	3.7	6.2	1.4	1.5
9	2.6	8.4	22	6.2	18	55	21	3.6	3.4	7.0	1.4	1.3
10	2.5	7.5	79	7.3	17	38	18	3.5	3.1	4.9	1.6	1.2
11	1.7	14	55	6.2	16	32	17	3.5	2.9	4.2	1.6	2.9
12	2.7	15	41	5.6	16	31	15	3.8	2.8	3.9	1.7	2.3
13	26	11	30	5.4	14	27	14	3.6	3.9	3.6	1.7	2.3
14	15	9.3	23	5.8	14	23	17	3.6	3.6	3.3	1.6	1.9
15	4.1	9.7	20	6.4	15	21	15	3.8	3.1	3.1	1.4	1.5
16	2.8	9.0	17	5.7	43	19	13	3.7	9.6	2.9	1.3	1.3
17	2.3	8.4	17	6.0	30	17	13	3.7	9.1	2.8	1.8	1.3
18	1.9	7.4	20	140	27	29	11	3.5	13	2.7	2.5	1.3
19	1.8	6.3	14	209	22	51	10	3.4	13	2.6	2.0	1.3
20	1.8	30	12	91	20	42	9.5	3.4	22	2.5	1.4	1.2
21	1.8	22	11	59	19	35	9.1	3.3	12	2.4	1.3	1.1
22	1.7	15	10	55	33	30	8.8	3.3	22	2.5	1.2	1.0
23	1.7	26	18	43	40	25	8.3	3.1	12	2.5	1.2	.98
24	1.8	34	23	34	33	27	7.5	4.9	9.7	2.3	1.2	.92
25	80	30	20	223	30	28	7.1	4.0	7.8	2.3	1.2	.92
26	19	235	18	199	47	21	6.3	3.4	6.6	2.1	1.3	.80
27	8.8	72	16	89	215	25	6.0	3.1	5.7	2.2	1.2	.80
28	5.7	42	14	62	357	26	5.9	3.0	4.9	2.1	1.2	.80
29	4.5	29	13	48	---	24	5.6	9.3	3.8	1.9	1.1	.86
30	3.8	25	12	39	---	89	5.2	14	3.5	1.9	1.0	.86
31	3.0	---	11	30	---	68	---	6.1	---	2.0	1.2	---
TOTAL	206.1	719.2	677	1442.9	1266	1505	537.3	139.1	231.3	117.1	49.0	38.34
MEAN	6.65	24.0	21.8	46.5	45.2	48.5	17.9	4.49	7.71	3.78	1.58	1.28
MAX	80	235	79	223	357	334	52	14	22	13	2.5	2.9
MIN	1.1	3.0	10	5.4	14	17	5.2	3.0	2.8	1.9	1.0	.80
CFSM	.45	1.63	1.48	3.16	3.08	3.30	1.22	.31	.52	.26	.11	.09
IN.	.52	1.82	1.71	3.65	3.20	3.81	1.36	.35	.59	.30	.12	.10

CAL YR 1986	TOTAL	3302.08	MEAN	9.05	MAX	235	MIN	.64	CFSM	.62	IN	8.36
WTR YR 1987	TOTAL	6928.34	MEAN	19.0	MAX	357	MIN	.80	CFSM	1.29	IN	17.53

MOBILE RIVER BASIN

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 above National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Estimated daily discharges: Oct. 15-22, Jan. 16-30, July 5-7, and Aug. 7-16. Records good, except those for the periods of estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--5 years, 24.9 ft³/s, 20.37 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 900 ft³/s, May 8, 1984, gage height, 8.10 ft; minimum daily discharge, 0.85 ft³/s, Oct. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge 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. 26	0815	427	5.45	Feb. 28	1745	*555	*6.24
Jan. 25	unknown	440	5.53				

Minimum daily discharge, 1.1 ft³/s, Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	4.4	34	17	31	341	58	6.2	6.2	4.7	2.9	1.9
2	1.4	4.5	38	15	54	128	47	5.9	5.4	4.9	3.0	1.8
3	1.4	4.2	33	13	41	88	52	5.9	13	5.1	3.0	1.6
4	1.5	4.0	27	12	35	64	45	5.8	22	15	3.1	1.7
5	1.4	4.2	23	11	32	51	38	5.6	9.2	8.6	3.5	1.7
6	1.3	4.6	21	10	29	42	35	5.3	6.6	7.6	3.1	1.7
7	1.1	9.6	18	9.6	35	36	32	5.2	5.6	6.0	2.7	1.9
8	1.3	9.6	19	9.2	28	41	28	4.9	5.1	6.8	2.1	2.2
9	3.3	7.0	28	8.9	24	66	25	4.6	4.8	8.8	2.3	2.0
10	3.2	6.2	91	10	22	45	22	4.3	4.5	6.2	2.4	1.8
11	1.6	13	65	9.0	21	39	21	4.4	4.2	5.5	2.5	4.2
12	2.4	16	50	8.0	21	37	18	4.5	4.1	5.2	2.6	3.4
13	29	12	39	8.7	19	33	17	4.3	5.0	4.9	2.5	3.5
14	20	9.8	32	8.5	19	29	20	4.2	4.8	4.4	2.3	2.9
15	5.8	9.9	28	8.4	19	27	18	4.3	4.4	4.2	2.1	2.3
16	3.5	9.0	25	8.8	53	24	17	4.2	12	3.9	2.0	2.0
17	2.6	8.4	24	9.0	37	22	16	4.1	11	3.8	2.7	1.9
18	2.2	7.3	27	180	33	36	15	4.0	13	3.6	3.8	1.9
19	1.9	6.2	20	270	29	62	13	3.8	14	3.5	3.1	2.0
20	1.8	31	18	120	26	50	12	3.7	22	3.3	2.1	1.9
21	1.8	25	16	76	24	43	12	3.6	13	3.2	2.0	1.7
22	1.7	19	15	70	39	36	12	3.7	23	3.2	1.8	1.6
23	1.7	30	24	52	47	30	11	3.4	13	3.3	1.8	1.5
24	1.9	38	31	42	40	34	11	8.4	11	3.3	1.8	1.4
25	89	35	27	290	36	34	9.9	5.1	8.5	3.2	1.8	1.4
26	27	245	25	260	55	26	8.9	4.1	7.2	3.1	1.9	1.2
27	15	82	22	120	232	30	7.8	3.8	6.4	3.1	1.8	1.2
28	9.6	50	20	84	386	30	7.5	3.5	5.7	3.0	1.8	1.2
29	7.1	37	19	62	---	29	6.9	13	4.8	2.8	1.7	1.3
30	5.8	32	18	50	---	99	6.5	17	4.5	2.8	1.6	1.3
31	4.7	---	16	36	---	76	---	7.6	---	3.0	1.8	---
TOTAL	253.4	773.9	893	1888.1	1467	1728	642.5	168.4	274.0	150.0	73.6	58.1
MEAN	8.17	25.8	28.8	60.9	52.4	55.7	21.4	5.43	9.13	4.84	2.37	1.94
MAX	89	245	91	290	386	341	58	17	23	15	3.8	4.2
MIN	1.1	4.0	15	8.0	19	22	6.5	3.4	4.1	2.8	1.6	1.2
CFSM	.49	1.55	1.74	3.67	3.16	3.36	1.29	.33	.55	.29	.14	.12
IN.	.57	1.73	2.00	4.23	3.29	3.87	1.44	.38	.61	.34	.16	.13
CAL YR 1986	TOTAL	3838.26	MEAN	10.5	MAX	245	MIN	.90	CFSM	.63	IN	8.60
WTR YR 1987	TOTAL	8370.00	MEAN	22.9	MAX	386	MIN	1.1	CFSM	1.38	IN	18.76

MOBILE RIVER BASIN

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02388500 OOSTANLA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°18'02", long 85°08'30", Floyd County, Hydrologic Unit 03150103, on left bank 1.2 mi 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. 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 above 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.--Estimated daily discharges: Oct. 1-6, July 26-28, and Sept. 20-30. Records good, except those for estimated daily discharge, which are fair. Flow regulated by Carters Lake and Carters 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.--48 years, 3,596 ft³/s, 23.03 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, 22,900 ft³/s, Mar. 2; maximum gage height, 28.32 ft, Mar. 1; minimum daily discharge 390 ft³/s, Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	440	975	4920	2570	4350	20200	4540	1380	1360	1100	578	904	
2	470	892	5110	2620	4070	22600	4110	1400	1380	1160	553	717	
3	460	820	5750	2650	4750	20900	3980	1370	1310	1250	544	701	
4	440	795	5320	2470	5840	19500	4410	1380	1440	1410	563	737	
5	440	792	4450	1880	5750	16600	4290	1620	1450	1650	584	758	
6	383	786	3520	1820	4760	9770	4200	1550	1680	1710	589	757	
7	396	954	2930	1680	4520	7170	3990	1470	1440	1780	566	772	
8	413	1430	2620	1750	3860	6300	3650	1440	1290	1570	630	830	
9	454	1830	2730	1610	3130	6780	3330	1570	1220	1440	616	859	
10	508	1540	5630	1720	2780	7130	3180	1630	1180	1320	701	951	
11	511	1420	8320	1640	2990	6870	3050	1550	1170	1240	693	960	
12	502	2090	8710	1560	2860	6040	2850	1470	1150	1130	655	844	
13	661	2380	7800	1570	2760	5140	2620	1510	1180	1210	605	687	
14	1520	2060	5330	1480	2830	4700	2650	1610	1190	1100	642	707	
15	1930	1780	4060	1440	2770	3980	2840	1680	1150	972	645	625	
16	1800	1560	3580	1510	3370	3370	3080	1790	1260	837	566	618	
17	1260	1480	3740	1600	4450	3040	3850	1650	1460	766	523	625	
18	945	1490	3810	4050	4850	3070	3780	1540	1400	713	559	603	
19	755	1760	3470	12800	3980	4400	3400	1460	1440	654	640	592	
20	645	2170	3540	16000	3360	5530	2950	1380	1820	631	652	534	
21	602	3330	2870	14200	3160	5470	2630	1580	1760	623	685	520	
22	569	3640	2290	13900	3100	4550	2240	1460	1770	599	719	518	
23	549	3230	2350	13900	3760	3800	2150	1360	1490	577	557	513	
24	547	4480	3250	9930	4600	3320	2230	1370	1790	593	516	511	
25	2430	7570	4890	8660	4760	3300	2070	1420	1660	581	568	510	
26	4250	10700	4830	14200	4180	3250	1780	1380	1660	542	594	502	
27	4370	14700	3680	14800	8520	3200	1570	1310	1440	558	829	518	
28	3270	11800	2990	13900	15800	3130	1480	1220	1400	590	907	515	
29	1860	9710	2630	10900	---	2910	1410	1230	1320	669	1020	521	
30	1340	6420	2490	6990	---	3810	1360	1440	1160	606	1040	544	
31	1110	---	2570	5250	---	4710	---	1430	---	563	991	---	
TOTAL	35830	104584	130180	191050	125910	224540	89670	45650	42420	30144	20530	19953	
MEAN	1156	3486	4199	6163	4497	7243	2989	1473	1414	972	662	665	
MAX	4370	14700	8710	16000	15800	22600	4540	1790	1820	1780	1040	960	
MIN	383	786	2290	1440	2760	2910	1360	1220	1150	542	516	502	
CAL YR 1986 TOTAL	632756	MEAN	1734	MAX	14700	MIN	383	MEAN†	1729	CFSM†	.82	INT†	11.10
WTR YR 1987 TOTAL	1060461	MEAN	2905	MAX	22600	MIN	383	MEAN†	2884	CFSM†	1.36	INT†	18.52

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

MOBILE RIVER BASIN

02388520 OOSTANAULA RIVER AT ROME, GA.

LOCATION.--Lat 34°16'13", Long 85°10'24", Floyd County, Hydrologic Unit 03150103, at Southern Railway bridge at pumping station at City of Rome waterworks, 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 Carters 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey. Discharge obtained from gaging station 02388500, Oostanaula River near Rome, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
29...	1330	1780	122	121	7.40	7.20	16.0	22.0	6.5	66
NOV										
25...	1330	8020	118	115	7.10	7.10	12.5	19.5	8.7	83
DEC										
30...	1345	2700	134	127	7.40	7.20	9.0	9.0	10.0	88
JAN										
29...	1315	11700	78	78	7.40	6.70	7.5	8.0	10.8	91
FEB										
25...	1300	4760	118	118	7.40	7.60	8.5	13.0	11.0	95
MAR										
26...	1015	3080	112	118	7.50	7.40	13.5	22.5	8.4	82
MAY										
05...	1030	1570	164	158	7.40	7.20	19.5	17.0	5.3	59
28...	0930	1170	121	125	7.30	7.70	24.0	28.0	5.0	60
JUN										
23...	0900	1400	122	122	7.10	7.30	24.0	26.5	5.0	61
JUL										
29...	1145	813	124	116	7.90	7.80	29.0	35.5	7.0	93
AUG										
26...	1300	647	112	118	8.00	8.00	27.0	34.0	8.5	108
SEP										
23...	1220	563	130	133	7.50	7.10	22.0	22.5	6.8	79

DATE	TUR- BID- ITY (NTU)	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 NONCARB WH WAT TOT LAB MG/L AS CAC03	ALKA- LITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)
OCT								
29...	32	23	1.6	330	48	8	40	42
NOV								
25...	84	31	3.8	7900	54	15	39	208
DEC								
30...	9.0	8	2.7	490	60	4	56	3
JAN								
29...	19	17	0.9	940	34	8	26	20
FEB								
25...	35	10	3.9	13000	58	11	47	59
MAR								
26...	6.0	10	2.7	790	44	5	39	17
MAY								
05...	12	16	1.1	2300	70	10	60	22
28...	8.0	9	1.0	90	50	4	46	15
JUN								
23...	15	12	1.5	790	50	4	46	20
JUL								
29...	5.0	6	2.5	--	81	35	46	23
AUG								
26...	10	--	4.0	790	42	0	47	22
SEP								
23...	7.0	--	1.7	80	45	0	47	10

MOBILE RIVER BASIN

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02388520 OOSTANAULA RIVER AT ROME, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
29...	0.570	0.220	0.48	0.70	1.3	0.400	7.4
NOV							
25...	0.470	0.190	0.01	0.20	0.67	0.420	8.5
DEC							
30...	0.620	0.150	0.15	0.30	0.92	0.300	3.6
JAN							
29...	0.370	0.040	0.16	0.20	0.57	0.120	4.1
FEB							
25...	0.320	<0.020	--	0.30	0.62	0.140	4.8
MAR							
26...	0.390	0.180	0.32	0.50	0.89	0.150	6.1
MAY							
05...	0.540	0.110	0.49	0.60	1.1	0.380	6.4
28...	0.570	0.030	0.37	0.40	0.97	0.210	3.2
JUN							
23...	0.470	0.100	0.60	0.70	1.2	0.190	2.0
JUL							
29...	0.020	0.020	0.48	0.50	0.52	0.210	2.8
AUG							
26...	0.070	0.050	--	--	--	0.210	4.8
SEP							
23...	0.370	0.070	--	--	--	0.430	4.3

MOBILE RIVER BASIN

02388530 OOSTANAULA RIVER AT 5TH AVENUE, AT ROME, GA.

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.

DRAINAGE AREA.--2,150 mi², approximately.

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--Doubtful or no gage height record: Oct. 1-12, 23, Sept. 20-23, and 27-29. 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, 25.10 ft, Mar. 1.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	3.41	7.39	7.23	7.47	24.83	9.26	4.48	3.99	4.04	3.53	3.86
2	---	3.18	8.88	7.29	7.66	23.50	8.60	4.48	4.73	4.22	2.75	3.52
3	---	3.08	9.14	7.11	10.77	21.95	8.48	4.01	4.66	4.65	2.76	3.46
4	---	3.20	8.85	5.25	11.58	21.04	8.69	4.00	4.72	4.94	4.02	3.50
5	---	3.24	8.18	4.83	11.56	19.30	7.48	4.72	4.66	4.27	4.18	3.53
6	---	3.24	7.23	5.38	10.77	14.98	7.45	4.64	4.90	4.40	4.14	3.05
7	---	3.58	5.59	5.54	10.15	12.04	7.86	4.57	4.03	5.63	2.96	3.08
8	---	4.00	5.43	5.57	6.99	9.45	7.48	4.50	3.84	5.53	3.37	3.66
9	---	4.26	6.35	5.46	6.51	11.37	7.12	4.62	4.38	5.58	2.90	3.78
10	---	3.98	8.75	5.20	7.87	14.43	6.92	4.26	4.34	5.25	3.00	4.00
11	---	3.99	11.05	4.29	7.16	14.21	6.68	4.18	4.10	5.14	4.56	4.06
12	---	4.61	11.46	4.26	6.99	12.74	5.77	4.97	4.07	4.69	3.86	3.35
13	3.08	4.95	10.65	4.78	6.82	11.66	5.58	4.59	4.13	3.79	2.92	3.02
14	4.01	4.65	8.21	4.75	6.46	10.75	6.33	4.67	3.80	5.13	4.13	3.02
15	4.37	4.38	7.06	4.72	5.65	7.15	6.52	4.73	3.97	3.95	4.13	3.38
16	4.23	4.00	8.30	4.79	6.40	6.61	6.71	4.85	5.07	3.76	2.82	3.41
17	3.65	3.91	8.38	4.82	7.69	7.63	7.43	4.32	4.25	3.67	2.75	3.41
18	3.25	4.20	8.54	7.14	8.11	7.75	7.33	4.18	5.14	3.57	4.22	2.86
19	2.93	4.42	8.23	17.01	7.28	9.52	6.32	4.51	5.16	3.06	4.31	3.31
20	2.78	4.97	7.85	18.61	6.65	10.53	5.86	4.42	5.56	3.02	4.53	---
21	2.76	6.13	5.68	17.16	6.34	10.03	6.27	4.64	4.52	3.69	5.15	---
22	2.74	6.41	5.31	17.24	5.99	7.79	5.92	4.54	4.63	3.66	5.24	---
23	---	5.79	6.86	17.38	6.76	7.12	6.68	4.39	4.88	4.05	2.88	---
24	2.70	6.77	7.66	14.61	7.78	7.99	5.89	3.96	5.05	3.65	2.75	3.19
25	4.84	9.75	9.12	11.61	7.96	7.98	5.68	4.03	5.44	3.60	3.78	3.18
26	6.60	12.19	9.15	17.36	7.45	7.88	4.54	4.37	5.51	2.81	3.38	3.16
27	6.61	15.12	7.95	18.72	11.40	7.80	4.28	4.28	5.26	2.78	3.68	---
28	5.76	13.12	5.81	17.58	19.05	7.58	4.17	4.19	3.99	3.53	3.86	---
29	4.41	11.58	5.59	15.68	---	6.00	4.52	4.22	3.87	4.60	4.07	---
30	3.83	8.78	7.11	12.87	---	7.02	4.46	4.44	3.70	3.65	3.70	3.30
31	3.56	---	7.22	10.88	---	8.38	---	4.06	---	3.55	3.57	---
MEAN	---	5.83	7.84	9.84	8.33	11.52	6.54	4.41	4.55	4.12	3.67	---
MAX	---	15.12	11.46	18.72	19.05	24.83	9.26	4.97	5.56	5.63	5.24	---
MIN	---	3.08	5.31	4.26	5.65	6.00	4.17	3.96	3.70	2.78	2.75	---

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

LOCATION.--Lat 34°22'57", Long 84°03'21", Dawson County, Hydrologic Unit 03150104, at bridge on State Highway 53, 4 mi southeast of Dawsonville. The stilling well for the discontinued gaging-station is located on the left bank, 0.5 mi upstream from the bridge.

DRAINAGE AREA.--107 mi².

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.

REVISED RECORDS.--WDR GA-80-1: Drainage area.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PERCENT SATURATION)
MAY 07...	0700	240	20	26	7.00	7.73	20.0	8.9	102
AUG 25...	0700	74	22	25	6.97	7.30	23.5	6.8	82

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	HARDNESS (MG/L AS CaCO3)	HARDNESS NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CaCO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
MAY 07...	9	3.8	6	0	1.3	0.60	1.4	32	0.3	0.70	9.0	1.7
AUG 25...	2	1.9	6	0	1.3	0.63	1.5	32	0.3	0.80	9.0	1.9

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, 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)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
MAY 07...	2.0	<0.10	<0.10	9.2	22	--	--	--	0.100	<0.100	<0.010	0.020
AUG 25...	3.0	1.0	0.10	9.5	19	24	3.8	0.03	<0.100	<0.100	<0.010	<0.010

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DIS-SOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)
MAY 07...	--	--	1.0	<0.20	1.1	--	0.020	0.020	1.3	<10	<1	<1
AUG 25...	--	--	0.40	<0.20	--	--	0.010	<0.010	1.8	30	<1	<1

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELENIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAY 07...	<1	<10	<1	80	<5	<5	15	<0.10	0.1	<1	4
AUG 25...	<1	60	<1	160	<5	<5	14	0.20	0.1	2	10

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 September 1905 (prior to October 1896, gage heights only), October 1936 to current year. Monthly discharge only for January to March 1896, 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). WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 844.55 ft above 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 during periods of backwater caused by Allatoona Reservoir.

REMARKS.--Estimated daily discharges: Dec. 3-5, Jan. 5-9, and Feb. 18, 19. Records good.

AVERAGE DISCHARGE.--60 years (water years 1897-1905, 1937-87), 1,236 ft³/s, 27.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,300 ft³/s, Jan. 7, 1946, gage height, 26.7 ft; minimum, 120 ft³/s, July 23, 24, 1886.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 36,700 ft³/s, January 1892, gage height, 25.0 ft, present datum, from National Weather Service. Maximum stage known since 1892, Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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)
Oct. 26	0800	7,230	13.37	Mar. 1	1100	*12,200	*18.43
Jan. 19	1400	6,690	12.69				

Minimum discharge, 165 ft³/s, Oct. 8, 9, gage height, 1.09 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	556	1230	845	1250	11600	1810	964	770	681	320	226
2	226	530	1600	894	1330	4950	1580	951	823	926	300	232
3	210	521	1600	837	1610	2990	1710	953	769	1050	300	211
4	202	507	1270	803	1400	2420	2050	946	913	966	413	197
5	192	495	1040	770	1290	2080	1690	929	750	1090	467	188
6	185	507	913	740	1220	1850	1550	909	649	809	479	196
7	177	513	833	710	1270	1720	1460	896	611	741	411	290
8	169	562	805	690	1250	1630	1410	874	614	661	404	427
9	177	588	885	660	1150	1730	1360	837	592	593	419	354
10	426	568	1120	702	1060	1660	1320	817	561	556	373	282
11	674	560	1410	773	1040	1510	1290	808	558	525	338	267
12	413	590	1530	689	1050	1470	1280	856	589	505	324	344
13	427	626	1260	643	1060	1440	1240	881	682	483	310	419
14	1290	583	1040	631	1000	1390	1300	937	758	465	296	403
15	983	547	928	654	1030	1360	1720	1010	740	455	287	308
16	565	564	865	685	1140	1330	1710	881	1070	440	281	278
17	424	576	816	685	1260	1300	1490	836	913	424	285	267
18	362	566	912	1630	1140	1330	1390	794	1280	413	284	264
19	326	548	912	5810	1020	1640	1320	837	1070	403	288	268
20	302	634	805	3340	954	1540	1270	850	1220	396	273	285
21	290	1260	755	2010	940	1400	1220	819	1280	387	250	321
22	280	908	714	1720	971	1330	1190	809	1370	375	233	267
23	267	735	734	1640	1180	1290	1160	785	1070	374	225	242
24	261	785	1340	1380	1110	1260	1120	762	920	367	217	226
25	1950	773	1710	1740	1010	1410	1090	743	799	348	212	220
26	5840	1630	1360	3570	1010	1490	1060	736	998	336	217	220
27	2090	3030	1140	2300	1760	1390	1030	715	886	341	224	212
28	1290	1660	1010	1760	6990	1680	1040	809	688	329	217	205
29	918	1290	927	1530	---	1510	1030	766	609	309	215	210
30	710	1080	882	1410	---	1610	989	754	576	298	260	263
31	612	---	845	1330	---	2190	---	741	---	302	231	---
TOTAL	22443	24292	33191	43581	38495	63500	40879	26205	25128	16348	9353	8092
MEAN	724	810	1071	1406	1375	2048	1363	845	838	527	302	270
MAX	5840	3030	1710	5810	6990	11600	2050	1010	1370	1090	479	427
MIN	169	495	714	631	940	1260	989	715	558	298	212	188
CFSM	1.18	1.32	1.75	2.29	2.24	3.34	2.22	1.38	1.37	.86	.49	.44
IN.	1.36	1.47	2.01	2.64	2.34	3.85	2.48	1.59	1.52	.99	.57	.49
CAL YR 1986	TOTAL	204873	MEAN 561	MAX 5840	MIN 122	CFSM .92	IN. 12.43					
WTR YR 1987	TOTAL	351507	MEAN 963	MAX 11600	MIN 169	CFSM 1.57	IN. 21.33					

MOBILE RIVER BASIN

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ETOWAH RIVER AT CANTON, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.24	2.22	3.49	2.81	3.51	17.93	4.70	3.02	2.66	2.48	1.63	1.36
2	1.31	2.16	4.27	2.90	3.69	10.20	4.24	3.00	2.77	2.95	1.57	1.38
3	1.25	2.14	4.31	2.79	4.30	7.03	4.51	3.00	2.66	3.17	1.57	1.31
4	1.22	2.11	3.70	2.73	3.83	5.91	5.19	2.99	2.93	3.03	1.87	1.27
5	1.19	2.08	3.26	2.69	3.60	5.25	4.46	2.96	2.63	3.24	2.01	1.25
6	1.16	2.11	2.93	2.66	3.46	4.78	4.16	2.92	2.42	2.74	2.04	1.27
7	1.13	2.12	2.79	2.62	3.55	4.52	3.98	2.90	2.34	2.61	1.87	1.54
8	1.10	2.23	2.73	2.60	3.50	4.33	3.86	2.86	2.35	2.44	1.85	1.91
9	1.13	2.29	2.88	2.53	3.33	4.54	3.76	2.79	2.30	2.30	1.89	1.72
10	1.85	2.24	3.30	2.53	3.18	4.40	3.66	2.75	2.23	2.22	1.77	1.52
11	2.44	2.23	3.85	2.67	3.16	4.08	3.60	2.74	2.22	2.15	1.68	1.47
12	1.84	2.29	4.13	2.50	3.17	4.00	3.56	2.83	2.29	2.10	1.64	1.69
13	1.87	2.37	3.55	2.41	3.19	3.94	3.49	2.87	2.48	2.05	1.60	1.89
14	3.65	2.28	3.16	2.38	3.09	3.82	3.61	2.97	2.64	2.01	1.56	1.85
15	3.05	2.20	2.96	2.43	3.14	3.75	4.50	3.10	2.60	1.98	1.53	1.59
16	2.23	2.24	2.85	2.49	3.32	3.68	4.51	2.87	3.20	1.94	1.51	1.51
17	1.90	2.26	2.75	2.50	3.53	3.62	4.03	2.79	2.93	1.90	1.52	1.48
18	1.74	2.24	2.93	4.33	3.34	3.68	3.83	2.71	3.61	1.88	1.52	1.47
19	1.64	2.20	2.93	11.50	3.19	4.35	3.66	2.79	3.21	1.85	1.53	1.48
20	1.57	2.38	2.73	7.64	3.01	4.14	3.54	2.82	3.49	1.83	1.49	1.53
21	1.54	3.54	2.64	5.11	2.98	3.83	3.45	2.76	3.59	1.81	1.42	1.63
22	1.51	2.92	2.55	4.52	3.04	3.69	3.40	2.74	3.80	1.78	1.37	1.48
23	1.47	2.60	2.59	4.36	3.38	3.59	3.35	2.69	3.21	1.77	1.34	1.42
24	1.45	2.69	3.74	3.79	3.28	3.52	3.29	2.65	2.95	1.75	1.33	1.37
25	4.80	2.67	4.51	4.53	3.11	3.86	3.23	2.61	2.72	1.70	1.31	1.36
26	11.44	4.35	3.74	8.15	3.10	4.04	3.19	2.60	3.08	1.67	1.33	1.35
27	5.27	7.09	3.32	5.67	4.59	3.82	3.15	2.56	2.88	1.68	1.35	1.33
28	3.61	4.39	3.10	4.61	12.77	4.44	3.16	2.74	2.50	1.65	1.32	1.32
29	2.94	3.61	2.96	4.13	---	4.08	3.14	2.66	2.34	1.59	1.32	1.33
30	2.54	3.23	2.88	3.86	---	4.30	3.07	2.63	2.26	1.56	1.45	1.47
31	2.34	---	2.81	3.69	---	5.46	---	2.61	---	1.57	1.37	---
MEAN	2.37	2.72	3.24	3.88	3.73	4.92	3.78	2.80	2.78	2.11	1.57	1.49
MAX	11.44	7.09	4.51	11.50	12.77	17.93	5.19	3.10	3.80	3.24	2.04	1.91
MIN	1.10	2.08	2.55	2.38	2.98	3.52	3.07	2.56	2.22	1.56	1.31	1.25
CAL YR 1986	MEAN 2.13		MAX 11.44	MIN .95								
WTR YR 1987	MEAN 2.94		MAX 17.93	MIN 1.10								

MOBILE RIVER BASIN

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 28...	0930	1330	42	41	6.80	6.90	13.5	17.0	9.6	94
FEB 24...	0815	1140	38	35	6.90	7.20	7.5	6.0	11.7	99
APR 29...	0755	1040	37	36	7.10	6.70	16.0	16.5	9.3	96
JUL 28...	0740	332	37	34	7.00	7.00	25.5	27.5	6.7	84

DATE	TUR- BID- ITY (NTU)	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 28...	46	1.3	<33000	11	0.590	0.080	0.050	5.6
FEB 24...	6.0	1.3	70	15	0.250	<0.020	0.040	2.8
APR 29...	4.0	1.2	80	14	0.240	<0.020	0.030	1.6
JUL 28...	2.0	0.8	--	14	0.110	<0.020	<0.020	1.2

MOBILE RIVER BASIN

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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. WDR GA-80-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 686.92 ft above 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.--No estimated daily discharges. Records good. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)
AVERAGE DISCHARGE.--49 years, 1,900 ft³/s, 23.04 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 discharge, 152 ft³/s, Oct. 15, 1966.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,910 ft³/s, Jan. 21, gage height, 7.28 ft; minimum daily discharge, 280 ft³/s, Jan. 13, 21, 27-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	416	385	2510	3290	306	306	2320	948	1240	1050	297	910	
2	423	393	2370	3280	5110	2250	2330	324	1400	1540	296	914	
3	422	638	2370	326	5110	4150	2340	320	1240	1540	1960	930	
4	420	636	2360	324	5150	4140	322	937	1240	288	1970	930	
5	427	638	2360	1890	5180	4120	324	941	1230	288	1950	306	
6	433	636	344	1700	5190	4120	1470	985	288	2190	324	314	
7	434	633	340	2310	299	297	1430	942	289	2190	680	984	
8	432	394	1920	1740	297	297	1440	938	1230	2490	288	982	
9	436	400	1900	1910	3140	7160	1450	315	1230	2190	287	988	
10	435	641	1910	316	2280	7400	1450	318	907	2200	2170	987	
11	363	655	1910	316	2110	7470	283	1600	905	1710	1530	322	
12	363	645	1900	1280	2120	5310	288	944	893	285	288	324	
13	454	640	830	1270	2090	5200	1420	938	280	2470	1840	325	
14	445	638	333	1280	298	290	1440	935	288	872	1840	992	
15	443	405	3380	1280	297	289	1470	924	1890	877	288	986	
16	449	405	3410	1280	976	2550	1470	306	289	894	288	992	
17	452	862	3410	314	972	2550	1470	306	1850	856	2160	333	
18	366	848	3420	338	973	2560	322	930	1870	288	2160	1000	
19	373	834	3430	1820	973	2550	324	925	1870	288	2440	334	
20	462	847	335	2940	972	2470	1570	928	281	1180	3380	333	
21	487	835	333	4920	297	306	1560	919	280	1180	3410	334	
22	469	397	3240	5080	298	306	2880	918	1210	1800	296	1010	
23	470	393	2910	5080	976	2450	1580	297	1220	1200	297	1000	
24	472	1360	2920	313	973	2540	1560	297	2000	1190	1550	989	
25	382	1350	2910	326	974	2540	314	916	2010	288	923	992	
26	382	1360	2930	5070	973	2560	315	907	2010	288	908	327	
27	563	1340	326	5070	909	2530	317	907	280	1190	913	333	
28	557	1330	326	5070	343	313	945	913	280	2580	917	1000	
29	555	365	3210	5110	---	315	942	915	280	1220	297	1000	
30	549	361	3230	5100	---	943	948	298	902	1210	297	996	
31	559	---	3240	307	---	2330	---	299	---	1210	917	---	
TOTAL	13893	21264	66317	70650	49586	82612	36294	23290	31182	39042	37161	22167	
MEAN	448	709	2139	2279	1771	2665	1210	751	1039	1259	1199	739	
MAX	563	1360	3430	5110	5190	7470	2880	1600	2010	2580	3410	1010	
MIN	363	361	326	307	297	289	283	297	280	285	287	306	
MEAN†	1201	1291	1636	2687	2322	3029	1842	1093	1021	591	409	300	
CFSM†	1.07	1.15	1.46	2.40	2.07	2.70	1.64	.98	.91	.53	.37	.27	
INF†	1.24	1.29	1.68	2.77	2.16	3.12	1.84	1.13	1.02	.61	.42	.30	
CAL YR 1986 TOTAL	284073	MEAN	778	MAX	3430	MIN	301	MEAN†	852	CFSM†	.76	INF†	10.33
WTR YR 1987 TOTAL	493458	MEAN	1352	MAX	7470	MIN	280	MEAN†	1448	CFSM†	1.29	INF†	17.56

†ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

MOBILE RIVER BASIN

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 24...	1000	373	58	--	7.20	6.90	15.0	15.5	8.4	85
JAN 28...	1000	315	52	50	7.10	6.80	6.0	1.0	11.8	96
MAR 24...	0815	5080	47	43	7.00	6.90	9.5	14.0	9.8	88
MAY 28...	0730	297	46	48	6.80	7.00	15.0	23.5	7.6	76
JUL 29...	1345	297	52	47	6.90	7.10	24.0	32.5	6.4	78
SEP 22...	0700	343	58	56	6.60	6.50	23.0	16.5	4.1	49

DATE	TUR- BID- ITY (NTU)	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 24...	4.0	0.4	20	17	2	0.300	0.090	<0.020	2.3	230	40
JAN 28...	7.0	0.6	<20	18	--	0.390	0.040	0.030	2.5	600	20
MAR 24...	30	--	--	14	53	0.360	0.050	0.030	5.2	660	120
MAY 28...	2.0	0.6	20	13	<1	0.290	<0.020	<0.020	2.9	100	<10
JUL 29...	<1.0	1.2	--	16	8	0.100	0.070	<0.020	1.8	310	240
SEP 22...	8.0	1.5	50	21	12	<0.020	0.260	0.170	2.6	780	180

MOBILE RIVER BASIN

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02394980 ETOWAH RIVER NEAR EUHARLEE, GA.

LOCATION.--Lat 34°11'28", long 84°55'44", Bartow County, Hydrologic Unit 03150104, at bridge on Hardin Bridge Road, 1,000 ft downstream from Ashpole Creek, and 3 mi north of Euharlee.

DRAINAGE AREA.--1,610 mi².

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

REVISED RECORDS.--WDR GA-80-1: Drainage area.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
29...	1430	540	132	127	7.50	7.50	17.5	23.5	8.5	90
NOV										
25...	1415	780	105	102	7.20	7.30	15.5	20.0	8.2	84
DEC										
30...	1430	2850	110	104	7.50	7.40	8.5	10.0	9.6	84
JAN										
29...	1415	4200	118	113	7.30	7.30	6.0	10.0	12.5	102
FEB										
25...	1415	3400	126	122	7.60	7.80	9.5	15.5	11.8	104
MAR										
26...	1130	1020	104	109	7.70	--	12.0	25.0	10.6	100
MAY										
05...	1230	700	126	122	7.80	7.40	16.0	22.0	9.8	101
28...	0815	660	94	98	7.40	7.50	18.5	24.0	7.7	83
JUN										
23...	0730	900	92	91	7.20	7.20	19.5	23.5	7.3	81
JUL										
29...	1245	460	98	92	7.20	7.20	23.5	36.0	8.0	96
AUG										
26...	1400	400	112	114	7.60	7.70	25.0	36.0	8.0	98
SEP										
23...	1345	560	120	121	7.70	7.20	23.0	26.0	8.6	102

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CAC03	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)
OCT											
29...	14	1.5	330	44	5	39	10	0.350	0.090	0.090	2.4
NOV											
25...	11	0.7	330	--	--	31	22	0.440	0.110	0.070	2.1
DEC											
30...	7.0	2.7	50	46	10	36	2	0.480	0.040	0.050	2.7
JAN											
29...	15	0.8	50	46	9	37	24	0.520	0.160	0.040	4.2
FEB											
25...	15	1.0	20	58	10	48	11	0.470	<0.020	0.070	1.5
MAR											
26...	11	1.6	75	52	15	37	12	0.560	0.190	0.030	5.1
MAY											
05...	5.0	0.6	170	50	9	41	2	0.440	0.050	0.050	1.9
28...	5.0	0.6	70	42	11	31	5	0.400	<0.020	<0.020	1.9
JUN											
23...	8.0	0.8	710	30	0	30	3	0.430	0.090	0.080	1.2
JUL											
29...	<1.0	1.4	--	33	2	31	6	0.180	0.070	0.030	1.8
AUG											
26...	3.0	1.1	170	--	--	41	<1	0.180	0.080	0.040	1.6
SEP											
23...	4.0	3.5	130	42	4	38	<1	0.170	0.350	0.170	2.9

MOBILE RIVER BASIN

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 July 1928, published in WSP 1304, 1734.

REVISED RECORDS.--WSP 1304: 1929-30.

GAGE.--Water-stage recorder. Datum of gage is 609.97 ft above National Geodetic Vertical Datum of 1929 (Dixie Construction Co. benchmark). 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.--No estimated daily discharges. 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.--54 years (water years 1929-31, 1937-87), 2,566 ft³/s, 21.38 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, 10,700 ft³/s, Feb. 28, gage height, 11.84 ft; minimum daily, 393 ft³/s, Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	489	638	1160	3410	1050	8670	3450	1290	1110	1200	931	1010
2	491	464	3460	3420	3810	3630	3060	908	1610	1630	424	1000
3	506	471	2680	1970	5390	5490	3080	705	1610	1760	1200	999
4	469	693	2670	664	5320	5130	2280	1020	1520	1110	1990	995
5	481	691	2600	1960	5270	4920	1270	1320	1530	627	2000	865
6	498	712	1590	1500	5290	4820	1830	1340	1150	1650	1230	428
7	491	773	644	2500	2620	2810	2260	1310	554	2350	889	412
8	490	747	1510	1970	1060	1190	2200	1270	1050	2500	717	1060
9	510	509	2130	2170	2320	5440	2160	961	1420	2620	475	1070
10	500	516	2260	1280	3900	7720	2160	643	1170	2390	1710	1060
11	477	760	2480	638	2540	7690	1470	1330	1120	2130	1720	1080
12	430	776	2640	1210	2520	6160	923	1390	1100	1140	1000	443
13	495	764	2010	1510	2470	5880	1550	1290	869	1540	1410	449
14	640	951	854	1550	895	3200	2100	1250	830	1740	1890	446
15	622	535	2180	1570	819	1050	2080	1260	1610	1090	1000	1060
16	566	531	3590	1560	1530	1930	2090	1080	1550	1070	440	1060
17	538	539	3580	972	1590	3090	2060	643	1630	1080	1400	1040
18	523	940	3640	2000	1550	3190	1420	800	2180	893	2160	423
19	449	911	3650	7630	1510	3950	893	1220	2150	477	2220	1030
20	449	1020	2150	4660	1500	3740	1430	1240	1420	842	2970	424
21	500	1390	719	5510	860	2540	2180	1320	642	1340	3270	425
22	521	1150	2230	6030	843	1210	2550	1260	1270	1430	1710	704
23	515	665	3140	5620	1520	2040	2650	1060	1590	1740	428	1030
24	555	699	3270	2740	1500	3200	2010	613	2140	1320	880	1020
25	721	1600	3330	2130	1460	3210	1390	815	2370	936	1280	1030
26	1020	2700	3250	7030	1470	3150	727	1170	2270	457	1030	706
27	696	2390	1880	6410	2200	3140	727	1170	1140	821	1020	393
28	745	1910	753	5820	6540	2260	1110	1160	592	1700	997	695
29	698	1730	2140	5640	---	1110	1320	1160	576	2140	883	1020
30	661	797	3400	5540	---	1750	1330	992	822	1310	421	1080
31	660	---	3390	2680	---	2070	---	628	---	1290	562	---
TOTAL	17406	28972	74980	99294	69347	115380	55760	33618	40595	44323	40257	24457
MEAN	561	966	2419	3203	2477	3722	1859	1084	1353	1430	1299	815
MAX	1020	2700	3650	7630	6540	8670	3450	1390	2370	2620	3270	1080
MIN	430	464	644	638	819	1050	727	613	554	457	421	393

CAL YR 1986 TOTAL 371495 MEAN 1018 MAX 3650 MIN 407 MEAN† 1092 CFSM† .67 IN† 9.08
WTR YR 1987 TOTAL 644389 MEAN 1765 MAX 8670 MIN 393 MEAN† 1861 CFSM† 1.14 IN† 15.47

†ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

MOBILE RIVER BASIN

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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 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
MAR					
10...	1300	602	13.0	12	20
10...	1305	602	13.0	15	24
AUG					
18...	1316	414	28.0	7	7.8
18...	1321	414	28.0	7	7.8
SEP					
22...	1036	439	25.5	12	14
22...	1041	439	25.5	11	13

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV					
03...	1331	419	19.0	6	6.8
03...	1336	419	19.0	6	6.8
DEC					
15...	1042	711	9.0	5	9.6
15...	1047	711	9.0	6	12
JAN					
26...	1242	5210	5.0	221	3110
26...	1247	5210	5.0	224	3150
APR					
20...	1021	867	18.5	8	19
20...	1026	867	18.5	7	16
JUL					
13...	0957	620	26.5	20	33
13...	1002	620	26.5	23	39
AUG					
24...	0911	454	24.5	12	15
24...	0916	454	24.5	10	12

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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
APR											
28...	1118	650	--	3	15	58	93	98	99	100	--
28...	1119	650	--	3	11	40	82	97	100	--	--
28...	1120	650	--	1	3	21	54	61	64	70	100
28...	1121	650	2	19	64	97	100	--	--	--	--

MOBILE RIVER BASIN

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. Elevation of gage is 730 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good, except those less than 10 ft³/s, which are fair.

AVERAGE DISCHARGE.--7 years, 38.0 ft³/s, 15.59 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,180 ft³/s, Feb. 3, 1982, gage height, 7.91 ft; minimum daily discharge, 5.1 ft³/s, Oct. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 28	2300	*1,330	*6.23

Minimum daily discharge, 5.1 ft³/s, Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	8.4	32	27	44	554	62	21	14	13	8.5	7.7
2	7.1	8.4	29	25	59	153	54	20	14	13	11	7.0
3	7.2	8.9	27	24	54	108	59	21	14	13	9.7	6.9
4	7.0	8.9	25	24	45	84	65	20	15	19	11	7.1
5	7.4	9.8	23	23	41	68	69	21	13	14	14	7.8
6	8.2	11	22	23	39	60	61	20	13	13	18	8.4
7	5.1	26	21	22	43	54	55	19	13	13	14	9.4
8	5.8	26	22	22	38	54	49	19	13	12	15	13
9	7.6	18	22	21	35	88	44	18	13	12	15	8.6
10	7.7	16	37	22	33	72	41	18	12	11	11	12
11	6.6	17	42	21	32	59	39	20	13	11	12	16
12	7.0	18	40	20	31	55	38	20	16	11	9.6	30
13	12	16	35	21	29	51	36	18	14	11	9.0	18
14	14	14	31	20	28	47	39	18	15	11	7.7	11
15	8.2	15	30	22	28	44	38	18	15	10	7.6	8.7
16	7.5	15	28	21	34	41	37	17	16	11	7.9	7.8
17	7.3	13	29	21	29	40	35	17	15	10	7.9	7.6
18	7.2	13	31	146	28	55	33	17	14	10	7.8	7.4
19	7.4	13	28	281	27	97	31	16	13	10	7.5	8.0
20	7.3	27	27	124	25	72	30	16	14	9.9	6.9	8.1
21	7.4	25	26	102	25	60	31	17	14	10	6.9	7.0
22	7.4	20	25	105	27	52	27	16	19	9.6	6.9	6.3
23	7.7	20	29	103	27	47	26	16	14	9.7	6.9	7.5
24	9.0	22	37	100	25	43	25	16	14	8.6	6.7	7.1
25	45	22	34	289	24	42	24	15	13	8.6	7.1	5.7
26	26	70	32	259	30	39	24	15	13	8.6	8.7	5.5
27	12	43	30	117	200	43	23	15	12	8.7	7.6	5.6
28	9.8	37	29	84	751	43	22	14	12	8.5	7.4	5.7
29	8.7	33	28	68	---	39	21	14	12	8.5	6.8	7.2
30	7.9	31	26	58	---	67	21	15	12	8.5	6.9	10
31	8.0	---	25	50	---	83	---	14	---	8.9	7.4	---
TOTAL	303.4	625.4	902	2265	1831	2414	1159	541	414	336.1	290.4	278.1
MEAN	9.79	20.8	29.1	73.1	65.4	77.9	38.6	17.5	13.8	10.8	9.37	9.27
MAX	45	70	42	289	751	554	69	21	19	19	18	30
MIN	5.1	8.4	21	20	24	39	21	14	12	8.5	6.7	5.5
CFSM	.30	.63	.88	2.21	1.98	2.35	1.17	.53	.42	.33	.28	.28
IN.	.34	.70	1.01	2.55	2.06	2.71	1.30	.61	.47	.38	.33	.31
CAL YR 1986	TOTAL	5416.2	MEAN	14.8	MAX	70	MIN	5.1	CFSM	.45	IN	6.09
WTR YR 1987	TOTAL	11359.4	MEAN	31.1	MAX	751	MIN	5.1	CFSM	.94	IN	12.77

MOBILE RIVER BASIN

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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 July to December 1903, published in WSP 1304.

REVISED RECORDS.--WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft above 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.--Estimated daily discharges: Apr. 26 to May 18. Records fair. Flow regulated by Allatoona Reservoir since 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.--65 years (water years 1905-20, 1939-87), 2,946 ft³/s, 21.98 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 discharge, 360 ft³/s, Oct. 10, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 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, 17,000 ft³/s, Mar. 1, gage height, 26.24 ft, minimum daily discharge, 487 ft³/s, Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	591	782	737	3870	1400	16000	4030	1550	858	1390	1540	1210
2	588	583	3400	3870	2470	6470	3600	1550	1950	1580	649	1210
3	605	566	2740	3320	6240	7710	3630	840	1940	2040	632	1190
4	589	809	2780	905	6410	7210	3130	820	1860	2100	2220	1200
5	559	829	2830	1490	6410	6670	1560	1550	1750	765	2310	1200
6	569	839	2430	2090	6380	6420	1810	1550	1780	854	2260	545
7	601	952	773	2840	5250	4450	2740	1550	746	2640	867	559
8	587	962	1230	2490	1410	1310	2680	1550	687	2730	1210	1220
9	607	650	2460	2760	2130	4300	2640	1550	1690	2990	672	1270
10	617	637	2270	1980	4520	9890	2600	880	1690	2690	659	1270
11	591	910	2220	859	3080	10300	2310	860	1370	2680	2660	1290
12	508	899	2370	1120	3040	7900	1170	2250	1350	2180	1800	644
13	634	857	1870	1780	2940	7300	1400	1550	1380	758	714	612
14	756	877	1180	1880	2060	6020	2550	1550	835	2870	2200	587
15	708	896	1520	1910	1110	1450	2510	1550	1140	1380	2160	1240
16	668	643	4090	1910	1410	1850	2470	1550	2620	1340	677	1280
17	654	656	3980	1690	1800	3760	2330	880	1110	1340	628	1250
18	637	1130	4040	1150	1670	3840	2040	840	2540	1280	2420	578
19	527	1070	4070	8560	1740	4600	1000	1500	2480	631	2430	1240
20	540	1120	3140	7310	1810	4560	1190	1520	2460	636	2790	583
21	603	1460	913	5260	1530	3600	2420	1590	845	1580	3550	541
22	613	1320	1610	6070	1050	1540	2460	1570	916	1580	3500	549
23	608	710	3580	7110	1290	1910	3560	1530	1970	2150	598	1220
24	647	540	3660	5940	1640	3830	2390	824	1830	1600	560	1230
25	688	1180	3650	1730	1530	3810	2210	802	2520	1580	1860	1220
26	957	1620	3590	6790	1670	3750	960	1430	2610	627	1260	1230
27	627	1730	3100	8980	1940	3730	900	1440	2540	616	1230	534
28	756	1320	955	8370	7740	3320	880	1430	776	1560	1220	487
29	820	1230	1460	7780	---	1500	1550	1440	744	2790	1210	1220
30	803	535	3830	7110	---	1690	1550	1450	738	1600	530	1280
31	783	---	3850	5480	---	2360	---	836	---	1560	527	---
TOTAL	20041	28312	80328	124404	81670	153050	66270	41782	47725	52117	47543	29689
MEAN	646	944	2591	4013	2917	4937	2209	1348	1591	1681	1534	990
MAX	957	1730	4090	8980	7740	16000	4030	2250	2620	2990	3550	1290
MIN	508	535	737	859	1050	1310	880	802	687	616	527	487
CAL YR 1986 TOTAL	403789			1106	4090	508	MEAN	1180	CFSM	.65	INT	8.80
WTR YR 1987 TOTAL	772931			2118	16000	487	MEAN	2214	CFSM	1.22	INT	16.52

+ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

MOBILE RIVER BASIN

02396000 ETOWAH RIVER AT ROME, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
29...	1245	1170	148	146	7.70	7.60	17.5	21.0	7.6	80
NOV										
25...	1230	2390	152	147	7.50	7.40	15.0	19.5	8.4	85
DEC										
30...	1300	3200	80	73	7.70	7.30	9.0	12.5	9.6	84
JAN										
29...	1215	4060	70	69	7.50	7.20	7.0	8.0	11.2	93
FEB										
25...	1215	797	150	145	7.70	7.90	9.0	11.5	10.4	91
MAR										
26...	0915	5410	80	81	7.60	7.20	11.5	20.0	10.2	95
APR										
30...	1420	1240	130	147	8.10	7.90	19.5	--	8.4	93
MAY										
28...	0900	2460	102	105	7.60	7.70	18.0	27.0	8.0	85
JUN										
23...	0815	3320	138	138	7.60	7.60	19.0	26.0	7.7	85
JUL										
29...	1100	3780	72	68	7.20	7.10	23.5	32.0	6.9	83
AUG										
26...	1200	1730	87	88	7.50	7.60	25.0	34.0	7.3	89
SEP										
23...	1145	1440	160	132	7.90	--	21.5	23.5	8.2	94

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CAC03	ALKA- LITY 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											
29...	26	1.3	130	60	10	50	17	0.360	0.080	0.080	5.2
NOV											
25...	54	1.9	1400	60	11	49	166	0.500	0.080	0.150	4.0
DEC											
30...	16	2.2	90	15	0	34	--	0.420	0.560	0.050	2.2
JAN											
29...	14	1.0	130	28	5	23	27	0.420	0.110	0.060	3.4
FEB											
25...	11	1.3	50	70	16	54	6	0.530	<0.020	0.050	2.2
MAR											
26...	20	1.1	50	32	4	28	33	0.470	0.160	0.040	3.2
APR											
30...	5.0	3.5	50	66	13	53	6	0.440	<0.020	0.080	2.2
MAY											
28...	8.0	0.6	210	38	1	37	13	0.390	<0.020	0.060	2.3
JUN											
23...	16	0.9	110	29	0	48	42	0.450	0.090	0.190	2.5
JUL											
29...	6.0	1.7	--	24	2	22	32	0.150	0.180	0.060	1.5
AUG											
26...	5.0	2.0	330	--	--	32	4	0.130	0.030	0.030	3.4
SEP											
23...	15	3.5	330	45	10	35	10	0.290	0.060	0.170	3.3

MOBILE RIVER BASIN

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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 left 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. Water years 1959-62 (annual maximum only). Gage-height records collected at same site for period 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 above 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.--No estimated daily discharges. 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.--56 years (water years 1897-1903, 1929-31, 1938-58, 1963-87), 6,669 ft³/s, 22.42 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, 33,600 ft³/s, Mar. 1, gage height, 27.45 ft; minimum daily, 983 ft³/s Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	1740	6110	6230	6260	32700	8430	2930	2570	2490	1950	2190
2	1060	1530	7880	6300	6410	31800	7720	2930	3540	2690	1230	1900
3	1060	1440	8200	6110	10200	28800	7560	2430	3470	3240	1230	1830
4	1030	1560	7920	3470	11200	27300	7800	2420	3510	3610	2510	1850
5	1000	1610	7210	2990	11400	24800	6190	3270	3410	2630	2690	1870
6	983	1600	6180	3900	10400	18400	6120	3200	3680	2760	2640	1420
7	1000	1920	3920	4070	9680	13500	6760	3160	2600	4440	1380	1420
8	1020	2300	3690	4200	5700	8650	6270	3080	2420	4290	1750	1950
9	1100	2480	5090	4000	5100	11000	5800	3210	3100	4380	1330	2060
10	1150	2260	7680	3680	6960	16700	5540	2730	3040	3940	1390	2240
11	1120	2280	10200	2460	6020	16400	5240	2700	2700	3820	2930	2300
12	1070	2850	10800	2420	5810	14100	4010	3820	2650	3300	2030	1660
13	1470	3210	9930	3070	5610	11900	3790	3280	2710	2200	1190	1400
14	2320	2920	7110	3060	5200	10700	4830	3380	2330	3870	2330	1390
15	2670	2670	5680	3020	4030	5900	5030	3460	2540	2380	2340	1720
16	2530	2270	7430	3100	4910	5210	5210	3610	3960	2190	1120	1760
17	1990	2190	7510	3150	6500	6670	6080	2950	2790	2100	1060	1750
18	1590	2510	7690	5720	7010	6790	6020	2810	4000	2000	2510	1280
19	1340	2730	7370	18400	6070	8720	4740	3280	3990	1510	2660	1640
20	1220	3330	6930	22200	5320	9920	4250	3170	4450	1480	2990	1190
21	1180	4790	4070	19700	4970	9380	4960	3410	2970	2130	3810	1050
22	1180	5210	3540	19700	4440	6690	4540	3300	3170	2110	3960	1030
23	1150	4350	5800	20200	5320	5840	5540	3110	3600	2570	1380	1540
24	1160	5280	6670	16600	6620	7060	4510	2570	3760	2080	1260	1560
25	3230	8740	8190	11000	6850	7030	4300	2660	4350	2040	2210	1560
26	5420	11600	8270	19400	6260	6930	2830	3060	4370	1310	1810	1540
27	5340	16600	7000	22600	10900	6830	2620	2960	4060	1280	2030	1020
28	4350	14000	4200	20900	22300	6620	2520	2860	2420	1960	2180	992
29	2700	11100	3880	18100	---	4560	2950	2850	2290	3230	2350	1540
30	2140	7750	6090	13700	---	5660	2900	3110	2120	2080	1970	1650
31	1880	---	6220	10800	---	7360	---	2630	---	1970	1860	---
TOTAL	57483	134820	208460	304250	207450	383920	155060	94340	96570	82080	64080	48302
MEAN	1854	4494	6725	9815	7409	12380	5169	3043	3219	2648	2067	1610
MAX	5420	16600	10800	22600	22300	32700	8430	3820	4450	4440	3960	2300
MIN	983	1440	3540	2420	4030	4560	2520	2420	2120	1280	1060	992

CAL YR 1986 TOTAL 1060953 MEAN 2907 MAX 16600 MIN 983 MEANT 2976 CFSMT .74 INT 10.00
WTR YR 1987 TOTAL 1836815 MEAN 5032 MAX 32700 MIN 983 MEANT 5107 CFSMT 1.26 INT 17.17

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE, CARTERS RE-REGULATION DAM, AND ALLATOONA RESERVOIR.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.93	11.54	13.57	13.61	13.62	26.97	14.48	12.25	11.98	12.01	11.66	11.83
2	10.93	11.38	14.26	13.63	13.68	26.52	14.20	12.25	12.45	12.12	11.10	11.63
3	10.93	11.30	14.39	13.56	15.15	24.93	14.14	11.97	12.41	12.38	11.10	11.57
4	10.90	11.40	14.27	12.53	15.54	24.06	14.25	11.96	12.45	12.56	11.96	11.59
5	10.86	11.44	13.99	12.30	15.61	22.64	13.64	12.38	12.40	12.13	12.08	11.60
6	10.84	11.43	13.59	12.69	15.21	19.17	13.62	12.34	12.52	12.21	12.05	11.25
7	10.86	11.66	12.71	12.77	14.95	16.51	13.86	12.32	12.02	12.92	11.25	11.26
8	10.88	11.91	12.62	12.82	13.41	14.57	13.69	12.27	11.91	12.86	11.55	11.65
9	10.97	12.03	13.17	12.74	13.17	15.49	13.53	12.33	12.25	12.89	11.20	11.74
10	11.03	11.89	14.18	12.60	13.89	17.83	13.44	12.10	12.23	12.70	11.25	11.86
11	10.99	11.90	15.18	12.02	13.53	17.71	13.33	12.07	12.08	12.64	12.29	11.90
12	10.94	12.23	15.39	11.99	13.44	16.68	12.83	12.57	12.05	12.41	11.87	11.46
13	11.30	12.42	15.06	12.35	13.36	15.81	12.75	12.33	12.09	11.86	11.22	11.23
14	11.93	12.28	13.96	12.34	13.20	15.34	13.18	12.37	11.88	12.66	12.02	11.22
15	12.14	12.14	13.40	12.32	12.74	13.49	13.26	12.41	12.01	11.97	12.03	11.48
16	12.06	11.90	14.08	12.36	13.09	13.22	13.33	12.47	12.67	11.84	11.15	11.52
17	11.71	11.85	14.11	12.38	13.71	13.78	13.65	12.17	12.16	11.78	11.07	11.51
18	11.43	12.04	14.18	13.40	13.91	13.83	13.62	12.08	12.69	11.71	12.07	11.12
19	11.20	12.17	14.05	19.18	13.55	14.60	13.12	12.30	12.69	11.37	12.14	11.41
20	11.09	12.43	13.88	21.27	13.26	15.06	12.90	12.25	12.89	11.34	12.27	11.04
21	11.05	13.05	12.76	19.96	13.12	14.85	13.19	12.36	12.27	11.79	12.62	10.89
22	11.05	13.22	12.56	19.96	12.90	13.78	13.01	12.32	12.36	11.78	12.67	10.86
23	11.02	12.87	13.44	20.20	13.26	13.47	13.39	12.23	12.55	12.01	11.21	11.33
24	11.03	13.24	13.78	18.23	13.76	13.93	12.99	11.96	12.61	11.76	11.10	11.36
25	12.29	14.60	14.39	15.54	13.85	13.92	12.89	12.00	12.85	11.72	11.80	11.35
26	13.30	15.67	14.42	19.75	13.62	13.88	12.26	12.22	12.87	11.17	11.56	11.33
27	13.27	17.82	13.92	21.49	15.46	13.84	12.11	12.17	12.73	11.14	11.71	10.86
28	12.88	16.59	12.82	20.55	21.32	13.76	12.05	12.11	11.97	11.66	11.82	10.82
29	12.16	15.52	12.69	19.00	---	12.95	12.27	12.12	11.90	12.32	11.94	11.33
30	11.81	14.21	13.55	16.69	---	13.39	12.24	12.25	11.79	11.76	11.69	11.43
31	11.64	---	13.60	15.39	---	14.04	---	12.01	---	11.68	11.61	---
MEAN	11.47	12.80	13.81	15.34	14.12	16.45	13.24	12.22	12.32	12.04	11.71	11.38
MAX	13.30	17.82	15.39	21.49	21.32	26.97	14.48	12.57	12.89	12.92	12.67	11.90
MIN	10.84	11.30	12.56	11.99	12.74	12.95	12.05	11.96	11.79	11.14	11.07	10.82
CAL YR 1986	MEAN 12.08		MAX 17.82		MIN 10.84							
WTR YR 1987	MEAN 13.07		MAX 26.97		MIN 10.82							

MOBILE RIVER BASIN

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02397000 COOSA RIVER NEAR ROME, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--February 1986 to September 1987 (discontinued).

INSTRUMENTATION.--Water-temperature recorder. Water temperature recorded hourly.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 31.0°C, July 19, 21, 1986; minimum recorded, 4.5°C, Feb. 13, 1986, Jan. 28, 1987.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 30.0°C, July 27; minimum, 4.5°C, Jan. 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
29...	1030	2600	130	126	7.50	7.30	16.0	17.0	7.2	74
NOV										
25...	1015	9220	125	118	7.20	7.10	12.5	17.0	8.6	82
DEC										
30...	1045	7000	120	111	7.70	7.30	8.0	11.0	10.2	87
JAN										
29...	1015	19500	76	73	7.50	7.10	5.0	6.0	12.0	95
FEB										
25...	1045	6760	130	125	7.50	7.80	8.5	10.0	11.0	95
MAR										
25...	1400	7350	95	93	7.40	7.40	12.5	26.0	8.0	76
APR										
30...	1440	2880	132	146	7.60	7.50	19.0	--	6.9	76
MAY										
28...	1115	3540	130	134	7.50	7.60	24.5	31.5	6.3	76
JUN										
23...	1100	4520	148	146	7.50	7.50	24.0	31.0	6.4	77
JUL										
29...	0945	5420	128	120	7.60	7.60	27.5	29.5	7.3	94
AUG										
26...	0930	2300	130	129	7.90	7.70	27.0	30.0	7.3	93
SEP										
23...	1010	2150	150	154	7.60	7.30	22.0	22.5	7.7	89

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB 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										
29...	27	1.1	700	52	12	40	0.470	0.210	0.250	6.3
NOV										
25...	110	3.9	23	50	11	39	0.470	0.200	0.410	8.9
DEC										
30...	17	2.1	330	54	11	43	0.510	0.110	0.150	2.1
JAN										
29...	30	2.0	2800	32	8	24	0.410	0.090	0.090	2.9
FEB										
25...	25	2.0	610	56	5	51	0.390	<0.020	0.100	7.0
MAR										
25...	11	--	--	60	23	37	0.430	0.040	0.070	1.8
APR										
30...	4.0	1.5	80	60	7	53	0.490	<0.020	0.180	2.9
MAY										
28...	10	1.0	210	56	7	49	0.530	<0.020	0.170	2.9
JUN										
23...	16	1.6	1300	56	2	54	0.490	0.120	0.210	1.7
JUL										
29...	9.0	1.6	--	48	2	46	0.210	0.040	0.150	44
AUG										
26...	2.0	2.3	330	48	3	45	0.190	0.040	0.170	2.4
SEP										
23...	8.0	1.2	330	54	5	49	0.460	0.040	0.400	3.6

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

MOBILE RIVER BASIN

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02397080 COOSA RIVER AT PLANT HAMMOND, NEAR COOSA, GA.

LOCATION.--Lat 34°14'58", Long 85°20'09", Floyd County, Hydrologic Unit 03150105, on right bank at upstream end of the Georgia Power Plant Hammond water intake, 0.6 mi upstream from bridge on State Highway 100, 1.6 mi downstream from Beech Creek, 1.2 mi southeast of Coosa, at mile 270.2.

DRAINAGE AREA.--4,100 mi², approximately.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--February 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 550 ft above National Geodetic Vertical Datum of 1929 from Georgia Power staff gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 24.41 ft, Mar. 1, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 24.41 ft, Mar. 1.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.01	12.10	11.75	10.64	11.04	23.67	13.80	13.48	13.99	13.63	12.96	13.13
2	10.86	12.25	12.38	10.73	10.56	24.08	13.69	13.43	14.05	13.68	13.01	13.02
3	10.78	12.31	12.85	10.68	12.56	22.90	13.72	13.60	14.00	13.80	13.03	12.82
4	10.79	12.23	12.79	9.83	13.37	22.13	13.92	13.70	14.15	14.04	13.05	12.65
5	10.87	12.13	12.42	9.79	13.69	21.08	13.52	13.63	14.01	14.01	13.04	12.57
6	10.85	12.03	11.87	9.75	13.23	18.72	13.74	13.56	13.99	14.10	13.01	12.65
7	10.74	11.96	11.48	9.58	13.05	16.58	13.88	13.58	14.07	14.17	12.82	12.70
8	10.68	12.01	11.50	9.55	11.03	14.70	13.79	13.56	14.09	14.06	12.81	12.65
9	10.72	12.25	11.65	9.29	10.44	14.91	13.70	13.65	14.03	14.00	12.90	12.56
10	10.62	12.32	12.47	9.25	10.88	16.58	13.48	13.79	13.96	13.87	12.92	12.46
11	10.45	12.29	13.34	9.06	10.50	16.46	13.39	13.88	13.85	13.86	13.04	12.45
12	10.58	12.42	13.59	9.12	10.41	15.75	13.35	13.99	13.77	14.02	12.96	12.46
13	10.81	12.45	13.34	9.16	10.41	14.89	13.46	13.91	13.82	14.00	12.81	12.58
14	10.89	12.23	11.98	9.16	10.44	14.43	13.40	13.90	13.98	14.04	12.90	12.65
15	10.97	12.10	11.22	9.13	10.40	12.45	13.40	13.95	14.03	13.78	12.99	12.52
16	11.01	12.19	11.81	8.99	11.04	11.96	13.39	14.03	14.13	13.64	12.98	12.44
17	10.86	12.33	11.87	8.93	11.28	12.39	13.74	14.05	13.99	13.52	12.99	12.35
18	10.80	12.32	12.06	10.47	11.65	12.59	13.90	14.05	14.05	13.49	13.12	12.19
19	10.91	12.18	11.87	16.21	11.38	13.59	14.02	14.04	14.07	13.57	13.20	12.15
20	10.93	12.19	11.58	18.76	10.98	14.09	14.11	14.00	14.20	13.55	13.26	12.22
21	10.85	12.25	10.55	17.90	10.70	13.94	14.17	13.95	14.08	13.49	13.41	12.23
22	10.85	12.09	10.29	17.85	10.80	13.08	14.01	13.89	14.19	13.43	13.49	12.05
23	10.76	11.88	10.72	18.13	11.55	12.94	14.04	13.84	14.20	13.38	13.29	11.90
24	10.69	12.03	11.02	16.82	11.87	13.14	13.76	13.95	14.22	13.24	13.24	11.75
25	11.20	12.79	11.70	14.24	11.97	13.13	13.65	14.05	14.45	13.22	13.25	11.60
26	12.15	13.97	11.93	17.49	11.67	13.05	13.73	13.89	14.32	13.29	13.22	11.56
27	12.58	15.92	11.48	19.14	13.91	12.97	13.80	13.81	14.17	13.29	13.17	11.62
28	12.38	15.35	10.36	18.54	18.92	12.99	13.66	13.71	13.92	13.20	13.07	11.60
29	12.21	14.23	9.97	17.41	---	12.69	13.59	13.62	13.82	13.28	13.05	11.46
30	12.15	12.67	10.58	15.46	---	13.10	13.51	13.72	13.68	13.11	13.13	11.45
31	12.06	---	10.59	13.91	---	13.52	---	13.88	---	12.97	13.18	---
MEAN	11.10	12.58	11.71	12.74	11.78	15.44	13.71	13.81	14.04	13.64	13.07	12.28
MAX	12.58	15.92	13.59	19.14	18.92	24.08	14.17	14.05	14.45	14.17	13.49	13.13
MIN	10.45	11.88	9.97	8.93	10.40	11.96	13.35	13.43	13.68	12.97	12.81	11.45

WTR YR 1987 MEAN 13.00 MAX 24.08 MIN 8.93

MOBILE RIVER BASIN

02397080 COOSA RIVER AT PLANT HAMMOND, NEAR COOSA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1986 to September 1987 (discontinued).

INSTRUMENTATION.--Water-temperature recorder. Water Temperature recorded hourly.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 37.5°C, July 23, 24, 1986; minimum recorded, 4.5°C, Jan. 28, 29, 1987.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 34.0°C, Aug. 4; minimum, 4.5°C, Jan. 28, 29.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	32.5	28.0	18.0	15.5	13.5	13.5	8.0	8.0	7.0	7.0	8.0	7.5
2	32.0	28.5	20.5	16.0	13.5	12.5	8.0	8.0	8.0	7.0	8.5	8.0
3	32.5	28.5	20.5	17.5	12.5	12.0	8.0	7.5	8.5	7.5	9.5	8.5
4	31.5	30.0	20.5	17.5	12.0	11.5	7.5	7.0	7.5	7.5	9.5	9.5
5	32.5	29.0	21.0	17.0	11.5	10.5	7.0	6.5	8.0	7.5	9.5	9.5
6	31.5	28.5	21.0	17.5	10.5	10.0	7.5	7.0	8.0	7.5	9.5	9.5
7	31.0	28.0	20.0	18.0	10.0	9.5	7.5	7.0	8.0	8.0	9.5	9.5
8	30.0	27.0	19.5	18.5	9.5	9.5	8.5	7.5	9.0	8.5	10.5	9.5
9	30.0	24.5	18.5	18.5	10.5	9.5	8.0	7.5	9.0	8.0	11.0	10.5
10	27.0	22.5	18.5	18.5	12.0	10.5	8.0	8.0	8.0	7.0	11.0	10.0
11	25.5	22.0	19.0	18.0	11.5	11.5	8.0	7.5	7.0	7.0	10.0	9.0
12	25.0	24.0	18.0	17.0	11.5	11.0	7.5	7.0	8.5	7.0	9.0	8.5
13	24.0	20.0	17.0	15.0	11.0	10.0	7.5	6.5	9.5	8.0	8.5	8.5
14	20.0	19.0	15.0	13.5	10.0	9.0	7.5	7.0	9.5	9.0	9.0	8.5
15	19.5	19.0	13.5	12.0	9.0	9.0	8.0	7.5	9.5	9.0	10.0	9.0
16	19.0	18.0	12.0	12.0	10.0	9.0	9.0	8.0	9.5	9.5	12.0	10.0
17	18.0	18.0	12.0	12.0	10.5	10.0	9.0	9.0	9.5	8.5	13.0	11.5
18	18.0	17.5	13.5	12.0	11.0	10.5	9.0	8.5	8.5	8.0	11.5	11.0
19	19.5	17.5	14.5	13.5	11.0	10.5	8.5	8.5	8.0	7.5	11.0	11.0
20	19.5	16.5	14.5	14.0	10.5	10.5	8.5	8.5	7.5	7.5	11.0	11.0
21	20.0	17.0	13.5	13.0	10.0	10.0	8.0	7.5	8.0	7.5	12.0	11.0
22	19.5	16.5	13.0	12.0	10.0	9.0	7.0	6.5	8.0	8.0	12.5	12.0
23	20.5	16.0	12.0	12.0	9.0	9.0	6.5	6.0	8.5	8.0	13.5	12.5
24	18.5	16.0	12.5	12.0	9.0	9.0	6.0	5.5	8.5	8.5	13.5	12.5
25	18.5	16.0	13.5	12.5	9.5	9.0	6.0	5.5	8.5	8.5	13.0	12.5
26	16.5	16.5	14.5	13.5	9.0	9.0	6.0	6.0	8.5	8.5	13.5	13.0
27	16.5	16.5	14.5	14.5	9.0	9.0	6.0	5.0	8.5	7.5	13.5	13.0
28	16.5	16.0	14.5	14.5	9.0	8.5	5.0	4.5	7.5	7.5	14.0	13.0
29	16.0	15.5	14.0	13.5	8.5	8.5	5.0	4.5	---	---	15.0	13.5
30	16.0	15.5	13.5	13.5	8.5	8.0	6.5	5.0	---	---	15.0	15.0
31	15.5	15.5	---	---	8.5	8.0	7.0	6.5	---	---	15.0	13.0
MONTH	32.5	15.5	21.0	12.0	13.5	8.0	9.0	4.5	9.5	7.0	15.0	7.5

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

[illegible]

MOBILE RIVER BASIN

02397100 COOSA RIVER AT STATE HIGHWAY 100, NEAR COOSA, GA.

LOCATION.--Lat 34°15'55", long 85°21'20", Floyd County, Hydrologic Unit 03150105, in gage house on floating raft positioned just downstream of the State Highway 100 bridge.

DRAINAGE AREA.--4,110 mi².

PERIOD OF RECORD.--February 1986 to September 1987 (discontinued).

INSTRUMENTATION.--Water-quality monitor. Water Temperature recorded bi-hourly.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 40.0°C, July 23, 1986; minimum recorded, 5.5°C, Jan. 29, 1987.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 37.0°C, Aug. 3, 4; minimum, 5.5°C, Jan. 29.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	35.0	32.5	22.0	19.5	---	---	10.0	8.5	---	---	8.5	8.0
2	35.5	33.5	22.5	19.5	---	---	10.0	9.0	---	---	9.5	8.5
3	35.0	33.0	23.0	20.5	---	---	9.5	8.0	---	---	10.5	9.0
4	35.5	33.0	23.0	21.5	---	---	10.0	9.0	9.5	8.5	10.5	9.5
5	35.0	33.5	22.5	20.5	---	---	11.0	8.5	9.5	8.5	10.5	10.0
6	35.0	32.5	22.5	20.5	---	---	11.0	7.5	9.5	8.5	---	---
7	34.0	32.0	22.5	20.0	---	---	10.5	8.5	10.0	9.0	---	---
8	33.0	30.5	22.5	21.0	---	---	11.0	8.5	11.0	10.0	---	---
9	33.0	29.0	22.0	20.0	---	---	11.0	9.5	11.5	11.0	---	---
10	29.5	25.0	22.5	20.0	---	---	11.0	9.0	11.5	11.0	---	---
11	28.5	25.5	22.5	20.5	12.0	11.5	11.5	11.0	11.0	8.5	---	---
12	28.5	26.0	21.0	18.5	12.0	11.5	11.5	10.0	10.5	8.0	---	---
13	28.5	22.5	18.5	17.0	11.0	10.0	11.5	9.0	11.5	9.5	---	---
14	23.0	21.5	17.0	15.5	10.0	9.5	11.5	9.5	11.5	10.5	---	---
15	22.0	20.5	15.5	14.0	9.5	9.0	12.0	9.5	12.0	10.5	---	---
16	21.5	20.5	15.0	14.0	10.5	9.0	13.0	10.5	12.0	10.5	---	---
17	22.5	19.5	16.0	13.0	11.0	10.0	13.0	10.5	11.0	10.0	---	---
18	23.0	21.0	16.0	13.5	11.5	10.5	13.0	8.5	10.5	9.5	---	---
19	23.0	20.5	16.5	15.0	11.5	10.5	9.5	8.5	10.0	9.5	12.5	12.0
20	23.5	20.5	16.5	14.5	11.5	10.5	9.5	9.0	10.0	9.0	12.5	11.5
21	23.5	21.5	14.5	12.5	12.5	11.0	9.0	8.5	10.5	9.5	13.0	11.5
22	23.0	21.0	13.5	12.5	12.5	11.0	8.5	8.0	11.0	9.5	14.0	13.0
23	25.0	21.5	13.5	13.0	11.0	9.5	8.0	7.0	10.5	9.5	15.0	13.0
24	23.5	18.5	13.5	12.5	10.0	8.5	8.5	6.5	10.5	9.5	15.0	14.0
25	23.0	18.0	13.5	12.5	10.5	9.0	---	---	10.5	9.0	14.0	13.0
26	18.0	17.5	14.5	13.0	10.5	9.0	---	---	11.0	10.0	15.0	13.5
27	18.5	17.0	---	---	11.0	9.0	---	---	10.5	8.5	14.5	14.0
28	18.5	17.5	---	---	11.0	10.0	6.5	6.0	8.5	8.0	14.0	13.0
29	20.0	17.0	---	---	11.0	9.5	6.5	5.5	---	---	15.5	13.5
30	20.5	18.5	---	---	10.5	8.5	8.5	6.0	---	---	16.5	15.0
31	21.5	18.5	---	---	10.0	9.0	9.0	7.5	---	---	15.5	14.0
MONTH	35.5	17.0	23.0	12.5	12.5	8.5	13.0	5.5	12.0	8.0	16.5	8.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

[illegible]

MOBILE RIVER BASIN

02397410 CEDAR CREEK AT CEDARTOWN, GA.

LOCATION.--Lat 33°59'45", long 85°15'53", Polk County, Hydrologic Unit 03150105, at right downstream bridge pier 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 above National Geodetic Vertical Datum of 1929 (datum published incorrectly in 1981 and 1982).

REMARKS.--No estimated daily discharges. Records fair.

AVERAGE DISCHARGE.--6 years, 84.4 ft³/s in/yr, 17.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,080 ft³/s, Feb. 3, 1982, gage height, 16.43 ft; minimum daily discharge 10 ft³/s, Aug. 6, 1986.

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 greater than base discharge 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. 19	0030	1,640	10.21	Feb. 28	2330	*3,230	*13.88
Minimum daily discharge, 12 ft ³ /s, Oct. 16, 17.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	16	89	37	93	1320	92	33	24	42	22	13
2	13	17	78	35	107	374	77	36	23	29	22	13
3	14	18	65	32	97	248	110	38	23	27	31	13
4	14	18	57	31	82	191	126	38	23	66	20	13
5	14	19	51	30	74	155	129	39	23	54	19	13
6	13	19	47	29	73	132	109	38	23	65	30	13
7	13	33	45	28	171	113	95	35	22	124	20	13
8	13	30	43	28	124	128	84	32	22	141	20	13
9	17	24	43	27	96	218	75	30	22	103	19	13
10	20	22	73	28	82	155	65	29	22	48	18	13
11	14	26	87	27	76	123	61	32	22	42	19	13
12	15	28	83	26	72	114	55	38	22	40	18	14
13	58	25	67	26	65	102	51	36	32	37	17	16
14	98	23	58	25	62	91	51	36	34	33	16	16
15	31	25	55	26	60	82	48	39	25	29	16	14
16	12	27	51	25	133	75	46	36	37	26	16	14
17	12	26	48	26	97	68	43	32	31	25	15	14
18	13	24	51	817	80	133	43	31	24	24	14	14
19	13	22	46	878	70	326	42	34	23	23	14	14
20	13	115	43	280	63	189	42	32	23	23	13	15
21	13	68	41	193	60	147	41	30	23	23	13	14
22	13	46	40	176	69	119	40	30	23	23	13	14
23	14	45	47	153	77	100	40	27	23	23	13	14
24	14	104	55	134	63	93	39	25	26	22	13	14
25	23	103	51	570	59	88	38	24	34	22	13	13
26	43	232	46	447	111	74	37	24	25	22	13	13
27	22	109	43	226	538	70	36	23	23	22	13	13
28	16	77	42	173	1650	74	37	24	22	22	13	13
29	16	76	40	143	---	64	36	24	22	22	13	13
30	16	93	39	126	---	119	34	24	44	22	13	30
31	16	---	37	105	---	125	---	24	---	22	13	---
TOTAL	629	1510	1661	4907	4404	5410	1822	973	765	1246	522	425
MEAN	20.3	50.3	53.6	158	157	175	60.7	31.4	25.5	40.2	16.8	14.2
MAX	98	232	89	878	1650	1320	129	39	44	141	31	30
MIN	12	16	37	25	59	64	34	23	22	22	13	13
CFSM	.30	.75	.90	2.36	2.35	2.62	.91	.47	.38	.60	.25	.21
IN.	.35	.84	.92	2.73	2.45	3.01	1.01	.54	.43	.69	.29	.24
CAL YR 1986	TOTAL	11414	MEAN 31.3	MAX 251	MIN 10	CFSM .47	IN 6.35					
WTR YR 1987	TOTAL	24274	MEAN 66.5	MAX 1650	MIN 12	CFSM .99	IN 13.50					

MOBILE RIVER BASIN

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02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

LOCATION.--Lat 34°03'38", long 85°18'41", Polk County, Hydrologic Unit 03150105, at bridge on Cave Springs Road, 4.5 mi upstream from Lake Creek, and 4.5 mi northwest of Cedartown.

DRAINAGE AREA.--115 mi².

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

REVISED RECORDS.--WDR GA-80-1: Drainage area.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the 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 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 29...	1130	30	290	286	7.50	7.70	13.5	17.5	5.9	57
NOV 25...	1130	195	170	161	7.30	7.30	14.5	17.0	7.5	75
DEC 30...	1145	80	272	254	7.50	7.50	9.0	11.5	9.4	83
JAN 29...	1115	285	152	150	7.30	7.30	7.5	6.0	11.0	93
FEB 25...	1130	110	222	215	7.60	7.90	10.5	10.0	9.9	90
MAR 26...	0800	135	209	208	7.70	7.50	14.5	18.0	7.6	76
APR 30...	1230	70	250	274	8.30	8.20	19.0	32.5	11.6	128
MAY 28...	1015	48	280	293	7.70	7.80	21.0	29.0	4.8	55
JUN 23...	1000	46	280	279	7.50	7.60	22.0	27.5	3.2	38
JUL 29...	1015	38	295	282	7.60	7.60	22.5	30.0	4.5	53
AUG 26...	1015	31	310	315	7.70	7.90	22.0	29.5	4.8	56
SEP 23...	1100	37	310	325	7.60	7.50	17.5	24.0	4.9	52

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3	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 29...	3.0	0.9	130	130	3	131	0.610	0.190	0.340	3.0
NOV 25...	40	1.3	3300	82	15	67	0.510	0.190	0.150	6.0
DEC 30...	5.0	2.2	700	140	17	125	0.750	0.240	0.240	1.8
JAN 29...	8.0	1.2	110000	74	9	65	0.690	0.100	0.080	3.4
FEB 25...	4.0	1.8	2300	100	1	103	0.660	<0.020	0.140	3.9
MAR 26...	3.0	3.0	490000	90	0	99	0.610	0.310	0.120	3.8
APR 30...	<1.0	1.4	70	120	4	120	0.810	0.020	0.260	3.6
MAY 28...	2.0	1.0	330	130	0	128	0.930	<0.020	0.250	2.5
JUN 23...	2.0	1.6	490	130	3	127	0.390	0.120	0.340	3.2
JUL 29...	1.0	--	--	140	10	128	0.810	0.330	0.310	2.8
AUG 26...	3.0	1.3	170	140	1	137	0.720	0.110	0.340	2.9
SEP 23...	2.0	1.0	130	130	0	136	0.390	0.140	0.610	4.6

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.

LOCATION.--Lat 34°11'54", long 85°26'46", Floyd County, Ga.--Cherokee County, Ala., Hydrologic Unit 03150105, 6.5 mi south-west 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.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.

REMARKS.--Flow regulated by Allatoona Reservoir and by Carters Lake and Carters 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 Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 253 microsiemens Sept. 15, 1977; minimum recorded, 32 microsiemens Apr. 15, 1979.

pH: Maximum recorded, 9.70 units Dec. 5, 1977; minimum recorded, 6.30 units Nov. 6, 7, 8, 9, 10, 11, 12, 1977.

WATER TEMPERATURE: Maximum recorded, 36.5°C July 25, 1986; minimum recorded, 1.0°C Jan. 13, 1982.

DISSOLVED OXYGEN: Maximum recorded, 15.5 mg/L May 9, 1986; minimum recorded, 1.4 mg/L July 8, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 233 microsiemens Sept. 26; minimum, 62 microsiemens Mar. 1, 2.

pH: Maximum recorded, 9.11 units July 16; minimum recorded, 6.81 units Feb. 18.

WATER TEMPERATURE: Maximum recorded, 34.5°C July 30, 31; minimum, 5.5°C Jan. 28, 29.

DISSOLVED OXYGEN: Maximum recorded, 12.2 mg/L Jan. 29; minimum recorded, 3.1 mg/L Sept. 3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
28...	1330	152	142	7.10	7.10	18.5	17.0	6.0	65
NOV									
24...	1145	153	148	7.20	7.20	14.0	14.5	8.0	79
DEC									
29...	1130	140	128	7.40	7.50	10.5	1.0	9.8	89
JAN									
29...	1500	134	--	7.30	--	6.0	16.0	12.2	100
FEB									
04...	1145	115	104	7.20	7.20	8.5	7.5	11.0	95
MAR									
23...	0930	121	110	7.30	7.10	13.5	14.0	9.0	88
APR									
27...	0930	141	143	7.40	7.30	20.5	17.0	7.4	84
MAY									
26...	1700	170	175	7.60	7.80	28.5	29.5	8.1	106
JUN									
23...	1200	142	138	7.30	7.40	27.0	26.5	6.2	79
JUL									
28...	1100	156	147	8.50	8.10	32.5	32.0	9.2	129
AUG									
20...	0900	167	163	7.50	7.60	30.5	25.5	6.3	85
SEP									
22...	1000	186	193	7.50	7.40	28.5	21.0	6.3	82

MOBILE RIVER BASIN

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02397530 COOSA RIVER NEAR COOSA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TUR- BID- ITY (NTU)	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 NONCARB WH WAT TOT LAB MG/L AS CAC03	ALKA- LINITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 28...	21	25	1.0	<1300	52	8	44	15
NOV 24...	20	18	0.6	490	54	6	48	21
DEC 29...	16	17	2.7	2300	52	19	33	11
JAN 29...	--	--	--	--	--	--	--	--
FEB 04...	20	12	1.2	790	46	9	37	36
MAR 23...	11	8	--	--	50	10	40	15
APR 27...	4.0	11	1.5	50	52	11	41	14
MAY 26...	8.0	10	2.4	40	54	0	68	11
JUN 23...	6.0	20	1.9	110	40	0	44	3
JUL 28...	<1.0	10	2.4	--	51	2	49	12
AUG 20...	6.0	--	1.7	50	48	0	49	--
SEP 22...	5.0	21	3.0	<35	51	0	55	2

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 28...	0.440	0.190	0.41	0.60	1.0	0.300	6.2
NOV 24...	0.330	0.140	0.06	0.20	0.53	0.240	4.2
DEC 29...	0.470	0.240	0.06	0.30	0.77	0.210	4.9
JAN 29...	--	--	--	--	--	--	--
FEB 04...	0.390	0.060	0.24	0.30	0.69	0.380	2.6
MAR 23...	0.410	0.020	0.48	0.50	0.91	0.140	1.1
APR 27...	0.470	0.060	--	--	--	0.160	--
MAY 26...	0.470	<0.020	--	0.10	0.57	0.170	3.3
JUN 23...	0.320	0.030	0.67	0.70	1.0	0.130	1.6
JUL 28...	<0.020	0.050	0.45	0.50	--	0.130	3.1
AUG 20...	0.200	0.130	--	--	--	--	6.6
SEP 22...	0.130	0.160	0.74	0.90	1.0	0.270	3.9

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	216	211	167	162	128	121	138	119	116	94	80	62
2	219	214	179	167	139	128	137	117	136	118	65	62
3	222	218	191	179	153	123	133	116	153	101	78	65
4	223	220	201	189	134	124	137	118	120	99	79	73
5	222	219	218	202	136	126	148	121	117	99	84	76
6	220	217	---	---	136	124	160	149	113	97	94	84
7	218	211	211	205	138	128	186	153	117	94	100	90
8	221	213	210	185	152	137	185	153	116	98	100	89
9	223	220	210	203	161	154	163	140	128	117	116	102
10	228	223	206	191	174	149	159	141	155	128	131	91
11	232	228	204	184	146	130	165	153	160	118	98	93
12	---	---	218	205	130	124	176	154	130	115	95	90
13	---	---	222	216	124	109	192	164	143	123	105	92
14	---	---	222	204	123	114	192	178	143	124	108	91
15	222	205	203	189	134	123	199	189	147	126	111	93
16	204	176	190	181	141	133	189	170	149	133	126	110
17	179	173	193	180	150	116	181	166	157	145	147	124
18	189	176	203	193	128	114	180	158	158	145	158	124
19	218	190	209	203	127	116	161	96	146	141	138	122
20	---	---	210	185	132	116	91	84	146	136	134	118
21	---	---	203	172	130	120	91	88	148	136	130	117
22	---	---	174	151	145	121	91	80	147	139	124	113
23	---	---	159	151	164	143	90	81	153	144	126	121
24	---	---	171	153	178	128	101	87	150	141	137	127
25	---	---	170	145	146	123	109	96	155	144	146	121
26	---	---	141	124	144	125	108	95	147	136	129	116
27	---	---	123	94	135	121	93	83	140	116	131	118
28	---	---	109	94	133	125	93	83	113	82	132	119
29	166	163	114	107	148	129	96	85	---	---	132	119
30	170	166	121	106	157	147	107	91	---	---	141	125
31	168	162	---	---	166	124	111	93	---	---	155	138
MONTH	232	162	222	94	178	109	199	80	160	82	158	62
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	148	128	199	174	---	---	148	145	175	172	163	149
2	140	126	204	195	173	162	---	---	172	158	156	151
3	128	118	201	173	175	171	---	---	161	142	161	154
4	127	117	196	178	---	---	---	---	161	138	153	140
5	126	118	196	185	---	---	---	---	181	161	170	151
6	130	123	198	189	---	---	---	---	181	164	178	168
7	144	131	195	175	---	---	---	---	174	170	179	156
8	144	132	201	191	---	---	159	140	171	164	167	154
9	134	125	193	169	---	---	175	132	166	152	169	163
10	136	126	182	164	166	162	135	117	152	149	171	166
11	136	129	183	170	167	145	129	120	159	149	166	150
12	138	131	184	170	165	149	---	---	192	160	164	158
13	140	129	186	174	170	157	---	---	194	171	160	151
14	143	138	174	163	152	143	---	---	185	171	150	147
15	161	143	---	---	152	144	---	---	173	158	147	143
16	161	135	---	---	169	152	146	129	165	163	---	---
17	139	130	---	---	168	162	163	132	164	161	184	177
18	140	132	---	---	171	149	160	144	166	160	186	176
19	134	125	---	---	173	131	149	145	175	158	190	172
20	136	126	176	165	161	134	166	147	171	156	205	190
21	136	129	176	165	142	138	181	165	168	128	---	---
22	155	138	185	173	139	126	197	182	132	107	198	187
23	158	132	186	162	143	133	197	188	122	111	200	185
24	136	129	174	157	149	135	192	181	125	120	216	197
25	139	121	167	158	175	138	205	183	128	113	227	209
26	143	130	173	166	167	139	201	174	140	124	233	200
27	145	141	174	169	155	131	180	167	148	139	202	194
28	154	147	174	163	141	131	169	155	160	145	211	193
29	167	154	---	---	147	134	180	160	185	160	213	196
30	174	162	---	---	147	136	180	175	179	151	205	187
31	---	---	---	---	---	---	181	174	164	150	---	---
MONTH	174	117	204	157	175	126	205	117	194	107	233	140
YEAR	233	62										

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02397530 COOSA RIVER NEAR COOSA, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.44	7.27	7.19	7.11	7.31	7.20	7.44	7.37	7.21	7.17	7.18	7.01
2	7.67	7.31	7.09	7.06	7.44	7.26	7.42	7.36	7.27	7.17	7.03	6.99
3	7.72	7.29	7.13	7.05	7.54	7.39	7.47	7.40	7.40	7.22	7.15	7.01
4	7.44	7.35	7.10	7.03	7.45	7.38	7.44	7.38	7.30	7.13	7.15	7.09
5	7.43	7.32	7.09	7.03	7.45	7.41	7.40	7.31	7.30	7.19	7.20	7.11
6	7.48	7.32	---	---	7.45	7.39	7.44	7.39	7.29	7.17	7.16	7.10
7	7.75	7.31	7.30	7.19	7.46	7.31	7.57	7.40	7.32	7.16	7.29	7.12
8	8.05	7.36	7.40	7.28	7.40	7.13	7.56	7.41	7.24	7.23	7.26	7.22
9	7.35	7.27	7.31	7.26	7.32	7.19	7.54	7.43	7.33	7.25	7.32	7.24
10	7.27	7.23	7.33	7.22	7.52	7.32	7.48	7.36	7.46	7.32	7.47	7.29
11	7.27	7.22	7.22	7.19	7.41	7.09	7.53	7.47	7.52	7.35	7.29	7.25
12	---	---	7.27	7.19	7.23	6.88	7.54	7.45	7.35	7.32	7.26	7.21
13	---	---	7.26	7.22	7.24	7.15	7.49	7.42	7.45	7.35	7.31	7.18
14	---	---	7.37	7.31	7.28	7.19	7.54	7.45	7.48	7.35	7.31	7.18
15	7.30	7.28	7.43	7.37	7.24	7.19	7.67	7.53	7.50	7.37	7.23	7.18
16	7.33	7.24	7.41	7.39	7.35	7.17	7.60	7.54	7.51	7.40	7.25	7.17
17	7.48	7.25	7.45	7.42	7.44	7.33	7.59	7.53	7.53	7.48	7.42	7.20
18	7.41	7.26	7.56	7.49	7.39	7.32	7.62	7.47	7.58	6.81	7.54	7.41
19	7.31	7.21	7.59	7.41	7.38	7.31	7.46	7.12	7.58	7.44	7.46	7.39
20	---	---	7.56	7.41	7.35	7.32	7.10	7.04	7.58	7.52	7.39	7.27
21	---	---	7.56	7.44	7.39	7.34	7.26	7.09	7.54	7.50	7.31	7.20
22	---	---	7.43	7.27	7.46	7.34	7.25	7.23	7.52	7.47	7.34	7.25
23	---	---	7.35	7.26	7.53	7.42	7.38	7.23	7.51	7.45	7.36	7.29
24	---	---	7.26	7.19	7.63	7.39	7.35	7.21	7.48	7.41	7.44	7.37
25	---	---	7.25	7.13	7.43	7.39	7.31	7.18	7.59	7.48	7.53	7.39
26	---	---	7.15	7.04	7.45	7.38	7.42	7.31	7.55	7.51	7.48	7.41
27	---	---	7.07	6.90	7.46	7.39	7.35	7.28	7.55	7.40	7.47	7.40
28	---	---	7.05	6.93	7.47	7.41	7.32	7.13	7.40	7.18	7.43	7.39
29	7.19	7.07	7.13	7.05	7.46	7.40	7.26	7.10	---	---	7.47	7.38
30	7.28	7.15	7.18	7.10	7.49	7.43	7.22	7.04	---	---	7.46	7.37
31	7.25	7.17	---	---	7.63	7.41	7.33	7.11	---	---	7.48	7.39
MONTH	8.05	7.07	7.59	6.90	7.63	6.88	7.67	7.04	7.59	6.81	7.54	6.99
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.50	7.43	7.58	7.40	---	---	7.86	7.49	8.34	7.78	7.71	7.45
2	7.49	7.44	7.65	7.41	8.34	7.69	---	---	8.08	7.72	7.89	7.29
3	7.48	7.42	7.63	7.36	7.61	7.24	---	---	7.74	7.45	7.85	7.23
4	7.48	7.45	7.65	7.30	---	---	---	---	7.55	7.39	7.45	7.28
5	7.49	7.44	---	---	---	---	---	---	7.63	7.44	7.42	7.28
6	7.45	7.42	---	---	---	---	---	---	7.71	7.43	7.58	7.42
7	7.51	7.43	---	---	---	---	---	---	8.34	7.45	7.58	7.40
8	7.62	7.54	---	---	---	---	7.56	7.30	8.23	7.53	7.57	7.29
9	7.58	7.51	---	---	---	---	7.62	7.46	8.00	7.51	8.14	7.36
10	7.59	7.50	---	---	7.82	7.33	7.53	7.31	7.54	7.32	7.68	7.29
11	7.57	7.45	7.95	7.53	8.42	7.37	7.50	7.31	8.45	7.52	7.67	7.32
12	7.54	7.48	7.82	7.54	8.84	7.43	---	---	7.71	7.46	7.38	7.31
13	7.61	7.48	7.77	7.52	7.98	7.46	---	---	7.76	7.62	7.38	7.28
14	7.50	7.42	7.65	7.55	7.67	7.33	---	---	7.67	7.53	7.44	7.23
15	7.57	7.41	---	---	7.52	7.35	---	---	7.65	7.43	7.58	7.32
16	7.56	7.36	---	---	7.42	7.33	9.11	7.54	7.86	7.44	---	---
17	7.43	7.34	---	---	7.69	7.32	8.43	7.62	8.02	7.61	7.60	7.07
18	7.40	7.34	---	---	7.65	7.35	8.66	7.61	7.79	7.55	7.10	6.94
19	7.39	7.32	---	---	7.39	7.25	8.52	7.49	7.58	7.41	6.93	6.86
20	7.46	7.37	7.68	7.24	7.37	7.23	8.70	7.79	7.87	7.43	6.95	6.85
21	7.47	7.35	7.38	7.22	7.52	7.24	8.56	7.65	8.20	7.48	---	---
22	7.49	7.41	7.47	7.24	7.73	7.32	7.78	7.55	7.58	7.38	7.52	7.30
23	---	---	7.66	7.27	7.55	7.32	7.63	7.46	8.41	7.37	7.42	7.26
24	---	---	7.67	7.27	7.53	7.30	8.42	7.51	8.09	7.41	7.40	7.25
25	---	---	7.88	7.36	7.63	7.20	8.27	7.60	8.60	7.51	7.38	7.18
26	---	---	7.77	7.43	7.66	7.34	8.55	7.79	7.53	7.26	7.81	7.20
27	7.83	7.36	7.95	7.39	7.60	7.28	8.32	7.80	7.85	7.34	7.58	7.20
28	7.67	7.48	7.62	7.37	8.29	7.22	8.86	7.35	7.69	7.42	7.50	7.27
29	7.64	7.42	---	---	8.94	7.77	8.24	7.58	7.73	7.49	7.46	7.37
30	7.68	7.34	---	---	9.04	7.53	8.34	7.55	7.84	7.41	7.43	7.29
31	---	---	---	---	---	---	8.73	7.63	7.55	7.42	---	---
MONTH	7.83	7.32	7.95	7.22	9.04	7.20	9.11	7.30	8.60	7.26	8.14	6.85
YEAR	9.11	6.81										

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	32.0	30.5	19.5	18.5	14.5	14.0	10.0	9.0	8.5	8.0	8.5	8.0
2	32.0	31.0	20.0	19.0	14.5	14.0	10.0	9.0	9.5	9.0	9.0	8.5
3	32.0	31.0	21.0	19.5	13.5	13.0	10.0	9.0	10.0	9.0	10.0	9.0
4	32.0	31.0	20.5	19.5	13.0	12.5	9.0	8.5	9.0	8.5	10.5	9.5
5	31.5	30.5	21.0	20.0	12.5	12.0	10.0	8.5	9.0	8.5	10.5	10.0
6	31.0	30.0	---	---	12.0	11.0	10.5	9.0	9.0	8.5	11.0	10.0
7	31.0	29.5	22.5	21.5	11.5	11.0	10.0	8.5	9.5	9.0	11.0	10.0
8	30.5	29.5	23.5	21.5	11.0	11.0	10.5	9.0	10.0	9.0	11.0	10.5
9	29.5	29.0	22.5	22.0	11.5	11.0	10.5	9.0	10.0	9.5	12.0	11.5
10	29.0	28.5	23.0	21.5	12.0	11.0	11.0	10.0	10.5	9.5	12.0	10.5
11	28.5	27.5	22.0	21.0	12.5	12.0	10.0	9.0	9.5	8.5	10.5	10.0
12	---	---	22.0	21.0	12.5	12.0	10.5	9.0	9.5	8.5	10.0	9.5
13	---	---	21.5	20.0	11.5	11.0	12.0	10.0	11.0	8.5	10.5	9.5
14	---	---	20.0	17.5	10.5	10.0	11.0	9.5	11.0	9.5	11.0	9.5
15	25.5	24.0	17.5	17.0	10.0	10.0	11.0	10.0	11.5	10.0	11.5	10.0
16	24.0	21.5	17.0	16.5	10.0	9.5	11.5	10.5	11.5	10.5	13.0	11.5
17	22.5	21.0	17.0	16.0	11.0	10.0	12.0	11.5	11.0	10.0	14.0	12.5
18	22.0	21.0	17.0	16.0	11.5	11.0	12.5	10.5	10.5	9.5	14.0	12.5
19	22.0	20.5	16.5	16.0	11.5	11.0	10.5	9.0	10.0	9.5	13.0	12.0
20	---	---	16.5	15.5	11.5	11.0	9.0	9.0	10.0	9.5	12.5	12.0
21	---	---	17.0	15.5	11.0	10.5	9.0	8.5	10.0	9.0	13.0	12.0
22	---	---	15.5	14.0	11.5	11.0	8.5	7.5	10.5	9.5	13.5	12.5
23	---	---	14.0	13.5	12.0	10.0	7.5	6.5	11.0	9.5	15.0	13.5
24	---	---	14.5	14.0	11.0	9.5	7.0	6.5	10.5	9.5	15.0	14.0
25	---	---	14.5	14.0	10.5	9.5	7.5	6.5	10.0	9.5	16.0	14.5
26	---	---	15.0	14.5	10.5	10.0	7.5	7.0	10.0	9.5	15.0	14.0
27	---	---	15.5	14.5	10.5	10.0	6.5	6.0	10.0	8.5	15.5	15.0
28	---	---	15.0	14.5	10.5	10.0	6.0	5.5	8.5	8.0	16.0	15.0
29	19.0	17.5	14.5	14.5	10.5	10.0	6.0	5.5	---	---	15.5	14.5
30	20.0	17.5	14.5	14.0	11.0	9.5	7.5	6.0	---	---	16.0	15.0
31	18.5	18.0	---	---	10.5	9.5	8.5	7.5	---	---	16.0	15.0
MONTH	32.0	17.5	23.5	13.5	14.5	9.5	12.5	5.5	11.5	8.0	16.0	8.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.5	13.5	24.5	22.5	---	---	29.0	28.0	34.0	32.0	30.5	29.5
2	13.5	12.5	25.0	23.0	30.0	29.0	---	---	33.5	32.0	31.5	29.5
3	13.0	12.0	25.0	23.0	30.5	27.5	---	---				

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.3	4.6	6.5	6.1	8.9	8.5	10.5	10.3	11.5	11.1	10.2	10.0
2	7.7	5.3	6.2	5.8	9.0	8.7	10.5	10.2	11.0	10.9	10.0	9.6
3	8.1	5.1	6.4	5.8	9.2	8.9	10.3	10.2	11.2	10.7	9.6	9.4
4	6.6	5.7	6.3	5.8	9.0	8.7	10.5	10.3	11.2	10.9	9.5	9.3
5	6.3	5.5	6.2	5.6	9.1	8.7	10.4	10.2	11.2	10.9	9.6	9.3
6	6.7	5.3	---	---	9.4	8.9	10.4	10.1	11.2	10.9	9.5	9.1
7	8.4	5.2	6.0	5.6	9.4	9.1	10.6	10.3	11.2	10.8	10.1	9.4
8	8.7	5.4	6.9	5.6	9.3	9.0	10.5	10.4	11.0	10.5	10.1	9.8
9	5.3	4.6	5.9	5.7	9.4	9.0	10.4	10.2	10.4	10.2	9.8	9.3
10	4.7	4.1	6.5	5.4	9.4	8.8	10.1	10.0	10.5	10.1	9.9	9.3
11	4.6	4.2	5.7	5.3	8.8	8.4	9.9	9.7	11.1	10.5	9.9	9.7
12	---	---	5.3	4.5	8.6	8.3	9.7	9.4	11.1	10.8	10.2	9.9
13	---	---	5.2	4.5	8.9	8.4	9.6	9.4	10.9	10.6	10.5	10.0
14	---	---	6.2	5.2	9.1	8.9	10.0	9.5	10.6	10.2	10.5	10.3
15	5.2	4.7	6.5	6.1	9.5	9.2	10.3	10.0	10.4	10.0	10.5	10.2
16	6.3	5.1	6.6	6.1	10.0	9.5	10.2	10.0	10.1	9.7	10.2	9.9
17	7.5	5.7	6.8	6.5	10.1	9.8	10.0	9.7	9.8	9.6	9.9	9.4
18	7.2	6.0	7.5	6.8	9.8	9.6	9.8	9.6	9.9	9.7	9.6	9.3
19	6.8	5.4	7.6	7.3	9.6	9.4	9.6	9.1	10.0	9.8	9.6	9.3
20	---	---	7.8	7.5	9.6	9.3	9.4	9.0	10.3	9.9	9.5	9.3
21	---	---	7.7	7.4	9.7	9.5	10.0	9.4	10.4	10.2	9.4	9.0
22	---	---	7.8	7.4	9.7	9.3	---	---	10.4	10.3	9.4	9.2
23	---	---	7.9	7.7	9.6	9.3	10.9	10.5	10.4	10.1	9.1	8.9
24	---	---	8.0	7.7	10.1	9.6	11.1	10.6	10.1	10.0	9.0	8.8
25	---	---	8.4	7.9	10.0	9.9	11.4	11.1	10.3	10.1	9.1	8.9
26	---	---	8.1	6.9	10.0	9.7	11.5	11.2	10.3	10.1	9.3	8.9
27	---	---	6.9	6.3	10.1	9.9	11.5	11.3	10.3	10.1	9.0	8.7
28	---	---	7.4	6.8	10.1	10.0	12.1	11.6	10.4	10.2	9.0	8.6
29	6.2	5.5	8.0	7.6	10.0	9.8	12.2	12.0	---	---	9.1	8.5
30	6.8	5.9	8.5	8.2	10.2	9.8	11.9	11.6	---	---	8.9	8.2
31	6.8	6.0	---	---	10.4	10.2	11.7	11.5	---	---	8.2	7.8
MONTH	8.7	4.1	8.5	4.5	10.4	8.3	12.2	9.0	11.5	9.6	10.5	7.8
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.8	7.9	7.1	5.8	---	---	9.6	7.9	12.1	8.3	7.3	5.2
2	9.3	8.9	7.5	5.9	10.3	9.5	---	---	11.8	8.4	8.4	4.3
3	9.6	9.3	7.8	5.7	9.3	6.4	---	---	12.0	8.1	8.2	3.1
4	9.9	9.4	8.1	5.3	---	---	---	---	10.6	7.0	6.9	5.0
5	10.3	10.0	6.2	5.4	---	---	---	---	7.4	5.7	5.4	4.8
6	10.3	10.2	5.9	5.2	---	---	---	---	7.7	5.4	6.8	5.1
7	10.3	10.2	6.3	5.0	---	---	---	---	10.5	5.4	7.6	5.2
8	10.3	10.1	7.1	5.1	---	---	6.9	6.0	10.8	6.9	8.2	5.1
9	10.1	10.0	7.1	5.1	---	---	7.3	6.3	9.7	7.2	10.1	5.9
10	10.0	9.7	8.6	6.2	9.0	6.8	6.9	6.3	8.4	6.3	8.7	5.1
11	9.6	9.2	8.0	6.5	9.8	6.3	7.4	6.2	10.2	6.4	8.7	6.0
12	9.2	8.9	7.5	5.3	10.5	6.9	---	---	7.3	5.9	6.2	5.3
13	9.0	8.5	7.4	5.3	9.5	7.9	---	---	7.1	6.2	6.4	4.9
14	8.4	7.9	6.4	5.5	9.1	6.5	---	---	6.8	5.8	7.7	5.6
15	7.9	7.5	---	---	8.3	6.3	---	---	7.3	5.4	8.7	6.7
16	7.7	7.2	---	---	6.5	5.4	10.0	6.6	8.3	5.2	---	---
17	7.9	7.2	---	---	8.7	5.3	9.2	6.8	9.0	6.6	6.2	4.6
18	7.9	7.3	---	---	8.6	5.9	9.6	6.2	8.3	6.5	7.1	4.7
19	8.2	7.5	---	---	8.6	5.4	10.0	6.1	7.3	5.8	6.2	5.2
20	8.5	8.1	7.4	5.4	6.1	5.3	10.5	9.0	8.4	5.9	6.5	5.5
21	8.5	8.0	6.6	4.8	8.0	5.3	10.2	6.8	9.6	6.2	---	---
22	8.5	8.0	6.6	4.6	8.9	6.3	7.9	6.4	8.3	6.7	6.4	4.9
23	8.4	7.9	7.8	4.4	8.5	6.0	7.3	5.4	10.5	7.1	6.2	5.0
24	8.0	7.6	7.9	5.0	7.6	5.9	10.2	6.2	10.1	7.2	5.9	4.8
25	8.1	7.5	8.8	5.8	7.6	4.7	10.4	7.0	11.8	8.0	5.9	4.2
26	8.9	7.4	8.4	6.6	8.2	5.0	11.1	8.8	8.1	6.2	8.7	4.5
27	9.1	7.4	9.6	6.5	7.5	5.4	10.9	8.9	8.9	6.1	8.0	5.3
28	8.4	7.4	8.6	6.3	9.6	5.5	10.3	6.8	8.2	5.6	7.4	5.8
29	8.1	6.7	---	---	10.1	7.8	10.0	7.0	7.2	5.0	6.6	5.9
30	8.2	6.2	---	---	10.9	8.8	11.0	6.1	8.5	5.3	6.4	5.6
31	---	---	---	---	---	---	12.1	6.5	6.2	5.5	---	---
MONTH	10.3	6.2	9.6	4.4	10.9	4.7	12.1	5.4	12.1	5.0	10.1	3.1
YEAR	12.2	3.1										

MOBILE RIVER BASIN

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.--WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 613.47 ft above 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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--50 years, 356 ft³/s, 25.18 in/yr.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft³/s, Mar. 29, 1951, gage height, 21.0 ft; minimum daily discharge, 38 ft³/s, Oct. 17, 1937, Nov. 9, 1939.EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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. 26	2300	*5,450	*14.68	Mar. 1	0800	5,220	14.54
Jan. 19	1800	5,310	14.60				

Minimum discharge, 54 ft³/s, Oct. 6, gage height, 1.91 ft.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	145	482	242	398	4200	691	151	120	109	71	69
2	67	134	541	229	565	1670	558	147	118	106	70	71
3	64	127	502	214	549	1100	522	147	116	98	74	69
4	60	126	419	204	447	822	507	159	111	117	71	72
5	60	122	360	195	397	652	438	154	107	103	96	71
6	59	122	322	187	367	535	405	144	104	116	84	74
7	61	124	291	180	361	466	378	141	99	156	81	78
8	60	126	291	174	332	491	352	136	101	110	80	81
9	68	122	338	168	298	695	329	131	97	179	83	88
10	73	129	699	172	276	599	304	128	95	114	78	82
11	72	152	616	167	266	489	287	125	94	104	76	86
12	75	253	543	160	255	445	270	126	92	99	76	88
13	140	229	442	156	244	407	252	125	95	95	73	88
14	228	204	379	152	251	375	256	123	106	90	72	86
15	144	198	342	156	272	353	252	122	112	87	70	78
16	109	203	314	152	788	334	247	124	123	86	68	78
17	96	198	290	151	675	314	243	124	134	85	72	77
18	86	195	291	780	514	392	232	120	120	83	87	74
19	80	184	265	4090	427	1260	221	118	119	82	84	75
20	77	360	244	2030	373	803	209	116	117	81	75	75
21	74	524	227	1020	347	612	202	121	114	78	72	74
22	71	363	215	807	363	500	197	116	127	76	81	69
23	70	477	234	680	551	427	189	113	127	77	79	68
24	73	1610	676	525	432	393	182	188	113	78	80	70
25	901	1300	533	1230	390	434	175	134	107	75	75	70
26	1370	3330	424	2220	433	385	169	126	103	74	78	71
27	457	2740	366	1110	2550	355	164	122	96	75	76	70
28	306	983	324	820	3620	337	165	118	93	74	75	70
29	234	680	295	640	---	314	159	118	92	73	75	67
30	192	533	273	542	---	981	154	124	89	72	71	67
31	164	---	253	456	---	1020	---	119	---	71	74	---
TOTAL	5660	15993	11791	20009	16741	22160	8709	4060	3241	2923	2377	2256
MEAN	183	533	380	645	598	715	290	131	108	94.3	76.7	75.2
MAX	1370	3330	699	4090	3620	4200	691	188	134	179	96	88
MIN	59	122	215	151	244	314	154	113	89	71	68	67
CFSM	.95	2.76	1.97	3.34	3.10	3.71	1.50	.68	.56	.49	.40	.39
IN.	1.09	3.08	2.27	3.86	3.23	4.27	1.68	.78	.62	.56	.46	.43

CAL YR 1986	TOTAL	68357	MEAN 187	MAX 3330	MIN 44	CFSM .97	IN 13.18
WTR YR 1987	TOTAL	115920	MEAN 318	MAX 4200	MIN 59	CFSM 1.65	IN 22.34

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
29...	0830	241	280	274	7.60	7.80	14.0	11.0	7.7	76
NOV										
25...	0840	1340	140	134	7.30	7.40	15.0	13.5	8.2	83
DEC										
30...	0900	274	230	215	7.60	7.70	9.0	4.0	10.6	93
JAN										
29...	0800	657	195	186	7.40	7.60	3.0	5.0	11.2	84
FEB										
25...	0915	394	250	243	7.40	8.00	10.0	8.0	8.8	79
MAR										
25...	1115	437	229	220	7.90	7.70	14.0	26.0	9.8	97
APR										
30...	0920	155	320	350	7.80	7.70	17.5	26.0	8.2	87
MAY										
28...	1300	116	420	451	8.00	8.10	24.0	32.0	6.2	75
JUN										
23...	1300	115	385	385	8.00	8.00	23.5	32.5	5.6	67
JUL										
29...	0815	72	--	539	7.70	7.90	24.0	27.5	6.4	--
AUG										
26...	0745	69	500	486	7.90	8.10	22.5	24.5	6.1	71
SEP										
23...	0815	61	490	504	7.90	7.90	16.0	17.0	7.6	78

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCARB WH WAT TOT LAB 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										
29...	8.0	1.6	310	82	0	92	0.430	0.060	0.050	3.2
NOV										
25...	34	1.0	4900	60	12	48	0.410	0.070	0.070	4.4
DEC										
30...	4.0	1.6	50	94	0	96	0.580	0.110	0.070	1.5
JAN										
29...	9.0	1.1	50	74	4	70	0.520	0.060	0.100	2.7
FEB										
25...	7.0	1.2	50	96	3	93	0.470	<0.020	0.040	3.4
MAR										
25...	5.0	--	--	84	0	92	0.460	0.020	0.030	<1.0
APR										
30...	3.0	3.0	60	100	0	116	0.560	<0.020	0.100	3.0
MAY										
28...	5.0	1.1	80	110	0	151	0.620	0.130	0.260	3.0
JUN										
23...	4.0	0.5	80	110	0	140	1.13	0.140	0.200	1.4
JUL										
29...	3.0	1.1	--	200	25	170	1.03	0.060	0.200	2.6
AUG										
26...	5.0	1.3	220	130	0	148	0.530	0.030	0.100	1.8
SEP										
23...	2.0	1.4	130	120	0	168	0.640	0.150	0.210	2.6

MOBILE RIVER BASIN

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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
29...	0930	320	268	256	7.60	7.70	13.0	11.0	8.2	79
NOV										
25...	0930	2500	128	123	7.40	7.40	13.5	13.5	9.4	92
DEC										
30...	1000	420	222	209	7.80	7.70	7.5	4.0	11.8	100
JAN										
29...	0900	960	176	169	7.50	7.50	6.5	5.0	11.3	93
FEB										
25...	1000	570	228	222	7.70	8.00	10.0	8.0	10.3	92
MAR										
25...	1230	540	240	226	7.90	7.70	15.0	26.0	9.6	97
APR										
30...	1015	200	320	345	7.80	7.80	18.0	27.0	8.1	87
MAY										
28...	1200	165	318	328	7.80	8.00	23.5	31.5	6.2	74
JUN										
23...	1200	195	280	277	7.70	7.70	23.5	32.0	5.8	70
JUL										
29...	0900	108	410	386	7.80	7.90	26.0	28.0	6.1	77
AUG										
26...	0815	96	500	515	7.80	8.00	26.0	26.0	5.2	65
SEP										
23...	0915	88	445	469	7.80	7.80	19.0	19.5	6.2	68

DATE	TUR- BID- ITY (NTU)	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 NONCARB WH WAT TOT LAB MG/L AS CAC03	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)
OCT										
29...	11	--	1.3	490	78	0	83	14	0.490	0.110
NOV										
25...	60	--	2.0	7900	--	--	45	139	0.430	0.140
DEC										
30...	4.0	--	1.9	50	110	21	91	<1	0.610	0.060
JAN										
29...	10	--	1.4	490	70	3	67	22	0.540	0.050
FEB										
25...	9.0	--	0.8	80	96	6	90	3	0.510	0.240
MAR										
25...	4.0	--	--	--	98	8	90	11	0.550	<0.020
APR										
30...	<1.0	--	1.3	130	120	4	112	4	0.700	0.060
MAY										
28...	5.0	--	1.0	150	110	0	115	10	0.810	<0.020
JUN										
23...	9.0	--	1.2	790	98	0	105	16	0.590	0.140
JUL										
29...	<1.0	--	1.5	--	120	0	141	7	0.750	0.060
AUG										
26...	2.0	15	1.6	110	110	0	163	2	0.590	0.050
SEP										
23...	2.0	13	1.6	270	110	0	158	<1	0.710	0.080

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
29...	--	--	--	0.120	3.4
NOV					
25...	--	--	--	0.120	6.7
DEC					
30...	--	--	--	0.060	1.9
JAN					
29...	--	--	--	0.060	2.7
FEB					
25...	--	--	--	0.090	--
MAR					
25...	--	--	--	0.060	<1.0
APR					
30...	--	--	--	0.160	3.4
MAY					
28...	--	--	--	0.210	5.7
JUN					
23...	--	--	--	0.190	3.5
JUL					
29...	--	--	--	0.320	2.1
AUG					
26...	0.85	0.90	1.5	0.300	4.6
SEP					
23...	0.62	0.70	1.4	0.390	4.8

MOBILE RIVER BASIN

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.

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

REVISED RECORDS.--WDR GA-80-1: Drainage area.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 05...	1030	51	48	48	7.10	6.90	16.0	20.0	7.7	80
JAN 07...	1030	175	42	39	7.30	6.80	4.5	15.0	12.2	97
MAR 02...	1145	1700	32	30	6.80	6.70	8.0	13.0	11.0	95
MAY 07...	0745	240	38	38	6.40	6.90	17.5	21.5	9.6	103
JUL 08...	0730	470	35	35	6.70	6.70	23.0	23.0	7.4	89
SEP 01...	0900	20	47	45	6.90	6.90	23.0	25.0	6.4	77

DATE	TUR- BID- ITY (NTU)	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)
NOV 05...	9.0	1.7	130	18	0.040	0.030	0.070	5.0
JAN 07...	5.0	1.1	50	13	0.120	0.050	0.030	1.6
MAR 02...	40	0.8	700	6.0	0.180	0.040	0.050	11
MAY 07...	9.0	1.3	170	13	0.190	0.050	0.040	2.5
JUL 08...	<1.0	2.4	1700	12	0.150	0.220	0.050	8.1
SEP 01...	13	0.8	50	15	0.150	0.070	0.080	4.9

MOBILE RIVER BASIN

355

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 upstream 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
08...	0900	30	180	172	7.00	7.20	20.0	18.0	6.6	74
NOV										
05...	1130	54	135	133	7.00	7.00	16.5	22.0	7.4	78
DEC										
03...	1115	345	65	62	6.80	6.80	10.0	10.0	10.1	92
JAN										
07...	1130	170	62	60	7.20	7.00	5.0	15.0	11.6	93
FEB										
04...	1130	340	58	57	7.00	6.50	9.0	15.5	11.4	101
MAR										
02...	1015	3200	40	41	6.90	6.60	8.0	12.0	10.2	88
APR										
08...	1000	390	52	--	6.50	6.70	11.0	16.0	9.2	86
MAY										
07...	0845	250	66	66	6.90	6.90	17.5	22.0	7.7	83
JUN										
04...	0915	320	82	80	6.80	6.80	24.5	25.0	6.6	81
JUL										
08...	0830	480	57	57	6.70	6.90	24.0	27.0	6.4	78
AUG										
06...	1115	140	84	77	6.70	6.90	25.5	28.5	6.0	76
SEP										
01...	1000	39	133	130	7.00	7.00	22.5	25.0	5.8	69

DATE	TUR- BID- ITY (NTU)	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								
08...	11	1.7	--	26	2.26	0.100	0.260	4.0
NOV								
05...	8.0	1.7	100	22	1.58	0.160	0.160	5.7
DEC								
03...	17	2.7	330	13	0.460	0.340	0.150	3.8
JAN								
07...	7.0	1.6	130	16	0.620	0.320	0.080	2.2
FEB								
04...	15	0.6	170	10	0.460	0.260	0.110	3.7
MAR								
02...	40	1.2	1400	7.0	0.350	0.030	0.220	3.5
APR								
08...	8.0	0.9	110	13	0.410	0.140	0.110	2.0
MAY								
07...	12	1.4	490	15	0.820	0.120	0.160	3.1
JUN								
04...	29	2.2	4900	14	1.17	0.110	0.220	3.0
JUL								
08...	27	2.4	700	15	0.510	0.100	0.150	4.1
AUG								
06...	14	1.4	3300	16	1.63	0.220	0.180	5.1
SEP								
01...	17	1.0	130	22	1.06	0.160	0.200	6.9

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN

02381400 CARTERS LAKE NEAR CARTERS, GA.

LOCATION.--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).

REMARKS.--Lake is formed by rolled rock-filled dam. Emergency spillway (crest elevation, 1,070 ft) is equipped with five tainter 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, 328,800 acre-ft July 26, 1985, elevation, 1,056.40 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 403,700 acre-ft, Mar. 2, elevation, 1,080.30 ft; minimum, 336,000 acre-ft, Sept. 17, elevation, 1,058.90.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			acre-feet	(equivalent in cubic feet per second)
Sept. 30.....	1065.30	355200	-	-
Oct. 31.....	1067.70	362700	+7500	+122
Nov. 30.....	1074.60	384700	+22000	+370
Dec. 31.....	1070.30	370800	-13900	-226
CAL YR 1986	-	-	-1500	-2
Jan. 31.....	1070.45	371300	+500	+8
Feb. 28.....	1074.00	382800	+11500	+207
Mar. 31.....	1070.90	372800	-10000	-163
Apr. 30.....	1073.70	381800	+9000	+151
May 31.....	1074.40	384100	+2300	+37
June 30.....	1072.70	378500	-5600	-94
July 31.....	1069.60	368600	-9900	-161
Aug. 31.....	1067.70	362700	-5900	-96
Sept. 30.....	1060.60	341000	-21700	-365
WTR YR 1987	-	-	-14200	-20

02382400 CARTERS RE-REGULATION DAM NEAR CARTERS, GA.

LOCATION.--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).

REMARKS.--Reservoir is formed by concrete gravity dam with earth dikes on either side. Spillway (crest elevation, 662.5 ft) is equipped with four tainter 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, Sept. 9, elevation, 698.64 ft; minimum, 1,600 acre-ft, Apr. 20, elevation, 675.42 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			acre-feet	(equivalent in cubic feet per second)
Sept. 30.....	688.38	9400	-	-
Oct. 31.....	690.13	10700	+1300	+21
Nov. 30.....	686.04	7700	-3000	-50
Dec. 31.....	683.53	6000	-1700	-28
CAL YR 1986	-	-	-2300	-3
Jan. 31.....	691.28	11600	+5600	+91
Feb. 28.....	691.89	12100	+500	+9
Mar. 31.....	690.80	11200	-900	-15
Apr. 30.....	685.09	7000	-4200	-71
May 31.....	685.28	7200	+200	+3
June 30.....	686.54	8100	+900	+15
July 31.....	694.23	14000	+5900	+96
Aug. 31.....	681.30	4500	-9500	-155
Sept. 30.....	687.64	8800	+4300	+72
WTR YR 1987	-	-	-600	-1

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN--Continued

02393500 ALLATOONA RESERVOIR NEAR CARTERSVILLE, GA.

LOCATION.--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.

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).

REMARKS.--Lake is formed by concrete gravity dam. Spillway (crest elevation, 835.0 ft) is equipped with nine tainter 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 gages, 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, 388,800 acre-ft July 5, elevation, 841.76 ft; minimum, 195,600 acre-ft Oct. 8, elevation, 822.04 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	822.49	199000	-	-
Oct. 31.....	828.17	245300	+46300	+753
Nov. 30.....	831.90	279900	+34600	+582
Dec. 31.....	828.59	249000	-30900	-503
CAL YR 1986	-	-	+53300	+74
Jan. 31.....	831.29	274100	+25100	+408
Feb. 28.....	834.35	304700	+30600	+551
Mar. 31.....	836.46	327100	+22400	+364
Apr. 30.....	839.76	364700	+37600	+632
May 31.....	841.51	385700	+21000	+342
June 30.....	841.42	384600	-1100	-18
July 31.....	837.93	343500	-41100	-668
Aug. 31.....	833.40	294900	-48600	-790
Sept. 30.....	830.74	268800	-26100	-439
WTR YR 1987	-	-	+69800	+96

TENNESSEE RIVER BASIN

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03544947 BRIER CREEK NEAR HIAWASSEE, GA.

LOCATION.--Lat 34°50'05", long 83°42'34", Towns County, Hydrologic Unit 06020002, on left bank, 0.3 mi upstream from Corbin Creek, and 8.2 mi southeast of Hiawassee.
DRAINAGE AREA.--1.70 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,180 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Nov. 26, Feb. 28, and Mar. 1. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown, Nov. 26, 1986, gage height 3.19 ft; minimum daily discharge, 0.63 ft³/s, Sept. 28, 1987.EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, Nov. 26; gage height, 3.19 ft; minimum daily discharge 0.63 ft³/s, Sept. 28.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	2.1	18	5.7	8.1	36	10	4.6	4.4	2.6	.99	.72
2	.76	1.9	28	5.3	9.2	18	9.0	4.4	4.2	2.9	1.0	.69
3	.75	1.8	16	5.0	9.0	13	9.6	4.3	3.6	2.5	1.0	.67
4	.74	1.7	11	4.8	8.2	11	8.8	4.2	3.2	2.9	1.8	.68
5	.72	2.1	8.3	4.6	7.4	9.4	8.3	4.1	3.0	2.4	1.6	.74
6	.72	1.9	7.0	4.4	6.9	8.6	8.1	4.0	2.8	2.3	1.6	2.3
7	.70	3.0	6.1	4.4	6.5	8.0	8.5	3.9	2.6	2.1	1.3	1.4
8	.72	3.1	5.9	4.1	6.3	8.0	8.3	3.7	2.4	1.9	1.8	1.0
9	1.4	3.1	6.6	4.0	6.1	9.0	7.8	3.7	2.4	1.9	1.5	.89
10	1.0	2.8	9.0	4.1	5.6	8.5	7.3	3.5	2.3	1.8	1.2	.86
11	.78	3.5	13	3.9	5.3	7.9	7.0	3.5	2.2	1.7	1.1	.91
12	.76	3.6	12	3.8	5.2	7.5	6.7	3.5	2.2	1.6	1.0	1.1
13	2.0	3.4	9.1	3.7	5.0	7.2	6.5	4.0	2.3	1.5	1.0	1.2
14	2.1	3.0	7.7	3.6	5.2	6.8	7.4	5.8	2.1	1.5	.97	1.1
15	1.1	3.3	6.9	3.7	5.0	6.6	8.3	4.7	2.2	1.5	1.3	.90
16	.93	3.0	6.2	3.6	6.8	6.3	8.6	4.2	2.3	1.4	1.1	.84
17	.83	2.9	5.8	3.4	6.8	6.0	8.2	3.9	2.1	1.4	1.0	.83
18	.78	2.7	5.5	9.5	6.4	6.2	7.6	3.7	2.0	1.3	.96	.78
19	.71	2.4	5.1	19	5.9	7.0	7.0	3.5	2.0	1.3	.93	.99
20	.69	3.6	4.8	11	5.5	6.7	6.6	3.7	3.5	1.3	.87	.90
21	.69	3.6	4.5	8.5	5.4	6.5	6.2	3.5	2.5	1.2	.85	.78
22	.67	3.4	4.3	7.6	5.5	6.2	6.0	3.3	2.2	1.2	.82	.72
23	.65	3.6	8.1	6.5	5.4	5.9	5.8	3.2	2.0	1.2	.81	.68
24	.85	4.0	23	5.9	5.2	6.2	5.5	3.1	1.9	1.1	.79	.68
25	20	4.5	14	9.8	5.0	7.2	5.4	3.0	2.0	1.1	.83	.67
26	9.0	50	10	11	5.3	7.0	5.1	2.8	2.6	1.1	.83	.66
27	4.5	16	8.4	8.8	9.1	7.1	5.0	2.9	1.9	1.0	.77	.65
28	3.1	9.1	7.4	7.5	36	6.9	4.9	2.8	1.8	1.0	.76	.63
29	2.5	7.0	6.7	6.8	---	6.7	4.7	3.9	1.7	1.0	.78	.80
30	2.1	6.2	6.2	8.2	---	9.2	4.7	3.6	1.6	1.1	.73	1.5
31	1.9	---	5.7	8.9	---	12	---	3.4	---	1.1	.75	---
TOTAL	64.89	162.3	290.3	201.1	207.3	278.6	212.9	116.4	74.0	49.9	32.74	27.27
MEAN	2.09	5.41	9.36	6.49	7.40	8.99	7.10	3.75	2.47	1.61	1.06	.91
MAX	20	50	28	19	36	36	10	5.8	4.4	2.9	1.8	2.3
MIN	.65	1.7	4.3	3.4	5.0	5.9	4.7	2.8	1.6	1.0	.73	.63
CFSM	1.20	3.11	5.38	3.73	4.25	5.17	4.08	2.16	1.42	.93	.61	.52
IN.	1.39	3.47	6.20	4.30	4.43	5.95	4.55	2.49	1.58	1.07	.70	.58
CAL YR 1986	TOTAL	1109.93	MEAN	3.04	MAX	50	MIN	.65	CFSM	1.75	IN	23.72
WTR YR 1987	TOTAL	1717.70	MEAN	4.71	MAX	50	MIN	.63	CFSM	2.71	IN	36.70

TENNESSEE RIVER BASIN

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.

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 above 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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--75 years, 492 ft³/s, 37.75 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 greater than base discharge 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)
Nov. 26	1115	*3,770	*6.20	Mar. 1	0015	3,760	6.19

Minimum daily discharge, 99 ft³/s, Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	190	519	402	545	2310	631	412	365	469	175	136
2	117	186	658	377	749	1250	596	407	355	423	169	124
3	112	178	539	357	679	989	643	404	318	389	186	118
4	109	173	467	350	607	848	593	397	417	377	179	149
5	108	204	413	342	562	782	582	388	323	335	309	138
6	103	206	391	334	536	740	599	382	300	311	240	149
7	99	312	372	331	529	710	619	376	288	313	222	178
8	99	307	413	325	504	706	587	368	281	285	199	167
9	133	258	453	320	478	764	561	360	275	272	199	144
10	198	245	665	342	465	683	539	357	270	263	188	140
11	150	354	613	323	459	646	533	353	268	256	190	175
12	133	399	549	311	455	638	513	362	271	248	172	219
13	240	305	480	308	443	618	500	366	301	241	168	238
14	296	265	440	304	474	597	561	369	327	240	163	174
15	187	273	418	323	487	582	774	367	419	234	166	151
16	155	257	398	310	550	573	680	379	353	226	205	144
17	142	262	383	309	501	555	635	345	325	221	172	142
18	134	245	387	1010	469	568	583	336	345	217	168	138
19	129	229	363	1840	449	708	543	370	334	213	163	143
20	125	383	350	905	436	599	519	355	560	209	153	159
21	122	367	338	663	433	568	502	362	417	204	146	136
22	120	303	330	638	461	547	490	338	352	200	143	129
23	118	352	379	556	483	531	480	357	346	198	140	125
24	121	482	860	512	439	531	468	348	396	192	140	124
25	1180	471	600	845	427	629	458	331	374	189	135	123
26	783	2260	494	989	463	561	446	322	336	230	139	121
27	358	1080	450	695	1020	557	437	322	310	194	135	121
28	272	654	423	615	2180	588	440	321	284	184	131	120
29	234	515	402	564	---	540	423	333	271	178	135	121
30	212	463	389	591	---	722	419	365	263	176	132	190
31	195	---	374	577	---	729	---	346	---	179	130	---
TOTAL	6605	12178	14310	16668	16283	22369	16354	11198	10044	7866	5292	4436
MEAN	213	406	462	538	582	722	545	361	335	254	171	148
MAX	1180	2260	860	1840	2180	2310	774	412	560	469	309	238
MIN	99	173	330	304	427	531	419	321	263	176	130	118
CFSM	1.20	2.29	2.61	3.04	3.29	4.08	3.08	2.04	1.89	1.44	.97	.84
IN.	1.39	2.56	3.01	3.50	3.42	4.70	3.44	2.35	2.11	1.65	1.11	.93

CAL YR 1986	TOTAL	91846	MEAN 252	MAX 2260	MIN 83	CFSM 1.42	IN 19.30
WTR YR 1987	TOTAL	143603	MEAN 393	MAX 2310	MIN 99	CFSM 2.22	IN 30.18

TENNESSEE RIVER BASIN

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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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 24...	1500	4000	100	104	7.20	7.00	12.5	16.0	9.3	89
JAN 28...	1500	820	125	123	7.50	7.60	4.5	5.0	11.4	89
MAR 25...	1000	170	180	172	7.80	7.70	13.5	20.0	8.4	82
MAY 28...	1215	120	220	246	7.60	7.80	23.0	32.0	5.7	67
JUL 28...	1300	46	272	263	7.80	7.80	26.0	34.0	6.8	86
SEP 22...	1310	--	270	282	7.70	7.80	20.5	26.0	6.7	76

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CACO3	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)
NOV 24...	150	1.6	33000	50	15	35	0.420	0.190	0.260	17
JAN 28...	9.0	1.1	140	58	10	48	0.710	0.030	0.030	--
MAR 25...	4.0	--	--	86	8	78	0.460	<0.020	<0.020	<1.0
MAY 28...	130	1.2	2300	110	16	94	0.730	0.160	0.070	2.6
JUL 28...	4.0	2.0	--	140	19	119	0.410	0.060	0.080	1.1
SEP 22...	7.0	1.4	70	39	0	116	0.420	0.030	0.200	2.5

TENNESSEE RIVER BASIN

03567129 MILL CREEK AT CEDAR GROVE, GA.

LOCATION.--Lat 34°42'57", long 85°25'59", Walker County, Hydrologic Unit 06020001, on left bank, 850 ft downstream from Walker County Road 102 bridge, 0.1 mi downstream from Hise Gulf, 0.7 mi upstream from Trickum Branch and 0.1 mi south-west of Cedar Grove.

DRAINAGE AREA.--5.62 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1986 to March 1988 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 870 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Oct. 25-Nov. 24, Nov. 26, 1986; Jan. 18, 19, Feb. 27-Mar. 1, Apr. 10-14, Sept. 19-30, Oct. 1-7, 1987; Jan. 2-5, 19, 20, Mar. 29-31, 1988. Records good, except for those the periods Nov. 26, 1986; Jan. 18, 19, Feb. 27-Mar. 1, 1987; and Jan. 19, 20, 1988, which are fair, and those for period of no gage height record, Oct. 25-Nov. 24, 1986; Sept. 10-30, Oct. 1-7, 1987; and Jan. 2-5, Mar. 29-31, 1988, which are fair to poor.

EXTREMES FOR CURRENT PERIOD.--July to September 1986: Maximum discharge during period, 18 ft³/s, Sept. 18, gage height, 1.14 ft; minimum daily discharge, 0.49 ft³/s, July 26.

Water year 1987: Maximum discharge, unknown, Jan. 19, gage height, 4.81 ft; minimum daily discharge, 0.42 ft³/s, Sept. 26, but may have been less during period of no gage-height record, Sept. 9-30.

October 1987 to March 1988: Maximum discharge, unknown, Jan. 19, gage height, 4.64 ft; minimum daily discharge, 0.53 ft³/s, Oct. 5, but may have been less during period of undefined stage-discharge relation, Oct. 1 to Nov. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	.98	.96
2										---	.64	.85
3										---	.61	.80
4										---	.59	1.7
5										---	.55	1.2
6										---	.63	.88
7										---	.97	1.0
8										---	.99	.73
9										---	.97	.71
10										---	.83	.69
11										---	.73	.68
12										---	.66	3.9
13										---	.59	2.5
14										---	.59	2.0
15										---	.57	1.6
16										---	.65	1.3
17										---	.98	1.2
18										---	.99	1.0
19										---	.68	1.1
20										---	.89	.94
21										---	.70	.91
22										---	.62	.87
23										---	.60	.84
24										.81	.58	.82
25										.70	.57	.77
26										.49	.61	.81
27										.77	.98	.81
28										.64	.82	1.1
29										.57	.67	.79
30										.55	.89	.79
31										.71	.92	---
TOTAL										---	23.05	34.25
MEAN										---	.74	1.14
MAX										---	.99	3.9
MIN										---	.55	.68
CFSM										---	.13	.20
IN.										---	.15	.23

TENNESSEE RIVER BASIN

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03567129 MILL CREEK AT CEDAR GROVE, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	4.4	19	9.1	15	105	27	5.0	2.0	1.2	.70	.60
2	.76	3.6	18	8.1	16	61	22	4.7	1.9	1.2	.73	.56
3	.93	3.2	16	7.1	16	41	21	4.5	1.8	1.2	.74	.54
4	.76	3.0	14	6.7	15	31	18	4.2	2.0	1.2	.79	.55
5	.72	3.0	12	6.2	14	24	17	4.0	1.7	1.1	1.1	.56
6	.71	3.0	11	5.9	13	20	16	3.9	1.6	1.4	1.4	.64
7	.69	6.0	9.5	5.6	13	18	15	3.8	1.5	1.1	.94	1.3
8	.69	9.0	11	5.3	12	18	13	3.5	1.5	1.1	.87	.80
9	1.2	7.8	15	5.1	9.2	31	12	3.4	1.4	1.1	.85	.68
10	.94	7.2	37	5.2	8.3	36	10	3.2	1.4	1.1	1.0	.62
11	.87	6.8	36	4.8	8.0	24	9.6	3.0	1.4	1.0	.83	.70
12	1.7	6.6	30	4.5	7.7	20	8.8	3.0	1.4	1.1	.78	.84
13	5.4	6.4	23	4.3	7.1	17	8.4	2.9	1.9	.99	.75	.62
14	7.6	6.0	19	4.3	7.2	16	12	2.8	1.6	.96	.70	.58
15	5.7	6.0	16	4.2	7.3	14	18	2.7	1.5	.90	.72	.56
16	3.6	5.8	14	4.1	33	13	21	2.6	2.4	.87	.70	.56
17	3.0	5.7	13	4.0	34	11	23	2.5	2.2	.87	.71	.56
18	2.7	5.6	11	75	26	28	18	2.4	1.8	.84	.82	.54
19	2.1	5.2	9.6	250	21	63	16	2.4	1.7	.83	.66	.50
20	1.8	17	8.6	81	17	42	14	2.3	1.7	.83	.60	.50
21	1.6	18	7.5	48	16	32	13	2.3	1.7	.80	.59	.48
22	1.5	15	6.9	36	18	25	11	2.2	1.6	.82	.57	.48
23	1.4	56	10	26	26	20	9.5	2.1	1.5	.80	.56	.46
24	1.4	180	29	22	23	17	8.4	2.1	1.4	.79	.55	.45
25	45	59	25	48	18	15	7.3	2.0	1.4	.76	.58	.43
26	30	210	20	59	25	13	6.6	1.9	1.3	.74	.58	.42
27	16	70	17	39	150	13	6.2	1.9	1.3	.76	.56	.45
28	9.6	39	15	30	140	11	5.6	1.8	1.2	.84	.57	.50
29	7.6	27	13	24	---	11	5.6	1.8	1.1	.74	.54	.50
30	6.3	21	12	22	---	30	5.2	3.2	1.1	.72	.56	.50
31	5.4	---	10	19	---	34	---	2.3	---	.71	.61	---
TOTAL	168.42	816.3	508.1	873.5	715.8	854	398.2	90.4	48.0	29.37	22.66	17.48
MEAN	5.43	27.2	16.4	28.2	25.6	27.5	13.3	2.92	1.60	.95	.73	.58
MAX	45	210	37	250	150	105	27	5.0	2.4	1.4	1.4	1.3
MIN	.69	3.0	6.9	4.0	7.1	11	5.2	1.8	1.1	.71	.54	.42
CFSM	.97	4.84	2.92	5.01	4.55	4.90	2.36	.52	.28	.17	.13	.10
IN.	1.11	5.40	3.36	5.78	4.74	5.65	2.64	.60	.32	.19	.15	.12
WTR YR 1987	TOTAL	4542.23	MEAN	12.4	MAX	250	MIN	.42	CFSM	2.21	IN	30.07

TENNESSEE RIVER BASIN

03567129 MILL CREEK AT CEDAR GROVE--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.58	.80	4.0	5.7	4.0						
2	.58	.58	.79	4.3	6.3	3.8						
3	.55	.58	.80	4.3	6.9	3.7						
4	.54	.58	.79	9.4	8.1	3.8						
5	.53	.58	.94	5.6	8.0	3.7						
6	.54	.58	.79	4.2	7.5	3.6						
7	.55	.58	1.0	4.1	7.1	3.5						
8	.55	.58	.72	3.7	6.7	3.5						
9	.55	.58	.73	3.4	6.2	4.0						
10	.55	1.1	.75	3.1	5.9	5.3						
11	.55	1.0	.76	3.0	5.6	6.2						
12	.55	.94	.81	2.9	5.3	6.9						
13	.55	.67	.72	4.0	5.0	8.3						
14	.55	.56	.95	4.8	4.8	8.7						
15	.55	.87	1.7	4.6	5.9	8.3						
16	.55	.64	1.1	4.4	6.2	7.5						
17	.55	1.4	.99	6.8	6.5	6.9						
18	.55	1.4	1.0	18	6.5	6.5						
19	.55	.82	.91	70	6.7	6.1						
20	.70	.79	1.1	150	6.5	5.6						
21	.80	.80	1.1	44	5.9	5.3						
22	.74	1.1	1.0	26	5.6	4.9						
23	.66	.78	.97	18	5.4	4.9						
24	.64	.77	2.2	14	5.1	4.5						
25	.62	.74	2.8	13	4.8	4.5						
26	.64	.71	3.1	10	4.7	4.4						
27	.72	.70	5.8	8.7	4.5	4.2						
28	.64	.89	9.7	7.8	4.3	4.0						
29	.60	1.2	6.8	7.0	4.1	3.8						
30	.58	.83	4.6	6.4	---	3.6						
31	.58	---	3.8	6.0	---	3.4						
TOTAL	18.41	23.93	60.02	475.5	171.8	157.4						
MEAN	.59	.80	1.94	15.3	5.92	5.08						
MAX	.80	1.4	9.7	150	8.1	8.7						
MIN	.53	.56	.72	2.9	4.1	3.4						
CFSM	.11	.14	.34	2.73	1.05	.90						
IN.	.12	.16	.40	3.15	1.14	1.04						

CAL YR 1987 TOTAL 3151.77 MEAN 8.63 MAX 250 MIN .42 CFSM 1.54 IN 20.85

TENNESSEE RIVER BASIN

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03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.

LOCATION.--Lat 34°57'26", long 85°12'20", Catoosa County, Hydrologic Unit 06020001, at bridge on State Highway 146, 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, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 28...	1530	260	240	235	7.60	7.70	16.0	19.5	8.3	85
NOV 24...	1545	1300	140	135	7.30	7.20	12.5	16.5	8.8	84
DEC 29...	1500	255	238	222	7.70	7.80	8.5	8.0	11.1	97
JAN 28...	1600	530	188	188	7.50	7.60	6.0	5.5	11.2	91
FEB 24...	1400	395	212	211	7.50	7.90	9.5	11.0	10.8	96
MAR 24...	0930	510	220	210	7.70	7.70	13.5	17.5	8.6	84
APR 29...	1400	93	239	283	7.60	7.80	19.0	28.5	7.0	77
MAY 28...	1145	62	260	275	7.60	7.90	24.0	32.0	6.0	72
JUN 24...	0715	54	300	298	7.40	7.50	24.0	25.0	3.5	43
JUL 28...	1345	38	335	318	7.70	7.70	26.0	34.0	4.9	62
AUG 25...	1305	34	339	344	7.70	7.60	26.0	33.0	4.6	58
SEP 22...	1240	36	325	339	7.70	7.60	20.5	26.0	5.6	63

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CACO3	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)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 28...	21	1.2	<13000	110	11	101	30	1.03	0.180	0.110	3.8
NOV 24...	84	3.8	15000	66	11	55	165	0.400	0.190	0.220	8.3
DEC 29...	7.0	1.5	170	120	18	104	4	0.820	0.060	0.100	1.4
JAN 28...	15	1.2	1300	94	13	81	18	0.740	0.040	0.090	6.2
FEB 24...	24	1.0	1300	--	--	95	26	0.580	<0.020	0.120	7.8
MAR 24...	14	--	--	110	15	95	36	0.580	0.070	0.290	9.3
APR 29...	5.0	1.0	80	120	8	114	14	0.590	0.070	0.260	4.7
MAY 28...	19	1.1	170	120	8	108	32	0.830	0.100	0.320	2.4
JUN 24...	6.0	2.7	490	--	--	114	12	1.33	0.180	1.06	4.6
JUL 28...	6.0	1.4	--	130	0	129	22	0.450	0.080	1.07	3.2
AUG 25...	--	1.2	170	120	0	133	16	0.450	0.100	0.830	--
SEP 22...	10	1.3	2300	130	0	129	16	0.570	0.110	1.05	4.2

TENNESSEE RIVER BASIN

03568782 HURRICANE CREEK NEAR RISING FAWN, GA.

LOCATION.--Lat 34°45'48", long 85°30'12", Dade County, Hydrologic Unit 06020001, on right bank on county road 125-083, 1.2 mi upstream from Lookout Creek and 1.4 mi northwest of Rising Fawn.
DRAINAGE AREA.--4.28 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1986 to May 1987 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 802 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Nov. 23, 24, 26, 1986; Jan. 18, 19, Mar. 30-May 31, 1987. Records good, except for those for the periods, Nov. 23, 24, 26, and Jan. 18, 19, which are fair, and those for period of undefined stage-discharge relation, Mar. 30-May 31, 1987, which are poor.

EXTREMES FOR CURRENT PERIOD.--July to September 1986: Maximum discharge during period, 71 ft³/s, Sept. 12, gage height, 2.80 ft; minimum daily discharge, 0.06 ft³/s, July 30 and Aug. 6.

October 1986 to May 1987: Maximum discharge during period, unknown, Jan. 19, gage height, 5.15 ft; minimum daily discharge, 0.21 ft³/s, Oct. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	.38	.25
2										---	.11	.26
3										---	.10	.23
4										---	.08	.79
5										---	.08	1.2
6										---	.06	.44
7										---	.21	.26
8										---	.30	.20
9										---	.10	.18
10										---	.10	.18
11										---	.12	.20
12										---	.12	14
13										---	.11	2.0
14										---	.12	.54
15										---	.12	.33
16										---	.16	.27
17										---	.18	.24
18										---	.15	.22
19										---	.14	.31
20										---	.93	.23
21										---	.31	.28
22										---	.14	.32
23										---	.11	.36
24										---	.17	.22
25										.10	.13	.20
26										.08	.12	.20
27										.12	.52	.20
28										.09	.51	.19
29										.07	.22	.22
30										.06	.17	.25
31										.12	.25	---
TOTAL										---	6.32	24.77
MEAN										---	.20	.83
MAX										---	.93	14
MIN										---	.06	.18
CFSM										---	.05	.19
IN.										---	.05	.22

03568782 HURRICANE CREEK NEAR RISING FAWN, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.98	4.9	1.7	6.0	43	3.7	1.2				
2	.24	.87	3.7	1.5	10	20	2.8	1.1				
3	.24	.78	3.0	1.2	11	13	2.8	1.1				
4	.25	.69	2.3	1.1	8.9	10	2.5	1.0				
5	.27	.81	1.9	1.0	7.6	8.4	2.3	.98				
6	.27	.80	1.6	.89	6.8	7.1	2.3	.94				
7	.28	2.5	1.5	.84	6.1	6.2	2.1	.90				
8	.28	3.4	3.7	.78	5.3	8.3	1.9	.88				
9	.47	2.3	27	.73	4.4	22	1.7	.84				
10	.35	1.8	38	.79	3.6	15	1.6	.82				
11	.34	1.8	22	.70	3.2	11	1.5	.80				
12	.60	1.5	14	.61	3.0	8.9	1.5	.76				
13	1.4	1.3	8.2	.59	2.7	7.6	1.4	.76				
14	1.6	1.1	5.9	.57	2.8	6.5	3.6	1.0				
15	.64	1.4	4.8	.61	2.9	5.7	6.0	.90				
16	.41	1.4	3.9	.60	33	5.1	4.5	.92				
17	.32	1.3	3.3	.56	17	4.1	4.0	.80				
18	.27	1.2	2.8	60	11	17	3.5	.76				
19	.24	1.1	2.2	160	8.7	32	3.1	.76				
20	.23	8.2	1.7	30	7.3	16	2.8	.74				
21	.21	5.8	1.4	16	6.6	12	2.5	.74				
22	.21	4.2	1.2	13	7.6	9.2	2.3	.72				
23	.22	45	3.0	10	9.7	7.7	2.1	.74				
24	.34	75	11	8.0	8.1	6.7	2.0	.80				
25	28	20	6.4	49	7.2	5.4	1.8	.80				
26	7.4	110	5.0	34	12	4.7	1.7	.74				
27	3.8	25	4.0	17	84	4.1	1.6	.68				
28	2.2	13	3.4	12	71	3.5	1.4	.66				
29	1.3	8.6	2.9	9.6	---	2.9	1.3	.68				
30	1.0	6.4	2.6	8.6	---	5.6	1.2	.80				
31	.90	---	2.0	7.0	---	6.2	---	1.1				
TOTAL	54.52	348.23	199.3	448.97	367.5	334.9	73.5	26.42				
MEAN	1.76	11.6	6.43	14.5	13.1	10.8	2.45	.85				
MAX	28	110	38	160	84	43	6.0	1.2				
MIN	.21	.69	1.2	.56	2.7	2.9	1.2	.66				
CFSM	.41	2.71	1.50	3.38	3.07	2.52	.57	.20				
IN.	.47	3.03	1.73	3.90	3.19	2.90	.64	.23				

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 2214, 0.5 mi downstream of Squirrel Town Creek, 2.2 mi southeast of New England, and at mile 16.3.

DRAINAGE AREA.--149 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 663.80 ft above National Geodetic Vertical Datum of 1929 (levels by Tennessee Valley Authority).

REMARKS.--No estimated daily discharges. Records good. Daily water temperatures for November 1980 to September 1984 published in reports of U.S. Geological Survey.

AVERAGE DISCHARGE.--8 years, 239 ft³/s, 21.78 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft³/s, Aug. 17, 1982, gage height, 20.73 ft; minimum daily discharge, 13 ft³/s, July 31, Aug. 6, 7, 15, 16, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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. 24	1145	6,040	15.08	Jan. 19	1730	*6,350	*15.26
Nov. 26	0830	5,990	15.05	Feb. 28	2030	3,630	13.44

Minimum daily discharge, 15 ft³/s, Sept. 24-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	106	411	150	314	2300	432	86	69	37	23	17
2	25	89	358	140	479	1110	364	83	57	38	22	17
3	24	77	313	128	490	763	352	85	53	40	22	17
4	24	70	263	119	391	588	347	82	53	39	22	17
5	24	68	229	110	334	472	312	76	50	36	22	17
6	24	67	202	101	297	391	291	73	47	36	22	17
7	24	78	181	94	275	330	270	70	45	46	24	17
8	24	204	243	88	244	316	246	67	43	47	24	63
9	28	174	760	84	212	704	225	64	41	53	23	36
10	33	164	1160	86	188	615	206	63	40	45	26	22
11	38	153	865	83	174	468	189	62	40	42	22	20
12	33	150	701	77	165	399	173	61	39	42	24	22
13	64	140	524	74	152	341	159	59	49	38	24	29
14	138	127	423	72	151	299	199	72	56	35	23	23
15	101	131	351	80	159	264	695	62	47	33	21	21
16	73	131	300	74	703	235	390	65	118	32	20	19
17	54	127	262	71	643	209	342	59	79	31	20	19
18	48	121	239	967	473	361	288	57	58	30	21	20
19	44	109	208	5810	381	1150	250	58	53	29	22	18
20	40	317	184	1980	319	695	221	60	50	28	21	17
21	36	415	163	936	288	533	199	57	49	28	20	17
22	30	300	147	712	324	434	181	56	62	27	19	16
23	28	1300	170	585	447	359	164	55	51	27	19	16
24	32	4160	406	458	358	312	149	60	48	26	18	15
25	1060	1650	335	1150	311	279	138	61	49	26	18	15
26	759	4510	274	1460	352	236	126	58	48	26	18	15
27	353	1740	239	820	2440	212	115	53	44	25	17	15
28	233	871	213	633	2700	194	121	50	41	25	16	15
29	178	628	192	507	---	172	103	51	39	24	17	18
30	146	484	177	450	---	464	90	83	37	24	17	18
31	125	---	163	369	---	583	---	110	---	23	17	---
TOTAL	3868	18661	10656	18468	13764	15788	7337	2058	1555	1038	644	608
MEAN	125	622	344	596	492	509	245	66.4	51.8	33.5	20.8	20.3
MAX	1060	4510	1160	5810	2700	2300	695	110	118	53	26	63
MIN	24	67	147	71	151	172	90	50	37	23	16	15
CFSM	.84	4.17	2.31	4.00	3.30	3.42	1.64	.45	.35	.23	.14	.14
IN.	.97	4.66	2.66	4.61	3.44	3.94	1.83	.51	.39	.26	.16	.15

CAL YR 1986	TOTAL	60087	MEAN 165	MAX 4510	MIN 13	CFSM 1.11	IN 15.00
WTR YR 1987	TOTAL	94445	MEAN 259	MAX 5810	MIN 15	CFSM 1.74	IN 23.58

03553000 NOTTELY LAKE NEAR IVYLOG, GA.

LOCATION.--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.

REMARKS.--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, 1638.6 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 66,400 ft³/s-days July 8, elevation, 1,768.46 ft; minimum, 38,700 ft³/s-days Jan. 15, elevation, 1,746.32 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (cfs-days)	Change in contents	
			(cfs-days)	(equivalent in cubic feet per second)
Sept. 30.....	1751.82	44400	-	-
Oct. 31.....	1753.00	45700	+1300	+42
Nov. 30.....	1755.28	48300	+2600	+87
Dec. 31.....	1750.59	43100	-5200	-168
CAL YR 1986	-	-	+1300	+4
Jan. 31.....	1752.57	45200	+2100	+68
Feb. 28.....	1754.70	47600	+2400	+86
Mar. 31.....	1758.32	52000	+4400	+142
Apr. 30.....	1763.14	58400	+6400	+213
May 31.....	1766.54	63400	+5000	+161
June 30.....	1767.77	65300	+1900	+63
July 31.....	1766.29	63000	-2300	-74
Aug. 31.....	1760.87	55300	-7700	-248
Sept. 30.....	1760.79	55200	-100	-3
WTR YR 1987	-	-	+10800	+30

03558500 BLUE RIDGE LAKE NEAR BLUE RIDGE, GA.

LOCATION.--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 Company datum; to convert to National Geodetic Vertical Datum of 1929, subtract 0.18 ft from elevations given herein.

REMARKS.--Lake is formed by earth dam. Spillway equipped with five tainter 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, 90,200 ft³/s-days June 8, elevation, 1,685.77 ft; minimum, 51,700 ft³/s-days Oct. 12, elevation, 1,657.64 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (cfs-days)	Change in contents	
			(cfs-days)	(equivalent in cubic feet per second)
Sept. 30.....	1658.91	53100	-	-
Oct. 31.....	1661.32	55900	+2800	+90
Nov. 30.....	1668.17	64400	+8500	+283
Dec. 31.....	1662.67	57500	-6900	-223
CAL YR 1986	-	-	+4800	+13
Jan. 31.....	1665.96	61600	+4100	+132
Feb. 28.....	1674.30	72800	+11200	+400
Mar. 31.....	1681.54	83500	+10700	+345
Apr. 30.....	1684.05	87400	+3900	+130
May 31.....	1685.27	89400	+2000	+65
June 30.....	1685.20	89300	-100	-3
July 31.....	1678.74	79300	-10000	-323
Aug. 31.....	1669.35	66000	-13300	-429
Sept. 30.....	1662.80	57700	-8300	-277
WTR YR 1987	-	-	+4600	+13

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, peak discharge information is gathered and discharge measurements are often made at sites not included in the partial-record program. This information is usually collected in times of drought or flood to give better areal coverage to those events.

Records collected at crest-stage partial-record stations are presented in the following table. Peak discharges at miscellaneous sites and discharge measurements made at low-flow partial-record sites, miscellaneous sites, and for special studies are given in separate tables as appropriate.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1987

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Savannah River Basin							
02191280	Mill Shoal Creek near Royston, Ga.	Lat 34°16'13", long 83°06'08", Hart County, Hydrologic Unit 03060103, at culvert on State Highway 17, 1.2 miles southeast of Royston.	0.32	1964-87	01-19-87	2.86	51
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	1964-87	03-31-87	3.54	189
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	1959-87	08-07-87	6.17	17
02195150	Kiokee Creek at Appling, Ga.	Lat 33°32'33", long 82°18'56", Columbia County, Hydrologic Unit 03060106, at U.S. Highway 221, at Appling.	43.9	1984-87	01-19-87	9.76	1,310
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	1979-87	08-01-87	5.77	112
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	1979-87	08-01-87	7.68	1,170
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.	c1.44	1979-87	08-01-87	4.04	102
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.	c1.56	1979-87	08-01-87	5.68	424
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	1963-87	03-01-87	4.51	301

c Revised.

Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1987--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							
02200000	Ogeechee River at Jewell, Ga.	Lat 33°17'48", long 82°46'40", Hancock-Warren County line, Hydrologic Unit 03060201, at State Highway 16, at Jewell.	242	1971, 1984-87	01-20-87	12.85	(†)
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	1979-87	01-20-87	11.76	1,660
02200930	Spring Creek (prior to 1987, published as 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	1965-87	01-19-87	4.43	223
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	1970-87	01-20-87	11.80	7,520
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††, 1972-87	01-25-87	10.71	16,500
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.	c5.39	1979-87	01-01-87	2.85	160
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	1965-87	03-01-87	4.08	116
02203543	Wilshire Canal near Savannah, Ga.	Lat 31°59'27", long 81°08'15", Chatham County, Hydrologic Unit 03060204, at culvert on Tibet Avenue near Savannah.	.95	1979-87	09-06-87	8.70	241
02203544	Wilshire Canal tributary near Savannah, Ga.	Lat 31°58'25", long 81°08'20", Chatham County, Hydrologic Unit 03060204, at culvert on Windsor Road near Savannah.	.18	1979-87	09-06-87	4.30	82
Altamaha River Basin							
02203800	South River at Atlanta, Ga.	Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at Bouldercrest Road at Atlanta.	41.5	1951-87	01-19-87	6.04	2,320
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	1974-87	06-03-87	4.79	689

† Discharge not determined.

†† Operated as a continuous-record gaging station.

a Approximately.

c Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1987--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							
02203845	Shoal Creek tributary near Atlanta, Ga.	Lat 33°43'05", long 84°15'45", DeKalb County, Hydrologic Unit 03070103, at culvert on Glendale Drive near Atlanta.	0.84	1973-78, 1980-87	08-04-87	3.86	287
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, 1980-87	06-11-87	4.36	404
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	1977-87	1987	(d)	<6
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††, 1973-87	01-19-87	15.94	5,810
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, 1974-87	03-01-87	-0.46	850
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	1979-87	03-01-87	9.31	486
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	1979-87	06-17-87	7.34	492
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	1965-87	03-01-87	4.29	207
02215800	Gum Swamp Creek near Chauncey, Ga.	Lat 32°07'28", long 83°03'37", Dodge County, Hydrologic Unit 03070105, at State Highway 165, 1.6 miles north of Chauncey.	221	1984-87	12-14-85 01-20-87	7.22 9.33	c1,520 4,740
02217380	Mulberry River near Winder, Ga.	Lat 34°93'08", long 83°39'49", Barrow-Jackson County line, Hydrologic Unit 03070101, at State Highway 11, 4.5 miles northeast of Winder.	142	1976, 1984-87	03-01-87	12.08	3,780
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	1965-87	03-01-87	3.13	447
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	1979-87	06-20-87	9.18	430

†† Operated as a continuous-record gaging station.

c Revised.

d Peak stage did not reach bottom of gage.

Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1987--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							
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.	c0.42	1979-87	06-20-87	7.46	329
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	1964-87	03-31-87	5.60	300
02223082	Buffalo Creek near Linton, Ga.	Lat 33°06'27", long 82°57'34", Hancock-Washington County line, Hydrologic Unit 03070102, at county road, 2 miles southeast of Linton.	92.9	1985-87	03-01-87	13.61	(†)
02223349	Big Sandy Creek tributary near Irwinton, Ga.	Lat 32°48'11", long 83°13'37", Wilkinson County, Hydrologic Unit 03070102, at culvert on county road, 1.7 miles southwest of Irwinton.	a.50	1978-87	03-08-87	2.43	33
02223360	Big Sandy Creek near Irwinton, Ga.	Lat 32°45'59", long 83°10'05", Wilkinson County, Hydrologic Unit 03070102, at bridge on U.S. Highway 411, 2 miles south of Irwinton.	177	1970-87	03-09-87	5.01	2,160
02224100	Turkey Creek near Dublin, Ga.	Lat 32°27'16", long 82°56'32", Laurens County, Hydrologic Unit 03070102, at U.S. Highways 319 and 441, 5 miles south of Dublin.	316	1984-87	01-23-87	15.25	(†)
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, 1980-87	12-15-85, 01-23-87	8.01, 7.94	3,510, 3,430
02225320	Ohoopsee River near Aline, Ga.	Lat 32°20'53", long 82°14'52", Emanuel County line, Hydrologic Unit 03070107, at bridge on county road, 5 miles west of Aline.	698	1975, 1980-87	03-03-87	15.85	10,300
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	1965-87	03-01-87	4.71	292
02225350	Reedy Creek tributary (formerly published as 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	1965-87	03-01-87	2.69	157
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	1966-87	01-23-87	6.00	1,240
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	1966-87	01-23-87	7.93	689

† Discharge not determined.

a Approximately.

c Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1987--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
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	1965-87	12-13-86	3.62	230
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	1978-87	02-23-87	5.42	295
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.	a60	1966-87	01-22-87	9.57	1,180
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††, 1972-87	01-06-87	7.50	2,170
02227290	Alabaha 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	1970-87	01-06-87	12.59	3,740
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	1976-87	02-22-87	1.36	31
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	1977-87	02-22-87	1.81	70
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	1966-87	02-22-87	7.55	1,310
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	1980-87	02-22-87	8.52	380
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, 1963-87	02-02-87	7.01	1,130
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	1970-87	01-30-87	19.02	8,780

†† Operated as a continuous-record gaging station.

a Approximately.

Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1987--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Suwannee River Basin--Continued							
02317600	Little River near Statenville, Ga.	Lat 30°42'13", long 83°07'18", Echols County, Hydrologic Unit 03110202, at State Highway 376, 5 miles west of Statenville.	199	1984-87	01-12-87	11.99	2,990
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.	0.86	1960-87	12-11-87	3.34	92
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	1970-87	04-01-87	9.96	2,220
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	1965-87	02-28-87	2.56	132
02317810	Arnold Creek tributary (prior to 1987, published as Little River tributary No. 2) near Tifton, Ga.	Lat 31°25'30", long 83°34'23", Tift County, Hydrologic Unit 03110204, at culvert on secondary road 546, 4 miles southwest of Tifton.	.47	1965-87	03-01-87	2.37	59
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	1966-87	12-11-86	13.09	2,460
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	1965-87	03-01-87	2.02	146
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	1981-87	12-12-86	13.18	2,670
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	1981-87	01-11-87	6.88	1,660
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 southwest of Meigs.	15.0	1965-75, 1978-87	06-24-87	4.44	530
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	1970-87	01-24-87	21.95	6,500
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	1977-87	08-15-87	2.56	127

a Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1987--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Apalachicola River Basin							
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	1974-87	01-18-87	12.18	(†)
02336090	North Fork Peachtree Creek tributary near Chamblee, Ga.	Lat 33°50'53", long 84°17'57", DeKalb County, Hydrologic Unit 03130001, at culvert on Meadowcliff Drive near Chamblee.	0.32	1974-87	01-18-87	5.98	128
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, 1980-87	01-18-87	5.25	518
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	1974-87	06-15-87	4.86	641
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, 1980-87	02-28-87	4.05	250
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	1977-87	06-25-87	6.57	127
02340250	Flat Shoal Creek near West Point, Ga.	Lat 32°53'53", long 85°04'41", Troup County, Hydrologic Unit 03130002, at State Highway 18, 5 miles east of Interstate Highway 85, near West Point.	204	1984-87	12-04-83 02-06-85 11-17-86	10.42 14.90 12.92	1,970 3,780 2,920
02341220	Mulberry Creek near Mulberry Grove, Ga.	Lat 32°42'11", long 84°57'29", Harris County, Hydrologic Unit 03130002, at county bridge on Hamilton-Mulberry Grove Road, near Mulberry Grove.	190	1984-87	12-04-83 02-06-85 03-19-86 02-28-87	11.29 18.81 16.28 16.31	2,000 5,210 3,810 3,830
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	1977-87	02-28-87	4.14	326
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.	.26	1977-87	06-14-87	3.74	55
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	1977-87	06-14-87	6.93	497
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	1963-87	11-17-86	7.05	745

† Discharge not determined.

†† Operated as a continuous-record gaging station.

Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1987--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Apalachicola River Basin--Continued							
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	1979-87	03-01-87	4.62	212
02341900	Ochillee Creek near Cusseta, Ga.	Lat 32°21'53", long 84°49'02", Chattahoochee County, Hydrologic Unit 03130003, at Hourglass Road, 5 miles northwest of Cusseta.	53.3	1979-87	02-28-87	6.97	545
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	1977-87	11-30-87	1.77	101
02343244	Cemochechobee Creek near Coleman, Ga.	Lat 31°39'12", long 84°53'02", Randolph County, Hydrologic Unit 03130004, at county bridge, 1.5 miles south of Coleman.	15.3	1984-87	06-21-87	4.64	(†)
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	1978-87	03-01-87	1.30	31
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	1969-87	02-28-87	4.79	327
02346195	Lazar Creek near Talbotton, Ga.	Lat 32°44'33", long 84°33'20", Talbot County, Hydrologic Unit 03130005, at State Highway 41, 5 miles south of Talbotton.	81.3	1981, 1984-87	03-01-87	11.96	(†)
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	1969-87	03-01-87	2.88	477
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	1981-87	11-30-86	7.21	122
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	1980-87	11-30-86	2.86	209
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	1977-87	11-30-86	2.80	44
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	1979-87	03-01-87	6.53	565
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	1977-87	02-28-87	3.39	68

† Discharge not determined.
a Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1987--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Apalachicola River Basin--Continued							
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.	0.32	1977-87	06-17-87	1.01	8
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	1981-87	04-01-87	8.59	2,810
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	1966-87	02-28-76	2.38	80
02384600	Pinhook Creek (prior to 1986, published as 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	1965-87	11-25-86	3.21	126
02384630	Conasauga River near Dawnville, Ga.	Lat 34°48'03", long 84°50'18", Whitfield-Murray County line, Hydrologic Unit 03150101, 2.6 miles southeast of Dawnville.	303	1984-87	03-01-87	16.15	(†)
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	1965-87	01-31-85 07-01-86 02-28-87	4.92 5.23 5.24	(†) 130 131
02394820	Euharlee Creek at Rockmart, Ga.	Lat 33°59'55", long 85°03'09", Polk County, Hydrologic Unit 03150104, at U.S. Highway 278 (State Highway 6) at Rockmart.	42.1	1961, 1974, 1979, 1984-87	02-28-87	7.48	1,140
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	1979-87	08-05-87	2.61	29
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.	c0.04	1979-87	03-01-87	2.18	13
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.	.19	1979-87	10-13-86	4.89	133
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††, 1983-87	01-03-82 11-30-82 07-31-84 01-31-85 11-25-86	8.74 10.74 7.85 7.85 9.12	1,640 3,570 1,110 1,110 1,810

† Discharge not determined.

c Revised.

Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1987--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Mobile River Basin--Continued							
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 south-west of Dallas.	0.88	1977-87	1987	(d)	<22
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	1977-87	02-28-87	2.83	32

†† Operated as a continuous-record gaging station.

d Peak stage did not reach bottom of gage.

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)
Savannah River Basin							
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, 1986-87	11-30-85 03-01-87	10.23 19.45	m3,980 m13,100
Altamaha River Basin							
02203900	South River near Atlanta, Ga.	Lat 33°39'58", long 84°13'29", DeKalb County, Hydrologic Unit 03070103, at Flakes Mill Road, 8 miles east of Atlanta city limits.	a99	1951-79††, 1980-83†, 1984-87	01-19-87	9.11	m3,450
02207500	Yellow River near Covington, Ga.	Lat 33°56'52", long 83°54'54", Newton County, Hydrologic Unit 03070103, at State Highway 12, 3.5 miles northwest of Covington.	378	1936, 1945-60, 1961-64, 1976-82†, 1983-87	01-20-87	15.55	m6,240
Apalachicola River Basin							
02331000	Chattahoochee River near Leaf, Ga.	Lat 34°34'37", long 83°38'09", Habersham County, Hydrologic Unit 03130001, at State High- way 115, 1.5 miles east of Leaf.	150	1940-71†, 1972-84, 1986-87	11-26-86	7.93	m5,600
02350600	Kinchafoonee Creek at Preston, Ga.	Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, at bridge on State Highway 41, 1 mile southwest of Preston, and 1 mile upstream from Harrel Mill Creek.	197	1951-77†, 1978-80, 1987	03-01-87	6.45	m1,380
Tennessee River Basin							
03545000	Hiwassee River at Presley, Ga.	Lat 34°54'17", long 83°42'01", Towns County, Hydrologic Unit 06020002, on left bank, 0.1 mile downstream from Cynth Creek, 0.5 mile southeast of Presley, and at mile 133.9.	45.5	1942-82†, 1983-87	11-26-86	6.09	m1,550
03550500	Nottley River near Blairsville, Ga.	Lat 34°50'28", long 83°56'10", Union County, Hydrologic Unit 06020002, on left bank 250 ft up- stream from Arkaqua Creek, 2.7 miles southeast of Blairsville, and at mile 44.3.	74.8	1942-82†, 1983-87	11-26-86	6.92	m2,300

† Operated as a continuous-record gaging station.

†† Operated as a crest-stage partial-record station.

a Approximately.

g Maximum gage heights computed from graph based on gage readings.

m Annual maximum.

ACTIVE AND DISCONTINUED GAGING STATIONS

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The following list contains discontinued and currently operated continuous-record streamflow stations on streams within the State of Georgia and its border with adjacent States. Daily streamflow record were collected and published for the periods of record shown for each station. Some stations have monthly figures published for additional periods other than those noted in the period of record column.

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period of record
02177000	Chattooga River near Clayton	34°48'50"	83°18'22"	207	Oct 1, 1939 to Sep 30, 1987
02178000	Chattooga River near Tallulah Falls	34°47'31"	83°19'22"	256	Jan 1, 1917 to Jan 27, 1918 Oct 1, 1918 to Sep 30, 1929
02178400	Tallulah River near Clayton	34°53'25"	83°31'50"	56.5	Jul 15, 1964 to Sep 30, 1987
02179000	Tallulah River near Seed	34°46'32"	83°31'17"	129	Jan 1, 1916 to Apr 25, 1920
02180500	Tiger Creek at Lakemont	34°46'52"	83°24'54"	26.0	Jan 11, 1916 to Sep 30, 1918
02181000	Tallulah River at Mathis	34°46'44"	83°24'43"	177	Mar 27, 1913 to Sep 30, 1916
02181500	Tallulah River at Tallulah Falls	34°44'16"	83°23'51"	183	Jul 15, 1904 to Jun 30, 1909 Aug 16, 1909 to Jun 30, 1910 Jul 20, 1910 to Sep 30, 1912
02182000	Panther Creek near Toccoa	34°40'40"	83°20'43"	32.5	Oct 1, 1942 to Sep 30, 1971
02184000	Tugaloo River near Hartwell	34°29'06"	82°54'33"	909	Apr 28, 1925 to Sep 30, 1927 Feb 1, 1940 to Sep 30, 1960
02187500	Savannah River near Iva, S.C.	34°15'20"	82°44'42"	2,230	Oct 1, 1950 to Sep 30, 1981
02188500	Beaverdam Creek at Dewy Rose	34°10'52"	82°56'38"	35.8	Oct 1, 1942 to Sep 30, 1977
02188600	Beaverdam Creek above Elberton	34°10'07"	82°53'48"	72.0	Oct 1, 1986 to Sep 30, 1987
02188680	Beaverdam Creek near Elberton	34°08'29"	82°51'15"	89.6	Oct 1, 1984 to Sep 30, 1986
02189000	Savannah River near Calhoun Falls, S.C.	34°04'15"	82°38'30"	2,880	Oct 1, 1896 to Apr 30, 1898 Apr 1, 1899 to Sep 30, 1900 Apr 1, 1930 to Apr 30, 1932 Apr 1, 1938 to Sep 30, 1979
02189050	North Fork Broad River above Toccoa	34°34'25"	83°22'00"	3.66	Oct 1, 1958 to Sep 30, 1969
02189100	Denmans Creek near Toccoa	34°34'22"	83°22'00"	0.74	Apr 15, 1956 to Sep 30, 1969
02189500	North Fork Broad River near Toccoa	34°30'49"	83°19'19"	19.3	May 1, 1954 to Sep 30, 1969
02189600	Bear Creek near Mize	34°29'07"	83°18'38"	3.62	Dec 1, 1956 to Sep 30, 1969
02190000	North Fork Broad River near Lavonia	34°27'10"	83°14'23"	42.0	May 1, 1954 to Sep 30, 1969
02190100	Toms Creek near Eastanollee	34°29'01"	83°14'02"	3.79	Oct 1, 1956 to Sep 30, 1969
02190200	Toms Creek near Avalon	34°29'35"	83°13'23"	1.20	Oct 1, 1954 to Sep 30, 1969
02190500	Toms Creek near Martin	34°27'47"	83°13'19"	10.3	Jun 17, 1954 to Sep 30, 1969
02191000	North Fork Broad River near Carnesville	34°19'25"	83°11'10"	119	Oct 1, 1942 to Dec 31, 1944 May 1, 1954 to Sep 30, 1969
02191200	Hudson River at Homer	34°20'15"	83°29'17"	61.1	Jun 1, 1959 to Sep 30, 1979
02191500	Broad River near Carlton	34°03'56"	82°59'33"	762	Jul 1, 1897 to Dec 31, 1912
02191970	Little Macks Creek near Lexington	33°56'09"	82°57'41"	1.77	Dec 5, 1974 to Sep 30, 1985
02192000	Broad River near Bell	33°58'27"	82°46'12"	1,430	Nov 1, 1926 to Jul 31, 1932 Aug 1, 1937 to Sep 30, 1987
02193340	Kettle Creek near Washington	33°40'57"	82°51'29"	33.9	Apr 16, 1986 to Sep 30, 1987
02193500	Little River near Washington	33°36'40"	82°44'40"	291	Oct 1, 1949 to Jun 23, 1971
02194000	Little River near Lincoln	33°38'40"	82°28'40"	574	Jan 1, 1943 to Mar 31, 1951
02196820	Butler Creek at Fort Gordon	33°26'36"	82°07'43"	7.50	Oct 1, 1968 to Sep 30, 1987
02197000	Savannah River at Augusta	33°22'25"	81°56'35"	7,510	Apr 1, 1883 to Sep 30, 1891 Apr 1, 1896 to Sep 30, 1906 Apr 1, 1925 to Sep 30, 1987
02197320	Savannah River near Jackson, S.C.	33°13'01"	81°46'04"	7,800	Oct 1, 1971 to Sep 30, 1987
02197500	Savannah River at Burtons Ferry Bridge near Millhaven	32°56'20"	81°30'10"	8,650	Oct 1, 1939 to Sep 30, 1970 Oct 1, 1982 to Sep 30, 1987
02197520	Brier Creek near Thomson	33°22'06"	82°28'06"	55.0	Jul 18, 1967 to Sep 30, 1987
02197550	Little Brier Creek near Thomson	33°20'24"	82°27'29"	24.0	Jun 24, 1960 to Jun 30, 1967
02197600	Brushy Creek near Wrens	33°10'37"	82°18'21"	28.0	May 29, 1958 to Sep 30, 1987
02197830	Brier Creek near Waynesboro	33°07'05"	81°57'50"	473	Jul 1, 1969 to Sep 30, 1987

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period of record
02198000	Brier Creek at Millhaven	32°56'00"	81°39'05"	646	Apr 14, 1937 to Sep 30, 1987
02198100	Beaverdam Creek near Sardis	32°56'15"	81°48'56"	30.8	Jun 7, 1986 to Sep 30, 1987
02198500	Savannah River near Clio	32°31'30"	81°15'45"	9,850	Apr 1, 1930 to Sep 30, 1933 Oct 1, 1937 to Sep 30, 1987
02200500	Ogeechee River near Louisville	32°58'03"	82°23'26"	800	Apr 1, 1937 to Dec 31, 1949
02201000	Williamson Swamp Creek at Davisboro	32°58'32"	82°36'36"	109	May 7, 1980 to Sep 30, 1987
02202000	Ogeechee River at Scarboro	32°42'38"	81°52'46"	1,940	Apr 1, 1937 to Jun 30, 1971
02202500	Ogeechee River near Eden	32°11'29"	81°24'58"	2,650	Apr 27, 1937 to Sep 30, 1987
02202600	Black Creek near Blitchton	32°10'04"	81°29'18"	232	Feb 14, 1980 to Sep 30, 1987
02203000	Canoochee River near Claxton	32°11'05"	81°53'20"	555	May 26, 1937 to Sep 30, 1987
02203500	Canoochee River near Groveland	32°05'55"	81°43'43"	921	Jun 23, 1903 to Dec 31, 1907
02203559	Peacock Creek at McIntosh	31°48'49"	81°31'13"	33.0	Oct 1, 1966 to Sep 30, 1977
02203600	South River at East Point	33°40'50"	84°25'15"	1.49	Oct 1, 1963 to Sep 30, 1969
02203900	South River at Flakes Mill Road near Atlanta	33°39'58"	84°13'29"	99.0	Aug 23, 1979 to Sep 30, 1983
02204070	South River at Klondike Road near Lithonia	33°37'47"	84°07'43"	182	Oct 1, 1983 to Sep 30, 1987
02204285	Pates Creek near Flippen	33°29'34"	84°14'44"	11.9	Aug 9, 1977 to Sep 30, 1984
02204500	South River near McDonough	33°29'48"	84°00'53"	456	Oct 1, 1939 to Sep 30, 1960 Oct 1, 1975 to Sep 30, 1982
02205000	Wildcat Creek near Lawrenceville	34°00'08"	84°00'18"	1.59	Oct 1, 1953 to Sep 30, 1982
02205500	Pew Creek near Lawrenceville	33°56'05"	84°01'00"	2.23	Oct 1, 1953 to Sep 30, 1963
02206000	Shetley Creek near Norcross	33°57'20"	84°09'40"	0.98	Oct 1, 1953 to Sep 30, 1963
02206500	Yellow River near Snellville	33°51'11"	84°04'45"	134	Oct 1, 1942 to Sep 30, 1971
02207000	Garner Creek near Snellville	33°51'45"	84°05'50"	5.54	Oct 1, 1953 to Sep 30, 1963
02207500	Yellow River near Covington	33°36'52"	83°54'54"	378	Sep 12, 1897 to Dec 31, 1897 May 9, 1899 to Dec 31, 1901 Jul 1, 1944 to Sep 30, 1960 Oct 1, 1975 to Sep 30, 1982
02208450	Alcovy River above Covington	33°38'24"	83°46'45"	185	Jan 26, 1972 to Sep 30, 1987
02208500	Alcovy River near Covington	33°35'35"	83°48'29"	228	May 1, 1901 to Dec 31, 1904
02209000	Alcovy River below Covington	33°30'21"	83°49'30"	244	Oct 1, 1928 to Apr 30, 1932 Jul 1, 1944 to Dec 31, 1949
02209500	Alcovy River near Stewart	33°25'22"	83°49'43"	291	Sep 16, 1905 to Dec 31, 1906
02210500	Ocmulgee River near Jackson	33°18'28"	83°50'18"	1,420	May 18, 1906 to Sep 30, 1915 Aug 1, 1939 to Sep 30, 1960 Oct 1, 1975 to Sep 30, 1982
02211300	Towaliga River near Jackson	33°15'50"	84°04'17"	105	Jun 1, 1960 to Sep 30, 1971
02211459	Big Towaliga Creek near Barnesville	33°04'20"	84°11'04"	2.36	Oct 1, 1974 to Sep 30, 1980
02211500	Towaliga River near Forsyth	33°07'17"	83°56'36"	315	Feb 1, 1929 to Mar 31, 1932 Jul 1, 1944 to Dec 31, 1949
02212500	Ocmulgee River at Juliette	33°05'50"	83°47'10"	1,960	Jun 1, 1916 to Sep 30, 1921 Jul 12, 1974 to Sep 30, 1987
02212600	Falling Creek near Juliette	33°05'59"	83°43'25"	72.2	Jul 7, 1964 to Sep 30, 1987
02213000	Ocmulgee River at Macon	32°50'19"	83°37'14"	2,240	Feb 1, 1893 to Jul 31, 1912 Oct 1, 1928 to Sep 30, 1987
02213050	Walnut Creek near Gray	32°58'20"	83°37'08"	29.0	Oct 1, 1961 to Sep 30, 1987
02213470	Tobesofkee Creek above Macon	32°51'15"	83°50'22"	156	Apr 1, 1967 to Sep 30, 1971
02213500	Tobesofkee creek near Macon	32°48'32"	83°45'30"	182	Apr 1, 1937 to Sep 30, 1987
02213700	Ocmulgee River near Warner Robins	32°40'17"	83°36'11"	2,690	Oct 1, 1972 to Sep 30, 1987
02214000	Echeconnee Creek near Macon	32°45'54"	83°50'22"	147	Apr 1, 1937 to Sep 30, 1943
02214500	Big Indian Creek at Perry	32°27'20"	83°44'21"	108	Oct 1, 1943 to Jul 31, 1971

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period of record
02215000	Ocmulgee River at Hawkinsville	32°16'50"	83°27'40"	3,800	Oct 1, 1928 to Dec 31, 1931 Oct 1, 1943 to Sep 30, 1959
02215100	Tucsaawhatchee Creek near Hawkinsville	32°14'22"	83°30'06"	163	Apr 1, 1986 to Sep 30, 1987
02215400	Big Horse Creek near Lumber City	31°51'07"	82°49'37"	155	Oct 1, 1958 to Dec 31, 1961
02215500	Ocmulgee River at Lumber City	31°55'06"	82°40'26"	5,180	Oct 1, 1936 to Sep 30, 1987
02216000	Little Ocmulgee River at Towns	32°00'28"	82°45'10"	351	Apr 1, 1937 to Dec 31, 1946
02216180	Turnpike Creek near McRae	31°59'29"	82°55'19"	49.2	Jan 1, 1983 to Sep 30, 1987
02216610	Tillman Mill Creek near Lumber City	31°58'53"	82°38'32"	2.71	Oct 1, 1974 to Sep 30, 1985
02217000	Allen Creek at Talmo	34°11'34"	83°43'11"	17.3	Jul 7, 1951 to Sep 30, 1971
02217475	Middle Oconee River near Arcade	34°01'54"	83°33'48"	340	Mar 1, 1987 to Sep 30, 1987
02217500	Middle Oconee River near Athens	33°56'48"	83°25'22"	398	Oct 1, 1901 to Sep 30, 1902 Jan 1, 1929 to Mar 31, 1932 May 1, 1937 to Sep 30, 1987
02217900	North Oconee River at Athens	33°56'55"	83°22'04"	278	Oct 1, 1928 to Mar 31, 1932 Jun 24, 1944 to Dec 31, 1949
02218300	Oconee River near Penfield	33°43'16"	83°17'44"	940	Aug 1, 1977 to Sep 30, 1987
02218500	Oconee River near Greensboro	33°34'52"	83°16'22"	1,090	Aug 1, 1903 to Sep 30, 1932 Apr 1, 1937 to Sep 30, 1978
02219000	Apalachee River near Bostwick	33°47'17"	83°28'27"	176	Jul 1, 1944 to Dec 31, 1949 Apr 28, 1977 to Sep 30, 1987
02219500	Apalachee River near Buckhead	33°36'31"	83°20'58"	436	Jan 1, 1901 to Dec 31, 1908 Apr 1, 1937 to Sep 30, 1978
02220500	Oconee River near Sparta	33°20'05"	83°08'38"	1,830	Oct 1, 1949 to Apr 15, 1953
02220550	Whitten Creek near Sparta	33°23'12"	83°01'34"	15.0	Jun 22, 1960 to Apr 16, 1986
02220900	Little River near Eatonton	33°18'50"	83°26'14"	262	Aug 1, 1977 to Sep 30, 1987
02221000	Murder Creek near Monticello	33°24'56"	83°39'43"	24.0	Oct 1, 1951 to Sep 30, 1971
02221525	Murder Creek below Eatonton	33°15'08"	83°28'53"	190	Apr 27, 1977 to Sep 30, 1987
02223000	Oconee River at Milledgeville	33°05'22"	83°12'56"	2,950	Sep 1, 1903 to Sep 30, 1987
02223300	Big Sandy Creek near Jeffersonville	32°48'15"	83°25'04"	31.0	Oct 1, 1958 to Sep 30, 1971
02223500	Oconee River at Dublin	32°32'40"	82°53'41"	4,400	Oct 1, 1897 to Sep 30, 1987
02224000	Rocky Creek near Dudley	32°29'38"	83°08'49"	62.9	Dec 1, 1951 to Sep 30, 1976
02224500	Oconee River near Mt. Vernon	32°11'28"	82°38'00"	5,110	Oct 1, 1937 to Dec 31, 1955
02225000	Altamaha River near Baxley	31°56'20"	82°21'13"	11,600	Aug 14, 1949 to Jun 30, 1951 Oct 1, 1970 to Sep 30, 1987
02225500	Ohoopsee River near Reidsville	32°04'42"	82°10'39"	1,110	Jun 24, 1903 to Dec 31, 1907 May 25, 1937 to Sep 30, 1987
02226000	Altamaha River at Doctortown	31°39'16"	81°49'41"	13,600	Oct 1, 1931 to Sep 30, 1987
02226100	Penholoway Creek near Jesup	31°34'00"	81°50'18"	210	Jul 1, 1958 to Sep 30, 1987
02226500	Satilla River near Waycross	31°14'17"	82°19'29"	1,200	Apr 1, 1937 to Sep 30, 1987
02226600	Burket Creek near Roper	31°47'42"	82°37'33"	7.10	Jul 1, 1956 to Sep 30, 1963
02226700	Whitehead Creek near Denton	31°44'00"	82°41'26"	28.0	Jul 1, 1956 to Sep 30, 1963
02226900	Hurricane Creek near Hazelhurst	31°40'58"	82°34'15"	102	Jul 1, 1956 to Sep 30, 1963
02227000	Hurricane Creek near Alma	31°34'00"	82°27'50"	139	Oct 1, 1951 to Sep 30, 1971
02227500	Little Satilla River near Offerman	31°27'04"	82°03'17"	646	Jan 27, 1951 to Sep 30, 1987
02228000	Satilla River at Atkinson	31°13'16"	81°52'03"	2,790	Mar 21, 1930 to Sep 30, 1987
02228500	North Prong St Marys River at Moniac	30°31'03"	82°13'50"	160	Feb 1, 1921 to Dec 31, 1923 Feb 1, 1927 to Jun 30, 1930 Aug 1, 1932 to Jun 30, 1934 Oct 1, 1950 to Sep 30, 1987
02231000	St Marys River near Macclenny, FL	30°21'31"	82°04'54"	700	Oct 1, 1926 to Sep 30, 1987
02231253	St Marys River near Gross, FL	30°44'29"	81°41'17"	1,360	Apr 1, 1966 to May 31, 1975 Oct 1, 1980 to Sep 30, 1983 Oct 1, 1984 to Sep 30, 1987
02314500	Suwannee River at Fargo	30°40'50"	82°33'38"	1,260	Jan 28, 1927 to Dec 9, 1931 Apr 20, 1937 to Sep 30, 1987

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period of record
02316000	Alapaha River near Alapaha	31°23'03"	83°11'33"	663	Apr 26, 1937 to Sep 30, 1976
02317000	Alapaha River at Mayday	30°49'40"	83°01'05"	1,300	Oct 1, 1928 to Dec 9, 1931
02317500	Alapaha River at Statenville	30°42'14"	83°02'00"	1,400	Jan 28, 1921 to Jun 30, 1921 Dec 10, 1931 to Sep 30, 1987
02317748	Withlacoochee River near Bemiss	30°57'24"	83°16'12"	501	Oct 13, 1976 to Dec 31, 1981
02317755	Withlacoochee River at U.S. 41 near Valdosta	30°53'33"	83°19'08"	537	Oct 20, 1976 to Sep 30, 1978
02317830	Little River near Lenox	31°15'15"	83°30'32"	208	May 1, 1967 to Sep 30, 1971 Oct 1, 1976 to Sep 30, 1978
02318000	Little River near Adel	31°09'18"	83°32'38"	577	Jun 12, 1940 to Sep 30, 1971
02318500	Withlacoochee River near Quitman	30°47'35"	83°27'13"	1,480	Oct 1, 1928 to Dec 11, 1931 Jun 9, 1937 to May 31, 1948
02318700	Okapilco Creek at State Route 33 near Quitman	30°49'32"	83°33'45"	269	Dec 21, 1979 to Sep 30, 1987
02327500	Ochlockonee River near Thomasville	30°52'32"	84°02'44"	550	Aug 11, 1937 to Jun 30, 1971
02328000	Tired Creek near Cairo	30°51'54"	84°15'46"	60.0	Oct 1, 1943 to Feb 29, 1948 Apr 26, 1948 to Jun 30, 1971
02330450	Chattahoochee River at Helen	34°42'03"	83°43'44"	44.6	May 5, 1981 to Sep 30, 1987
02331000	Chattahoochee River near Leaf	34°34'37"	83°38'09"	150	Feb 21, 1940 to Sep 30, 1971
02331500	Soque River near Demorest	34°34'23"	83°35'27"	156	Jul 16, 1904 to Jun 30, 1909 May 30, 1929 to Dec 25, 1931 Mar 27, 1940 to Dec 31, 1951
02331600	Chattahoochee River near Cornelia	34°32'27"	83°37'14"	315	Aug 21, 1957 to Sep 30, 1987
02332000	King Branch near Alto	34°27'05"	83°36'45"	0.42	May 1, 1944 to Sep 30, 1948
02333000	Chattahoochee River near Gainesville	34°19'17"	83°52'46"	559	Jun 26, 1901 to Sep 27, 1902 Dec 28, 1902 to Dec 31, 1903 Apr 28, 1937 to Feb 29, 1956
02333500	Chestatee River near Dahlonga	34°31'41"	83°56'23"	153	Jul 8, 1929 to Jan 31, 1932 Apr 1, 1940 to Sep 30, 1987
02334430	Chattahoochee River at Buford Dam near Buford	34°09'25"	84°04'44"	1,040	Oct 1, 1971 to Sep 30, 1987
02334500	Chattahoochee River near Buford	34°07'34"	84°05'37"	1,060	Jan 27, 1942 to Sep 30, 1971
02334885	Suwanee Creek near Suwanee	34°01'56"	84°05'22"	46.8	Oct 1, 1984 to Sep 30, 1987
02335000	Chattahoochee River near Norcross	33°59'50"	84°12'07"	1,170	Jan 1, 1903 to Sep 30, 1946 Oct 1, 1956 to Sep 30, 1987
02335450	Chattahoochee River at Eves Road above Roswell	33°59'09"	84°18'58"	1,220	Jul 7, 1976 to Sep 30, 1987
02335500	Chattahoochee River near Roswell	34°00'20"	84°19'53"	1,230	Oct 1, 1941 to May 10, 1960
02335700	Big Creek near Alpharetta	34°03'02"	84°16'10"	72.0	May 1, 1960 to Sep 30, 1987
02335870	Sope Creek near Marietta	33°57'14"	84°26'36"	29.2	Oct 1, 1984 to Sep 30, 1987
02336000	Chattahoochee River at Atlanta	33°51'33"	84°27'16"	1,450	Aug 1, 1928 to Dec 31, 1931 Oct 1, 1936 to Sep 30, 1987
02336300	Peachtree Creek at Atlanta	33°49'10"	84°24'28"	86.8	Jun 20, 1958 to Sep 30, 1987
02336380	Nancy Creek at Randall Mill Road at Atlanta	33°51'35"	84°25'28"	34.8	Oct 1, 1963 to Sep 30, 1964
02336490	Chattahoochee River at State Route 280 near Atlanta	33°49'01"	84°28'48"	1,600	Mar 3, 1981 to Sep 30, 1987

ACTIVE AND DISCONTINUED GAGING STATIONS--Continued

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Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period of record
02336500	Chattahoochee River at Oakdale	33°48'46"	84°29'19"	1,600	Oct 1, 1895 to Aug 31, 1903 Nov 1, 1903 to May 31, 1904
02336700	South Utoy Creek Tributary at Headland Drive at East Point	33°41'25"	84°28'05"	0.79	Oct 1, 1963 to Sep 30, 1969
02337000	Sweetwater Creek near Austell	33°46'22"	84°36'53"	246	May 18, 1904 to Dec 31, 1905 Mar 24, 1937 to Sep 30, 1987
02337100	North Fork Camp Creek at Atlanta	33°39'40"	84°30'40"	5.25	Oct 1, 1963 to Sep 30, 1969
02337170	Chattahoochee River near Fairburn	33°39'24"	84°40'25"	2,060	Jul 16, 1965 to Sep 30, 1987
02337500	Snake Creek near Whitesburg	33°31'46"	84°55'42"	37.0	Sep 15, 1954 to Sep 30, 1987
02338000	Chattahoochee River near Whitesburg	33°28'37"	84°54'04"	2,430	Oct 1, 1938 to Jun 30, 1954 Jan 1, 1965 to Sep 30, 1987
02338500	Chattahoochee River at Franklin	33°16'45"	85°06'00"	2,680	Jun 1, 1928 to Oct 31, 1931 Oct 1, 1938 to Sep 30, 1939 Oct 1, 1957 to Sep 30, 1959
02338660	New River near Corinth	33°14'07"	84°59'16"	127	Oct 1, 1978 to Sep 30, 1987
02338840	Yellowjacket Creek near Hogansville	33°08'22"	84°58'31"	91.0	Oct 1, 1978 to Sep 30, 1985
02339000	Yellowjacket Creek near LaGrange	33°05'27"	85°03'40"	182	Jan 20, 1951 to Mar 31, 1971
02339500	Chattahoochee River at West Point	32°53'10"	85°10'56"	3,550	Aug 1, 1896 to Sep 30, 1987
02340000	Mill Creek near Warm Springs	32°52'03"	84°47'04"	0.87	Dec 17, 1933 to Apr 30, 1935
02340500	Mountain Oak Creek near Hamilton	32°44'28"	85°04'08"	61.7	Dec 22, 1943 to Sep 30, 1971
02341500	Chattahoochee River at Columbus	32°27'45"	84°59'52"	4,670	Aug 23, 1929 to Sep 30, 1987
02341800	Uptoi Creek near Columbus	32°24'48"	84°49'12"	342	Apr 1, 1968 to Sep 30, 1987
02342000	Uptoi Creek at Fort Benning	32°22'35"	84°56'40"	447	Oct 1, 1942 to Dec 31, 1947
02342850	Hannahatchee Creek at Union	32°09'10"	84°54'21"	121	Jun 1, 1964 to Sep 30, 1965
02343200	Pataula Creek near Lumpkin	31°56'03"	84°48'12"	70.0	Jun 21, 1958 to Sep 30, 1971
02343260	Chattahoochee River at Fort Gaines	31°36'15"	85°03'19"	7,570	Oct 1, 1960 to Sep 30, 1962
02343500	Chattahoochee River at Columbia, Ala.	31°17'11"	85°05'45"	8,040	Jul 27, 1928 to Sep 30, 1960
02343801	Chattahoochee River at Andrews Lock and Dam at Columbia, Ala.	31°15'33"	85°06'37"	8,210	Oct 1, 1975 to Sep 30, 1987
02344000	Chattahoochee River at Alaga, Ala.	31°06'54"	85°02'43"	8,340	May 1, 1938 to Dec 31, 1944 Oct 1, 1960 to Sep 30, 1970
02344300	Camp Creek near Fayetteville	33°31'00"	84°25'39"	17.2	Jun 1, 1960 to Sep 30, 1973
02344350	Flint River near Lovejoy	33°24'56"	84°23'05"	130	May 7, 1985 to Sep 30, 1987
02344500	Flint River near Griffin	33°14'39"	84°25'45"	272	Mar 1, 1937 to Sep 30, 1987
02344700	Line Creek near Senoia	33°19'10"	84°31'25"	101	Sep 1, 1964 to Sep 30, 1987
02345000	Flint River near Molena	32°59'21"	84°31'45"	990	Oct 1, 1945 to Jun 30, 1953
02345500	Flint River near Woodbury	32°57'59"	84°31'58"	1,090	Apr 1, 1900 to Sep 30, 1920
02346180	Flint River near Thomaston	32°50'20"	84°25'27"	1,220	May 21, 1966 to Sep 30, 1987
02346500	Potato Creek near Thomaston	32°54'15"	84°21'45"	186	Oct 1, 1937 to Jun 30, 1971
02347500	Flint River near Culloden	32°43'17"	84°13'57"	1,850	Jul 1, 1911 to May 31, 1923 Jul 21, 1928 to Dec 31, 1931 Mar 18, 1937 to Sep 30, 1987
02348500	Whitewater Creek near Butler	32°28'02"	84°15'59"	80.0	Oct 1, 1943 to Sep 30, 1951
02349000	Whitewater Creek below Rambulette Creek near Butler	32°28'00"	84°15'58"	93.4	Oct 1, 1951 to Sep 30, 1971
02349500	Flint River at Montezuma	32°17'53"	84°02'38"	2,900	Oct 1, 1904 to Dec 31, 1909 Jan 1, 1911 to Dec 31, 1912 Jul 1, 1930 to Sep 30, 1987
02349900	Turkey Creek at Byromville	32°11'44"	83°54'03"	45.0	Jun 20, 1958 to Sep 30, 1987
02350000	Flint River near Vienna	32°03'38"	83°58'36"	3,390	Oct 1, 1926 to Sep 30, 1930
02350080	Lime Creek near Cobb	32°02'06"	83°59'33"	61.8	Apr 30, 1983 to Jan 11, 1984
02350220	Gum Creek at Coney	31°57'40"	83°53'05"	73.0	Apr 30, 1983 to Jan 11, 1984
02350300	Cedar Creek near Cordele	31°54'45"	83°51'18"	34.0	Apr 30, 1983 to Jan 11, 1984

ACTIVE AND DISCONTINUED GAGING STATIONS--Continued

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period of record
02350500	Flint River at Oakfield	31°46'07"	83°59'24"	3,860	Oct 1, 1929 to Dec 31, 1958
02350600	Kinchafoonee Creek at Preston	32°03'13"	84°32'53"	197	Oct 1, 1951 to Sep 30, 1977
02350900	Kinchafoonee Creek near Dawson	31°45'52"	84°15'12"	527	Mar 7, 1985 to Sep 30, 1987
02351000	Kinchafoonee Creek near Leesburg	31°43'10"	84°11'08"	586	Apr 1, 1906 to Dec 31, 1909
02351890	Muckalee Creek at State Route 195 near Leesburg	31°46'34"	84°08'22"	362	Dec 15, 1979 to Sep 30, 1987
02352500	Flint River at Albany	31°35'39"	84°08'39"	5,310	Oct 1, 1901 to Jun 30, 1921 Oct 1, 1929 to Sep 30, 1987
02353000	Flint River at Newton	31°18'34"	83°20'06"	5,740	Apr 1, 1938 to Sep 30, 1945 Oct 1, 1946 to Sep 30, 1947 Jan 1, 1949 to Sep 30, 1950 Oct 1, 1956 to Sep 30, 1987
02353400	Pachitla Creek near Edison	31°33'17"	84°40'43"	188	Jun 9, 1959 to Sep 30, 1971
02353500	Ichawaynochaway Creek at Milford	31°22'58"	84°32'52"	620	Sep 1, 1905 to Dec 31, 1907 Oct 1, 1939 to Sep 30, 1987
02354000	Alligator Creek near Milford	31°21'17"	84°33'58"	14.0	Jan 1, 1942 to May 31, 1952
02354500	Chickasawhatchee Creek at Elmodel	31°21'09"	84°29'10"	320	Oct 1, 1939 to Dec 31, 1949
02355000	Ichawaynochaway Creek at Newton	31°16'00"	84°29'00"	1,020	Aug 10, 1937 to Mar 31, 1939 Oct 1, 1939 to Sep 30, 1947
02355500	Big Cypress Creek near Milford	31°15'15"	84°36'18"	12.0	Jan 1, 1942 to Dec 31, 1949
02356000	Flint River at Bainbridge	30°54'41"	84°34'48"	7,570	Oct 1, 1907 to Dec 31, 1913 Oct 1, 1928 to Sep 30, 1971
02356500	Long Branch near Damascus	31°17'55"	84°42'11"	18.0	Feb 1, 1945 to Dec 31, 1949
02357000	Spring Creek near Iron City	31°02'23"	84°44'18"	485	Jun 11, 1937 to Apr 30, 1971 Dec 20, 1976 to Sep 30, 1978 Jun 7, 1982 to Sep 30, 1987
02379000	Cartecay River near Cartecay	34°38'19"	84°24'32"	86.4	Jul 1, 1904 to Dec 31, 1905 Dec 12, 1918 to Jun 30, 1921
02379500	Cartecay River near Ellijay	34°40'53"	84°27'20"	134	Mar 17, 1937 to Sep 30, 1977
02380000	Ellijay River at Ellijay	34°41'06"	84°28'40"	87.7	May 4, 1907 to Dec 31, 1907 Dec 10, 1918 to Jun 30, 1921 Feb 26, 1953 to Sep 30, 1969
02380500	Coosawattee River near Ellijay	34°40'18"	84°30'31"	236	Oct 1, 1938 to Dec 31, 1949 Jun 1, 1963 to Sep 30, 1987
02381000	Mountaintown Creek near Ellijay	34°45'00"	84°33'25"	31.5	Oct 1, 1939 to Dec 31, 1942
02381500	Coosawattee River near Carters	34°36'45"	84°40'15"	374	Sep 12, 1925 to Dec 10, 1931 Oct 1, 1961 to Sep 30, 1964
02381600	Fausett Creek near Talking Rock	34°34'17"	84°27'55"	9.99	Oct 1, 1974 to Sep 30, 1987
02381950	Scarecorn Creek above Hinton	34°27'11"	84°33'28"	6.4	Jul 22, 1986 to Sep 30, 1987
02382000	Scarecorn Creek at Hinton	34°28'04"	84°35'30"	21.3	Apr 1, 1939 to Dec 31, 1942 May 1, 1959 to Sep 30, 1974 Aug 1, 1986 to Sep 30, 1987
02382200	Talking Rock Creek near Hinton	34°31'22"	84°36'40"	119	Nov 1, 1973 to Sep 30, 1987
02382300	Talking Rock Creek near Carters	34°35'20"	84°40'05"	142	Oct 1, 1963 to Sep 30, 1971
02382500	Coosawattee River at Carters	34°36'13"	84°41'44"	521	Sep 1, 1896 to Dec 1, 1908 Dec 21, 1918 to Sep 30, 1923 Oct 1, 1961 to Sep 7, 1972 Oct 1, 1974 to Sep 30, 1987
02383000	Rock Creek near Fairmount	34°21'32"	84°46'46"	6.17	Oct 1, 1951 to Sep 30, 1974
02383500	Coosawattee River near Pine Chapel	34°33'51"	84°49'59"	831	Nov 11, 1938 to Sep 30, 1987
02384000	Conasauga River near Tennega	35°00'34"	84°44'02"	108	May 27, 1929 to Dec 31, 1931 Oct 1, 1943 to Dec 31, 1947

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period of record
02384500	Conasauga River near Eton	34°49'40"	84°51'03"	252	Oct 1, 1981 to Sep 30, 1987
02384540	Mill Creek near Crandall	34°52'19"	84°43'17"	8.27	Jan 30, 1985 to Sep 30, 1987
02385000	Coahulla Creek near Varnell	34°53'43"	84°55'15"	86.7	Oct 1, 1939 to Dec 31, 1942
02385500	Mill Creek at Dalton	34°47'18"	84°58'30"	40.1	Aug 1, 1943 to Sep 30, 1959
02385800	Holly Creek near Chatsworth	34°43'00"	84°46'12"	64.0	Jun 1, 1960 to Sep 30, 1987
02386000	Rock Creek at Ramhurst	34°42'42"	84°44'03"	16.5	Apr 1, 1939 to Jun 30, 1940
02386500	Drowning Bear Creek near Dalton	34°43'30"	84°56'12"	13.9	Apr 1, 1939 to Jun 30, 1940
02387000	Conasauga River at Tilton	34°40'00"	84°55'42"	687	Jun 5, 1937 to Sep 30, 1987
02387500	Oostanaula River at Resaca	34°34'42"	84°56'29"	1,600	Nov 1, 1892 to Sep 30, 1987
02388000	West Armurchee Creek near Subigna	34°34'04"	85°09'16"	36.4	Apr 1, 1939 to Jun 30, 1940 May 1, 1960 to Apr 27, 1982
02388300	Heath Creek near Rome	34°21'57"	85°16'17"	14.7	May 9, 1968 to Sep 30, 1987
02388320	Heath Creek below Rocky Mountain Damsite near Armurchee	34°22'18"	85°15'50"	16.6	Mar 2, 1982 to Sep 30, 1987
02388500	Oostanaula River at Rome	34°18'02"	85°08'30"	2,120	Oct 1, 1939 to Sep 30, 1987
02389000	Etowah River near Dawsonville	34°22'57"	84°03'21"	107	Mar 20, 1940 to Sep 30, 1976
02389300	Shoal Creek near Dawsonville	34°25'13"	84°08'47"	21.7	Jun 1, 1958 to Sep 30, 1974
02389500	East Amicalola Creek at Juno	34°28'28"	84°11'55"	28.5	Apr 1, 1939 to Sep 30, 1942
02390000	Amicalola Creek near Dawsonville	34°25'32"	84°12'43"	89.0	Apr 1, 1939 to May 31, 1952
02390500	Long Swamp Creek near Ballground	34°19'36"	84°20'41"	76.6	Oct 1, 1918 to Sep 30, 1921
02391000	Etowah River near Ballground	34°19'05"	84°20'35"	477	Apr 1, 1907 to Dec 31, 1915 Oct 1, 1918 to Sep 30, 1921
02391500	Sharp Mountain Creek near Ballground	34°20'14"	84°24'19"	63.8	Apr 1, 1939 to Jun 30, 1940
02392000	Etowah River at Canton	34°14'23"	84°29'47"	613	Oct 1, 1896 to Sep 30, 1905 Oct 1, 1936 to Sep 30, 1987
02392500	Little River near Roswell	34°07'09"	84°23'18"	60.0	Jan 1, 1947 to Sep 30, 1976
02394000	Etowah River at Allatoona Dam at Cartersville	34°09'47"	84°44'28"	1,120	Sep 1, 1938 to Sep 30, 1987
02394950	Hills Creek near Taylorsville	34°04'27"	84°57'02"	25.0	May 21, 1959 to Sep 30, 1974
02395000	Etowah River near Kingston	34°12'24"	84°58'44"	1,630	Jul 18, 1928 to Dec 31, 1931 Oct 1, 1936 to Sep 30, 1987
02395120	Two Run Creek near Kingston	34°14'34"	84°53'23"	33.1	May 2, 1980 to Sep 30, 1987
02395500	Dykes Creek near Rome	34°15'30"	85°05'01"	14.9	Jan 1, 1939 to Dec 31, 1942
02396000	Etowah River at Rome	34°15'26"	85°09'30"	1,820	Aug 1, 1904 to Jun 30, 1921 Oct 1, 1938 to Sep 30, 1987
02397000	Coosa River near Rome	34°12'01"	85°15'24"	4,040	Oct 1, 1896 to Dec 31, 1903 Jun 21, 1928 to Dec 31, 1931 Mar 10, 1937 to Dec 31, 1958 Oct 1, 1962 to Sep 30, 1987
02397410	Cedar Creek at Cedartown	33°59'45"	85°15'53"	66.9	May 4, 1981 to Sep 30, 1987
02397500	Cedar Creek near Cedartown	34°03'38"	85°18'41"	115	Oct 1, 1942 to Sep 30, 1973
02397830	Harrisburg Creek near Hawkins	34°36'02"	85°23'21"	13.3	Oct 1, 1979 to Sep 30, 1982
02398000	Chattooga River at Summerville	34°28'03"	85°20'19"	193	Mar 11, 1937 to Sep 30, 1987
02411800	Little River near Buchanan	33°47'50"	85°07'05"	20.2	Jun 1, 1959 to Sep 30, 1985
02413000	Little Tallapoosa River at Carrollton	33°35'50"	85°04'49"	95.1	Apr 1, 1937 to Sep 30, 1965
03544947	Brier Creek near Hiawassee	34°50'05"	83°42'34"	1.70	May 25, 1984 to Sep 30, 1987
03545000	Hiawassee River at Presley	34°54'17"	83°43'01"	45.5	Dec 1, 1941 to Mar 31, 1982
03545500	Hightower Creek near Presley	34°54'59"	83°41'55"	32.4	Dec 1, 1941 to Sep 30, 1945
03550500	Nottley River near Blairsville	34°50'28"	83°56'10"	74.8	Jan 23, 1942 to Mar 31, 1982
03551000	Coosa Creek near Blairsville	34°51'05"	83°59'35"	21.1	Dec 12, 1941 to Sep 30, 1945

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period of record
03551500	Youngcane Creek near Youngcane	34°52'41"	84°03'57"	27.6	Jan 21, 1942 to Sep 30, 1945
03552000	Ivylog Creek near Ivylog	34°56'26"	84°01'27"	16.7	Feb 14, 1942 to Sep 30, 1945
03552500	Nottely River near Ivylog	34°55'32"	84°03'39"	191	Oct 1, 1936 to Jan 31, 1942
03553500	Nottely River at Nottely Dam near Ivylog	34°57'55"	84°05'25"	215	Jul 1, 1942 to Sep 30, 1975
03558000	Toccoa River near Dial	34°47'24"	84°14'24"	177	Jan 1, 1913 to Sep 30, 1987
03559000	Toccoa River near Blue Ridge	34°53'14"	84°17'07"	233	Oct 1, 1898 to Mar 31, 1903 Apr 1, 1913 to Aug 31, 1974
03560000	Fightingtown Creek at McCaysville	34°58'53"	84°23'12"	70.9	Nov 1, 1942 to Sep 30, 1971
03567129	Mill Creek near Cedar Grove	34°42'57"	85°25'59"	5.62	Jul 24, 1986 to Mar 31, 1988
03568500	Chattanooga Creek near Flintstone	34°58'20"	85°19'40"	50.6	Jan 1, 1951 to Sep 30, 1974
03568782	Hurricane Creek near Rising Fawn	34°45'48"	85°30'12"	4.28	Jul 25, 1986 to May 31, 1987
03568933	Lookout Creek near New England	34°53'51"	85°27'47"	149	Aug 30, 1979 to Sep 30, 1987
03569000	Lookout Creek near Wildwood	34°57'22"	85°24'12"	165	Aug 7, 1945 to Feb 28, 1946 Apr 1, 1946 to Aug 15, 1946

GROUND-WATER LEVELS

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CHARLTON COUNTY

304942082213801 Local number, 27E004.

LOCATION.--Lat 30°49'43", long 82°21'38", Hydrologic Unit 03110201, end of Georgia Highway 177 east of Stephen C. Foster State Park.

Owner: U.S. Geological Survey, test well OK 9.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 700 ft, cased to 498 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 116 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 4.3 ft above land-surface datum.

REMARKS.--Well drilled in May, 1978 to replace U.S. Geological Survey test well OK 8 (27E002).

PERIOD OF RECORD.--June 14, 1978 to Jan. 26, 1979; Jan. 1, 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 62.30 ft below land-surface datum, May 9, 1984; lowest, 71.60 ft below land surface datum, July 27, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69.34	69.54	69.12	68.00	66.55	64.98	64.21	64.45	66.26	67.60	68.29	68.65
2	69.34	69.51	69.10	68.19	66.33	65.09	64.13	64.51	66.31	67.58	68.29	68.65
3	69.34	69.44	69.24	68.24	66.33	65.13	64.01	64.62	66.38	67.63	68.32	68.66
4	69.30	69.40	69.37	67.94	66.40	65.16	64.06	64.71	66.43	67.66	68.33	68.64
5	69.23	69.39	69.38	67.96	66.38	65.20	64.00	64.83	66.50	67.71	68.34	68.60
6	69.25	69.41	69.40	68.04	66.17	65.13	63.95	64.89	66.63	67.74	68.41	68.60
7	69.31	69.50	69.33	67.96	66.01	64.83	63.91	64.90	66.74	67.75	68.48	68.58
8	69.35	69.51	69.21	67.90	65.95	64.60	63.90	64.92	66.80	67.74	68.50	68.61
9	69.35	69.47	69.13	67.82	66.12	64.51	63.86	65.11	66.81	67.76	68.49	68.65
10	69.33	69.47	69.05	67.61	66.21	64.62	63.83	65.20	66.82	67.73	68.46	68.68
11	69.39	69.48	68.99	67.71	66.09	64.79	63.86	65.22	66.90	67.71	68.45	68.72
12	69.43	69.45	68.98	67.70	65.89	64.75	63.89	65.24	66.97	67.69	68.48	68.68
13	69.38	69.53	69.18	67.63	65.79	64.67	63.90	65.34	67.00	67.72	68.49	68.65
14	69.34	69.63	69.19	67.59	65.68	64.61	63.88	65.44	67.02	67.74	68.53	68.66
15	69.37	69.50	69.08	67.45	65.60	64.55	63.72	65.43	67.08	67.79	68.56	68.65
16	69.39	69.43	68.98	67.37	65.38	64.48	63.63	65.48	67.12	67.88	68.58	68.63
17	69.44	69.33	68.86	67.32	65.51	64.46	63.63	65.57	67.21	67.99	68.60	68.61
18	69.51	69.25	68.72	67.21	65.59	64.33	63.73	65.59	67.29	68.02	68.60	68.56
19	69.56	69.29	68.73	67.13	65.69	64.15	63.89	65.60	67.29	68.04	68.58	68.55
20	69.53	69.26	68.69	67.23	65.67	64.19	63.94	65.64	67.29	68.10	68.61	68.57
21	69.51	69.34	68.76	67.12	65.47	64.11	63.93	65.71	67.30	68.13	68.66	68.65
22	69.51	69.38	68.78	66.80	65.26	64.10	63.95	65.81	67.32	68.11	68.66	68.69
23	69.50	69.38	68.52	67.06	65.31	64.14	63.97	65.84	67.35	68.07	68.62	68.68
24	69.44	69.39	68.33	67.11	65.39	64.11	63.97	65.84	67.36	68.15	68.61	68.66
25	69.35	69.36	68.46	66.78	65.39	64.13	64.09	65.88	67.36	68.20	68.65	68.69
26	69.35	69.29	68.51	66.76	65.38	64.08	64.26	65.96	67.38	68.19	68.67	68.79
27	69.40	69.29	68.46	66.90	65.27	64.01	64.31	66.03	67.40	68.19	68.66	68.84
28	69.51	69.32	68.47	66.87	65.11	64.05	64.27	66.07	67.53	68.18	68.65	68.86
29	69.49	69.24	68.41	66.85	---	64.09	64.39	66.11	67.62	68.21	68.65	68.78
30	69.43	69.10	68.31	66.61	---	63.93	64.41	66.13	67.65	68.29	68.66	68.63
31	69.50	---	68.23	66.58	---	64.07	---	66.19	---	68.33	68.65	---
MEAN	69.40	69.40	68.87	67.40	65.78	64.49	63.98	65.43	67.04	67.92	68.53	68.66
WTR YR 1987	MEAN	67.25		HIGH	63.63		LOW	69.63				

GROUND-WATER LEVELS

CHATHAM COUNTY

315950081161201 Local number, 35P094.

LOCATION.--Lat 31°59'50", long 81°16'12", Hydrologic Unit 03060204, Barbour Lathrop Plant Introduction Station, 10 mi south of Savannah, north of the intersection of U.S. Highway 17 and Argyle Rd.

Owner: University of Georgia, formerly owned by 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.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 18.67 ft above 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 period of missing record, Oct. 11, 12, and Sept. 2, 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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.56	7.95	6.20	2.97	2.44	1.59	2.25	4.54	4.83	5.47	5.86	7.39
2	6.69	7.82	5.96	2.50	2.14	1.90	2.46	4.59	4.92	5.47	6.12	7.18
3	6.81	7.78	5.70	2.66	1.99	2.24	2.59	4.63	5.03	5.45	6.35	6.98
4	6.92	7.79	5.47	2.51	2.32	2.44	2.69	4.75	4.96	4.44	6.51	6.76
5	7.04	7.79	5.35	.89	2.43	2.59	2.84	4.76	4.24	4.14	6.63	4.57
6	7.19	7.83	5.34	1.28	1.68	2.69	2.95	4.83	4.22	4.10	6.72	1.59
7	7.45	7.94	5.35	1.57	1.05	2.61	3.04	4.80	4.22	3.76	6.82	1.05
8	7.61	7.99	5.38	1.85	1.44	.83	3.07	4.92	4.30	3.80	6.88	1.62
9	7.68	8.00	5.43	2.08	1.99	1.14	3.14	5.06	4.27	3.74	6.98	1.92
10	7.56	8.03	5.47	1.70	2.26	1.57	3.20	5.16	4.28	3.88	7.13	1.90
11	7.31	8.05	5.28	1.71	2.39	1.94	3.26	5.22	4.33	4.06	6.15	2.32
12	6.99	8.08	4.77	2.08	2.49	2.05	3.26	5.35	4.39	4.14	5.71	2.06
13	6.79	8.12	4.34	2.31	2.60	2.24	3.32	5.28	4.47	4.47	5.76	1.86
14	6.80	8.20	4.22	2.43	2.66	2.41	3.37	4.72	4.54	4.98	5.85	2.32
15	6.86	8.22	4.21	2.41	2.73	2.53	3.40	4.59	4.59	5.17	5.95	2.57
16	6.90	8.23	4.22	1.72	1.87	2.45	3.43	4.58	4.63	5.31	6.07	2.56
17	6.99	8.22	4.20	1.11	1.90	2.65	3.54	4.59	4.75	5.42	6.20	2.45
18	7.11	7.99	4.20	.93	2.17	2.78	3.70	4.67	4.76	5.54	6.31	2.70
19	7.23	7.83	4.27	1.02	2.38	2.48	3.79	4.53	4.83	5.59	6.43	2.61
20	7.31	7.60	4.26	1.41	2.41	2.66	3.78	3.74	4.80	5.65	6.58	2.25
21	7.39	7.32	4.18	1.53	1.83	2.80	3.75	3.72	4.92	5.80	6.70	2.56
22	7.50	7.04	4.20	.33	1.38	2.91	3.91	3.81	4.81	5.94	6.79	2.75
23	7.61	6.86	4.19	.74	1.27	2.97	3.89	3.88	4.75	6.11	6.89	2.81
24	7.68	6.77	3.75	1.12	1.73	2.99	3.99	3.87	4.70	6.24	7.05	2.91
25	7.72	6.72	3.56	.94	2.01	2.77	4.09	4.00	4.78	6.22	7.19	3.02
26	7.78	6.63	3.60	1.02	2.09	2.36	4.15	4.12	5.22	6.30	7.27	3.14
27	7.87	6.59	3.65	1.48	1.99	2.49	4.21	4.25	5.15	6.39	7.35	3.24
28	7.98	6.64	3.74	1.73	2.19	2.61	4.33	4.37	5.18	6.51	7.47	3.24
29	8.04	6.58	3.81	1.97	---	2.74	4.39	4.48	5.27	6.31	7.57	3.24
30	8.04	6.42	3.88	2.09	---	2.43	4.47	4.54	5.35	5.90	7.69	3.22
31	8.03	---	3.96	2.32	---	2.02	---	4.73	---	5.98	7.78	---
MEAN	7.34	7.57	4.59	1.69	2.07	2.35	3.48	4.55	4.72	5.23	6.67	3.16
WTR YR 1987	MEAN	4.47		HIGH	.33		LOW	8.23				

GROUND-WATER LEVELS

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CHATHAM COUNTY

320021081124801 Local number, 36Q020.

LOCATION.--Lat 32°00'18", long 81°12'48", Hydrologic Unit 03060204, 2.7 mi south of intersection of U.S. Highway 17 with Dean Forest Road.

Owner: H. J. Morrison.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 3 in., depth 365 ft, cased to 330 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 13 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.88 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted May 7, 1985.

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, 54.45 ft below land-surface datum, July 23, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.61	51.46	49.27	47.79	47.68	46.40	46.52	47.49	50.53	50.31	52.28	52.70
2	52.60	51.33	49.17	48.06	47.46	46.57	46.47	47.76	50.62	50.29	52.28	52.59
3	52.64	51.22	49.24	48.14	47.46	46.66	46.34	48.11	50.72	50.33	52.29	52.50
4	52.66	51.07	49.33	47.87	47.56	46.69	46.41	48.38	50.80	50.31	52.31	52.37
5	52.72	50.94	49.32	47.85	47.60	46.75	46.40	48.61	50.76	50.31	52.29	52.20
6	52.82	50.96	49.31	47.96	47.38	46.75	46.39	48.59	50.72	50.32	52.35	52.09
7	52.87	51.01	49.27	47.90	47.16	46.54	46.34	48.59	50.77	50.23	52.38	51.93
8	52.86	50.97	49.22	47.91	47.08	46.27	46.31	48.65	50.78	50.19	52.44	51.95
9	52.82	50.93	49.11	47.86	47.30	46.23	46.28	48.90	50.79	50.25	52.50	51.95
10	52.72	50.93	48.99	47.65	47.37	46.30	46.27	49.08	50.84	50.28	52.51	51.94
11	52.73	50.81	48.87	47.80	47.28	46.48	46.32	49.16	50.93	50.38	52.39	51.95
12	52.68	50.76	48.85	47.82	47.11	46.46	46.46	49.14	51.02	50.53	52.39	51.92
13	52.56	50.80	49.04	47.80	47.08	46.41	46.62	49.10	51.04	50.65	52.42	51.86
14	52.46	50.87	49.03	47.77	46.98	46.39	46.63	49.12	50.95	50.78	52.46	51.83
15	52.45	50.70	48.92	47.66	46.96	46.36	46.63	49.12	50.87	50.98	52.50	51.80
16	52.37	50.64	48.83	47.60	46.70	46.33	46.63	49.18	50.71	51.19	52.54	51.75
17	52.37	50.52	48.75	47.57	46.84	46.35	46.63	49.31	50.64	51.41	52.54	51.72
18	52.38	50.36	48.65	47.44	46.94	46.21	46.63	49.40	50.65	51.55	52.52	51.69
19	52.38	50.38	48.74	47.39	47.08	46.07	46.63	49.44	50.58	51.67	52.48	51.68
20	52.30	50.22	48.70	47.49	47.07	46.15	46.63	49.44	50.51	51.81	52.51	51.67
21	52.18	50.29	48.78	47.40	46.72	46.10	46.67	49.43	50.48	51.91	52.50	51.71
22	52.12	50.26	48.82	47.07	46.58	46.15	46.70	49.46	50.44	51.97	52.45	51.70
23	52.07	50.20	48.60	47.39	46.75	46.23	46.67	49.52	50.35	52.04	52.42	51.65
24	51.98	50.15	48.39	47.58	46.73	46.22	46.61	49.61	50.26	52.22	52.44	51.60
25	51.79	50.04	48.52	47.37	46.74	46.19	46.81	49.75	50.19	52.32	52.46	51.64
26	51.67	49.87	48.55	47.41	46.73	46.17	47.05	49.90	50.13	52.33	52.52	51.72
27	51.64	49.81	48.46	47.62	46.68	46.13	47.13	50.02	50.12	52.37	52.59	51.77
28	51.72	49.74	48.43	47.72	46.54	46.17	47.13	50.08	50.23	52.40	52.68	51.77
29	51.66	49.57	48.32	47.77	---	46.27	47.32	50.16	50.32	52.39	52.78	51.66
30	51.52	49.35	48.19	47.62	---	46.12	47.38	50.27	50.36	52.32	52.84	51.44
31	51.49	---	48.14	47.69	---	46.29	---	50.42	---	52.33	52.82	---
MEAN	52.32	50.54	48.83	47.68	47.06	46.34	46.63	49.20	50.60	51.24	52.48	51.89
WTR YR 1987	MEAN	49.58		HIGH	46.07		LOW	52.87				

GROUND-WATER LEVELS

CHATHAM COUNTY

320122080510204 Local number, 39Q003.

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.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 10 in., depth 600 ft, cased to 129 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 7.0 ft above 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 Jan. 24, 1962.

PERIOD OF RECORD.--May 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.8 ft below land-surface datum, Apr. 11, 1963; lowest, 34.33 ft below land-surface datum, Aug. 3, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.95	31.93	30.32	29.01	29.12	28.38	28.60	29.10	31.82	32.12	33.40	33.18
2	32.90	31.90	30.68	29.83	28.99	28.63	28.46	29.12	32.07	32.17	33.22	33.07
3	32.97	31.75	31.14	29.82	29.01	28.63	28.47	29.32	32.09	32.31	33.12	33.01
4	33.14	31.58	31.21	29.15	28.90	28.67	28.87	29.39	31.91	32.30	33.29	32.62
5	33.23	31.67	31.07	29.02	28.78	28.61	28.70	29.15	31.68	32.36	33.27	32.56
6	33.09	31.83	31.05	29.27	28.56	28.60	28.41	29.25	31.72	32.20	33.27	33.11
7	32.88	31.98	30.78	29.52	28.44	28.20	28.40	29.34	31.99	32.03	33.21	32.76
8	32.72	32.01	30.75	29.49	28.65	28.30	28.39	29.47	32.12	32.01	33.08	32.61
9	32.83	32.08	30.64	29.35	29.35	28.47	28.45	29.42	32.32	32.18	33.02	32.69
10	32.79	31.78	30.63	29.32	29.18	28.30	28.26	29.80	32.37	32.18	33.18	32.62
11	32.38	31.50	30.50	29.88	29.20	28.21	28.35	29.76	32.07	32.17	32.92	32.64
12	32.36	31.65	30.43	29.76	29.10	28.25	28.71	29.72	32.18	32.08	32.67	32.57
13	32.31	31.59	30.60	29.40	28.91	28.18	28.85	29.79	32.35	32.05	32.56	32.60
14	32.36	31.44	30.27	29.34	28.74	28.10	28.64	29.91	32.35	32.24	32.73	32.51
15	32.39	31.44	30.17	29.32	28.66	28.19	28.38	29.96	32.34	32.33	32.98	32.38
16	32.24	31.52	30.27	29.21	28.10	28.29	28.43	30.12	32.35	32.33	33.11	32.29
17	32.27	31.45	30.08	28.96	28.54	28.07	28.46	30.17	32.35	32.27	33.23	32.37
18	32.29	31.24	29.92	28.83	28.69	28.04	28.44	30.26	32.35	32.30	33.16	32.43
19	32.48	31.12	30.05	29.28	28.81	27.97	28.52	30.29	32.23	32.48	33.07	32.42
20	32.38	30.87	29.85	29.41	28.76	27.94	28.59	30.28	32.27	32.58	33.02	32.16
21	32.26	31.25	29.79	29.10	28.50	28.08	28.60	30.06	32.40	32.59	33.01	31.97
22	32.27	31.12	29.79	28.79	28.30	27.99	28.56	30.14	32.37	32.64	33.07	32.10
23	32.34	31.09	29.54	29.65	28.82	27.98	28.39	30.40	32.15	32.52	33.27	32.12
24	32.32	31.26	29.70	29.51	28.73	27.90	28.40	30.68	32.23	32.58	33.19	32.05
25	32.13	31.26	30.01	29.05	28.53	27.89	28.57	30.82	31.92	32.71	33.11	32.20
26	32.02	31.30	30.05	29.06	28.38	27.98	28.62	30.72	31.69	32.95	33.31	32.38
27	32.05	31.16	29.66	29.01	28.17	27.98	28.52	30.59	31.87	33.17	33.43	32.39
28	32.27	30.95	29.65	29.18	28.03	28.11	28.54	30.68	31.83	33.29	33.59	32.24
29	32.20	30.70	29.57	29.05	---	28.13	28.67	31.12	31.94	33.07	33.64	32.28
30	31.97	30.38	29.66	29.16	---	28.01	29.03	31.39	32.09	33.07	33.51	32.17
31	31.76	---	29.45	29.27	---	28.70	---	31.71	---	33.24	33.38	---
MEAN	32.47	31.43	30.23	29.29	28.71	28.22	28.54	30.06	32.11	32.47	33.16	32.48
WTR YR 1987	MEAN	30.78		HIGH	27.89		LOW	33.64				

GROUND-WATER LEVELS

393

CHATHAM COUNTY

320202080541201 Local number, 38Q002.

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.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 348 ft, cased to 110 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 8.0 ft above 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 record, May 1-3, 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, Mar. 5, 1956; lowest, 38.48 ft below land-surface datum, Aug. 4, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37.06	36.19	34.39	31.38	33.05	32.24	32.28	33.01	35.54	35.85	37.36	37.58
2	37.09	36.11	34.56	31.53	32.98	32.46	32.18	33.17	35.70	35.85	37.37	37.54
3	37.11	35.93	34.89	31.73	33.00	32.50	32.16	33.33	35.78	35.92	37.38	37.39
4	37.16	35.85	34.91	31.39	32.97	32.54	32.43	33.49	35.79	35.88	37.41	37.11
5	37.23	35.84	34.79	31.38	32.89	32.52	32.29	33.25	35.71	35.89	37.36	36.97
6	37.19	36.00	34.71	31.93	32.69	32.50	32.10	33.30	35.64	35.85	37.36	36.97
7	37.15	36.08	34.65	32.09	32.56	32.16	32.11	33.35	35.76	35.72	37.28	36.88
8	37.19	36.04	34.55	32.01	32.69	32.17	31.79	33.40	35.85	35.68	37.16	36.97
9	37.28	36.03	34.38	32.75	33.20	32.26	32.15	33.38	35.91	35.71	37.13	37.02
10	37.18	35.96	34.25	33.34	33.06	32.18	32.07	33.65	35.96	35.68	37.24	37.00
11	36.94	35.77	34.04	33.73	33.08	32.17	32.13	33.71	35.80	35.69	37.14	37.01
12	36.88	35.83	34.01	33.64	32.99	32.17	32.38	33.71	35.92	35.73	36.94	36.96
13	36.80	35.80	34.03	33.41	32.81	32.09	32.52	33.83	36.12	35.74	36.85	36.95
14	36.79	35.69	33.88	33.36	32.70	31.98	32.41	33.91	36.17	35.85	36.97	36.89
15	36.78	35.63	33.81	33.32	32.61	32.03	32.18	33.92	36.16	35.97	37.12	36.78
16	36.63	35.65	33.73	33.22	32.18	32.08	32.22	34.04	36.12	36.00	37.20	36.70
17	36.77	35.57	33.59	33.04	32.56	31.94	32.21	34.12	36.10	36.01	37.25	36.71
18	36.64	35.41	33.74	32.90	32.68	31.92	32.23	34.27	36.09	36.12	37.24	36.72
19	36.66	35.32	31.81	33.18	32.79	31.81	32.31	34.36	35.99	36.30	37.19	36.65
20	36.62	35.11	31.79	33.32	32.75	31.79	32.38	34.38	35.99	36.47	37.16	36.51
21	36.59	35.38	31.86	33.10	32.53	31.86	32.38	34.21	36.08	36.59	37.16	36.43
22	36.60	35.26	31.80	32.85	32.33	31.80	32.34	34.25	36.10	36.64	37.18	36.47
23	36.58	35.22	31.80	33.45	32.75	31.80	32.18	34.38	36.02	36.61	37.29	36.43
24	36.62	35.31	31.76	33.34	32.63	31.76	32.13	34.53	36.00	36.72	37.24	36.37
25	36.45	35.29	31.70	32.98	32.48	31.70	32.26	34.66	35.78	36.86	37.26	36.45
26	36.36	35.16	31.75	32.99	32.25	31.75	32.34	34.78	35.74	37.03	37.39	36.53
27	36.37	35.26	31.73	32.94	32.20	31.73	32.32	34.74	35.81	37.22	37.51	36.57
28	36.52	35.04	31.82	33.06	32.11	31.82	32.36	34.88	35.72	37.31	37.63	36.55
29	36.46	34.87	31.84	32.97	---	31.84	32.51	35.06	35.75	37.30	37.71	36.56
30	36.27	34.57	31.76	33.04	---	31.76	32.86	35.21	35.85	37.24	37.66	36.46
31	36.09	---	32.28	33.13	---	32.28	---	35.40	---	37.34	37.65	---
MEAN	36.78	35.57	33.25	32.79	32.70	32.05	32.27	34.05	35.90	36.28	37.28	36.80
WTR YR 1987	MEAN	34.65		HIGH	31.38		LOW	37.71				

GROUND-WATER LEVELS

CHATHAM COUNTY

320530081085001 Local number, 36Q008.

LOCATION.--Lat 32°05'30", long 81°08'50", Hydrologic Unit 03060204, 0.19 mi southeast of intersection of Alfred Street and U.S. Highway 80.

Owner: Layne-Atlantic Co.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused industrial well, diameter 4 in., depth 406 ft, cased to 250 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 9.91 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 3 in. casing, 1.0 ft above land-surface datum.

REMARKS.--Water levels for period of missing record, Jan. 30, Feb. 3-18, Feb. 23-25, and Mar. 22, 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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118.28	114.49	108.29	108.03	105.17	101.22	104.54	107.56	107.10	110.81	112.36	115.20
2	118.71	113.20	110.44	108.26	104.42	101.50	103.82	108.51	108.70	111.03	111.81	115.14
3	118.56	112.89	111.24	107.70	104.30	102.48	103.70	108.42	109.70	110.75	112.04	115.29
4	117.82	114.20	110.89	107.30	104.54	102.78	102.78	108.66	110.22	109.92	113.17	115.70
5	116.47	114.59	111.62	108.06	104.59	102.70	101.30	109.86	109.76	109.61	113.25	114.81
6	116.80	114.50	110.62	109.28	104.04	102.69	101.55	109.76	108.83	109.65	113.85	113.48
7	117.62	114.50	108.44	108.61	103.68	102.38	102.37	109.20	107.78	110.81	114.12	113.00
8	118.56	114.25	109.07	107.44	103.64	101.56	102.36	108.24	108.39	112.27	113.37	113.27
9	119.15	113.60	110.26	108.02	103.83	101.74	102.90	107.78	108.94	113.56	113.11	114.38
10	118.66	113.38	110.66	106.99	104.59	102.98	103.25	106.72	109.00	114.36	113.21	114.54
11	117.20	113.41	110.65	105.29	104.39	103.38	102.90	106.61	109.47	114.98	113.69	115.18
12	116.04	114.83	110.81	106.37	104.20	103.47	102.20	107.60	109.51	115.46	113.94	115.08
13	116.83	115.39	110.69	108.14	104.20	103.61	101.76	108.10	109.60	116.25	113.92	114.78
14	118.33	115.70	109.88	108.56	103.77	102.80	102.99	107.60	108.54	116.97	114.11	114.59
15	117.64	114.78	110.51	108.16	103.47	101.52	102.49	108.05	108.06	117.25	114.44	114.85
16	118.00	113.24	111.28	106.75	102.92	101.48	102.56	107.46	108.07	116.62	114.24	115.59
17	117.79	112.57	111.62	105.57	103.06	102.18	102.06	106.76	109.02	115.80	113.69	116.10
18	116.43	113.52	111.13	105.76	103.20	102.37	101.41	107.18	109.52	114.79	113.25	116.75
19	114.58	112.89	111.32	106.14	103.57	102.35	101.20	107.80	109.66	113.42	111.03	116.40
20	114.69	112.24	110.03	105.54	103.32	102.84	101.84	107.80	109.78	112.40	110.16	116.21
21	115.90	111.60	110.23	105.36	102.56	103.15	101.76	106.80	108.68	112.67	110.79	116.27
22	116.66	111.27	111.18	105.62	101.54	102.92	102.86	107.16	107.85	113.35	110.62	116.38
23	117.53	110.55	110.31	105.50	101.94	102.74	103.28	106.38	107.76	113.46	110.85	115.86
24	117.03	110.60	110.29	106.19	102.39	103.62	103.63	105.83	108.80	113.44	112.30	115.37
25	116.04	112.01	108.24	105.92	102.81	104.23	103.77	105.35	110.45	113.16	113.18	115.28
26	114.77	111.95	106.86	105.93	103.15	104.00	103.81	105.58	110.53	112.17	113.91	114.98
27	115.12	111.01	107.39	106.69	103.10	103.92	103.83	106.20	109.76	112.32	114.53	114.46
28	116.31	109.02	107.70	108.08	102.26	103.44	104.49	106.92	109.40	112.85	115.05	114.74
29	115.55	108.02	107.85	108.42	---	102.68	105.02	107.38	109.61	112.71	115.15	115.60
30	115.88	107.40	108.29	107.50	---	101.82	105.77	106.78	110.55	112.35	115.15	115.47
31	116.08	---	109.16	106.66	---	102.97	---	106.48	---	111.90	115.02	---
MEAN	116.94	112.72	109.90	107.03	103.52	102.69	102.94	107.44	109.10	113.13	113.20	115.16
WTR YR 1987	MEAN	109.52		HIGH	101.20		LOW	119.15				

COOK COUNTY

310813083260301 Local number, 18H016.

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.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 865 ft, cased to 207 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 241 ft above 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 Oct. 24, 1974.

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, 174.94 ft below land-surface datum, June 11, 1985.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174.56	174.30	173.58	173.03	172.91	172.04	172.01	172.34	172.93	172.83	173.47	173.52
2	174.54	174.22	173.57	173.32	172.73	172.23	171.89	172.29	173.11	172.85	173.37	173.51
3	174.59	174.17	173.81	173.42	172.79	172.39	171.70	172.29	173.13	172.86	173.46	173.45
4	174.52	174.15	174.04	173.12	172.86	172.45	171.79	172.44	172.83	172.80	173.50	173.45
5	174.34	174.10	174.11	173.37	172.91	172.53	171.64	172.64	172.75	172.82	173.51	173.38
6	174.42	174.17	174.13	173.44	172.77	172.54	171.67	172.59	172.72	172.78	173.52	173.28
7	174.49	174.28	174.05	173.39	172.64	172.21	171.67	172.58	172.76	172.76	173.64	173.19
8	174.54	174.34	173.94	173.36	172.58	171.91	171.68	172.30	172.94	172.79	173.71	173.25
9	174.51	174.27	173.72	173.31	172.85	171.92	171.66	172.38	173.01	172.85	173.70	173.31
10	174.39	174.30	173.63	172.96	173.03	171.99	171.62	172.56	173.07	172.93	173.76	173.37
11	174.39	174.24	173.53	173.19	172.96	172.25	171.61	172.56	173.22	172.93	173.53	173.39
12	174.30	174.26	173.59	173.38	172.76	172.31	171.60	172.56	173.35	172.92	173.50	173.34
13	174.34	174.30	173.94	173.33	172.68	172.27	171.69	172.54	173.15	173.07	173.45	173.31
14	174.26	174.38	173.99	173.36	172.51	172.16	171.70	172.19	172.81	173.14	173.47	173.30
15	174.30	174.28	173.87	173.17	172.32	172.04	171.57	172.10	172.82	173.02	173.39	173.38
16	174.40	174.11	173.74	173.12	172.12	172.06	171.55	172.07	172.80	173.15	173.35	173.38
17	174.48	174.05	173.64	173.12	172.36	172.28	171.44	172.08	172.77	173.40	173.42	173.41
18	174.55	174.03	173.50	172.80	172.50	172.14	171.39	172.08	172.83	173.43	173.40	173.35
19	174.54	173.95	173.57	172.83	172.68	171.93	171.58	172.05	172.81	173.39	173.37	173.29
20	174.60	173.83	173.50	173.10	172.70	171.95	171.79	172.07	172.71	173.57	173.37	173.27
21	174.66	173.97	173.54	173.00	172.53	171.89	171.88	172.13	172.60	173.71	173.43	173.30
22	174.65	174.07	173.69	172.72	172.25	171.74	171.90	172.20	172.57	173.64	173.47	173.34
23	174.66	174.00	173.45	173.20	172.37	171.83	171.88	172.22	172.57	173.70	173.34	173.36
24	174.53	174.08	173.11	173.24	172.54	171.87	171.88	172.13	172.59	173.89	173.41	173.35
25	174.17	174.02	173.27	172.77	172.57	171.88	171.93	172.25	172.56	173.67	173.48	173.41
26	174.12	173.99	173.39	172.86	172.58	171.91	171.98	172.49	172.52	173.53	173.54	173.49
27	174.21	173.76	173.39	173.30	172.47	171.73	172.06	172.65	172.49	173.56	173.59	173.56
28	174.33	173.71	173.43	173.25	172.22	171.75	172.06	172.71	172.61	173.60	173.61	173.66
29	174.33	173.61	173.45	173.23	---	171.85	172.20	172.81	172.67	173.59	173.57	173.54
30	174.26	173.52	173.39	172.98	---	171.59	172.29	172.86	172.77	173.62	173.54	173.32
31	174.31	---	173.33	172.94	---	171.78	---	172.79	---	173.59	173.56	---
MEAN	174.43	174.08	173.64	173.15	172.61	172.05	171.78	172.39	172.82	173.24	173.50	173.38
WTR YR 1987	MEAN	173.09		HIGH	171.39		LOW	174.66				

GROUND-WATER LEVELS

DECATUR COUNTY

305736084355801 Local number, 09F520.

LOCATION.--Lat 30°57'42", long 84°35'46", Hydrologic Unit 03130008, U.S. 27 north of Bainbridge, right on dirt road near John Deere tractor dealership.

Owner: Graham Bolton.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Unused private irrigation well, diameter 12 in., depth 251 ft, cased to 130 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 128 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Floor of recorder shelter, 3.50 ft above land-surface datum.

REMARKS.--This well is about 15 ft from pumped well.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.86 ft below land-surface datum, Apr. 15, 1984; lowest, 54.78 ft below land-surface datum, Aug. 20, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48.97	49.34	48.99	47.73	42.34	41.28	39.26	40.05	44.19	42.06	42.95	44.54
2	48.98	49.34	48.86	47.72	42.19	41.20	39.00	44.15	43.43	42.01	42.98	44.57
3	49.00	49.36	48.81	47.66	42.15	41.08	38.87	43.86	44.90	41.96	43.02	44.61
4	49.03	49.36	48.73	47.60	42.09	40.98	38.83	43.07	41.49	41.92	43.07	44.64
5	49.03	49.37	48.66	47.59	42.03	40.87	38.70	42.89	43.93	41.89	43.16	44.67
6	49.04	49.39	48.60	47.49	41.94	40.74	38.61	40.34	45.16	41.87	43.24	44.71
7	49.07	49.40	48.54	47.41	41.89	40.54	38.55	40.38	41.81	41.85	43.32	44.74
8	49.08	49.39	48.49	47.33	41.86	40.43	38.53	43.56	43.93	41.85	43.38	44.78
9	49.09	49.39	48.44	47.23	41.92	40.35	38.48	42.47	45.38	41.85	45.38	44.82
10	49.09	49.40	48.40	47.16	41.88	40.33	38.46	40.66	44.39	41.86	47.09	44.87
11	49.13	49.39	48.39	47.15	41.81	40.31	38.50	40.69	45.97	41.88	43.60	44.92
12	49.14	49.41	48.38	47.07	41.74	40.27	38.53	40.72	45.78	41.91	43.64	44.95
13	49.14	49.43	48.34	47.04	41.71	40.21	38.53	40.76	46.67	41.99	43.69	44.99
14	49.15	49.42	48.25	47.00	41.66	40.17	38.54	40.81	43.44	42.14	43.70	45.83
15	49.16	49.39	48.18	46.95	41.63	40.16	38.51	40.83	43.44	42.19	43.73	45.08
16	49.16	49.38	48.13	46.93	41.62	40.14	38.72	40.84	43.47	42.26	43.75	45.12
17	49.17	49.38	48.07	46.89	41.70	40.14	38.76	40.84	43.51	42.30	43.79	45.16
18	49.19	49.40	48.04	46.78	41.75	40.11	38.77	40.82	43.54	42.34	43.82	45.19
19	49.21	49.41	48.01	46.55	41.78	40.11	38.84	40.72	43.53	42.40	43.86	45.24
20	49.21	49.41	47.99	45.95	41.77	40.08	38.88	40.63	43.54	45.12	43.90	45.29
21	49.22	49.41	47.98	45.42	41.74	40.01	38.90	40.59	43.54	45.26	43.97	45.36
22	49.23	49.38	47.95	45.02	41.69	39.97	38.96	40.59	43.54	42.62	44.05	45.42
23	49.24	49.35	47.88	44.76	41.72	39.95	39.04	40.58	42.79	42.70	46.07	45.48
24	49.24	49.34	47.90	44.29	41.63	39.92	41.01	40.59	42.28	42.77	47.80	45.51
25	49.24	49.31	47.90	43.79	41.57	39.93	42.53	42.50	42.22	42.78	44.28	45.55
26	49.27	49.28	47.87	43.65	41.50	39.89	39.44	43.49	42.19	42.79	44.30	45.59
27	49.27	49.26	47.84	43.37	41.42	39.84	39.47	42.18	42.15	42.81	44.33	45.64
28	49.29	49.22	47.83	43.10	41.32	39.86	41.37	43.90	42.12	42.83	44.36	45.68
29	49.30	49.18	47.79	42.86	---	39.82	43.45	41.01	42.10	42.86	44.40	45.71
30	49.31	49.11	47.76	42.63	---	39.63	39.72	41.05	42.08	42.91	44.45	45.74
31	49.33	---	47.72	42.50	---	39.51	---	42.98	---	42.94	44.51	---
MEAN	49.16	49.35	48.22	45.96	41.79	40.25	39.26	41.57	43.55	42.48	44.12	45.15
WTR YR 1987	MEAN	44.26		HIGH	38.46		LOW	49.43				

GROUND-WATER LEVELS

397

DOUGHERTY COUNTY

313532084203501 Local number, 11L002.

LOCATION.--Lat 31°35'32", long 84°20'35", Hydrologic Unit 03130008, Tallassee Plantation, 10.4 mi west of Albany.
Owner: Georgia Department of Natural Resources.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 in., depth 656 ft, cased to 542 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 222 ft above National Geodetic Datum of 1929 (from topographic map).

Measuring point: Floor of recorder shelter, 3.02 ft above land-surface datum.

REMARKS.--Well pumped Apr. 1976; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 3, 1975. Water levels for period of missing record, Oct. 20-28, and Sept. 3-30, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.90 ft below land-surface datum, Apr. 29, 1975; lowest, 152.61 ft below land-surface datum, Aug. 23, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138.93	129.42	122.55	115.64	111.37	108.23	104.40	106.43	112.88	115.92	130.10	138.59
2	138.73	129.24	122.27	115.56	111.15	108.32	104.35	107.18	113.43	115.68	130.55	138.59
3	138.45	129.05	122.07	115.44	111.04	108.27	104.10	107.97	114.03	115.46	130.85	137.35
4	138.15	128.80	121.90	115.15	111.07	108.18	103.87	108.84	114.63	115.25	131.09	136.31
5	137.88	128.50	121.70	114.99	111.11	108.02	103.90	109.57	115.32	115.12	131.27	135.50
6	137.70	128.23	121.43	114.95	110.91	107.92	103.87	110.28	115.73	114.95	131.75	134.84
7	137.59	128.07	121.13	114.84	110.67	107.58	103.75	110.96	116.25	114.73	132.45	134.33
8	137.45	127.94	120.86	114.78	110.47	107.20	103.63	111.55	116.48	114.50	133.32	133.88
9	137.28	127.86	120.52	114.58	110.57	107.01	103.53	112.17	116.69	114.43	134.36	133.49
10	137.08	127.94	120.19	114.33	110.61	106.96	103.42	112.73	116.82	114.40	135.42	133.07
11	136.95	127.99	119.89	114.27	110.46	106.98	103.36	113.24	116.87	114.40	136.50	132.64
12	136.70	127.88	119.79	114.14	110.22	106.93	103.34	113.78	116.92	114.57	137.41	132.23
13	136.27	127.77	119.91	113.94	110.07	106.84	103.40	114.18	116.98	114.97	138.17	131.88
14	135.83	127.48	119.83	113.77	109.91	106.70	103.33	114.37	116.99	115.51	138.58	131.67
15	135.47	127.05	119.55	113.52	109.70	106.66	103.16	114.29	117.02	116.25	138.73	131.44
16	135.14	126.65	119.20	113.32	109.56	106.63	102.98	114.13	117.05	117.17	138.58	131.09
17	134.76	126.31	118.83	113.26	109.57	106.59	102.90	113.93	117.07	118.15	138.25	130.57
18	134.37	126.02	118.54	113.05	109.58	106.41	102.87	113.62	117.15	119.16	137.81	129.99
19	134.05	125.68	118.38	112.84	109.60	106.19	102.94	113.30	117.22	120.14	137.36	129.37
20	133.66	125.34	118.26	112.90	109.50	105.97	103.02	113.20	117.24	120.90	137.03	128.82
21	133.30	125.05	118.20	112.67	109.34	105.77	102.99	112.97	117.30	121.65	136.09	128.40
22	132.89	124.77	118.02	112.37	109.08	105.65	103.00	112.90	117.37	122.45	136.92	128.09
23	132.50	124.50	117.54	112.49	108.98	105.58	103.11	112.77	117.37	123.22	136.82	127.94
24	132.12	124.30	117.17	112.52	108.98	105.49	103.29	112.55	117.36	123.95	136.71	127.94
25	131.73	124.20	117.13	112.28	108.92	105.43	103.65	112.32	117.37	124.73	136.66	128.88
26	131.34	124.09	117.07	112.16	108.82	105.28	104.14	112.12	117.09	125.59	136.79	129.98
27	130.95	123.93	116.90	112.17	108.67	105.10	104.55	112.04	116.82	126.40	137.18	130.72
28	130.57	123.68	116.76	112.04	108.37	104.98	104.98	112.00	116.59	127.00	137.65	131.14
29	130.18	123.29	116.57	111.86	---	104.83	105.37	112.02	116.33	128.00	138.00	131.39
30	129.87	122.88	116.30	111.62	---	104.83	105.77	112.20	116.12	128.87	138.30	131.31
31	129.63	---	115.92	111.51	---	104.45	---	112.47	---	129.57	138.49	---
MEAN	134.76	126.46	119.17	113.51	109.94	106.48	103.70	112.00	116.42	119.45	135.78	132.05
WTR YR 1987	MEAN	119.21		HIGH	102.87		LOW	138.93				

GROUND-WATER LEVELS

DOUGHERTY COUNTY

313554084062601 Local number, 13L002.

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.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 212.84 ft above 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 Mar. 17, 1977. Water levels for period of missing record, Feb. 1-19, and Mar. 11-26, 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, Apr. 1, 1959; lowest, 160.88 ft below land-surface datum, July 26, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157.44	151.08	148.93	137.73	139.90	140.13	133.63	135.30	135.66	138.58	141.91	148.85
2	157.63	148.38	148.62	137.73	139.96	139.88	134.21	136.85	136.21	139.78	142.01	148.81
3	156.94	148.04	148.58	137.73	140.04	139.56	134.20	137.75	136.93	140.15	143.19	148.54
4	157.91	150.24	148.80	137.73	140.10	139.56	134.23	138.21	137.77	140.02	143.66	148.56
5	158.19	150.77	148.92	137.73	140.16	139.60	133.68	138.77	137.46	139.87	144.43	148.77
6	158.36	151.24	148.87	137.73	140.22	137.82	132.47	139.31	138.83	139.78	145.29	147.69
7	158.50	152.03	148.40	139.10	140.28	135.77	132.42	139.57	139.52	139.59	146.04	148.33
8	158.74	152.24	147.95	141.62	140.35	133.50	132.25	139.87	139.98	137.77	146.67	148.13
9	158.86	151.82	147.92	142.40	140.41	131.05	130.48	138.60	140.69	138.26	147.10	148.46
10	158.65	151.60	147.65	142.82	140.45	130.61	129.52	139.24	141.53	138.55	147.46	148.50
11	158.08	151.58	147.57	143.27	140.51	128.84	131.25	139.17	142.47	138.74	147.96	148.45
12	157.39	151.76	147.77	143.30	138.46	128.44	131.67	138.68	143.43	138.74	148.51	148.53
13	156.10	152.20	148.07	143.48	138.43	133.43	131.13	138.76	144.08	138.56	148.68	147.53
14	156.00	152.59	148.00	143.65	138.40	133.57	129.28	137.88	144.12	138.56	148.66	147.68
15	155.33	152.45	147.65	143.82	138.36	133.50	130.60	137.19	143.79	138.95	148.88	146.32
16	155.22	152.37	147.12	144.22	138.33	129.34	129.58	137.72	143.60	139.60	148.58	146.78
17	155.07	152.09	146.81	144.50	138.31	124.87	128.03	137.62	143.62	139.86	148.24	146.77
18	154.76	151.73	146.46	144.29	138.29	124.89	128.18	136.75	143.54	139.33	148.18	147.01
19	154.49	151.68	146.01	144.01	138.27	126.32	127.94	134.66	143.29	138.33	148.35	147.34
20	154.13	151.31	145.64	143.83	136.94	129.83	128.26	135.70	143.12	138.83	148.54	147.27
21	153.65	151.33	142.83	143.71	136.76	131.07	129.79	136.10	143.02	139.26	148.74	147.43
22	153.10	151.59	140.62	143.61	136.76	131.12	130.77	135.76	142.41	140.73	148.74	147.53
23	153.76	151.51	140.94	144.00	138.47	130.95	131.92	136.03	140.89	141.62	148.57	147.42
24	152.79	150.87	141.55	144.02	140.20	131.34	132.81	135.88	140.94	142.27	148.25	147.35
25	153.58	150.50	143.94	143.43	140.48	131.86	133.23	135.46	140.05	142.96	148.51	146.11
26	153.92	150.30	141.54	143.23	139.10	132.66	133.65	135.13	139.12	143.20	148.91	146.11
27	153.94	150.09	139.75	143.39	139.50	134.50	133.90	134.01	140.29	143.11	149.12	145.76
28	153.90	149.97	139.70	143.55	140.24	134.59	133.10	134.86	138.94	143.24	147.91	145.38
29	151.33	149.67	139.70	143.55	---	134.81	134.70	135.39	138.11	143.62	148.84	145.20
30	149.56	149.22	139.64	142.39	---	134.57	134.91	135.61	137.85	142.74	147.46	145.46
31	151.98	---	137.99	139.84	---	134.85	---	134.91	---	143.97	148.41	---
MEAN	155.46	151.08	145.29	142.11	139.20	132.99	131.73	136.99	140.71	140.28	147.28	147.40
WTR YR 1987	MEAN	142.57		HIGH	124.87		LOW	158.86				

GROUND-WATER LEVELS

399

DOUGHERTY COUNTY

313748084002901 Local number, 13L003.

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.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 6 in., depth 259 ft, cased to 206 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 225 ft above 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 Mar. 17, 1977. Water levels for period of missing record, Jan. 22-28, and June 25-30, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.41 ft below land-surface datum, Apr. 2, 1965; lowest, 44.89 ft below land-surface datum, Dec. 13, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.25	42.74	41.98	39.83	32.42	29.85	28.13	30.02	32.15	30.67	32.82	34.59
2	42.30	42.72	41.86	39.90	32.25	29.37	27.85	30.08	32.25	30.59	32.90	34.63
3	42.33	42.77	41.83	39.80	32.33	29.15	27.62	30.22	32.41	30.86	32.97	34.67
4	42.35	42.81	41.67	39.56	32.44	28.90	27.56	30.36	32.55	30.66	33.05	34.71
5	42.33	42.82	41.55	39.55	32.48	28.65	27.43	30.51	32.68	30.60	33.23	34.72
6	42.40	42.93	41.35	39.35	32.31	28.40	27.36	30.63	32.80	30.54	33.41	34.79
7	42.50	43.02	41.17	39.14	32.13	27.97	27.41	30.69	32.90	30.49	33.45	34.83
8	42.53	43.02	41.16	39.05	32.03	27.72	27.50	30.77	33.04	30.64	33.57	34.96
9	42.52	43.02	41.25	38.88	32.16	27.74	27.57	30.89	33.13	30.75	33.67	35.19
10	42.44	43.07	41.35	38.77	32.09	28.00	27.65	30.95	33.25	30.91	33.66	35.22
11	42.47	43.12	41.42	38.92	31.89	28.23	27.79	31.05	33.44	31.03	33.75	35.25
12	42.44	43.18	41.45	38.87	31.66	28.31	27.95	31.02	33.53	31.07	33.82	35.26
13	42.37	43.23	41.37	38.78	31.60	28.28	28.06	31.07	33.53	31.06	33.68	35.33
14	42.37	43.25	41.26	38.77	31.57	28.30	28.12	31.10	33.32	30.96	33.52	35.35
15	42.35	43.18	41.17	38.70	31.64	28.36	28.05	31.06	32.90	31.38	33.40	35.37
16	42.36	43.19	41.10	38.70	31.63	28.43	28.15	31.10	32.52	31.63	33.36	35.41
17	42.43	43.20	41.05	38.50	31.79	28.53	28.28	31.16	32.17	31.73	33.32	35.45
18	42.49	43.21	41.10	38.13	31.92	28.47	28.49	31.18	31.90	31.98	33.35	35.56
19	42.47	43.18	41.15	37.25	32.03	28.32	28.67	31.20	31.65	31.99	33.39	35.65
20	42.47	43.08	41.08	36.05	32.01	28.36	28.79	31.30	31.44	31.90	33.48	35.63
21	42.52	42.95	41.08	35.53	31.85	28.27	28.85	31.40	31.30	32.12	33.60	35.71
22	42.55	42.83	41.00	35.13	31.61	28.26	28.98	31.47	31.17	32.53	33.67	35.79
23	42.60	42.72	40.75	34.77	31.61	28.28	29.07	31.48	31.00	32.33	33.67	35.91
24	42.60	42.57	40.53	34.40	31.53	28.27	29.13	31.50	30.90	32.63	33.82	36.00
25	42.61	42.47	40.54	33.99	31.37	28.35	29.32	31.55	30.77	32.78	33.96	36.09
26	42.69	42.53	40.43	33.59	31.24	28.37	29.49	31.66	30.59	32.83	34.05	36.18
27	42.75	42.53	40.27	33.18	31.02	28.37	29.55	31.78	30.85	32.58	34.16	36.18
28	42.80	42.49	40.23	32.84	30.62	28.43	29.66	31.88	30.59	32.66	34.30	36.20
29	42.78	42.39	40.12	32.41	---	28.55	29.83	31.95	30.55	32.84	34.48	36.23
30	42.77	42.19	40.03	32.42	---	28.25	29.90	32.02	30.61	32.99	34.57	36.35
31	42.76	---	39.92	32.50	---	28.25	---	32.10	---	32.86	34.55	---
MEAN	42.50	42.88	41.04	37.01	31.83	28.42	28.41	31.13	32.06	31.63	33.63	35.44
WTR YR 1987	MEAN	34.69		HIGH	27.36		LOW	43.25				

GROUND-WATER LEVELS

FULTON COUNTY

334207084254801 Local number, 10DD02.

LOCATION.--Lat 33°42'07", long 84°25'48", Hydrologic Unit 03130002, 0.25 mi south of main entrance, 260 ft west of Rossevelt 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.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 1,013 ft above National Geodetic Vertical Datum of 1929 (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. Water levels for period of missing record, Jan. 19-27, were estimated.

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, 9.99 ft below land-surface datum, Oct. 8, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.81	9.12	8.75	8.07	7.32	6.19	6.44	6.29	7.48	7.96	8.56	9.40
2	9.83	9.08	8.58	8.13	7.20	6.41	6.36	6.31	7.58	7.92	8.54	9.47
3	9.86	9.08	8.65	8.20	7.29	6.60	6.29	6.39	7.63	7.92	8.57	9.52
4	9.86	9.07	8.73	8.16	7.40	6.69	6.28	6.44	7.66	7.91	8.59	9.55
5	9.86	9.07	8.76	8.17	7.48	6.77	6.23	6.50	7.71	7.91	8.58	9.58
6	9.93	9.14	8.78	8.22	7.42	6.76	6.26	6.47	7.74	7.90	8.63	9.57
7	9.98	9.22	8.74	8.17	7.21	6.67	6.24	6.39	7.82	7.85	8.61	9.54
8	9.99	9.26	8.65	8.23	7.04	6.54	6.28	6.39	7.85	7.82	8.60	9.57
9	9.70	9.24	8.63	8.22	7.22	6.46	6.27	6.48	7.88	7.84	8.58	9.65
10	9.17	9.30	8.64	8.14	7.27	6.61	6.28	6.51	7.99	7.84	8.57	9.70
11	9.09	9.28	8.57	8.27	7.25	6.72	6.30	6.51	8.08	7.83	8.56	9.74
12	9.02	9.31	8.45	8.30	7.13	6.71	6.35	6.51	8.17	7.84	8.59	9.74
13	8.93	9.40	8.56	8.32	7.15	6.65	6.40	6.60	8.16	7.84	8.63	9.73
14	8.83	9.45	8.55	8.31	7.12	6.61	6.38	6.64	8.11	7.84	8.70	9.73
15	8.85	9.36	8.48	8.28	7.12	6.59	6.31	6.63	8.04	7.89	8.75	9.72
16	8.85	9.28	8.43	8.30	7.09	6.61	6.29	6.64	7.95	7.96	8.77	9.65
17	8.87	9.25	8.38	8.31	7.16	6.68	6.32	6.70	7.91	8.08	8.82	9.63
18	8.93	9.28	8.32	8.00	7.23	6.60	6.43	6.74	7.94	8.21	8.95	9.60
19	8.95	9.37	8.35	7.93	7.33	6.52	6.52	6.77	7.94	8.28	9.01	9.63
20	8.93	9.32	8.34	7.86	7.34	6.54	6.55	6.82	7.91	8.32	9.09	9.63
21	8.91	9.26	8.42	7.79	7.28	6.53	6.53	6.92	7.91	8.36	9.20	9.67
22	8.94	9.24	8.47	7.71	7.19	6.55	6.53	7.00	7.92	8.33	9.27	9.73
23	8.97	9.24	8.30	7.64	7.23	6.58	6.52	7.05	7.88	8.28	9.23	9.73
24	8.95	9.23	8.08	7.57	7.34	6.59	6.56	7.07	7.86	8.34	9.30	9.73
25	8.85	9.21	8.04	7.50	7.39	6.63	6.64	7.13	7.76	8.49	9.33	9.85
26	8.83	9.09	8.10	7.43	7.33	6.63	6.73	7.22	7.74	8.53	9.35	9.95
27	8.88	9.03	8.11	7.36	7.03	6.56	6.73	7.27	7.86	8.54	9.38	10.05
28	8.97	9.03	8.13	7.29	6.48	6.50	6.60	7.35	7.93	8.57	9.40	10.07
29	8.99	9.02	8.13	7.28	---	6.50	6.43	7.35	8.02	8.69	9.38	9.95
30	9.01	8.94	8.09	7.21	---	6.35	6.17	7.39	8.02	8.70	9.46	9.82
31	9.09	---	8.13	7.30	---	6.38	---	7.41	---	8.67	9.45	---
MEAN	9.21	9.21	8.43	7.92	7.22	6.57	6.41	6.77	7.88	8.14	8.92	9.70
WTR YR 1987	MEAN	8.04		HIGH	6.17		LOW	10.07				

GROUND-WATER LEVELS

401

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.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 790 ft, cased to 520 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 7 ft above 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 Sept. 26, 1977. Well flowed May 13, 14. Water levels for period of missing record, Nov. 1-13, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.07 ft above land-surface datum, Dec. 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 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-11.40	-14.38	-14.88	-14.35	-13.86	-11.83	-11.58	-12.53	-14.94	-13.06	-16.41	-17.22
2	-11.46	-14.81	-14.99	-13.75	-13.69	-11.64	-11.63	-12.77	-14.86	-11.96	-15.59	-17.54
3	-13.40	-15.05	-15.15	-14.28	-12.82	-11.49	-11.58	-13.14	-15.12	-13.06	-17.04	-17.61
4	-14.27	-15.31	-13.91	-14.64	-12.54	-10.94	-12.18	-13.36	-14.25	-12.74	-17.36	-18.20
5	-14.10	-15.15	-14.63	-13.51	-11.36	-11.30	-12.11	-13.78	-15.04	-12.93	-16.69	-17.87
6	-14.77	-15.60	-14.34	-13.25	-12.71	-11.72	-12.10	-13.74	-15.51	-14.10	-16.84	-18.03
7	-14.75	-14.93	-14.55	-13.36	-12.79	-10.92	-11.93	-13.58	-15.94	-14.70	-17.35	-18.07
8	-14.33	-15.45	-14.45	-13.32	-12.58	-11.22	-12.64	-13.26	-16.06	-16.45	-17.90	-17.70
9	-12.98	-15.38	-14.18	-14.20	-13.32	-11.30	-11.66	-13.38	-16.21	-16.19	-17.40	-17.16
10	-13.50	-16.01	-13.71	-13.27	-12.70	-11.66	-12.38	-12.08	-15.94	-16.38	-16.68	-17.65
11	-14.57	-15.55	-13.08	-13.24	-13.25	-12.43	-11.73	-4.20	-15.27	-16.46	-16.05	-18.17
12	-14.40	-15.19	-13.23	-13.38	-12.18	-11.44	-11.76	1.70	-15.16	-17.02	-16.30	-18.04
13	-14.57	-14.46	-13.80	-13.03	-13.09	-12.32	-12.06	-7.76	-15.62	-16.50	-16.10	-18.33
14	-14.48	-15.17	-14.00	-13.72	-13.36	-11.85	-12.12	-6.84	-15.68	-17.83	-16.72	-17.36
15	-13.55	-15.14	-13.95	-12.70	-12.29	-12.17	-12.00	1.70	-15.42	-17.10	-16.24	-17.53
16	-13.19	-15.19	-14.16	-13.16	-12.18	-11.19	-11.34	-2.00	-15.55	-15.57	-17.32	-16.26
17	-12.32	-14.70	-14.57	-13.23	-12.53	-12.50	-11.52	-7.30	-14.80	-16.95	-16.86	-16.77
18	-11.93	-14.76	-13.55	-12.79	-12.10	-11.34	-11.33	-11.25	-14.58	-16.86	-16.79	-17.31
19	-12.81	-13.92	-14.48	-12.81	-11.34	-10.91	-11.90	-12.85	-15.38	-17.84	-16.98	-17.80
20	-13.26	-13.50	-14.55	-13.45	-12.10	-11.08	-12.54	-12.95	-14.69	-17.60	-16.80	-18.06
21	-12.64	-14.38	-14.65	-13.27	-12.52	-11.65	-12.63	-12.00	-14.50	-17.62	-17.22	-17.37
22	-12.87	-14.28	-14.85	-12.09	-12.63	-11.68	-12.54	-11.35	-14.00	-17.38	-17.35	-16.40
23	-13.27	-13.81	-14.47	-13.22	-11.89	-11.31	-12.18	-13.40	-13.39	-17.79	-16.55	-15.86
24	-13.51	-14.79	-13.97	-13.71	-12.08	-11.37	-12.40	-13.40	-13.04	-18.64	-17.02	-14.96
25	-13.58	-14.30	-14.64	-13.20	-11.58	-11.83	-13.11	-14.20	-12.66	-18.83	-17.30	-14.85
26	-13.56	-13.24	-14.86	-12.85	-10.64	-10.40	-12.68	-14.05	-12.44	-18.71	-17.45	-13.51
27	-14.07	-13.89	-14.86	-13.52	-11.52	-10.59	-13.10	-13.96	-12.54	-18.89	-16.96	-13.66
28	-14.56	-14.69	-15.04	-13.33	-11.42	-10.70	-12.80	-13.52	-12.77	-18.39	-18.05	-13.84
29	-14.36	-14.52	-15.18	-12.99	---	-11.29	-13.50	-14.76	-12.98	-17.55	-18.95	-14.59
30	-14.51	-14.85	-14.09	-13.58	---	-10.58	-11.70	-14.77	-13.02	-17.20	-18.44	-14.02
31	-14.01	---	-14.91	-13.76	---	-11.38	---	-15.03	---	-17.11	-18.28	---
MEAN	-13.58	-14.75	-14.38	-13.39	-12.40	-11.42	-12.16	-11.09	-14.58	-16.43	-17.06	-16.72
WTR YR 1987	MEAN	-14.00		MAX	1.70		MIN	-18.95				

GROUND-WATER LEVELS

LAURENS COUNTY

322652083033001 Local number, 21T001.

LOCATION.--Lat 32°27'06", long 83°03'28", Hydrologic Unit 03070102, approximately 1.8 mi northeast of Dexter, Ga.

Owner: Danny Hogan.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 4 in., depth 123 ft, cased to 89 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 252 ft above National Geodetic Vertical Datum of 1929 (from barometric levels).

Measuring point: Floor of recorder shelter, 2.57 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted Nov. 1973. Water levels for period of missing record, Oct. 18-21, Nov. 22-30, Dec. 1-9, and Aug. 31, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.62 ft below land-surface datum, Jan. 26, 1987; lowest, 39.58 ft below land-surface datum, Nov. 12, 1968.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.88	37.32	33.24	26.54	24.01	24.20	25.25	28.10	32.03	27.04	29.94	33.01
2	36.90	37.32	32.82	26.15	24.00	24.09	25.23	28.26	32.16	27.03	30.07	32.93
3	36.93	37.32	32.39	25.88	24.03	24.08	25.16	28.47	32.29	26.84	30.20	32.91
4	36.96	37.32	31.97	25.59	24.12	24.08	25.15	28.66	32.41	26.60	30.27	32.92
5	36.99	37.32	31.55	25.31	24.22	24.13	25.17	28.84	32.55	26.44	30.37	32.93
6	37.05	37.33	31.12	25.16	24.23	24.17	25.23	28.95	32.69	26.36	30.51	32.93
7	37.11	37.38	30.70	25.03	24.12	24.17	25.29	29.05	32.84	26.20	30.67	32.95
8	37.15	37.43	30.27	24.97	24.04	24.06	25.37	29.16	32.97	26.06	30.78	32.98
9	37.16	37.43	29.85	24.94	24.09	24.02	25.44	29.35	33.06	25.98	30.87	33.06
10	37.09	37.45	29.39	24.87	24.16	24.09	25.53	29.50	33.17	25.96	30.95	33.13
11	37.09	37.46	29.27	24.91	24.18	24.24	25.63	29.63	33.29	25.97	31.06	33.20
12	37.08	37.47	29.09	24.97	24.18	24.32	25.75	29.72	33.38	26.04	31.19	33.23
13	37.03	37.54	28.84	25.01	24.22	24.37	25.86	29.82	33.40	26.15	31.31	33.22
14	37.03	37.62	28.51	25.06	24.27	24.42	25.94	29.92	33.16	26.28	31.46	33.21
15	37.10	37.62	28.16	25.07	24.33	24.48	25.96	29.97	32.78	26.46	31.61	33.23
16	37.11	37.61	27.91	25.08	24.33	24.54	25.98	30.04	32.09	26.66	31.73	33.25
17	37.11	37.58	27.72	25.06	24.38	24.64	26.08	30.16	31.20	26.89	31.83	33.29
18	37.12	37.57	27.54	24.94	24.44	24.70	26.22	30.25	30.46	27.11	31.94	33.33
19	37.13	37.56	27.48	24.54	24.54	24.70	26.40	30.34	29.83	27.30	32.07	33.39
20	37.12	37.51	27.44	24.29	24.61	24.77	26.54	30.45	29.34	27.51	32.17	33.49
21	37.11	37.49	27.44	24.14	24.62	24.83	26.65	30.58	28.97	27.75	32.28	33.62
22	37.13	37.07	27.49	23.79	24.59	24.92	26.77	30.71	28.65	27.94	32.39	33.72
23	37.14	36.64	27.42	23.71	24.59	25.01	26.91	30.83	28.25	28.12	32.46	33.80
24	37.14	36.22	27.22	23.72	24.68	25.10	27.04	30.95	27.89	28.38	32.58	33.86
25	37.12	35.79	27.15	23.66	24.74	25.15	27.20	31.09	27.62	28.64	32.69	33.93
26	37.11	35.36	27.08	23.62	24.78	25.21	27.40	31.23	27.39	28.85	32.79	34.05
27	37.14	34.94	26.98	23.72	24.71	25.25	27.58	31.36	27.19	29.04	32.84	34.14
28	37.22	34.52	26.93	23.79	24.51	25.31	27.71	31.50	27.10	29.24	32.92	34.24
29	37.25	34.10	26.89	23.87	---	25.40	27.87	31.62	27.06	29.45	32.99	34.28
30	37.26	33.67	26.84	23.87	---	25.32	27.98	31.73	27.05	29.69	33.07	34.27
31	37.29	---	26.84	23.92	---	25.25	---	31.88	---	29.83	33.04	---
MEAN	37.10	36.83	28.82	24.68	24.35	24.61	26.21	30.07	30.74	27.35	31.65	33.42
WTR YR 1987	MEAN	29.67		HIGH	23.62		LOW	37.62				

GROUND-WATER LEVELS

403

LEE COUNTY

315353084192501 Local number, 11P014.

LOCATION.--Lat 31°53'51", Long 84°19'24", Hydrologic Unit 03130007, approximately 14 mi south of Americus, and 3 mi east of State Highway 49.

Owner: Pete Long.

AQUIFER.--Clayton.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 384 ft, cased to 332 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 338 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Floor of recorder shelter, 3.25 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted Sept. 2, 1981. Water levels for period of missing record, June 4-21, July 5-10, and Aug. 19-24, were estimated.

PERIOD OF RECORD.--August 31, 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 123.16 ft below land-surface datum, Mar. 8, 1985; lowest, 212.89 ft below land-surface datum, Aug. 9, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181.44	160.74	151.59	143.71	138.50	134.52	133.67	156.23	174.40	138.11	169.42	147.38
2	179.64	160.35	151.22	143.61	138.27	134.50	133.25	152.73	171.51	137.28	165.67	145.20
3	179.03	159.80	151.00	143.46	138.20	134.46	132.90	155.13	175.16	136.36	162.29	144.03
4	179.29	159.29	150.77	143.14	138.15	134.40	132.79	164.08	174.59	135.67	169.85	143.06
5	179.87	158.79	150.49	142.97	138.11	134.47	132.63	179.17	173.74	137.23	190.68	142.31
6	180.62	158.36	150.23	142.84	137.80	134.62	132.56	179.28	172.97	138.79	195.57	141.72
7	181.11	157.97	149.91	142.61	137.53	134.52	132.66	179.28	172.04	140.35	183.85	141.28
8	181.50	157.53	149.55	142.43	137.34	134.17	133.08	178.56	171.22	141.91	175.34	140.90
9	181.53	157.11	149.25	142.23	137.27	133.95	133.70	175.48	171.12	143.77	172.40	140.57
10	181.36	156.71	149.01	141.96	137.27	133.84	135.32	170.39	171.42	143.03	176.31	140.22
11	180.98	156.29	148.91	141.89	137.14	133.81	138.25	164.76	171.34	146.59	196.04	139.86
12	180.66	155.94	149.04	141.75	136.94	133.72	139.79	161.11	170.98	177.33	190.90	139.52
13	180.29	155.64	149.08	141.56	136.77	133.55	140.79	158.80	170.13	183.14	179.03	139.23
14	179.23	155.51	148.59	141.42	136.61	133.40	141.85	156.75	168.60	170.84	174.66	139.09
15	177.28	155.71	148.16	141.20	136.49	133.26	141.11	154.69	166.78	170.57	170.90	138.93
16	175.30	156.37	147.77	141.01	136.28	133.14	140.58	152.56	164.88	181.14	166.92	138.65
17	173.50	156.82	147.61	140.83	136.21	133.76	140.16	150.65	162.77	171.97	162.87	138.19
18	171.97	157.19	147.24	140.58	136.16	134.36	141.38	149.16	160.76	169.92	160.29	137.68
19	170.61	157.14	146.87	140.31	136.14	135.13	142.90	148.01	158.89	169.41	158.83	137.13
20	169.35	156.62	146.58	140.27	136.03	136.15	142.44	146.86	157.15	176.31	157.37	136.65
21	168.23	156.13	146.38	140.09	135.79	135.87	143.27	145.69	155.53	189.99	155.91	136.29
22	167.20	155.60	146.16	139.70	135.56	135.47	144.18	144.56	153.94	189.99	154.45	136.05
23	166.26	155.05	145.74	139.65	135.42	135.11	144.95	143.45	151.38	189.99	152.99	135.97
24	165.37	154.67	145.38	139.61	135.39	134.69	145.04	142.39	148.80	189.99	151.53	136.04
25	164.49	154.24	145.26	139.29	135.31	134.27	145.30	141.40	146.78	183.23	150.07	137.04
26	163.80	153.73	145.10	139.15	135.19	133.89	146.06	141.04	144.98	177.21	151.89	138.21
27	163.14	153.35	144.89	139.11	135.03	133.94	146.36	157.25	143.29	180.89	154.50	139.02
28	162.51	152.94	144.71	139.00	134.76	134.53	145.71	162.97	141.69	187.82	153.71	139.51
29	161.90	152.51	144.49	138.87	---	134.49	144.85	169.05	140.23	190.99	151.63	139.82
30	161.31	151.96	144.24	138.70	---	134.21	153.72	179.21	138.99	177.43	149.75	139.81
31	160.89	---	144.03	138.61	---	133.92	---	178.68	---	173.60	149.40	---
MEAN	173.21	156.34	147.72	141.02	136.63	134.33	140.04	159.33	161.54	165.83	166.29	139.65
WTR YR 1987	MEAN	151.98		HIGH	132.56		LOW	196.04				

GROUND-WATER LEVELS

LIBERTY COUNTY

314343081251901 Local number, 34M054.

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.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 802 ft, cased to 467 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 19 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.4 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 record, Aug. 27 to Sept. 28, 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, Feb. 5, 1967; lowest, 27.13 ft below land-surface datum, Nov. 1, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.86	27.13	26.33	25.72	25.81	25.24	22.49	24.57	24.91	25.67	25.52	26.23
2	26.79	27.07	26.37	25.96	25.66	25.30	22.41	24.52	25.01	25.65	25.49	26.19
3	26.74	26.96	26.53	26.00	25.73	25.21	22.41	24.54	25.06	25.63	25.49	26.16
4	26.71	26.92	26.76	25.67	25.89	25.22	22.41	24.67	25.06	25.64	25.42	26.11
5	26.64	26.96	26.88	25.70	25.97	25.30	22.66	24.87	25.08	25.71	25.45	25.99
6	26.51	26.96	26.92	25.86	25.80	25.28	23.17	24.83	25.16	25.78	25.58	25.87
7	26.53	27.06	26.79	25.82	25.66	25.02	23.44	24.80	25.23	25.80	25.84	25.75
8	26.60	26.99	26.60	25.82	25.60	24.71	23.59	24.77	25.17	25.71	25.94	25.75
9	26.61	26.85	26.68	25.77	25.34	24.66	23.82	24.85	25.21	25.60	26.00	25.81
10	26.67	26.85	26.62	25.61	25.25	24.73	23.93	24.80	25.22	25.78	26.03	25.86
11	26.78	26.72	26.46	25.76	25.81	25.02	23.90	24.51	25.35	25.65	26.08	25.89
12	26.64	26.56	26.40	25.88	25.80	25.01	24.08	24.61	25.38	25.56	26.08	25.84
13	26.64	26.72	26.58	25.77	25.77	25.03	24.12	24.83	25.34	25.48	26.11	25.77
14	26.64	26.91	26.58	25.82	25.81	25.08	24.20	24.69	25.15	25.62	26.18	25.77
15	26.71	26.73	26.48	25.62	25.74	25.02	24.10	24.68	25.17	25.73	26.20	25.76
16	26.71	26.64	26.41	25.62	25.41	25.00	24.18	24.73	25.19	25.91	26.16	25.73
17	26.79	26.50	26.27	25.67	25.49	24.87	24.18	24.79	25.20	26.26	26.10	25.69
18	26.90	26.45	26.19	25.53	25.62	24.67	24.37	24.67	25.03	26.28	26.01	25.63
19	26.98	26.57	26.22	25.47	25.76	24.43	24.44	24.62	25.26	26.30	26.16	25.62
20	26.93	26.42	26.26	25.75	25.71	24.43	24.42	24.51	25.30	25.88	26.16	25.61
21	26.88	26.53	26.33	25.74	25.55	24.38	24.34	24.56	25.47	25.82	26.24	25.67
22	26.87	26.54	26.39	25.44	25.37	24.42	24.40	24.64	25.48	25.67	26.22	25.70
23	26.86	26.57	26.26	25.79	25.40	24.43	24.30	24.74	25.45	25.73	26.14	25.67
24	26.82	26.57	26.07	25.96	25.71	24.38	24.25	24.71	25.46	25.80	26.11	25.64
25	26.77	26.31	26.21	25.67	25.62	24.32	24.27	24.71	25.47	25.81	26.20	25.65
26	26.75	26.38	26.30	25.69	25.65	24.32	24.34	24.83	25.38	25.61	26.24	25.74
27	26.76	26.25	26.23	25.77	25.53	24.22	24.39	24.83	25.32	25.54	26.22	25.78
28	26.91	26.36	26.23	25.92	25.42	24.18	24.41	24.90	25.37	25.51	26.26	25.87
29	26.91	26.32	26.21	25.99	---	24.22	24.54	25.00	25.58	25.52	26.37	25.76
30	26.89	26.23	26.07	25.80	---	23.39	24.54	25.01	25.72	25.63	26.44	25.72
31	27.03	---	26.10	25.79	---	22.71	---	24.94	---	25.63	26.35	---
MEAN	26.77	26.67	26.41	25.75	25.64	24.65	23.87	24.73	25.27	25.74	26.03	25.81
WTR YR 1987	MEAN	25.61		HIGH	22.41		LOW	27.13				

GROUND-WATER LEVELS

405

LIBERTY COUNTY

315214081235301 Local number, 34N089.

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.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 789 ft, cased to 410 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation 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. Well levels for period of missing record, Oct. 1-6, 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, 25.16 ft below land-surface datum, Aug. 29, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.91	24.90	24.11	23.21	23.02	22.43	22.23	22.18	22.99	23.51	23.80	24.54
2	24.89	24.83	24.08	23.45	22.85	22.56	22.16	22.23	23.03	23.49	23.85	24.51
3	24.88	24.76	24.14	23.60	22.90	22.73	21.97	22.35	23.03	23.52	23.87	24.49
4	24.88	24.73	24.27	23.30	23.04	22.77	21.95	22.44	23.03	23.51	23.86	24.45
5	24.83	24.69	24.32	23.23	23.11	22.81	21.88	22.54	23.03	23.52	23.88	24.34
6	24.88	24.70	24.33	23.36	22.95	22.81	21.83	22.50	23.08	23.53	23.96	24.23
7	24.92	24.78	24.26	23.28	22.80	22.55	21.78	22.45	23.13	23.50	24.01	24.12
8	24.92	24.78	24.16	23.28	22.77	22.22	21.78	22.44	23.15	23.49	24.12	24.13
9	24.90	24.73	24.11	23.24	22.96	22.17	21.77	22.60	23.13	23.48	24.18	24.20
10	24.87	24.73	24.06	23.06	23.11	22.28	21.77	22.73	23.12	23.44	24.16	24.26
11	24.91	24.70	24.03	23.18	23.03	22.51	21.84	22.76	23.20	23.41	24.11	24.30
12	24.91	24.69	24.05	23.20	22.86	22.51	21.91	22.76	23.26	23.39	24.12	24.27
13	24.86	24.73	24.23	23.22	22.84	22.46	21.95	22.77	23.25	23.34	24.15	24.21
14	24.76	24.80	24.25	23.23	22.80	22.45	21.95	22.79	23.18	23.33	24.19	24.22
15	24.82	24.63	24.17	23.15	22.79	22.43	21.78	22.70	23.21	23.38	24.24	24.22
16	24.81	24.50	24.11	23.12	22.59	22.40	21.70	22.61	23.24	23.44	24.28	24.20
17	24.87	24.32	24.09	23.11	22.74	22.46	21.69	22.69	23.26	23.55	24.29	24.17
18	24.90	24.24	23.91	23.00	22.81	22.36	21.79	22.72	23.34	23.57	24.28	24.12
19	24.95	24.30	23.87	22.94	22.92	22.18	21.91	22.57	23.34	23.58	24.28	24.12
20	24.92	24.25	23.83	23.09	22.96	22.22	21.96	22.55	23.29	23.65	24.34	24.12
21	24.90	24.33	23.93	23.03	22.82	22.16	21.95	22.60	23.26	23.69	24.40	24.19
22	24.89	24.36	23.98	22.73	22.67	22.16	21.95	22.70	23.29	23.66	24.40	24.23
23	24.89	24.36	23.80	23.02	22.70	22.21	21.94	22.76	23.31	23.64	24.38	24.21
24	24.82	24.35	23.55	23.14	22.83	22.18	21.88	22.78	23.35	23.73	24.41	24.19
25	24.72	24.33	23.67	22.91	22.83	22.15	21.99	22.80	23.40	23.75	24.48	24.21
26	24.70	24.25	23.76	22.88	22.83	22.13	22.12	22.82	23.44	23.73	24.49	24.31
27	24.72	24.28	23.74	23.06	22.78	22.07	22.15	22.85	23.43	23.76	24.48	24.36
28	24.83	24.33	23.75	23.09	22.59	22.08	22.05	22.85	23.50	23.79	24.53	24.46
29	24.87	24.23	23.71	23.11	---	22.15	22.13	22.84	23.54	23.79	24.65	24.36
30	24.85	24.12	23.61	22.93	---	21.95	22.13	22.84	23.54	23.81	24.73	24.14
31	24.90	---	23.62	22.97	---	22.05	---	22.88	---	23.82	24.65	---
MEAN	24.86	24.52	23.98	23.13	22.85	22.34	21.93	22.65	23.25	23.57	24.24	24.26
WTR YR 1987	MEAN	23.47		HIGH	21.69	LOW	24.95					

GROUND-WATER LEVELS

LONG COUNTY

313845081361701 Local number, 33M004.

LOCATION.--Lat 31°38'54", long 81°36'04", Hydrologic Unit 03070106, 9 mi southeast of Ludowici, at Hope Cemetery.

Owner: U.S. Geological Survey, test well 3.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 to 4 in., depth 872 ft, cased to 538 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 61.2 ft above 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 at conclusion of pumping. Borehole geophysical survey conducted July 28, 1976. Water levels for period of missing record, Aug. 23-29, 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, Jan. 14, 1968; lowest, 54.18 ft below land-surface datum, Aug. 30, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.58	54.12	53.52	52.30	52.63	52.28	52.05	51.56	51.91	52.64	52.08	53.12
2	53.58	54.05	53.54	52.56	52.47	52.39	51.94	51.58	51.92	52.63	52.07	53.13
3	53.60	54.01	53.60	52.68	52.46	52.50	51.84	51.64	51.94	52.66	52.11	53.14
4	53.59	54.00	53.74	52.49	52.60	52.54	51.85	51.71	51.94	52.67	52.16	53.14
5	53.56	53.97	53.78	52.44	52.70	52.62	51.80	51.79	51.97	52.68	52.19	53.10
6	53.61	53.97	53.83	52.62	52.54	52.60	51.76	51.81	52.05	52.75	52.28	53.10
7	53.67	54.03	53.82	52.62	52.40	52.36	51.72	51.73	52.16	52.72	52.38	53.07
8	53.71	54.08	53.74	52.64	52.32	52.11	51.69	51.66	52.22	52.74	52.44	53.11
9	53.72	54.03	53.64	52.64	52.57	52.04	51.64	51.78	52.20	52.77	52.45	53.15
10	53.70	54.02	53.56	52.50	52.76	52.20	51.62	51.80	52.19	52.74	52.44	53.22
11	53.76	53.98	53.49	52.62	52.71	52.40	51.68	51.76	52.23	52.71	52.47	53.26
12	53.82	53.98	53.53	52.70	52.55	52.40	51.72	51.72	52.28	52.64	52.55	53.26
13	53.77	54.06	53.77	52.76	52.51	52.33	51.77	51.74	52.26	52.52	52.63	53.23
14	53.72	54.18	53.88	52.79	52.45	52.32	51.78	51.78	52.23	52.41	52.68	53.26
15	53.78	54.06	53.82	52.76	52.44	52.29	51.61	51.74	52.28	52.33	52.74	53.28
16	53.83	53.96	53.70	52.76	52.35	52.23	51.48	51.74	52.30	52.30	52.78	53.28
17	53.90	53.79	53.57	52.78	52.40	52.26	51.47	51.78	52.36	52.31	52.82	53.27
18	53.99	53.63	53.45	52.76	52.50	52.12	51.53	51.78	52.44	52.26	52.85	53.24
19	54.04	53.70	53.53	52.68	52.60	52.03	51.65	51.76	52.46	52.20	52.88	53.23
20	54.02	53.67	53.53	52.82	52.67	52.03	51.72	51.75	52.44	52.18	52.95	53.26
21	54.01	53.74	53.61	52.71	52.58	51.98	51.69	51.78	52.43	52.18	53.02	53.35
22	54.01	53.77	53.69	52.48	52.40	52.00	51.66	51.82	52.46	52.10	53.06	53.40
23	54.01	53.79	53.48	52.75	52.42	52.03	51.60	51.83	52.43	52.06	53.02	53.40
24	53.98	53.80	53.25	52.92	52.58	52.02	51.51	51.82	52.42	52.10	53.04	53.38
25	53.94	53.80	53.31	52.75	52.61	51.98	51.58	51.84	52.41	52.11	53.10	53.44
26	53.92	53.72	53.28	52.69	52.62	51.96	51.68	51.88	52.40	52.07	53.11	53.52
27	53.95	53.69	53.12	52.82	52.56	51.88	51.68	51.90	52.42	52.02	53.12	53.58
28	54.02	53.74	52.96	52.85	52.41	51.97	51.58	51.92	52.52	51.99	53.12	53.61
29	54.07	53.68	52.82	52.84	---	51.90	51.64	51.91	52.62	52.00	53.11	53.50
30	54.03	53.60	52.66	52.64	---	51.77	51.59	51.89	52.67	52.04	53.18	53.34
31	54.09	---	52.56	52.61	---	51.98	---	51.90	---	52.10	53.16	---
MEAN	53.84	53.89	53.48	52.68	52.53	52.18	51.68	51.78	52.29	52.38	52.71	53.28
WTR YR 1987	MEAN	52.73		HIGH	51.47		LOW	54.18				

GROUND-WATER LEVELS

407

LOWNDES COUNTY

304949083165301 Local number, 19E009.

LOCATION.--Lat 30°49'51", long 83°16'59", Hydrologic Unit 03110202, N. Oak Street, one block north of intersection with U.S. Highway 84, Valdosta, Ga.

Owner: City of Valdosta.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 20 in., depth 342 ft, cased to 200 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 217 ft above National Geodetic Vertical Datum of 1929 (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. Water level affected by city pumping.

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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139.47	142.86	135.12	128.48	124.59	121.87	121.55	127.59	129.82	130.47	134.90	134.78
2	139.03	142.16	135.37	128.44	123.48	121.39	121.08	128.26	131.02	130.30	134.57	134.82
3	140.00	142.37	135.24	127.80	123.48	121.22	121.08	127.96	131.51	130.59	134.60	135.20
4	140.08	143.02	135.03	127.93	124.50	121.20	121.16	129.14	131.76	130.46	135.35	135.61
5	139.79	142.40	134.90	127.59	124.79	121.02	120.48	127.98	128.17	130.51	135.77	135.62
6	140.87	142.23	134.47	127.64	125.17	120.95	120.95	128.74	130.16	130.81	135.89	135.41
7	140.87	142.65	133.96	127.50	124.77	120.63	120.95	129.06	130.22	130.64	137.88	134.38
8	141.37	143.04	134.33	128.20	123.99	120.41	121.07	129.50	129.66	130.43	137.96	133.92
9	141.03	142.88	134.08	127.39	123.68	120.31	121.20	128.37	130.79	130.24	138.07	133.66
10	141.15	143.63	133.44	127.92	123.99	120.81	122.24	128.34	131.17	130.29	138.87	133.60
11	141.06	142.63	132.92	126.32	124.40	121.42	122.49	129.35	131.54	131.85	138.79	134.00
12	140.80	143.33	132.78	126.58	123.86	121.12	122.78	129.10	131.40	132.00	138.33	134.27
13	141.53	142.75	132.42	126.80	123.68	120.79	122.34	129.59	129.86	132.67	136.34	134.19
14	141.12	142.72	132.00	126.56	123.93	121.54	122.26	129.29	130.11	133.39	135.30	133.87
15	141.32	142.63	131.74	126.50	123.73	121.62	122.61	128.38	130.49	133.18	134.66	134.56
16	141.30	142.63	131.67	126.33	123.14	121.11	122.43	128.17	130.79	133.97	134.12	135.08
17	141.17	142.79	131.51	125.96	123.37	121.16	122.38	128.25	131.19	135.47	133.45	135.83
18	141.70	142.17	131.59	125.62	123.03	121.71	122.80	127.96	131.99	135.36	133.32	137.10
19	141.33	141.10	131.47	125.41	123.29	121.26	122.93	128.14	132.08	135.91	133.08	137.17
20	142.10	140.59	130.87	125.48	123.12	121.64	123.58	127.81	131.74	135.73	133.07	136.49
21	141.75	140.24	130.79	125.57	123.24	122.39	124.14	128.21	131.23	135.86	133.86	136.29
22	142.73	138.93	130.67	125.54	122.47	122.42	125.02	127.14	130.96	136.30	133.70	136.26
23	142.79	138.71	130.12	125.99	122.57	122.23	124.88	127.64	130.86	138.07	133.42	137.37
24	142.76	139.16	129.98	126.70	122.85	122.03	125.44	127.53	130.76	138.92	133.54	136.89
25	142.86	138.58	130.25	125.40	122.47	121.91	126.05	127.32	130.09	137.92	133.97	137.78
26	142.10	137.59	129.66	125.01	122.79	121.80	126.13	127.81	129.45	137.14	133.86	138.45
27	142.03	136.47	129.70	126.70	122.46	122.77	125.94	128.15	129.43	136.82	134.67	138.44
28	142.95	135.91	129.46	125.69	122.18	122.75	126.47	128.77	129.67	137.20	135.84	138.79
29	142.58	135.06	129.42	124.74	---	122.12	126.92	129.16	130.28	136.99	135.86	138.88
30	142.57	135.07	129.13	124.15	---	122.02	127.97	129.17	130.75	135.76	135.12	138.09
31	142.40	---	128.81	125.09	---	122.13	---	129.48	---	134.83	134.93	---
MEAN	141.44	140.88	132.03	126.48	123.54	121.54	123.24	128.43	130.63	133.87	135.26	135.89
WTR YR 1987	MEAN	131.15		HIGH	120.31		LOW	143.63				

GROUND-WATER LEVELS

MCINTOSH COUNTY

313823081154201 Local number, 35M013.

LOCATION--Lat 31°38'23", Long 84°15'42", 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--Upper Floridan aquifer.

WELL CHARACTERISTICS--Drilled unused supply well, diameter 10 in., depth 553 ft, cased to 376 ft, open hole.

INSTRUMENTATION--Water-level recorder.

DATUM--Elevation of land-surface is 16.3 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.20 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. Water level for period of missing record, Jan. 28, was estimated.

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, 22.22 ft below land-surface datum, Oct. 23, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.02	22.05	21.59	21.66	21.34	20.84	20.73	20.40	20.81	21.18	21.45	21.77
2	22.01	22.04	21.72	21.74	21.21	21.06	20.64	20.40	20.84	21.19	21.44	21.67
3	22.01	21.94	22.01	21.30	21.28	21.13	20.54	20.47	20.86	21.25	21.46	21.28
4	22.00	21.86	22.17	21.26	21.34	21.20	20.67	20.51	20.83	21.25	21.48	21.75
5	22.00	21.85	22.15	21.46	21.31	21.24	20.55	20.45	20.77	21.27	21.46	21.89
6	21.98	22.00	22.15	21.56	21.10	21.20	20.41	20.46	20.76	21.26	21.52	21.99
7	21.96	22.13	22.14	21.60	21.00	20.91	20.38	20.42	20.85	21.18	21.52	21.75
8	22.00	22.14	22.14	21.52	21.05	20.80	20.34	20.42	20.90	21.16	21.47	21.93
9	22.06	22.13	22.08	21.39	21.44	20.84	20.33	20.42	20.92	21.18	21.42	21.24
10	22.02	22.15	22.05	21.68	21.46	20.87	20.24	20.53	20.93	21.13	21.46	21.33
11	21.92	21.99	21.96	21.67	21.42	20.94	20.24	20.65	20.85	21.10	21.43	21.24
12	21.94	22.05	22.01	21.56	21.27	20.92	20.47	20.03	20.88	21.08	21.38	21.51
13	21.90	22.09	22.16	21.52	21.17	20.85	20.44	20.41	20.95	21.04	21.35	21.82
14	21.91	22.08	22.08	21.47	21.07	20.78	20.41	20.43	20.96	21.08	21.44	21.70
15	21.96	22.01	22.03	21.41	21.04	20.79	20.11	20.35	20.98	21.16	21.57	21.61
16	21.92	22.01	21.99	21.32	20.70	20.80	20.07	20.43	20.97	21.19	21.66	21.48
17	21.99	21.93	21.91	21.20	20.99	20.72	20.07	20.46	20.99	21.22	21.70	21.31
18	22.06	21.83	21.80	21.33	21.13	20.63	20.12	20.50	21.03	21.23	21.70	21.02
19	22.12	21.86	21.72	21.51	21.27	20.54	20.23	20.51	20.98	21.31	21.69	20.81
20	22.13	21.72	21.76	21.37	21.25	20.58	20.27	20.51	20.97	21.39	21.79	20.79
21	22.13	21.94	21.77	21.06	21.07	20.56	20.26	20.43	21.02	21.42	21.76	20.86
22	22.17	21.94	21.55	21.55	20.88	20.52	20.22	20.42	21.02	21.37	21.75	20.94
23	22.22	21.92	21.50	21.56	21.18	20.52	20.17	20.48	20.99	21.27	21.77	21.05
24	22.16	21.99	21.74	21.23	21.18	20.47	20.13	20.51	20.99	21.31	21.85	21.31
25	22.04	22.06	21.81	21.23	21.08	20.43	20.19	20.55	20.90	21.35	21.88	21.50
26	21.99	22.03	21.64	21.30	20.96	20.44	20.29	20.59	20.90	21.39	21.87	21.21
27	22.03	22.07	21.62	21.34	20.89	20.37	20.29	20.53	20.98	21.45	21.57	21.67
28	22.17	22.00	21.56	21.25	20.79	20.42	20.22	20.59	21.02	21.47	21.69	21.71
29	22.17	21.84	21.56	21.17	---	20.43	20.28	20.68	21.08	21.44	21.53	21.78
30	22.05	21.65	21.47	21.28	---	20.30	20.39	20.71	21.17	21.44	21.39	21.68
31	21.98	---	21.14	21.37	---	20.66	---	20.77	---	21.48	21.93	---
MEAN	22.03	21.98	21.84	21.42	21.14	20.73	20.32	20.48	20.94	21.27	21.59	21.45
WTR YR 1987	MEAN	21.27		HIGH	20.03		LOW	22.22				

GROUND-WATER LEVELS

409

MILLER COUNTY

310651084404501 Local number, 08G001.

LOCATION--Lat 31°06'51", Long 84°40'45", Hydrologic Unit 03130010, 1 mi northeast of Boykin, Ga.

Owner: Jack Fleet.

AQUIFER--Upper Floridan aquifer.

WELL CHARACTERISTICS--Drilled unused irrigation well, diameter 12 in., depth 255 ft, cased to 130 ft, open hole.

INSTRUMENTATION--Water-level recorder.

DATUM--Elevation of land-surface is 150 ft above National Geodetic Vertical Datum of 1929 (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, 11.18 ft below land-surface datum, April 11, 1984; lowest, 43.88 ft below land-surface datum, July 17, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.97	41.43	41.17	32.60	14.65	16.05	13.98	18.45	25.20	23.30	29.30	34.66
2	41.00	41.45	40.50	32.88	14.89	15.49	13.74	19.05	26.44	23.42	29.33	34.59
3	41.02	41.47	39.75	32.96	15.13	15.17	13.73	18.97	26.00	23.60	29.37	34.43
4	41.09	41.48	39.23	32.70	15.29	15.06	13.86	19.05	26.39	23.75	29.48	34.37
5	41.25	41.50	38.89	32.53	15.40	15.06	13.98	20.05	24.82	23.87	30.52	34.31
6	41.38	41.51	38.66	31.65	15.57	15.05	14.13	21.00	24.30	24.07	30.23	34.30
7	41.40	41.53	38.54	30.15	15.70	15.05	14.28	21.65	24.20	24.40	30.03	34.29
8	41.35	41.58	38.43	28.95	15.88	15.15	14.42	20.60	24.50	24.60	30.41	34.34
9	41.32	41.59	38.39	27.75	16.08	15.30	14.55	20.79	25.57	24.60	30.99	34.40
10	41.30	41.60	38.40	27.04	16.20	15.45	14.72	21.15	26.50	25.80	32.56	34.44
11	41.30	41.60	38.46	27.15	16.31	15.55	14.88	21.30	26.20	27.31	34.50	34.48
12	41.28	41.61	38.50	27.23	16.45	15.65	15.00	21.16	27.21	27.32	33.89	34.50
13	41.24	41.63	38.28	27.25	16.57	15.75	15.12	21.27	27.40	27.36	32.71	34.64
14	41.22	41.68	37.91	27.45	16.71	15.83	15.20	21.40	25.90	26.86	31.96	34.64
15	41.22	41.70	37.52	27.60	16.84	15.93	15.31	21.48	25.31	27.71	31.77	34.64
16	41.22	41.70	37.10	27.82	16.96	16.05	15.43	21.65	24.50	28.35	31.82	34.66
17	41.22	41.71	36.74	27.35	17.15	16.16	15.60	21.75	23.52	28.86	31.82	34.73
18	41.23	41.73	36.32	25.95	17.33	16.10	15.78	21.97	22.80	29.97	31.92	34.76
19	41.25	41.74	35.94	20.52	17.51	15.88	15.83	22.05	22.27	30.22	32.98	34.81
20	41.25	41.78	35.50	15.13	17.67	15.62	16.08	21.75	21.97	29.82	34.44	34.91
21	41.26	41.80	35.15	14.31	17.80	15.39	16.13	21.70	21.87	29.21	34.33	35.01
22	41.28	41.80	34.89	14.03	17.87	15.25	16.25	21.70	21.87	29.44	33.65	35.45
23	41.28	41.81	34.66	13.47	17.95	15.16	16.41	22.13	21.96	30.36	33.07	36.68
24	41.29	41.82	34.53	13.17	17.72	15.12	17.00	22.30	22.10	30.27	33.06	36.58
25	41.29	41.74	34.56	13.15	17.50	15.17	17.87	21.98	22.25	31.71	33.59	36.85
26	41.30	41.72	34.22	13.39	17.25	15.17	17.90	22.45	22.40	29.91	34.31	36.94
27	41.30	41.70	33.79	13.69	17.03	15.20	17.62	23.08	22.60	29.51	36.29	36.68
28	41.32	41.68	33.41	13.95	16.70	15.28	18.00	22.75	22.80	29.43	36.40	36.60
29	41.39	41.63	33.05	14.10	---	15.27	18.20	23.05	23.02	29.39	35.80	37.09
30	41.40	41.54	32.80	14.30	---	15.00	18.30	23.75	23.17	29.41	34.89	36.58
31	41.41	---	32.62	14.49	---	14.48	---	24.13	---	29.37	34.78	---
MEAN	41.26	41.64	36.71	23.06	16.58	15.41	15.64	21.47	24.17	27.52	32.59	35.18
WTR YR 1987	MEAN	27.68		HIGH	13.15		LOW	41.82				

GROUND-WATER LEVELS

RANDOLPH COUNTY

314602084473701 Local number, 07N001.

LOCATION--Lat 31°46'09", long 84°47'43", 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.

INSTRUMENTATION--Water-level recorder.

DATUM--Elevation of land-surface is 460 ft above National Geodetic Vertical Datum of 1929 (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 level for period of missing record, Aug. 5, was 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, 162.08 ft below land-surface datum, Aug. 4, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157.67	155.50	154.28	151.47	151.77	149.74	148.91	152.59	156.18	154.46	155.68	156.91
2	157.70	154.68	153.66	152.96	151.86	150.54	149.02	152.62	154.52	153.16	156.11	158.71
3	158.35	155.19	153.31	152.55	151.61	151.07	149.10	151.27	154.18	154.51	155.81	158.05
4	159.35	155.22	154.63	152.22	151.94	150.73	149.67	153.23	155.11	153.83	156.64	158.78
5	157.47	155.23	154.36	153.70	152.00	151.23	149.21	151.86	155.15	154.77	155.58	157.14
6	157.63	154.62	153.55	153.47	151.75	151.60	149.80	152.00	155.92	153.94	154.51	157.16
7	157.60	155.19	153.32	152.71	151.75	150.42	150.47	151.56	155.75	153.50	154.76	156.25
8	158.38	154.46	153.69	153.09	150.91	149.62	150.03	153.10	157.10	153.47	155.54	155.17
9	157.89	155.70	153.29	153.27	152.07	150.25	150.45	153.89	156.74	153.49	156.62	156.76
10	158.22	153.34	154.36	151.72	152.51	149.62	151.25	154.04	156.56	153.98	156.82	157.01
11	155.79	154.21	153.98	153.31	152.75	150.65	150.75	154.52	156.93	152.57	156.49	157.49
12	157.54	153.88	153.80	152.13	151.95	150.72	150.01	153.83	155.43	152.65	157.05	155.60
13	157.10	154.67	154.04	153.16	151.18	151.69	150.63	153.49	155.20	155.18	157.55	156.42
14	156.27	155.02	152.59	153.14	150.34	150.55	149.31	154.07	154.58	155.27	156.41	154.99
15	155.79	154.40	153.94	152.15	150.80	150.50	150.90	153.86	155.88	153.41	157.19	155.46
16	156.27	153.70	152.99	151.48	150.52	151.45	149.09	152.87	156.62	155.17	157.17	155.43
17	155.65	154.63	153.29	152.34	151.47	150.35	150.09	152.46	156.33	155.67	156.87	156.30
18	155.49	155.23	152.69	150.94	151.95	149.21	148.03	153.53	155.43	156.34	156.64	157.91
19	156.79	154.62	153.49	152.03	152.67	149.72	150.34	152.72	156.55	155.62	157.18	155.87
20	155.60	154.56	152.33	152.25	151.07	149.68	149.92	152.85	156.15	156.17	157.44	155.39
21	155.75	155.19	152.64	151.74	151.38	150.23	151.24	152.43	155.54	155.61	157.55	157.08
22	155.77	153.40	152.13	151.67	150.50	149.58	151.83	154.16	154.50	156.35	157.84	156.18
23	154.57	153.67	151.99	151.60	151.01	150.23	152.17	153.84	155.44	157.51	158.10	156.74
24	156.45	152.82	151.50	151.35	150.62	149.38	151.67	153.59	154.29	157.38	159.19	156.40
25	155.96	153.34	151.61	151.79	150.30	149.57	150.63	153.90	154.72	156.51	158.32	155.78
26	154.73	153.54	152.36	151.76	150.45	149.42	151.11	154.17	154.63	156.12	157.40	155.28
27	155.21	152.93	151.55	152.21	151.01	149.51	150.61	153.32	154.04	155.58	157.28	155.43
28	155.38	153.10	152.32	151.40	150.86	149.09	151.85	152.60	152.78	155.90	157.65	156.27
29	155.84	153.92	151.90	152.68	---	148.88	153.25	152.69	153.12	155.95	157.54	156.21
30	155.94	152.51	152.72	151.71	---	148.74	153.08	153.94	153.56	156.78	158.13	154.89
31	157.00	---	152.25	151.30	---	148.20	---	155.32	---	155.37	156.86	---
MEAN	156.62	154.28	153.05	152.24	151.39	150.07	150.48	153.24	155.30	155.04	156.90	156.44
WTR YR 1987	MEAN	153.77		HIGH	148.03		LOW	159.35				

GROUND-WATER LEVELS

411

SPALDING COUNTY

331507084171801 Local number, 11AA01.

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.

INSTRUMENTATION--Water-level recorder.

DATUM--Elevation of land-surface is 960 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Hole in floor of recorder shelter, 3.1 ft above land-surface datum.

REMARKS--Water level for period of missing record, Sept. 28, was estimated.

PERIOD OF RECORD--October 1943 to current year.

EXTREMES FOR PERIOD OF RECORD--Highest water level, 8.26 ft below land-surface datum, Mar. 19, 1948; lowest, 21.82 ft below land-surface datum, Nov. 18-19, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.45	21.61	20.18	17.75	15.95	14.25	12.93	13.74	15.14	15.82	16.90	17.76
2	21.47	21.61	20.02	17.77	15.84	14.07	12.73	13.80	15.20	15.82	16.94	17.80
3	21.49	21.63	19.69	17.77	15.90	13.92	12.64	13.86	15.27	15.83	17.00	17.85
4	21.51	21.66	19.50	17.72	15.92	13.83	12.66	13.91	15.31	15.84	17.03	17.90
5	21.53	21.67	19.31	17.74	15.91	13.77	12.61	13.98	15.38	15.85	17.06	17.94
6	21.57	21.70	19.15	17.74	15.82	13.73	12.62	13.98	15.44	15.86	17.11	17.98
7	21.59	21.72	19.00	17.71	15.73	13.61	12.62	13.99	15.51	15.85	17.05	18.01
8	21.60	21.74	18.87	17.72	15.61	13.48	12.64	14.04	15.55	15.87	16.96	18.05
9	21.61	21.75	18.76	17.71	15.66	13.46	12.65	14.15	15.59	15.89	16.90	18.10
10	21.64	21.76	18.70	17.68	15.57	13.56	12.68	14.17	15.64	15.90	16.87	18.15
11	21.67	21.76	18.63	17.76	15.46	13.60	12.72	14.19	15.72	15.91	16.85	18.19
12	21.69	21.76	18.58	17.75	15.38	13.56	12.79	14.19	15.76	15.94	16.87	18.21
13	21.70	21.78	18.57	17.76	15.37	13.50	12.85	14.25	15.80	15.97	16.91	18.25
14	21.68	21.80	18.52	17.77	15.32	13.49	12.86	14.31	15.83	16.01	16.96	18.29
15	21.63	21.80	18.44	17.76	15.33	13.49	12.82	14.32	15.87	16.07	16.99	18.31
16	21.60	21.81	18.38	17.78	15.30	13.51	12.84	14.36	15.90	16.13	17.03	18.34
17	21.57	21.81	18.33	17.81	15.37	13.56	12.92	14.41	15.94	16.18	17.07	18.37
18	21.57	21.82	18.29	17.75	15.40	13.52	13.05	14.44	15.97	16.22	17.11	18.40
19	21.57	21.82	18.29	17.67	15.47	13.50	13.14	14.47	15.96	16.25	17.14	18.43
20	21.56	21.79	18.27	17.63	15.45	13.52	13.18	14.53	15.97	16.30	17.19	18.48
21	21.56	21.68	18.28	17.50	15.38	13.51	13.18	14.60	15.92	16.34	17.25	18.53
22	21.56	21.54	18.30	17.30	15.33	13.55	13.21	14.66	15.86	16.37	17.28	18.58
23	21.56	21.39	18.24	17.25	15.42	13.58	13.24	14.69	15.83	16.42	17.30	18.60
24	21.56	21.28	18.16	17.10	15.42	13.58	13.31	14.72	15.81	16.48	17.35	18.62
25	21.56	21.19	18.15	16.82	15.40	13.64	13.40	14.77	15.80	16.53	17.41	18.67
26	21.58	21.05	18.11	16.67	15.38	13.66	13.50	14.83	15.79	16.57	17.45	18.73
27	21.58	20.93	18.03	16.51	15.18	13.58	13.50	14.89	15.82	16.62	17.49	18.77
28	21.58	20.76	17.98	16.34	14.74	13.53	13.56	14.94	15.88	16.64	17.56	18.99
29	21.59	20.61	17.91	16.20	---	13.43	13.69	14.99	15.86	16.74	17.61	19.22
30	21.59	20.38	17.85	16.04	---	13.22	13.68	15.03	15.82	16.84	17.66	19.24
31	21.61	---	17.83	16.03	---	13.11	---	15.09	---	16.88	17.71	---
MEAN	21.58	21.52	18.59	17.37	15.50	13.59	13.01	14.40	15.70	16.19	17.16	18.36
WTR YR 1987	MEAN	16.92		HIGH	12.61		LOW	21.82				

GROUND-WATER LEVELS

WAYNE COUNTY

313253081433502 Local number, 32L015.

LOCATION--Lat 31°32'52", long 81°43'36", Hydrologic Unit 03070106, approximately 11 mi southeast of Jesup near Penholoway Creek.

Owner: Georgia Geologic Survey.

AQUIFER--Upper Floridan aquifer.

WELL CHARACTERISTICS--Drilled observation well, diameter 4 in., depth 750 ft, cased to 545 ft.

INSTRUMENTATION--Water-level recorder.

DATUM--Elevation of land-surface is 74 ft.

Measuring point: Floor of recorder shelter, 4.0 ft above land-surface datum.

REMARKS--Borehole geophysical survey and well sounded, Apr. 20, 1983. Water level for period of missing record, Jan. 19, was estimated.

PERIOD OF RECORD--April 20, 1983 to current year.

EXTREMES FOR PERIOD OF RECORD--Highest water level, 49.12 ft below land-surface datum, Mar. 19, 1984; lowest, 59.43 ft, Dec. 18, 1987, for period of record.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58.40	59.16	58.39	56.56	56.92	56.98	56.66	56.07	56.53	57.45	56.40	58.02
2	58.42	59.09	58.34	56.98	56.77	57.10	56.60	56.12	56.59	57.46	56.53	58.04
3	58.44	59.00	58.47	57.17	56.93	57.20	56.50	56.22	56.59	57.48	56.66	58.08
4	58.46	58.95	58.62	57.01	57.14	57.21	56.50	56.31	56.64	57.54	56.76	58.10
5	58.45	58.88	58.68	57.14	57.28	57.21	56.44	56.28	56.67	57.59	56.86	58.11
6	58.53	58.90	58.72	57.31	57.16	57.19	56.40	56.12	56.80	57.62	57.03	58.13
7	58.60	58.99	58.68	57.30	57.05	56.98	56.35	55.77	56.94	57.62	57.13	58.09
8	58.63	58.96	58.62	57.31	56.98	56.72	56.34	55.63	56.99	57.62	57.21	58.11
9	58.61	58.86	58.56	57.28	57.18	56.64	56.36	55.76	56.97	57.64	57.25	58.17
10	58.64	58.88	58.51	57.18	57.37	56.81	56.35	55.88	56.98	57.59	57.28	58.19
11	58.74	58.87	58.48	57.41	57.38	57.01	56.37	55.92	57.03	57.37	57.32	58.17
12	58.82	58.87	58.54	57.52	57.21	57.00	56.40	55.95	57.08	56.76	57.43	58.15
13	58.82	59.00	58.75	57.63	57.16	56.91	56.44	56.01	57.08	56.16	57.50	58.13
14	58.83	59.13	58.78	57.69	57.21	56.88	56.40	56.03	57.10	55.83	57.61	58.15
15	58.85	58.98	58.68	57.65	57.21	56.84	56.20	56.03	57.19	55.67	57.65	58.20
16	58.81	58.92	58.56	57.68	57.12	56.82	56.05	56.08	57.22	55.63	57.72	58.22
17	58.83	58.78	58.48	57.73	57.19	56.86	56.03	56.15	57.29	55.66	57.77	58.23
18	58.84	58.66	58.34	57.67	57.27	56.72	56.12	56.13	57.40	55.66	57.78	58.20
19	58.88	58.68	58.40	57.73	57.41	56.62	56.22	56.06	57.36	55.70	57.79	58.20
20	58.88	58.65	58.42	57.80	57.46	56.64	56.24	56.02	57.29	55.79	57.84	58.23
21	58.86	58.72	58.54	57.67	57.34	56.55	56.11	56.09	57.27	55.88	57.92	58.33
22	58.89	58.73	58.61	57.42	57.16	56.55	55.98	56.22	57.24	55.88	57.93	58.41
23	58.91	58.72	58.17	57.66	57.16	56.62	55.83	56.28	57.18	55.84	57.89	58.45
24	58.93	58.71	57.43	57.78	57.28	56.63	55.75	56.31	57.15	55.89	57.91	58.46
25	58.87	58.68	56.82	57.54	57.29	56.57	55.89	56.33	57.13	55.93	57.97	58.51
26	58.88	58.60	56.28	57.38	57.33	56.54	56.01	56.34	57.13	55.93	57.99	58.55
27	58.96	58.51	55.84	57.48	57.30	56.46	56.04	56.35	57.12	55.98	58.00	58.58
28	59.06	58.54	55.86	57.47	57.14	56.56	55.96	56.36	57.21	56.01	58.00	58.61
29	59.06	58.52	56.14	57.34	---	56.54	56.07	56.37	57.36	56.03	57.99	58.53
30	59.02	58.44	56.41	57.04	---	56.34	56.05	56.37	57.44	56.15	58.06	58.36
31	59.12	---	56.54	56.98	---	56.48	---	56.42	---	56.32	58.07	---
MEAN	58.78	58.81	57.99	57.40	57.19	56.78	56.22	56.13	57.07	56.51	57.52	58.26
WTR YR 1987	MEAN	57.39		HIGH	55.63		LOW	59.16				

GROUND-WATER LEVELS

413

WAYNE COUNTY

313701081543501 Local number, 30L003.

LOCATION--Lat 31°37'01", long 81°54'35", Hydrologic Unit 03070106, approximately 0.5 mi west of Jesup city limits near intersection of Highway 341 and Sunset Drive.

Owner: Homer Johnson.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 4 in., depth 584 ft, cased to 472 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 107 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Floor of shelter, 2.88 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted August 19, 1963.

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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82.80	83.62	82.63	80.82	80.47	80.86	80.52	80.11	81.00	81.94	80.58	82.42
2	82.86	83.54	82.61	81.24	80.48	80.90	80.55	80.24	81.13	81.94	80.76	82.42
3	82.90	83.38	82.70	81.50	80.80	80.98	80.49	80.44	81.17	81.95	80.88	82.45
4	82.93	83.30	82.90	81.48	81.08	81.03	80.44	80.52	81.27	82.02	81.00	82.44
5	82.92	83.25	83.00	81.52	81.17	81.05	80.38	80.30	81.26	82.07	81.15	82.43
6	82.97	83.24	83.04	81.62	81.14	81.08	80.31	79.94	81.37	82.06	81.34	82.45
7	83.01	83.27	83.04	81.55	81.03	80.98	80.26	79.60	81.54	82.06	81.47	82.40
8	83.03	83.24	83.04	81.64	80.90	80.76	80.27	79.41	81.58	82.06	81.58	82.37
9	83.06	83.18	83.00	81.73	80.95	80.64	80.33	79.60	81.55	82.05	81.68	82.45
10	83.08	83.22	82.95	81.68	81.17	80.81	80.32	79.92	81.57	81.98	81.73	82.48
11	83.20	83.24	82.91	81.92	81.24	81.02	80.28	80.08	81.67	81.28	81.84	82.45
12	83.32	83.24	82.98	82.10	81.14	81.04	80.30	80.18	81.78	80.00	81.91	82.40
13	83.38	83.36	83.08	82.10	81.13	80.94	80.32	80.20	81.88	79.08	81.93	82.36
14	83.39	83.52	83.10	82.11	81.25	80.83	80.22	80.16	81.88	78.72	81.95	82.38
15	83.37	83.44	83.02	82.02	81.25	80.77	79.98	80.22	82.00	78.64	81.95	82.45
16	83.37	83.38	82.90	82.00	81.14	80.73	79.81	80.34	82.05	78.76	81.98	82.47
17	83.33	83.22	82.76	82.06	81.12	80.70	79.75	80.38	82.04	78.96	82.03	82.49
18	83.38	82.96	82.64	82.02	81.24	80.60	79.85	80.37	82.04	79.07	82.02	82.50
19	83.46	82.98	82.70	81.84	81.41	80.47	79.92	80.26	81.97	79.32	82.01	82.50
20	83.44	83.03	82.75	81.90	81.44	80.43	79.87	80.14	81.86	79.65	82.02	82.49
21	83.42	83.08	82.84	81.94	81.29	80.34	79.66	80.33	81.76	79.86	82.06	82.60
22	83.42	83.10	82.94	81.73	81.11	80.28	79.44	80.53	81.72	79.93	82.06	82.70
23	83.39	83.02	82.30	81.86	81.08	80.40	79.21	80.61	81.69	79.88	82.05	82.80
24	83.40	83.00	80.98	81.93	81.15	80.48	79.30	80.63	81.61	79.96	82.12	82.85
25	83.38	83.00	79.91	81.72	81.14	80.39	79.56	80.64	81.57	80.10	82.16	82.85
26	83.36	82.86	79.18	81.51	81.24	80.30	79.69	80.61	81.55	80.16	82.18	82.78
27	83.43	82.70	78.70	81.54	81.28	80.33	79.76	80.59	81.50	80.17	82.22	82.75
28	83.50	82.80	79.02	81.45	81.10	80.46	79.80	80.65	81.60	80.17	82.24	82.82
29	83.53	82.82	79.80	81.15	---	80.43	79.93	80.66	81.78	80.14	82.32	82.85
30	83.51	82.69	80.36	80.75	---	80.20	80.04	80.68	81.90	80.26	82.43	82.79
31	83.58	---	80.71	80.58	---	80.31	---	80.81	---	80.42	82.45	---
MEAN	83.26	83.16	82.08	81.65	81.11	80.66	80.02	80.30	81.64	80.47	81.81	82.55
WTR YR 1987	MEAN	81.56		HIGH	78.64		LOW	83.62				

GROUND-WATER LEVELS

WORTH COUNTY

313146083491601 Local number, 15L020.

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.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 18 in., depth 450 ft, cased to 212 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 433 ft above National Geodetic Vertical Datum of 1929 (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, 204.67 ft below land-surface datum, Aug. 10, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202.69	202.69	202.08	201.73	201.58	201.00	200.89	201.53	201.58	201.77	201.77	202.08
2	202.69	202.58	202.05	201.96	201.33	201.19	200.79	201.54	201.71	201.74	201.72	202.08
3	202.72	202.48	202.23	202.03	201.44	201.30	200.64	201.56	201.85	201.76	201.74	202.10
4	202.71	202.43	202.41	201.76	201.58	201.39	200.75	201.61	201.84	201.74	201.73	202.11
5	202.68	202.36	202.46	201.90	201.65	201.45	200.68	201.68	201.81	201.75	201.72	202.07
6	202.73	202.42	202.49	202.00	201.48	201.45	200.63	201.68	201.85	201.76	201.77	202.08
7	202.82	202.54	202.42	201.93	201.30	201.16	200.59	201.62	201.90	201.74	201.84	202.07
8	202.88	202.56	202.28	201.93	201.26	200.86	200.60	201.57	201.93	201.75	201.86	202.09
9	202.90	202.50	202.17	201.88	201.55	200.80	200.56	201.70	202.01	201.78	201.82	202.13
10	202.86	202.48	202.10	201.67	201.70	200.97	200.54	201.74	202.09	201.75	201.77	202.17
11	202.92	202.42	202.03	201.90	201.61	201.24	200.55	201.69	202.20	201.71	201.73	202.21
12	202.90	202.42	202.10	201.94	201.42	201.27	200.60	201.62	202.30	201.65	201.77	202.16
13	202.77	202.55	202.39	201.91	201.35	201.22	200.65	201.61	202.28	201.63	201.83	202.13
14	202.67	202.66	202.42	201.89	201.22	201.16	200.65	201.61	202.13	201.61	201.89	202.15
15	202.72	202.47	202.34	201.77	201.13	201.13	200.51	201.52	202.06	201.66	201.91	202.23
16	202.74	202.32	202.24	201.74	200.96	201.08	200.45	201.48	202.00	201.77	201.91	202.24
17	202.79	202.16	202.13	201.75	201.14	201.07	200.43	201.51	202.00	201.89	201.93	202.22
18	202.88	202.14	201.99	201.60	201.29	200.93	200.54	201.48	202.03	201.92	201.93	202.15
19	202.94	202.21	202.08	201.51	201.48	200.79	200.72	201.44	201.98	201.91	201.92	202.10
20	202.87	202.16	202.08	201.77	201.49	200.84	200.79	201.44	201.89	201.94	201.94	202.10
21	202.81	202.29	202.17	201.68	201.29	200.76	200.76	201.49	201.85	201.95	202.04	202.18
22	202.79	202.30	202.26	201.35	201.06	200.74	200.76	201.54	201.80	201.90	202.05	202.21
23	202.75	202.28	201.95	201.73	201.24	200.76	200.76	201.52	201.74	201.75	201.99	202.19
24	202.63	202.30	201.77	201.82	201.40	200.71	200.77	201.47	201.71	201.75	201.98	202.14
25	202.44	202.37	201.97	201.47	201.43	200.75	200.89	201.46	201.64	201.78	202.04	202.15
26	202.46	202.36	202.06	201.55	201.43	200.75	201.07	201.52	201.62	201.74	202.08	202.24
27	202.49	202.37	202.05	201.78	201.32	200.65	201.09	201.57	201.63	201.72	202.07	202.32
28	202.62	202.35	202.10	201.80	201.10	200.69	201.10	201.58	201.73	201.72	202.05	202.33
29	202.62	202.23	202.07	201.77	---	200.72	201.35	201.57	201.78	201.75	202.04	202.21
30	202.56	202.05	201.98	201.53	---	200.49	201.43	201.54	201.80	201.82	202.05	201.99
31	202.65	---	201.93	201.59	---	200.69	---	201.54	---	201.84	202.07	---
MEAN	202.73	202.38	202.15	201.76	201.37	200.97	200.75	201.56	201.89	201.77	201.90	202.15
WTR YR 1987	MEAN	201.79		HIGH	200.43		LOW	202.94				

TIFT COUNTY

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.

(National Atmospheric Deposition Program network station)
(National Trends Network station)

LOCATION.--Lat 31°28'25", long 83°31'59", Tift County, Hydrologic Unit 03110204, at the Southeastern Watershed Research Laboratory, U.S. Department of Agriculture, Agricultural Research Service, 0.9 mi west-southwest of the intersection of Interstate Highway 75 and U.S. Highway 41 near Tifton, Georgia.

PERIOD OF RECORD.--October 1983 to current year (weekly composite wet precipitation).

INSTRUMENTATION.--Wet/dry precipitation collector and recording rain gage.

REMARKS.--Unless otherwise noted, chemical analyses reported are for wet precipitation. A "B" appended to the sample date indicates a bulk precipitation sample was collected instead of a wet precipitation sample. Standard NADP/NTN protocol dictates that during periods of collector malfunction involving either the sensor or drive motor, the wet/dry collector should be left in "bulk" mode, i.e., the "wet" side bucket is left uncovered.

TIFT COUNTY

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	ATM DEP WET TOTAL FOR PERIOD (IN)	SAMPLE SIZE (ML)	COL- LECTOR EFFI- CIENCY WET DEPOS. PERCENT	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
OCT								
07-14	1400	0.64	1100	100	9	9	4.89	4.91
14-21	1400	0.01	18	104	--	14	--	6.18
21-28	1400	0.29	500	100	11	9	5.14	5.49
OCT 28-								
NOV 04	1400	0.19	340	104	23	24	4.36	4.38
NOV								
04-11	1400	0.01	3	17	--	--	--	--
11-18	1400	0.74	1200	96	24	22	4.51	4.46
18-25	1400	2.88	--	--	5	5	5.04	5.07
NOV 25-								
DEC 02	1400	2.58	4200	95	9	10	4.63	4.74
DEC								
02-09	1400	0.03	48	94	--	11	--	5.12
09-16	1400	3.76	6700	104	3	4	4.36	5.17
16-23	1400	1.34	2300	100	9	17	4.49	4.53
23-30	1430	0.75	1300	99	8	11	5.13	4.94
DEC 30 1986-								
JAN 06 1987	1400	3.53	6000	99	7	7	5.02	4.83
JAN								
06-13	1400	0.80	1300	95	15	16	4.51	4.55
13-20	1400	3.09	5200	97	14	7	6.14	4.97
20-27	1400	2.21	3800	99	6	7	5.40	4.91
JAN 27-								
FEB 03	1400	0.91	1400	91	6	9	5.28	4.94
FEB								
03-10	1400	0.85	1400	98	12	15	4.55	4.49
10-17	1400	1.28	2200	100	15	15	4.87	4.57
17-24	1400	1.67	2900	99	7	7	5.05	4.90
FEB 24-								
MAR 03	1400	2.86	4800	97	15	13	5.47	4.76
MAR								
03-10	1400	1.51	2300	87	8	7	5.67	4.96
10-17	1400	0.09	140	90	65	59	4.56	3.94
17-24	1400	0.55	960	101	12	13	5.01	4.70
24-31	1400	1.96	3500	105	7	7	6.00	5.03
MAR 31-								
APR 07	1400	0.29	500	100	9	8	5.07	4.93
APR								
07-14	1400	0.0	5	--	--	45	--	5.70
14-21	1400	0.11	170	91	--	--	--	--
21-28	1400	0.0	0	--	--	--	--	--
APR 28-								
MAY 05	1400	0.0	0	--	--	--	--	--
MAY								
05-12	1400	1.52	2700	103	21	22	5.21	4.49
12-19	1400	1.50	2600	100	13	13	5.18	4.70
19-26	1400	0.78	1300	97	23	36	4.32	4.16
MAY 26-								
JUN 02	1400	0.0	7	--	--	33	--	6.16
JUN								
02-09	1400	0.01	17	102	--	61	--	4.08
09-16	1400	0.82	1500	103	5	6	5.39	5.01
16-23	1400	0.94	1600	100	8	9	5.60	4.85
23-30	1400	0.79	1400	101	15	14	5.00	4.66
JUN 30-								
JUL 07	1400	0.16	280	103	22	24	5.27	4.46
JUL								
07-14	1400	0.31	530	99	18	20	5.18	4.44
14-21	1400	0.03	50	98	--	25	--	4.47
21-28	1400	0.39	760	113	27	30	4.50	4.25
JUL 28-								
AUG 04	1400	1.01	1600	89	--	--	--	--
AUG								
04-11	1400	0.04	0	--	--	--	--	--
11-18	1400	3.15	4900	89	14	12	5.13	5.08
18-25	1400	0.32	0	--	--	--	--	--
AUG 25-								
SEP 01	1400	0.05	110	123	41	41	4.67	5.39
SEP								
01-08	1200	2.55	4100	93	9	9	5.46	5.83
08-15	1400	2.83	4200	86	25	32	5.10	6.95
15-22	1400	0.38	660	101	16	15	4.50	4.58
22-29	1400	0.0	0	--	--	--	--	--
SEP 29-								
OCT 06	1400	0.18	260	84	30	28	4.20	4.32

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA---Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	PHOS- PHATE, DIS- SOLVED (MG/L AS PO4)
OCT											
07-14	0.07	0.02	0.10	43	0.1	0.03	0.9	0.08	0.76	0.20	<0.01
14-21	0.08	0.02	0.88	85	0.7	0.03	1.2	0.33	0.99	<0.11	<0.05
21-28	0.28	0.06	0.49	51	0.2	0.06	0.9	0.77	0.88	<0.02	0.01
OCT 28- NOV 04	0.06	0.04	0.21	56	0.2	0.05	2.1	0.34	1.2	0.34	<0.01
NOV											
04-11	--	--	--	--	--	--	--	--	--	--	--
11-18	0.06	0.06	0.45	69	0.3	0.03	2.0	0.80	1.4	0.25	<0.01
18-25	0.03	0.01	0.09	59	0.1	0.01	0.5	0.15	0.26	0.08	<0.01
NOV 25- DEC 02	0.03	0.02	0.13	64	0.2	0.01	0.8	0.22	0.53	0.07	<0.01
DEC											
02-09	0.16	0.06	0.44	59	0.2	0.02	1.5	0.48	1.4	0.12	<0.01
09-16	0.01	0.02	0.10	70	0.1	0.00	0.3	0.17	0.07	<0.02	<0.01
16-23	0.04	0.04	0.27	68	0.2	0.02	1.5	0.51	0.74	0.13	<0.01
23-30	0.09	0.08	0.56	67	0.3	0.04	1	1.0	0.39	0.03	<0.01
DEC 30 1986- JAN 06 1987	0.03	0.01	0.05	--	0.1	<0.00	0.6	0.10	0.31	<0.02	<0.01
JAN											
06-13	0.06	0.03	0.16	54	0.1	0.01	1.3	0.28	0.78	0.09	<0.01
13-20	0.04	0.02	0.13	54	0.1	0.04	0.6	0.25	0.30	0.03	<0.01
20-27	0.02	0.02	0.11	65	0.1	0.01	0.5	0.19	0.31	0.05	<0.01
JAN 27- FEB 03	0.06	0.05	0.38	67	0.3	0.03	0.8	0.62	0.42	0.11	<0.01
FEB											
03-10	0.04	0.03	0.15	60	0.1	0.01	1.4	0.27	0.68	0.10	<0.01
10-17	0.11	0.02	0.07	29	0.1	0.02	1.4	0.14	0.85	0.20	<0.01
17-24	0.03	0.01	0.03	38	0.0	0.01	0.7	0.08	0.34	0.04	<0.01
FEB 24- MAR 03	0.12	0.07	0.46	61	0.3	0.04	1.4	0.82	0.46	0.16	<0.01
MAR											
03-10	0.03	0.04	0.28	71	0.3	0.01	0.5	0.51	0.31	0.06	<0.01
10-17	0.12	0.04	0.15	40	0.1	0.03	5.8	0.20	3.7	0.82	<0.01
17-24	0.09	0.05	0.34	61	0.2	0.02	1.0	0.57	1.1	0.09	<0.01
24-31	0.09	0.03	0.14	44	0.1	0.03	0.6	0.26	0.53	0.09	<0.01
MAR 31- APR 07	0.10	0.03	0.17	45	0.1	0.06	0.9	0.24	0.58	0.04	<0.01
APR											
07-14	--	--	--	--	--	--	--	--	--	--	--
14-21	--	--	--	--	--	--	--	--	--	--	--
21-28	--	--	--	--	--	--	--	--	--	--	--
APR 28- MAY 05	--	--	--	--	--	--	--	--	--	--	--
MAY											
05-12	0.09	0.05	0.27	55	0.2	0.05	2.3	0.49	1.3	0.39	<0.01
12-19	0.05	0.02	0.12	51	0.1	0.03	1.2	0.22	1.2	0.41	<0.01
19-26	0.09	0.03	0.19	50	0.1	0.03	3.6	0.29	2.2	0.42	<0.01
MAY 26- JUN 02	0.41	0.18	0.94	52	0.3	0.08	3.1	1.4	2.2	0.39	<0.20
JUN											
02-09	0.95	0.17	0.88	36	0.2	0.31	6.1	0.94	4.7	0.56	0.19
09-16	0.08	0.03	0.17	51	0.1	0.03	0.4	0.27	0.57	0.05	<0.02
16-23	0.06	0.03	0.20	61	0.2	0.02	0.6	0.30	0.67	0.07	0.03
23-30	0.05	0.02	0.10	41	0.1	0.08	1.3	0.17	0.76	<0.02	<0.02
JUN 30- JUL 07	0.21	0.07	0.38	48	0.2	0.07	1.9	0.52	2.2	0.13	<0.02
JUL											
07-14	0.07	0.02	0.10	45	0.1	0.01	1.3	0.19	1.6	<0.02	<0.02
14-21	0.37	0.05	0.30	37	0.1	0.00	2.4	0.34	2.0	0.04	0.59
21-28	0.12	0.04	0.26	49	0.2	0.07	2.6	0.46	2.1	0.34	<0.02
JUL 28- AUG 04	--	--	--	--	--	--	--	--	--	--	--
AUG											
04-11	--	--	--	--	--	--	--	--	--	--	--
11-18	0.08	0.05	0.22	30	0.2	0.60	1.8	0.44	0.37	<0.02	<0.02
18-25	--	--	--	--	--	--	--	--	--	--	--
AUG 25- SEP 01	2.0	0.42	1.0	22	0.2	0.97	6.1	1.2	6.8	1.0	0.21
SEP											
01-08	0.09	0.03	0.11	27	0.1	0.26	1.2	0.19	1.0	0.54	0.08
08-15	0.14	0.09	0.11	14	0.1	0.63	4.9	0.30	1.5	2.9	0.41
15-22	0.04	0.02	0.09	49	0.1	0.03	1.4	0.18	0.77	0.09	<0.02
22-29	--	--	--	--	--	--	--	--	--	--	--
SEP 29- OCT 06	0.15	0.05	0.35	55	0.2	0.03	3.1	0.54	1.3	0.28	<0.02

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