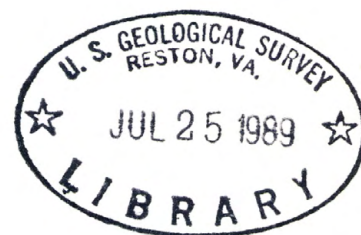


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# Water Resources Data Georgia Water Year 1988



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-88-1  
Prepared in cooperation with the State of Georgia  
and with other agencies



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# Water Resources Data Georgia Water Year 1988

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-88-1  
Prepared in cooperation with the State of Georgia  
and with other agencies



DEPARTMENT OF THE INTERIOR  
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U.S. GEOLOGICAL SURVEY  
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## PREFACE

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

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

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                    |               |                                                                                     |
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| 16. Abstract (Limit: 200 words)<br><br>Water resources data for the 1988 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 114 gaging stations; stage for 19 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 107 continuing-record stations; water-quality for 4 miscellaneous station; peak stage and discharge only for 76 crest-stage partial-record stations and 8 miscellaneous sites; base-flow discharge measurements at 149 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. |  |                                                                                                    |               |                                                                                     |
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## SURFACE WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letters after station names designate type of data: (d) discharge; (g) gage height; (c) chemical;  
(m) microbiological; continuously monitored water-quality characteristics (k) specific conductance,  
(h) pH, (t) water temperature, (o) dissolved oxygen; and (s) sediment]

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## WATER RESOURCES DATA -- GEORGIA, 1988

### INTRODUCTION

Water resources data for the 1988 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 114 gaging stations; stage for 19 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 107 continuing-record stations; water quality for 4 miscellaneous sites; peak stage and discharge only for 76 crest-stage partial-record stations and 8 miscellaneous sites; base-flow discharge measurements at 149 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-88-1." 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) 986-6860.

### 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 1988 water year was well below normal throughout the State. For unregulated streams having more than 10 years of streamflow record, the ratio of runoff during the 1988 water year to long-term runoff ranged from about 0.2 at Turkey Creek near Byromville to 0.8 at Alapaha River at Statenville and Spring Creek near Iron City. The runoff ratio for most streams in Georgia ranged between 0.4 and 0.6, except in the northwestern part of the State, where the ratio for many streamflow stations was between 0.3 and 0.4.

Monthly mean runoff in the northern part of the State was below normal for the entire year. Mean flows for January and September were approximately 85 and 70 percent of normal, respectively, and all other monthly flows were substantially below normal. Flows for six of these months, October, March, and May through August averaged only about 35 percent of normal. In central Georgia, monthly mean runoff also was below normal throughout the year. Flow was near normal for September while flows for the remaining months were well below normal. Flows for five of these months averaged about 30 percent of normal. As usual, the variability of monthly mean flows in the southern part of the State was substantial. Flows for March, May, and September generally were at or above normal, and monthly flows for the remainder of the year ranged from 10 percent of normal in August to 70 percent of normal in February. The monthly flows for October through January and June through August averaged only about 20 percent of normal. Figure 1 shows monthly and yearly mean discharges for the 1988 water year at three representative long-term gaging stations and the median of monthly and yearly mean discharges for 1951-80.

Flooding was almost completely absent in Georgia during the 1988 water year. Only six of the continuous-record gaging stations throughout the State experienced peak flows equal to or greater than a 2-year recurrence interval. Peak flows at almost all other stations of this type were substantially less than a 2-year event. The recurrence interval of the peak flow at Chattooga River at Summerville in northern Georgia was about 5 years, while the recurrence interval at Okapilco Creek near Quitman in southern Georgia was approximately 8 years. The recurrence interval of the annual maximum discharge for most rural peak-flow partial-record stations was less than 2 years. However, one of these stations, Harrisburg Creek near Hawkins in the northwestern part of the State, experienced a peak flow with a recurrence interval greater than 100 years. Since the drainage area of this station is only 13.3 square miles, no widespread flooding resulted.

During 1988, drought conditions continued to dominate flow patterns throughout much of Georgia, especially in the northern and central parts of the State where annual runoff for many stations was the lowest or very near the lowest of record. Seasonally low winter and spring runoff was a major contributor to the low annual runoff. Although minimum daily flows at many stations were higher in 1988 than in 1986 and other recent years, there were a large number of stations that experienced unusually low minimum daily flows. In the northern and central parts of the State, the recurrence interval of the minimum daily flow at many stations was 30 to 50 years. Several other stations in this area experienced low flows with recurrence intervals in excess of 50 years.

Water Quality

The quality of Georgia's surface waters generally is good. A statistical summary of surface-water quality for several constituents measured at 15 sites in Georgia is presented in table 1. Sites selected for this summary were chosen to represent a wide range of basin characteristics, land use, and water use throughout the State. Eight of these 15 sites are part of an 86-station cooperative network operated by the U.S. Geological Survey and the Georgia Department of Natural Resources, Environmental Protection Division; five sites are part of the Geological Survey's National Stream-Quality Accounting Network (NASQAN) program; one site is part of the Geological Survey's Hydrologic Bench-Mark (HBM) program; and one site is part of the Georgia District water-quality monitoring network for small-to medium-sized watersheds in relatively undisturbed areas.

Surface-water quality during the 1988 water year was less representative of long-term conditions than that occurring in the 1986 and 1987 water years. The mean specific conductance values at the 15 sites were 4 to 56 percent higher than the long-term means. Notable increases (greater than 75 percent) relative to long-term means also occurred in the mean concentrations of total inorganic nitrogen at stations 02337170 and 02387050 and in the mean concentrations of total phosphorus at stations 02228000, 02318960, 02337170, and 02387050. The differences are attributed largely to a continuation of the drought that began in 1986 and, to a lesser extent, to increased urbanization and changes in land use.

## Water-quality profiles of the Chattahoochee River

Specific conductance (SC), total inorganic nitrogen (TIN), and total phosphorus (TP) measured in samples collected along a 450-mile reach of the Chattahoochee River during the 1988 water year are compared to statistical summaries of similar data collected during water years 1976-87 in figure 2. The maximum, median, and minimum values are shown for the 1988 data, whereas the 90th percentile, median, and 10th percentile values are shown for the 1976-87 data.

Station 02331600 (A) is in the headwaters of the Chattahoochee River drainage area upstream from Lake Lanier. Both historic and present-day median values for SC, TIN, and TP are low; these values are representative of surface-water quality in the Blue Ridge physiographic province of northeastern Georgia.

The downstream cyclic patterns of constituent concentrations between stations 02336502 (B) and 02344040 (H) (both historic and present-day water year data) show the combined effects of urban use, increased drainage area, and impoundment on river quality. Increases in median SC, TIN, and TP values between stations 02331600 (A) and 02337170 (C) most likely are attributed to discharge from waste-treatment facilities in the Atlanta metropolitan area. Increases in the concentrations of TIN and TP downstream from Atlanta were notably higher in 1988 than in 1987. The increases probably represent loss of dilution capacity due to the severe drought that affected most of the State. Median SC values remained relatively constant between stations 02338000 (D) and 02344040 (H); however, median TIN and TP values decreased between these stations. These decreases may be attributed to 1) dilution by increased 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, which is between stations 02338500 (E) and 02339500 (G), and 3) sedimentation of particulate phosphorus in West Point Lake.



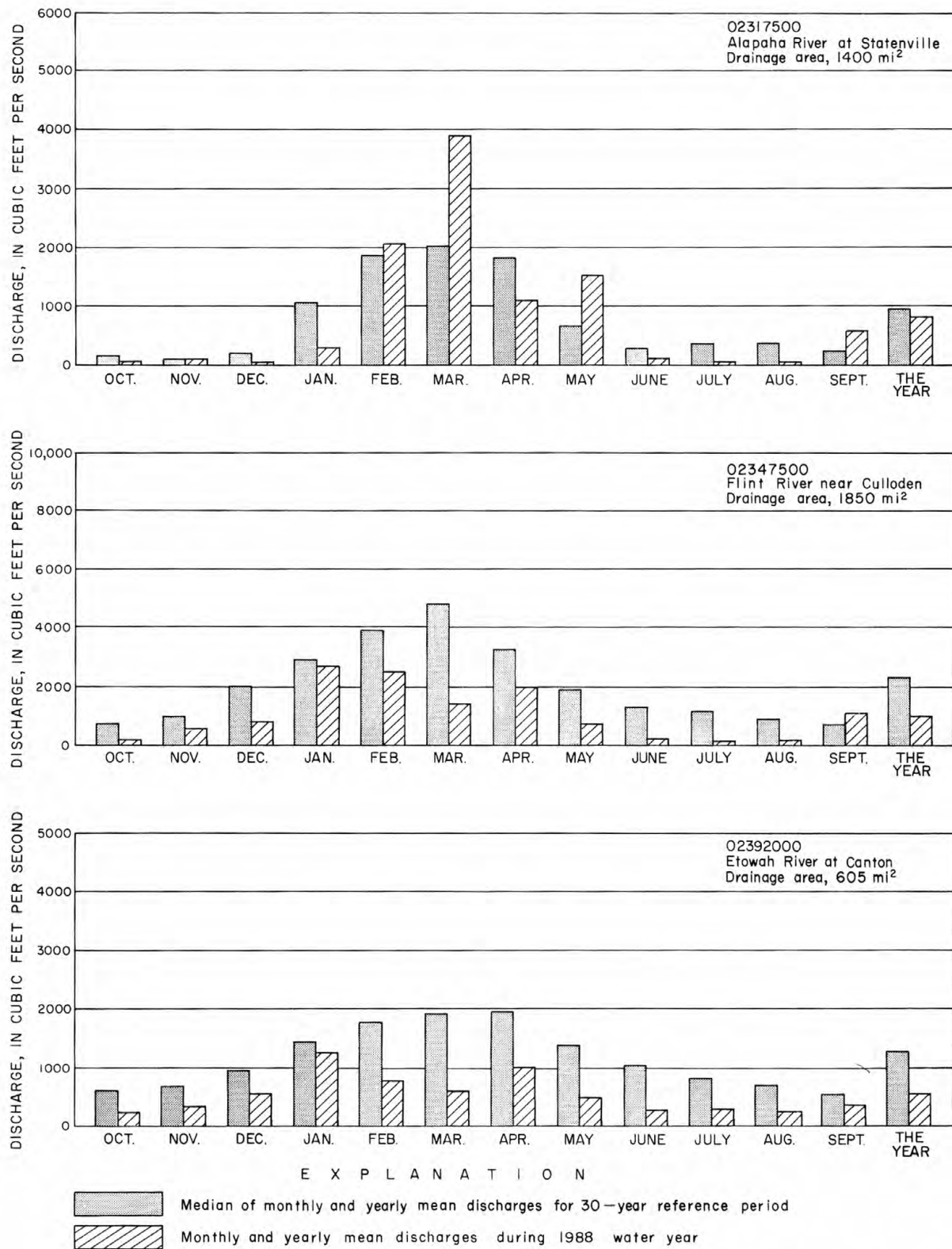


Figure 1.—Comparison of discharge at three representative long-term gaging stations during 1988 water year with median discharge for 30-year reference period.

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<br>and<br>location                               | Downstream<br>order<br>number | Sample<br>period<br>(water<br>years) | pH<br>(standard<br>units) |            | Specific<br>conductance<br>( $\mu$ S/cm at<br>25°C) |            | Alkalinity<br>(mg/L as<br>CaCO <sub>3</sub> ) |            | Nitrogen,<br>NO <sub>2</sub> +NO <sub>3</sub><br>total<br>(mg/L as N) |                  | Phosphorus,<br>total<br>(mg/L as P) |             | Carbon,<br>organic<br>total<br>(mg/L as C) |                  |
|---------------------------------------------------------|-------------------------------|--------------------------------------|---------------------------|------------|-----------------------------------------------------|------------|-----------------------------------------------|------------|-----------------------------------------------------------------------|------------------|-------------------------------------|-------------|--------------------------------------------|------------------|
|                                                         |                               |                                      | N                         | Mean       | N                                                   | Mean       | N                                             | Mean       | N                                                                     | Mean             | N                                   | Mean        | N                                          | Mean             |
| Chattooga River<br>near Clayton                         | 02177000                      | 1968-88<br>1988                      | 197<br>12                 | 6.6<br>6.8 | 185<br>12                                           | 14<br>15   | 174<br>12                                     | 5.4<br>5.7 | 178<br>12                                                             | 0.08<br>.09      | 182<br>12                           | 0.03<br>.02 | 155<br>11                                  | 2.4<br>3.5       |
| Ogeechee River<br>near Eden                             | 02202500                      | 1974-88<br>1988                      | 170<br>6                  | 6.5<br>7.3 | 161<br>6                                            | 79<br>117  | 147<br>6                                      | 24<br>35   | 83<br>0                                                               | .16<br>--d--     | 157<br>6                            | .05<br>.08  | 55<br>0                                    | 8.8<br>--d--     |
| Falling Creek<br>near Juliette                          | 02212600                      | 1968-88<br>1988                      | 185<br>3                  | 6.7<br>7.7 | 186<br>3                                            | 118<br>132 | 171<br>3                                      | 51<br>51   | 41<br>0                                                               | .14<br>--d--     | 130<br>3                            | .07<br>.02  | 30<br>0                                    | 3.6<br>--d--     |
| North Oconee River<br>at Athens                         | 02217740                      | 1974-88<br>1988                      | 160<br>11                 | 7.0<br>7.2 | 160<br>11                                           | 57<br>63   | 148<br>11                                     | 21<br>23   | 160<br>11                                                             | .40<br>.40       | 159<br>10                           | .04<br>.05  | 156<br>11                                  | 3.0<br>2.7       |
| Altamaha River<br>near Everett                          | 02226160                      | 1974-88<br>1988                      | 225<br>18                 | 6.8<br>7.3 | 230<br>18                                           | 131<br>202 | 214<br>18                                     | 30<br>44   | 189<br>16                                                             | .30<br>.41       | 222<br>18                           | .07<br>.08  | 168<br>11                                  | 8.7<br>9.2       |
| Satilla River<br>at Atkinson                            | 02228000                      | 1968-88<br>1988                      | 190<br>8                  | 4.9<br>5.6 | 183<br>8                                            | 57<br>73   | 168<br>8                                      | 4.3<br>7.1 | 124<br>6                                                              | .26<br>.38       | 181<br>8                            | .10<br>.18  | 104<br>4                                   | 19<br>16         |
| Suwannee River<br>at Fargo                              | 02314500                      | 1968-88<br>1988                      | 195<br>12                 | 4.1<br>4.0 | 181<br>12                                           | 56<br>65   | 125<br>11                                     | 1.1<br>1.0 | 167<br>12                                                             | .19<br>.11       | 179<br>12                           | .03<br>.03  | 151<br>10                                  | 39<br>42         |
| Withlacoochee River<br>near Clyattsville                | 02318960                      | 1975-88<br>1988                      | 162<br>12                 | 6.4<br>6.9 | 161<br>12                                           | 125<br>150 | 148<br>12                                     | 41<br>50   | 161<br>12                                                             | .37<br>.42       | 162<br>12                           | .18<br>.32  | 158<br>11                                  | 11<br>9.5        |
| Chattahoochee River<br>near Fairburn                    | 02337170                      | 1968-88<br>1988                      | 340<br>14                 | 6.5<br>6.8 | 371<br>14                                           | 83<br>130  | 183<br>14                                     | 21<br>25   | 370<br>12                                                             | 1.4<br>2.7       | 382<br>14                           | .48<br>.92  | 335<br>13                                  | 5.8<br>5.5       |
| Chattahoochee River<br>at Andrew's L&D<br>near Columbia | 02343801                      | 1983-88<br>1988                      | 36<br>6                   | 7.2<br>7.3 | 36<br>6                                             | 73<br>84   | 36<br>6                                       | 19<br>21   | 0<br>0                                                                | --na--<br>--na-- | 36<br>6                             | .04<br>.04  | 0<br>0                                     | --na--<br>--na-- |
| Kinchafoonee Creek<br>at Preston                        | 02350600                      | 1970-88<br>1988                      | 77<br>2                   | 6.5<br>7.1 | 70<br>2                                             | 33<br>36   | 71<br>2                                       | 9.4<br>9.5 | 67<br>2                                                               | .22<br>.30       | 71<br>2                             | .03<br>.03  | 64<br>2                                    | 4.6<br>4.8       |
| Flint River<br>at Albany                                | 02352500                      | 1968-88<br>1988                      | 112<br>4                  | 7.1<br>7.2 | 97<br>4                                             | 75<br>97   | 92<br>4                                       | 24<br>28   | 91<br>4                                                               | .36<br>.46       | 96<br>4                             | .08<br>.05  | 67<br>3                                    | 5.0<br>6.3       |
| Flint River<br>at Newton                                | 02353000                      | 1968-88<br>1988                      | 123<br>6                  | 7.3<br>7.7 | 96<br>6                                             | 110<br>146 | 92<br>6                                       | 40<br>52   | 64<br>2                                                               | .50<br>.55       | 96<br>6                             | .08<br>.10  | 31<br>0                                    | 4.5<br>--d--     |
| Conasauga River<br>near Dalton                          | 02384748                      | 1974-88<br>1988                      | 165<br>12                 | 7.4<br>7.5 | 164<br>12                                           | 104<br>108 | 152<br>12                                     | 46<br>47   | 162<br>12                                                             | .24<br>.21       | 162<br>12                           | .05<br>.03  | 159<br>11                                  | 3.4<br>2.7       |
| Conasauga River<br>near Resaca                          | 02387050                      | 1974-88<br>1988                      | 162<br>12                 | 7.3<br>7.4 | 161<br>12                                           | 172<br>247 | 150<br>12                                     | 61<br>73   | 161<br>12                                                             | .65<br>1.2       | 161<br>12                           | .70<br>1.4  | 158<br>11                                  | 6.5<br>9.3       |

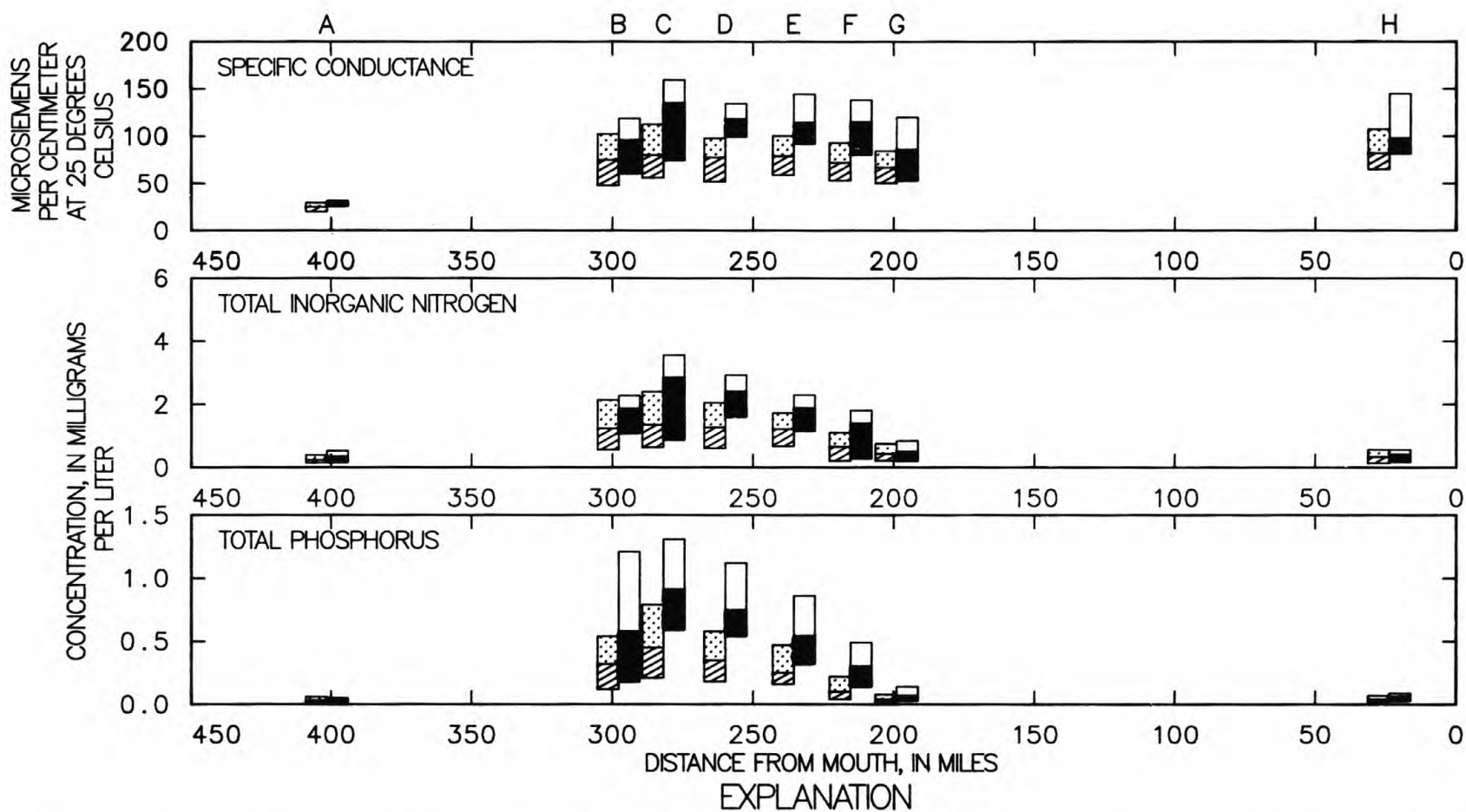


Figure 2.—River—reach profiles of specific conductance, total inorganic nitrogen, and total phosphorus for the Chattahoochee River.



The 1988 median values for SC, TIN, and TP were at or above the 1976-87 medians for all stations in the reach and were at or above the 90th percentile values for 1976-87 at stations 02337170 (C) through 02338720 (F). The higher values for 1988 probably are the result of below-normal streamflow in the basin and increased loading to the Chattahoochee River.

#### Water-quality profiles of the Ocmulgee and Altamaha Rivers

River-reach profiles of the Ocmulgee and Altamaha Rivers (fig. 3) show the effects of below-normal streamflow and waste-water discharge on river quality. Median SC values for 1988 were above the 1976-87 medians for the Ocmulgee River stations 02210500 (A) through 02215500 (E) and the Altamaha River stations 02225000 (F) through 02226160 (I). Municipal waste water discharged to the Ocmulgee River between stations 02212950 (B) and 02213700 (C) contributed to increased TIN and TP concentrations observed at stations 02213700 (C) and 02214265 (D). As with the Chattahoochee River, the generally declining TIN and TP concentrations downstream from station 02213700 (C) reflect the effects of both dilution by increased streamflow and uptake of nutrients by biota along the Ocmulgee and Altamaha Rivers.

#### Ground Water

During the 1988 water year, mean ground-water levels generally were lower than during the 1987 water year. A prolonged drought reduced ground-water recharge and resulted in increased ground-water withdrawals and lower water levels. Record low water levels were measured in seven wells during the summer of 1988. Mean water levels in some wells tapping the Floridan aquifer system in the Brunswick area, and the Clayton aquifer system in southwestern Georgia were higher in 1988 than in 1987. These higher levels primarily were attributed to decreased ground-water withdrawals in those areas.

In the southwestern part of the State, mean water levels in the Floridan aquifer system in the 1988 water year were from 2 to 6 feet lower than during the 1987 water year. With the exception of well 11P014 in Lee County, mean water levels in the Clayton aquifer were from 1 foot lower to 4 feet higher than in 1987. The mean water level in well 118014 was 38 feet higher than in 1987, and in May a record high water level was measured in this well.

Along the coast, mean water levels in the Floridan aquifer system were from 1 foot higher to 2 feet lower in the 1988 water year than in the 1987 water year. In Savannah, mean water levels in wells in the Floridan aquifer system were about the same to 1 foot lower than in 1987. In the Jesup-Riceboro area, mean water levels were from 1 to 2 feet lower than in 1987, and record lows were measured in five wells in August and September. Mean water levels in the Brunswick area were about 1 foot higher than in 1987. In the Okefenokee Swamp area, mean water levels in the Floridan aquifer system were about 2 feet lower than in 1987. Mean water levels in the shallow water-table aquifer at Savannah were about 1 foot lower than in 1987.

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 5 feet lower in the 1988 water year than in the 1987 water year. In July, a record low water level was measured in well 18H016 near Valdosta.

Mean water levels in the crystalline rock aquifers in northern Georgia were from about 1 to 2 feet lower in the 1988 water year than in the 1987 water year. In September, a record low water level was measured in well 10DD02 in the Atlanta area.

Additional information concerning water-level fluctuations in the State in calendar years 1987 and 1988 can be found in open-file reports entitled, "Ground-water data for Georgia, 1987," and "Ground-water data for Georgia, 1988."

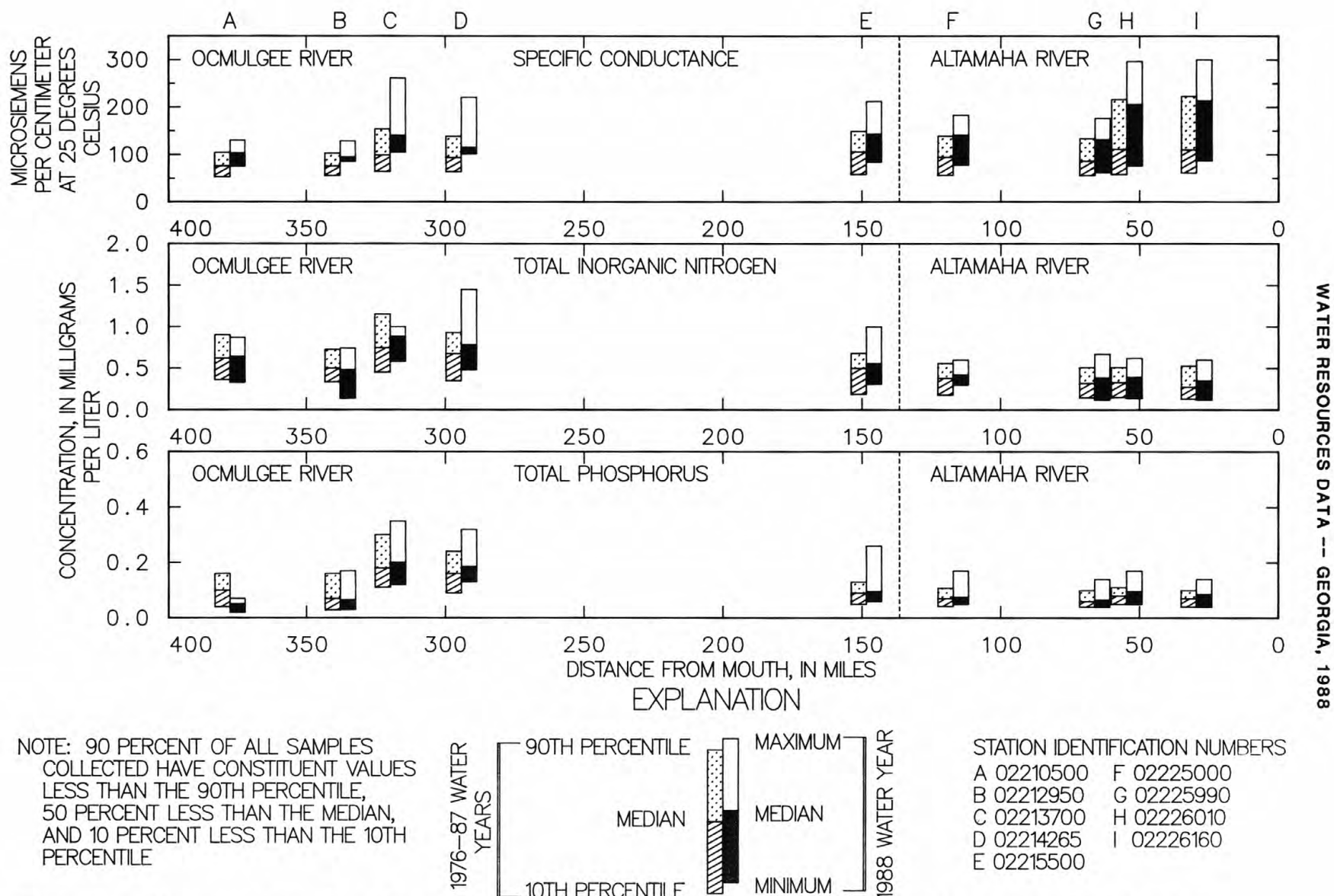


Figure 3.—River—reach profiles of specific conductance, total inorganic nitrogen, and total phosphorus for the Ocmulgee and Altamaha Rivers.

## 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 1988 water year that began on October 1, 1987, and ended September 30, 1988. 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.

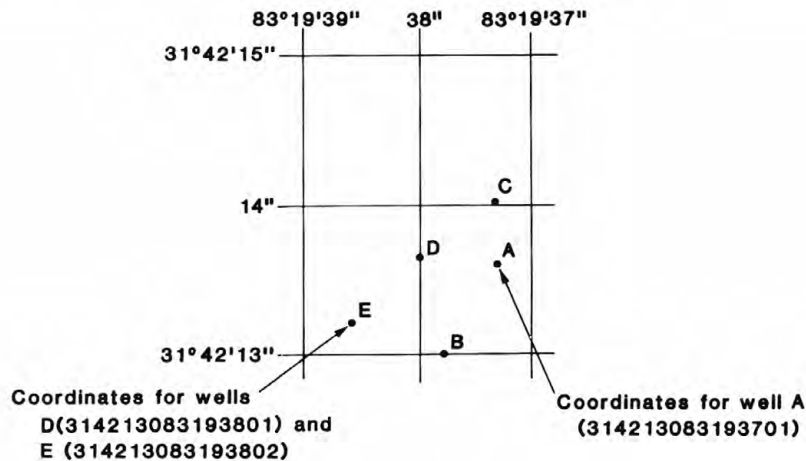


Figure 4.--System for numbering wells and other off-stream sites (latitude and longitude).

### 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 ft<sup>3</sup>/s; to the nearest tenth between 1.0 and 10 ft<sup>3</sup>/s; to the nearest whole numbers between 10 and 1,000 ft<sup>3</sup>/s; and to 3 significant figures for values more than 1,000 ft<sup>3</sup>/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 specific 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/m<sup>3</sup>), and periphyton and benthic organisms in grams per square meter (g/m<sup>2</sup>).

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<sup>3</sup>/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 [(ft<sup>3</sup>/s)/mi<sup>2</sup> 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  $\mu$ m membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

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 ( $\text{CaCO}_3$ ).

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 ( $\text{mg/L}$ ,  $\text{mg/L}$ ) 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  $\text{mg/L}$ , 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 ( $\text{m}^2$ ), 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 ( $1 \times 10^{-12}$ ) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields  $3.7 \times 10^{10}$  radioactive disintegrations per second (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) x discharge ( $\text{ft}^3/\text{s}$ ) x 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.
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- 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.
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- 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.
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- 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-B5. Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. The principle of superposition and its application in ground-water hydraulics, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-C1. Fluvial sediment concepts, by H.P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
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- 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.
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- 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.
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- 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.
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- 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.



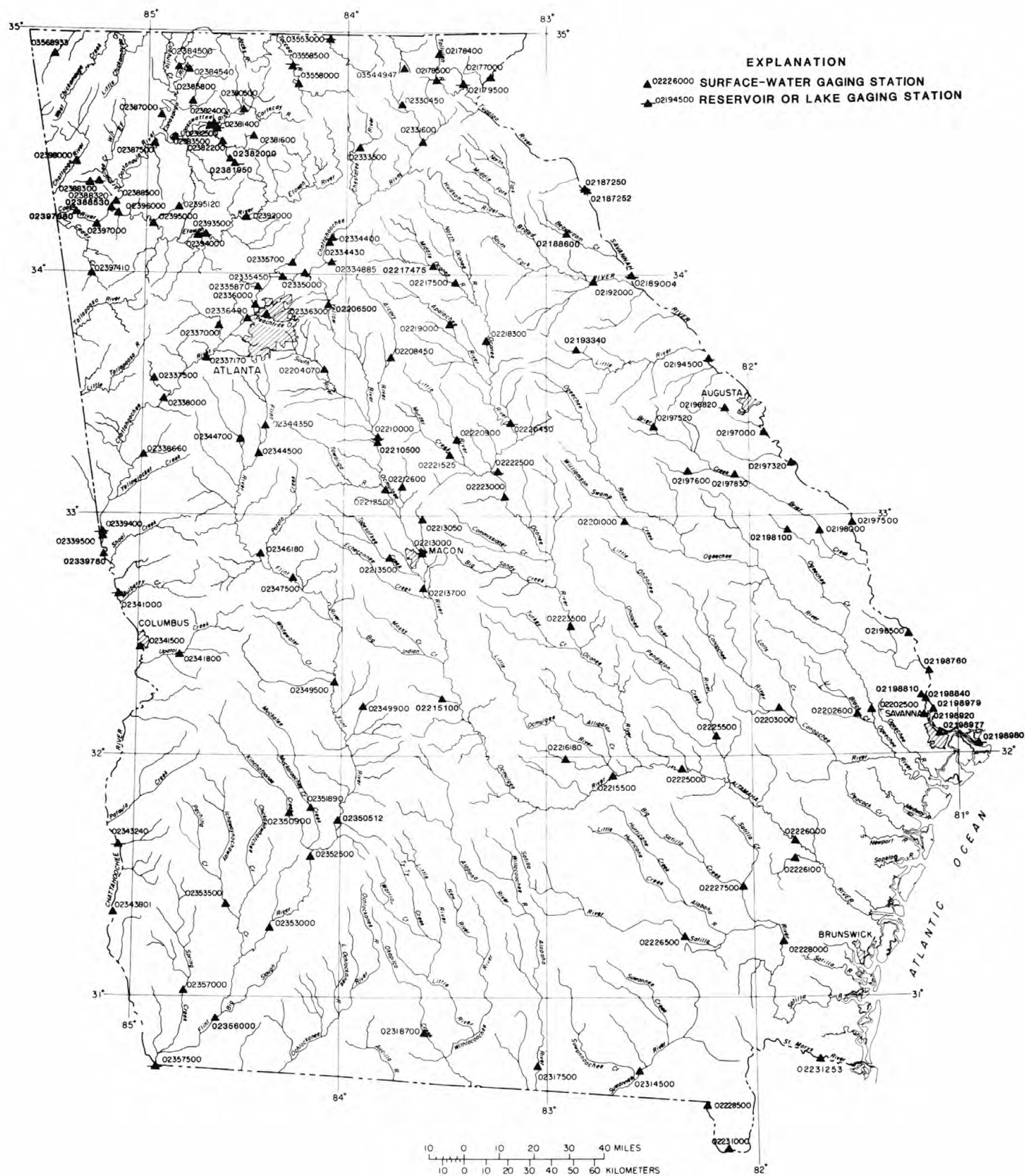


Figure 5.—Location of gaging stations.

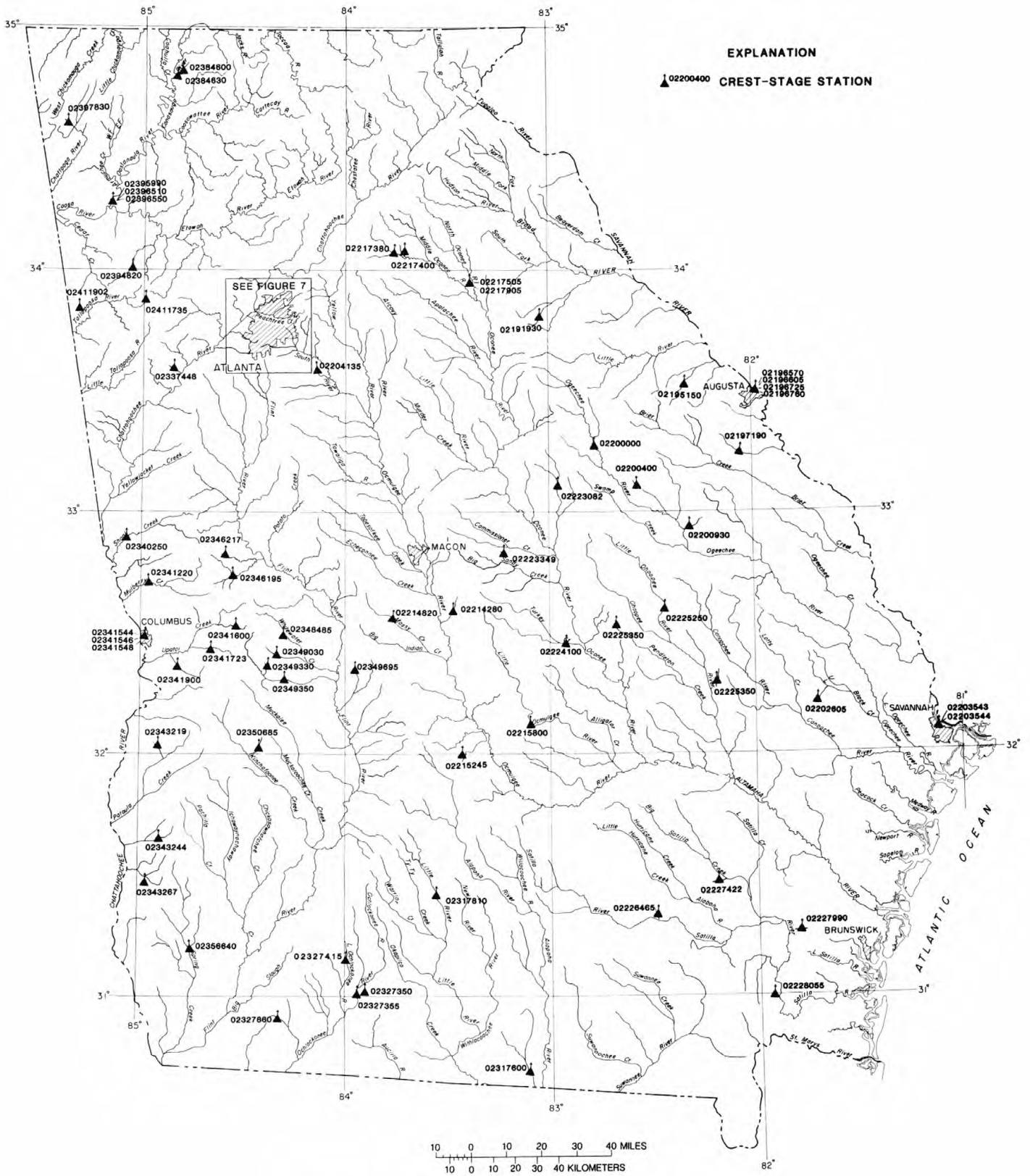
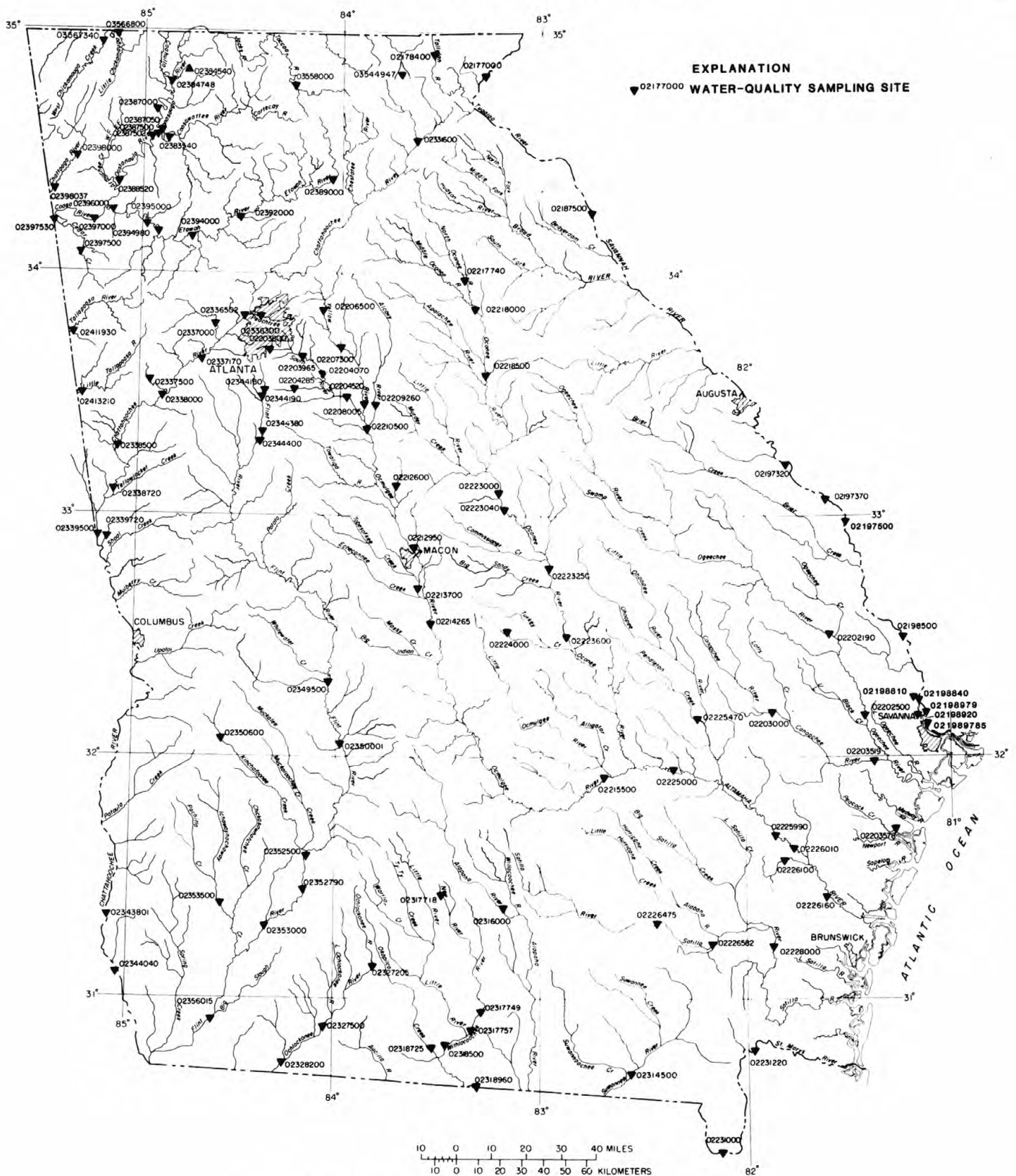


Figure 6.--Location of crest stage partial-record stations.

## WATER RESOURCES FOR GEORGIA, 1988



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





# WATER RESOURCES FOR GEORGIA, 1988

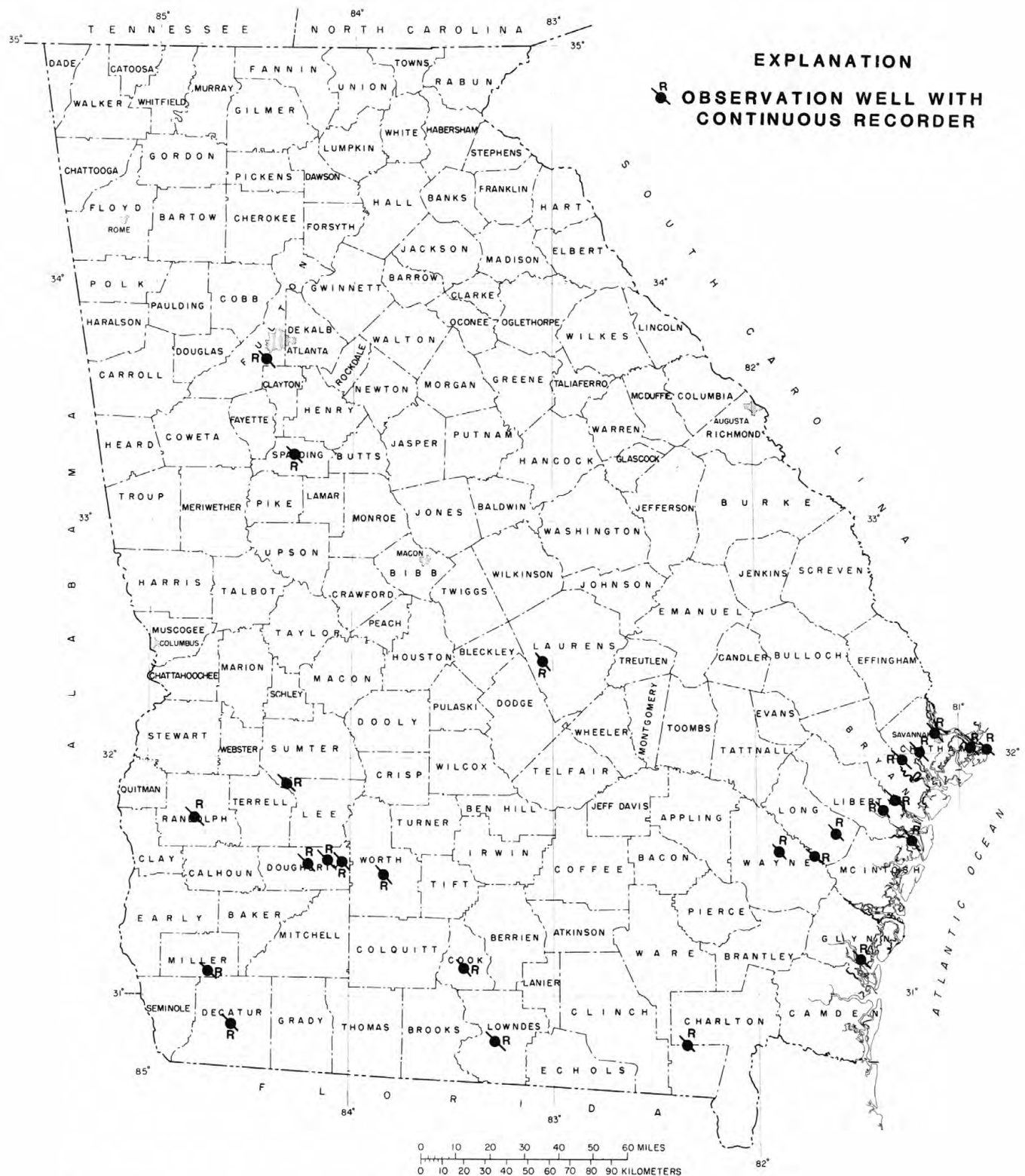


Figure 9.--Location of selected observation wells.

## 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 mi<sup>2</sup>.

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

AVERAGE DISCHARGE.--49 years (water years 1940-88), 646 ft<sup>3</sup>/s, 42.38 in/yr.

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

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20 | 0930 | *4,920                            | *4.85               | No other peak greater than base discharge. |      |                                   |                     |

Minimum discharge, 123 ft<sup>3</sup>/s, Sept. 2, 3, gage height, 0.90 ft.

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     | 290  | 162  | 277   | 460   | 510   | 363   | 350   | 411   | 242  | 310  | 185  | 139  |
| 2     | 220  | 159  | 258   | 485   | 566   | 356   | 395   | 401   | 237  | 207  | 200  | 127  |
| 3     | 206  | 159  | 242   | 444   | 739   | 354   | 445   | 391   | 228  | 233  | 182  | 131  |
| 4     | 192  | 159  | 233   | 469   | 895   | 390   | 1480  | 405   | 223  | 386  | 211  | 307  |
| 5     | 195  | 159  | 227   | 431   | 795   | 399   | 881   | 445   | 221  | 358  | 318  | 355  |
| 6     | 191  | 155  | 218   | 395   | 656   | 365   | 684   | 393   | 215  | 273  | 313  | 219  |
| 7     | 190  | 148  | 221   | 378   | 587   | 353   | 608   | 377   | 210  | 217  | 280  | 172  |
| 8     | 184  | 152  | 212   | 428   | 562   | 342   | 543   | 365   | 205  | 195  | 260  | 153  |
| 9     | 182  | 152  | 226   | 459   | 534   | 396   | 504   | 359   | 200  | 181  | 216  | 152  |
| 10    | 212  | 382  | 379   | 392   | 512   | 464   | 476   | 384   | 196  | 182  | 206  | 167  |
| 11    | 195  | 366  | 360   | 388   | 492   | 424   | 472   | 370   | 191  | 215  | 186  | 162  |
| 12    | 178  | 221  | 284   | 407   | 483   | 385   | 1490  | 346   | 188  | 269  | 336  | 156  |
| 13    | 178  | 191  | 258   | 378   | 452   | 492   | 1090  | 336   | 183  | 226  | 243  | 155  |
| 14    | 176  | 178  | 249   | 392   | 446   | 449   | 830   | 337   | 180  | 221  | 197  | 144  |
| 15    | 172  | 171  | 998   | 336   | 491   | 403   | 718   | 361   | 177  | 191  | 178  | 136  |
| 16    | 170  | 169  | 845   | 319   | 563   | 384   | 649   | 376   | 177  | 183  | 166  | 134  |
| 17    | 168  | 823  | 532   | 442   | 476   | 373   | 600   | 338   | 188  | 265  | 159  | 246  |
| 18    | 166  | 734  | 437   | 1050  | 455   | 374   | 605   | 317   | 225  | 254  | 153  | 447  |
| 19    | 166  | 414  | 389   | 1270  | 463   | 412   | 639   | 306   | 236  | 222  | 145  | 249  |
| 20    | 164  | 341  | 375   | 3110  | 485   | 373   | 579   | 300   | 318  | 190  | 232  | 207  |
| 21    | 170  | 288  | 388   | 1620  | 446   | 361   | 542   | 294   | 247  | 189  | 235  | 187  |
| 22    | 166  | 260  | 354   | 1120  | 423   | 350   | 519   | 289   | 205  | 305  | 200  | 166  |
| 23    | 162  | 244  | 325   | 909   | 420   | 342   | 502   | 286   | 187  | 392  | 170  | 152  |
| 24    | 163  | 234  | 322   | 793   | 411   | 341   | 527   | 315   | 181  | 319  | 163  | 149  |
| 25    | 162  | 227  | 481   | 736   | 394   | 378   | 481   | 342   | 206  | 227  | 154  | 160  |
| 26    | 162  | 227  | 490   | 665   | 383   | 534   | 468   | 291   | 295  | 202  | 142  | 147  |
| 27    | 182  | 265  | 486   | 603   | 380   | 410   | 456   | 273   | 200  | 235  | 135  | 138  |
| 28    | 203  | 300  | 703   | 570   | 376   | 374   | 434   | 267   | 178  | 240  | 131  | 133  |
| 29    | 178  | 376  | 663   | 548   | 367   | 361   | 423   | 261   | 169  | 270  | 132  | 129  |
| 30    | 166  | 314  | 524   | 527   | ---   | 355   | 414   | 252   | 178  | 223  | 132  | 128  |
| 31    | 162  | ---  | 464   | 512   | ---   | 353   | ---   | 245   | ---  | 209  | 136  | ---  |
| TOTAL | 5671 | 8130 | 12420 | 21036 | 14762 | 12010 | 18804 | 10433 | 6286 | 7589 | 6096 | 5447 |
| MEAN  | 183  | 271  | 401   | 679   | 509   | 387   | 627   | 337   | 210  | 245  | 197  | 182  |
| MAX   | 290  | 823  | 998   | 3110  | 895   | 534   | 1490  | 445   | 318  | 392  | 336  | 447  |
| MIN   | 162  | 148  | 212   | 319   | 367   | 341   | 350   | 245   | 169  | 181  | 131  | 127  |
| CFSM  | .88  | 1.31 | 1.94  | 3.28  | 2.46  | 1.87  | 3.03  | 1.63  | 1.01 | 1.18 | .95  | .88  |
| IN.   | 1.02 | 1.46 | 2.23  | 3.78  | 2.65  | 2.16  | 3.38  | 1.87  | 1.13 | 1.36 | 1.10 | .98  |

|             |       |        |          |          |         |           |          |
|-------------|-------|--------|----------|----------|---------|-----------|----------|
| CAL YR 1987 | TOTAL | 188299 | MEAN 516 | MAX 3440 | MIN 141 | CFSM 2.49 | IN 33.84 |
| WTR YR 1988 | TOTAL | 128684 | MEAN 352 | MAX 3110 | MIN 127 | CFSM 1.70 | IN 23.13 |



## 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1015 | 163                                             | 15                                                | 15                                                       | 6.60                           | 6.70                                  | 11.0                                 | 15.0                               | 10.8                                | 101                                                            |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1300 | 434                                             | 16                                                | 18                                                       | 7.00                           | 6.70                                  | 11.5                                 | 22.0                               | 10.4                                | 98                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1215 | 226                                             | 13                                                | 16                                                       | 6.90                           | 6.60                                  | 8.5                                  | 13.5                               | 10.7                                | 95                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1200 | 366                                             | 13                                                | 14                                                       | 6.80                           | 6.70                                  | 1.5                                  | 14.5                               | 13.4                                | 99                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1100 | 513                                             | 12                                                | 12                                                       | 6.60                           | 6.40                                  | 3.0                                  | 9.0                                | 12.7                                | 97                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1145 | 341                                             | 14                                                | 13                                                       | 6.90                           | 7.00                                  | 9.5                                  | 19.5                               | 11.2                                | 101                                                            |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1100 | 576                                             | 12                                                | 13                                                       | 6.80                           | 6.80                                  | 12.5                                 | 14.5                               | 10.0                                | 98                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1000 | 347                                             | 12                                                | 14                                                       | 7.00                           | 6.90                                  | 16.5                                 | 24.5                               | 9.5                                 | 100                                                            |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1030 | 174                                             | 14                                                | 15                                                       | 6.80                           | 7.00                                  | 22.0                                 | 29.0                               | 9.0                                 | 106                                                            |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1040 | 240                                             | 16                                                | 16                                                       | 7.20                           | 7.20                                  | 24.5                                 | 30.0                               | 8.2                                 | 102                                                            |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1250 | 217                                             | 16                                                | 16                                                       | 7.60                           | 7.00                                  | 27.0                                 | 34.0                               | 8.0                                 | 104                                                            |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1230 | 145                                             | 19                                                | 18                                                       | 7.30                           | 7.10                                  | 24.0                                 | 28.0                               | 9.1                                 | 112                                                            |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 14... | <1.0                         | 0.8                                                            | 50                                               | 7                                                             | <1                                                               | <0.020                                               | 0.050                                                | <0.020                                      | 1.9                                           |
| NOV   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 09... | 2.0                          | 0.1                                                            | <20                                              | 8                                                             | <1                                                               | <0.020                                               | <0.020                                               | <0.020                                      | 1.8                                           |
| DEC   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 09... | 1.0                          | --                                                             | <20                                              | 6                                                             | 1                                                                | 0.030                                                | 0.030                                                | <0.020                                      | 1.4                                           |
| JAN   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 13... | 2.0                          | 1.4                                                            | <20                                              | 5                                                             | 3                                                                | 0.060                                                | 0.040                                                | <0.020                                      | --                                            |
| FEB   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 10... | 2.0                          | 0.6                                                            | 35                                               | 4                                                             | 1                                                                | 0.040                                                | <0.020                                               | <0.020                                      | <1.0                                          |
| MAR   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 08... | 5.0                          | 0.7                                                            | --                                               | 5                                                             | 1                                                                | 0.030                                                | 0.040                                                | <0.020                                      | 1.3                                           |
| APR   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 20... | 4.0                          | 1.1                                                            | 20                                               | 5                                                             | 1                                                                | 0.030                                                | <0.020                                               | <0.020                                      | 1.4                                           |
| MAY   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 12... | 4.0                          | 0.8                                                            | <20                                              | 4                                                             | --                                                               | 0.030                                                | 0.040                                                | <0.020                                      | 11                                            |
| JUN   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 15... | 4.0                          | 1.3                                                            | <20                                              | 5                                                             | 9                                                                | 0.040                                                | 0.130                                                | <0.020                                      | 12                                            |
| JUL   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 12... | 5.0                          | 0.8                                                            | 80                                               | 6                                                             | 4                                                                | 0.040                                                | 0.160                                                | 0.020                                       | 2.4                                           |
| AUG   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 10... | 4.0                          | 1.2                                                            | 20                                               | 6                                                             | 4                                                                | <0.020                                               | 0.090                                                | <0.020                                      | 2.9                                           |
| SEP   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 14... | 1.0                          | 1.0                                                            | 45                                               | 7                                                             | <1                                                               | 0.020                                                | <0.030                                               | <0.020                                      | 1.8                                           |

## SAVANNAH RIVER BASIN

35

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 mi<sup>2</sup>.

## 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.--24 years, 186 ft<sup>3</sup>/s, 44.71 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft<sup>3</sup>/s, May 28, 1973, gage height, 12.00 ft; minimum discharge, 27 ft<sup>3</sup>/s, Oct. 8, 1986.

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

| Date                                                | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|-----------------------------------------------------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20                                             | 0400 | *2,110                            | *6.08               | No other peak greater than base discharge. |      |                                   |                     |
| Minimum discharge, 37 ft <sup>3</sup> /s, Nov. 5-9. |      |                                   |                     |                                            |      |                                   |                     |

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     | 50   | 39   | 68   | 130  | 122  | 86   | 100  | 108  | 70   | 58   | 46   | 47   |
| 2     | 46   | 39   | 65   | 125  | 163  | 85   | 108  | 106  | 65   | 49   | 56   | 45   |
| 3     | 43   | 39   | 62   | 117  | 189  | 87   | 155  | 103  | 63   | 109  | 54   | 53   |
| 4     | 43   | 39   | 60   | 127  | 291  | 108  | 308  | 109  | 62   | 85   | 202  | 232  |
| 5     | 43   | 39   | 58   | 110  | 235  | 93   | 209  | 103  | 60   | 74   | 192  | 139  |
| 6     | 42   | 37   | 57   | 102  | 193  | 89   | 188  | 97   | 58   | 61   | 157  | 94   |
| 7     | 41   | 37   | 56   | 142  | 169  | 87   | 163  | 95   | 57   | 53   | 170  | 79   |
| 8     | 40   | 38   | 55   | 145  | 156  | 85   | 145  | 92   | 55   | 49   | 118  | 71   |
| 9     | 41   | 38   | 57   | 91   | 146  | 106  | 132  | 97   | 54   | 47   | 92   | 78   |
| 10    | 41   | 168  | 74   | 87   | 136  | 123  | 125  | 95   | 54   | 52   | 78   | 71   |
| 11    | 40   | 70   | 62   | 89   | 129  | 104  | 127  | 90   | 52   | 75   | 105  | 68   |
| 12    | 40   | 57   | 59   | 86   | 126  | 100  | 515  | 86   | 51   | 66   | 106  | 74   |
| 13    | 40   | 53   | 57   | 105  | 115  | 156  | 300  | 93   | 50   | 62   | 80   | 70   |
| 14    | 40   | 50   | 63   | 94   | 113  | 125  | 239  | 105  | 48   | 60   | 70   | 62   |
| 15    | 39   | 49   | 194  | 86   | 134  | 113  | 207  | 111  | 48   | 54   | 68   | 58   |
| 16    | 39   | 49   | 121  | 85   | 119  | 107  | 186  | 117  | 52   | 66   | 67   | 58   |
| 17    | 38   | 292  | 95   | 161  | 110  | 102  | 170  | 96   | 56   | 63   | 70   | 168  |
| 18    | 38   | 141  | 85   | 277  | 107  | 104  | 184  | 90   | 52   | 54   | 61   | 133  |
| 19    | 38   | 97   | 78   | 473  | 117  | 103  | 191  | 86   | 55   | 48   | 70   | 102  |
| 20    | 42   | 83   | 85   | 1200 | 111  | 95   | 169  | 84   | 56   | 45   | 142  | 91   |
| 21    | 43   | 72   | 81   | 477  | 104  | 92   | 158  | 81   | 54   | 75   | 90   | 82   |
| 22    | 40   | 67   | 76   | 319  | 99   | 90   | 150  | 79   | 48   | 89   | 78   | 72   |
| 23    | 40   | 63   | 71   | 250  | 99   | 87   | 146  | 85   | 46   | 164  | 72   | 68   |
| 24    | 40   | 60   | 80   | 211  | 97   | 87   | 141  | 92   | 46   | 80   | 69   | 66   |
| 25    | 40   | 59   | 114  | 194  | 94   | 118  | 131  | 86   | 98   | 63   | 62   | 70   |
| 26    | 40   | 74   | 103  | 169  | 92   | 114  | 128  | 77   | 76   | 60   | 58   | 61   |
| 27    | 50   | 87   | 126  | 150  | 92   | 99   | 123  | 74   | 52   | 59   | 53   | 59   |
| 28    | 43   | 79   | 194  | 140  | 90   | 94   | 117  | 72   | 49   | 54   | 52   | 57   |
| 29    | 40   | 78   | 167  | 133  | 88   | 92   | 114  | 70   | 46   | 54   | 52   | 55   |
| 30    | 40   | 72   | 134  | 127  | ---  | 91   | 111  | 68   | 63   | 55   | 50   | 54   |
| 31    | 40   | ---  | 116  | 124  | ---  | 88   | ---  | 70   | ---  | 48   | 50   | ---  |
| TOTAL | 1280 | 2165 | 2773 | 6126 | 3836 | 3110 | 5240 | 2817 | 1696 | 2031 | 2690 | 2437 |
| MEAN  | 41.3 | 72.2 | 89.5 | 198  | 132  | 100  | 175  | 90.9 | 56.5 | 65.5 | 86.8 | 81.2 |
| MAX   | 50   | 292  | 194  | 1200 | 291  | 156  | 515  | 117  | 98   | 164  | 202  | 232  |
| MIN   | 38   | 37   | 55   | 85   | 88   | 85   | 100  | 68   | 46   | 45   | 46   | 45   |
| CFSM  | .73  | 1.28 | 1.58 | 3.50 | 2.34 | 1.77 | 3.10 | 1.61 | 1.00 | 1.16 | 1.54 | 1.44 |
| IN.   | .84  | 1.43 | 1.83 | 4.03 | 2.53 | 2.05 | 3.45 | 1.85 | 1.12 | 1.34 | 1.77 | 1.60 |

|             |       |       |      |      |     |      |     |    |      |      |    |       |
|-------------|-------|-------|------|------|-----|------|-----|----|------|------|----|-------|
| CAL YR 1987 | TOTAL | 45735 | MEAN | 125  | MAX | 989  | MIN | 37 | CFSM | 2.21 | IN | 30.11 |
| WTR YR 1988 | TOTAL | 36201 | MEAN | 98.9 | MAX | 1200 | MIN | 37 | CFSM | 1.75 | IN | 23.83 |

## SAVANNAH RIVER BASIN

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

## WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: September 1964 to 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 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|
| APR 04... | 1340 | 290                                             | 16                                                | 17                                                       | 6.85                           | 7.30                                  | 14.0                                 | 9.5                                 | 98                                                             |
| JUL 19... | 1200 | 50                                              | 21                                                | 23                                                       | 7.00                           | 7.30                                  | 21.5                                 | 8.0                                 | 96                                                             |

| DATE      | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CACO3 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>WAT,DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|-----------|----------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|
| APR 04... | 4                                            | 2.1                          | 5                                               | 0                                                                 | 1.3                                          | 0.44                                                 | 1.4                                          | 35                                      | 0.3                                                 | 0.50                                                      |
| JUL 19... | 11                                           | 1.4                          | 7                                               | 0                                                                 | 1.7                                          | 0.55                                                 | 1.5                                          | 31                                      | 0.3                                                 | 0.60                                                      |

| DATE      | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) |
|-----------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
| APR 04... | 2.8                                           | 0.70                                                | 0.10                                               | 6.6                                               | 17                                                                 | 14                                                             | 13.3                                              | 0.02                                                | <0.100                                                        | --                                                            | 0.010                                                | 0.080                                                         |
| JUL 19... | 1.5                                           | 0.70                                                | 0.20                                               | 10                                                | 22                                                                 | 18                                                             | 2.97                                              | 0.03                                                | 0.100                                                         | 0.180                                                         | <0.010                                               | <0.010                                                        |

| DATE      | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) |
|-----------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|-------------------------------------|----------------------------------------------|
| APR 04... | 2.8                                                  | 0.12                                                          | 2.8                                                                | 0.20                                                              | --                                        | --                                                 | 0.080                                       | 0.010                                                | 2.8                                           | 30                                                  | <1                                  | <1                                           |
| JUL 19... | --                                                   | --                                                            | 0.40                                                               | <0.20                                                             | 0.50                                      | --                                                 | 0.010                                       | 0.010                                                | 1.5                                           | 30                                                  | <1                                  | <1                                           |

| DATE      | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|-----------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------|
| APR 04... | <1                                           | <1                                                  | 1                                            | 3                                          | <5                                                    | <5                                         | 4                                                    | <0.10                                                   | <0.1                                         | <1                                                  | 3                                          |
| JUL 19... | <1                                           | <1                                                  | <1                                           | 55                                         | --                                                    | <5                                         | 6                                                    | <0.10                                                   | <0.1                                         | <1                                                  | 4                                          |

## SAVANNAH RIVER BASIN

37

## 02187252 SAVANNAH RIVER BELOW HARTWELL LAKE NEAR HARTWELL, GA.

LOCATION.--Lat 34°21'15", long 82°48'55", Anderson County, S.C., Hydrologic Unit 03060103, on left bank at Highway 29, 6.8 mi east of Hartwell], and at mile 304.5.

DRAINAGE AREA.--2,090 mi<sup>2</sup>, approximately.

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

GAGE.--Water-stage recorder. Elevation of gage is 480 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: July 9-14. Records fair, except those below 1,000 ft<sup>3</sup>/s, and those for the period of estimated daily discharges, July 9-14, which are poor. Flow regulated by Lake Burton, Mathis Reservoir, and Hartwell Lake. (See "Lakes and Reservoirs in Savannah River Basin, stations 02188500, 02179500, and 02187250).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,300 ft<sup>3</sup>/s, Jan. 21, 1985, gage height, 12.63; minimum daily discharge, 63 ft<sup>3</sup>/s, Nov. 18, 1984, Mar. 16, 23, Dec. 14, 1986, Jan. 4, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,500 ft<sup>3</sup>/s, Oct. 13; gage height, 12.53; minimum daily discharge, 66 ft<sup>3</sup>/s, Feb. 7.

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     | 5320   | 112   | 5810   | 2180   | 2060  | 3180  | 2990  | 128   | 3420  | 2960  | 3200  | 2920  |
| 2     | 3830   | 5480  | 3870   | 102    | 1390  | 3230  | 140   | 3070  | 2390  | 137   | 3170  | 2930  |
| 3     | 127    | 5510  | 4840   | 1030   | 5640  | 3130  | 128   | 1620  | 3640  | 137   | 3170  | 116   |
| 4     | 124    | 5510  | 3860   | 4810   | 2760  | 3120  | 3030  | 3020  | 128   | 3040  | 3150  | 108   |
| 5     | 5380   | 5520  | 106    | 6170   | 3500  | 147   | 5090  | 2980  | 128   | 3030  | 3120  | 2900  |
| 6     | 7080   | 5970  | 104    | 4810   | 2180  | 147   | 3610  | 2980  | 3930  | 3020  | 125   | 2020  |
| 7     | 7540   | 113   | 4400   | 6350   | 66    | 4280  | 3650  | 138   | 4070  | 3050  | 112   | 2180  |
| 8     | 5600   | 104   | 4420   | 5360   | 2740  | 3080  | 3650  | 125   | 5270  | 3030  | 3160  | 4630  |
| 9     | 6430   | 6510  | 4450   | 2490   | 2760  | 3180  | 147   | 2080  | 3930  | 122   | 3170  | 4530  |
| 10    | 1040   | 6320  | 4480   | 115    | 2800  | 5900  | 147   | 2090  | 3920  | 122   | 3190  | 112   |
| 11    | 131    | 7540  | 4520   | 6130   | 2770  | 3830  | 4150  | 2090  | 120   | 3400  | 3180  | 112   |
| 12    | 7840   | 7850  | 106    | 6990   | 2910  | 151   | 5610  | 2070  | 120   | 3200  | 3170  | 3030  |
| 13    | 11300  | 2740  | 100    | 6140   | 156   | 144   | 4040  | 2070  | 2980  | 3200  | 118   | 1970  |
| 14    | 6040   | 112   | 4030   | 7480   | 153   | 2990  | 3060  | 138   | 2940  | 4000  | 112   | 1980  |
| 15    | 5170   | 104   | 2820   | 7690   | 3580  | 3700  | 3100  | 135   | 2980  | 3040  | 2920  | 3090  |
| 16    | 5170   | 5680  | 5430   | 949    | 3240  | 4040  | 92    | 2980  | 2920  | 131   | 3190  | 3150  |
| 17    | 129    | 3210  | 5910   | 110    | 3210  | 3260  | 129   | 2970  | 2920  | 123   | 3320  | 120   |
| 18    | 128    | 1810  | 6760   | 3460   | 3070  | 2980  | 2300  | 2960  | 93    | 2910  | 2910  | 128   |
| 19    | 4980   | 1820  | 124    | 1940   | 3060  | 149   | 2310  | 2970  | 91    | 2110  | 2860  | 3000  |
| 20    | 4540   | 3190  | 108    | 1950   | 177   | 144   | 2290  | 2960  | 6900  | 2090  | 112   | 3010  |
| 21    | 5020   | 97    | 5330   | 1940   | 154   | 2660  | 2320  | 120   | 2660  | 2870  | 112   | 3000  |
| 22    | 5000   | 97    | 4440   | 6600   | 4540  | 2600  | 2320  | 125   | 1760  | 2890  | 2730  | 3070  |
| 23    | 5010   | 3850  | 4400   | 105    | 2550  | 5110  | 139   | 3010  | 1680  | 121   | 2720  | 3060  |
| 24    | 120    | 3810  | 5350   | 105    | 2600  | 4280  | 125   | 3040  | 1680  | 120   | 2740  | 122   |
| 25    | 114    | 3800  | 2840   | 3160   | 3160  | 2250  | 3890  | 2420  | 80    | 3900  | 2750  | 116   |
| 26    | 4150   | 2620  | 109    | 3130   | 2960  | 91    | 1780  | 2420  | 84    | 2860  | 2750  | 3040  |
| 27    | 4190   | 2190  | 99     | 3520   | 163   | 82    | 3430  | 2420  | 2910  | 2860  | 122   | 3020  |
| 28    | 4460   | 91    | 6990   | 3620   | 163   | 2580  | 1810  | 137   | 1430  | 2880  | 120   | 3010  |
| 29    | 3200   | 94    | 6180   | 3150   | 3110  | 1500  | 1820  | 137   | 2880  | 2860  | 2920  | 3030  |
| 30    | 3170   | 4500  | 2450   | 113    | ---   | 1510  | 128   | 3040  | 2940  | 127   | 2010  | 3010  |
| 31    | 120    | ---   | 2180   | 113    | ---   | 1500  | ---   | 4150  | ---   | 120   | 2040  | ---   |
| TOTAL | 122453 | 96354 | 106616 | 101812 | 67622 | 74945 | 67425 | 60593 | 70994 | 64460 | 68473 | 66514 |
| MEAN  | 3950   | 3212  | 3439   | 3284   | 2332  | 2418  | 2248  | 1955  | 2366  | 2079  | 2209  | 2217  |
| MAX   | 11300  | 7850  | 6990   | 7690   | 5640  | 5900  | 5610  | 4150  | 6900  | 4000  | 3320  | 4630  |
| MIN   | 114    | 91    | 99     | 102    | 66    | 82    | 92    | 120   | 80    | 120   | 112   | 108   |

CAL YR 1987 TOTAL 1279463 MEAN 3505 MAX 11500 MIN 63 MEAN† 3334 CFSM† 1.60 INT† 21.67  
WTR YR 1988 TOTAL 968261 MEAN 2646 MAX 11300 MIN 66 MEAN† 2254 CFSM† 1.08 INT† 14.69

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



## 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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV<br>09... | 1115 | 37                                                | 36                                                       | 6.80                           | 6.60                                  | 16.0                                 | 20.5                               | 6.5                                 | 66                                                             |
| MAR<br>08... | 1400 | 36                                                | 35                                                       | 7.20                           | 7.20                                  | 10.5                                 | 21.0                               | 10.8                                | 98                                                             |
| JUN<br>15... | 1250 | 38                                                | 37                                                       | 7.10                           | 7.10                                  | 26.0                                 | 29.0                               | 8.8                                 | 109                                                            |
| AUG<br>10... | 1040 | 40                                                | 39                                                       | 7.10                           | 7.50                                  | 30.0                                 | 32.0                               | 7.9                                 | 106                                                            |
| SEP<br>14... | 1020 | 43                                                | 39                                                       | 7.10                           | 7.40                                  | 26.0                                 | 27.0                               | 9.0                                 | 113                                                            |

| DATE         | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) |
|--------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|
| NOV<br>09... | 3.0                          | 1.1                                                            | <20                                              | 8                                                               | 0.030                                                | 0.060                                                | <0.020                                      | 1.7                                           | 420                                                   | 250                                                             |
| MAR<br>08... | 6.0                          | 0.6                                                            | --                                               | 13                                                              | 0.120                                                | 0.040                                                | <0.020                                      | 1.6                                           | 150                                                   | 21                                                              |
| JUN<br>15... | 5.0                          | 1.2                                                            | <20                                              | 11                                                              | 0.040                                                | 0.100                                                | <0.020                                      | 1.5                                           | 980                                                   | 120                                                             |
| AUG<br>10... | 3.0                          | 1.2                                                            | <20                                              | 14                                                              | <0.020                                               | 0.040                                                | <0.020                                      | 3.6                                           | --                                                    | --                                                              |
| SEP<br>14... | 2.0                          | 1.5                                                            | <20                                              | 12                                                              | 0.020                                                | <0.030                                               | <0.020                                      | 3.3                                           | 1800                                                  | 220                                                             |

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 north-northwest of Elbertgn.

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

REMARKS.--Estimated daily discharges: Jan. 18 to Feb. 14, Aug. 6-10. Records good, except those for periods of estimated daily discharge, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft<sup>3</sup>/s and maximum (\*):

Minimum daily discharge, 7.2 ft<sup>3</sup>/s, July 14.

| DAY         | OCT   | NOV     | DEC  | JAN       | FEB      | MAR     | APR       | MAY      | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|---------|------|-----------|----------|---------|-----------|----------|-------|-------|-------|-------|
| 1           | 13    | 19      | 28   | 46        | 50       | 46      | 48        | 38       | 19    | 10    | 8.3   | 8.7   |
| 2           | 12    | 20      | 27   | 57        | 50       | 45      | 47        | 36       | 18    | 9.9   | 7.9   | 8.8   |
| 3           | 11    | 20      | 26   | 69        | 75       | 45      | 47        | 34       | 17    | 11    | 7.6   | 8.7   |
| 4           | 10    | 21      | 27   | 89        | 180      | 46      | 49        | 35       | 16    | 12    | 7.5   | 15    |
| 5           | 11    | 21      | 27   | 73        | 350      | 47      | 49        | 48       | 14    | 14    | 71    | 46    |
| 6           | 11    | 21      | 27   | 57        | 200      | 46      | 45        | 43       | 13    | 15    | 51    | 28    |
| 7           | 11    | 20      | 25   | 53        | 130      | 44      | 44        | 39       | 13    | 14    | 33    | 15    |
| 8           | 11    | 20      | 25   | 63        | 98       | 44      | 41        | 36       | 13    | 11    | 24    | 11    |
| 9           | 11    | 21      | 25   | 57        | 84       | 47      | 39        | 34       | 14    | 9.3   | 17    | 17    |
| 10          | 11    | 34      | 30   | 50        | 76       | 65      | 38        | 33       | 15    | 8.3   | 14    | 22    |
| 11          | 12    | 52      | 33   | 48        | 70       | 62      | 41        | 33       | 14    | 7.6   | 15    | 19    |
| 12          | 12    | 37      | 31   | 47        | 64       | 54      | 316       | 34       | 13    | 7.3   | 14    | 18    |
| 13          | 13    | 30      | 28   | 50        | 60       | 57      | 170       | 32       | 12    | 7.3   | 13    | 17    |
| 14          | 13    | 27      | 27   | 54        | 57       | 55      | 110       | 31       | 11    | 7.2   | 12    | 15    |
| 15          | 13    | 25      | 44   | 50        | 55       | 51      | 84        | 29       | 11    | 7.4   | 11    | 13    |
| 16          | 13    | 28      | 54   | 49        | 54       | 49      | 72        | 28       | 11    | 7.3   | 9.9   | 12    |
| 17          | 14    | 34      | 41   | 49        | 53       | 47      | 64        | 28       | 10    | 8.1   | 9.7   | 20    |
| 18          | 14    | 48      | 34   | 90        | 52       | 47      | 68        | 29       | 9.5   | 10    | 9.3   | 37    |
| 19          | 13    | 39      | 32   | 180       | 53       | 54      | 78        | 29       | 14    | 10    | 9.1   | 31    |
| 20          | 13    | 33      | 31   | 380       | 55       | 53      | 73        | 28       | 13    | 9.0   | 8.9   | 24    |
| 21          | 14    | 29      | 34   | 200       | 54       | 52      | 61        | 26       | 12    | 8.8   | 8.6   | 22    |
| 22          | 13    | 27      | 48   | 140       | 51       | 49      | 56        | 24       | 11    | 12    | 11    | 18    |
| 23          | 13    | 26      | 46   | 115       | 50       | 47      | 54        | 24       | 10    | 11    | 9.5   | 16    |
| 24          | 16    | 25      | 39   | 98        | 50       | 46      | 56        | 24       | 9.2   | 12    | 9.4   | 14    |
| 25          | 18    | 26      | 50   | 88        | 49       | 48      | 56        | 27       | 9.2   | 11    | 9.2   | 14    |
| 26          | 18    | 28      | 49   | 80        | 48       | 66      | 54        | 28       | 12    | 9.7   | 9.0   | 13    |
| 27          | 21    | 32      | 44   | 72        | 47       | 58      | 49        | 25       | 13    | 8.6   | 8.9   | 13    |
| 28          | 23    | 33      | 63   | 65        | 47       | 53      | 45        | 24       | 12    | 8.2   | 8.7   | 12    |
| 29          | 22    | 33      | 83   | 60        | 47       | 51      | 41        | 22       | 11    | 8.7   | 9.4   | 12    |
| 30          | 20    | 30      | 58   | 56        | ---      | 50      | 39        | 21       | 9.8   | 8.5   | 9.0   | 11    |
| 31          | 20    | ---     | 49   | 52        | ---      | 49      | ---       | 19       | ---   | 8.3   | 8.7   | ---   |
| TOTAL       | 440   | 859     | 1185 | 2637      | 2309     | 1573    | 2034      | 941      | 379.7 | 302.5 | 454.6 | 531.2 |
| MEAN        | 14.2  | 28.6    | 38.2 | 85.1      | 79.6     | 50.7    | 67.8      | 30.4     | 12.7  | 9.76  | 14.7  | 17.7  |
| MAX         | 23    | 52      | 83   | 380       | 350      | 66      | 316       | 48       | 19    | 15    | 71    | 46    |
| MIN         | 10    | 19      | 25   | 46        | 47       | 44      | 38        | 19       | 9.2   | 7.2   | 7.5   | 8.7   |
| CFSM        | .20   | .40     | .53  | 1.18      | 1.11     | .70     | .94       | .42      | .18   | .14   | .20   | .25   |
| IN.         | .23   | .44     | .61  | 1.36      | 1.19     | .81     | 1.05      | .49      | .20   | .16   | .23   | .27   |
| CAL YR 1987 | TOTAL | 28408.0 |      | MEAN 77.8 | MAX 1260 | MIN 10  | CFSM 1.08 | IN 14.68 |       |       |       |       |
| WTR YR 1988 | TOTAL | 13646.0 |      | MEAN 37.3 | MAX 380  | MIN 7.2 | CFSM .52  | IN 7.05  |       |       |       |       |

## 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 mi<sup>2</sup>, 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: June 4-14. 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.--57 years (water years 1927-32, 1938-88), 1,770 ft<sup>3</sup>/s, 16.81 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft<sup>3</sup>/s, Oct. 2, 1929, gage height, 34.8 ft, from rating curve extend above 30,000 ft<sup>3</sup>/s on basis of slope-conveyance studies; minimum daily, 96 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Jan. 21 | 1330 | *9,250                            | *13.99              |

Minimum daily discharge, 125 ft<sup>3</sup>/s, Sept. 1, 2.

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     | 249  | 309   | 515   | 970   | 964   | 823   | 896   | 695   | 320  | 189  | 161  | 125   |
| 2     | 251  | 307   | 491   | 1000  | 948   | 809   | 889   | 678   | 313  | 202  | 150  | 125   |
| 3     | 235  | 310   | 477   | 1190  | 1260  | 801   | 921   | 653   | 307  | 203  | 165  | 131   |
| 4     | 221  | 315   | 468   | 1410  | 3930  | 814   | 954   | 639   | 298  | 210  | 176  | 151   |
| 5     | 212  | 321   | 480   | 1420  | 6120  | 839   | 1010  | 704   | 287  | 250  | 292  | 340   |
| 6     | 215  | 322   | 483   | 1180  | 3820  | 829   | 1010  | 745   | 276  | 349  | 464  | 526   |
| 7     | 220  | 320   | 470   | 1060  | 2070  | 802   | 940   | 665   | 267  | 353  | 447  | 414   |
| 8     | 222  | 318   | 459   | 1050  | 1650  | 784   | 882   | 605   | 259  | 282  | 378  | 297   |
| 9     | 221  | 319   | 449   | 1100  | 1450  | 796   | 832   | 572   | 248  | 237  | 316  | 274   |
| 10    | 220  | 349   | 461   | 1030  | 1310  | 1030  | 797   | 558   | 241  | 210  | 278  | 334   |
| 11    | 223  | 612   | 514   | 928   | 1220  | 1260  | 788   | 568   | 234  | 198  | 258  | 352   |
| 12    | 226  | 655   | 561   | 882   | 1150  | 1140  | 2370  | 570   | 227  | 191  | 255  | 652   |
| 13    | 232  | 519   | 527   | 864   | 1090  | 1080  | 3950  | 534   | 217  | 180  | 246  | 528   |
| 14    | 237  | 443   | 493   | 1010  | 1030  | 1200  | 2350  | 515   | 211  | 183  | 217  | 443   |
| 15    | 238  | 408   | 521   | 1120  | 1010  | 1080  | 1600  | 506   | 203  | 182  | 196  | 418   |
| 16    | 240  | 398   | 761   | 1020  | 1060  | 976   | 1300  | 499   | 197  | 171  | 180  | 336   |
| 17    | 245  | 433   | 863   | 981   | 1060  | 922   | 1120  | 488   | 195  | 179  | 166  | 314   |
| 18    | 247  | 697   | 692   | 2020  | 985   | 903   | 1050  | 488   | 189  | 166  | 151  | 421   |
| 19    | 251  | 875   | 590   | 2950  | 1000  | 1020  | 1380  | 471   | 204  | 163  | 136  | 594   |
| 20    | 246  | 641   | 552   | 4560  | 1150  | 1110  | 1790  | 444   | 226  | 158  | 130  | 505   |
| 21    | 239  | 545   | 547   | 8760  | 1110  | 1020  | 1340  | 421   | 255  | 154  | 134  | 421   |
| 22    | 238  | 504   | 653   | 5110  | 994   | 947   | 1100  | 404   | 238  | 154  | 174  | 363   |
| 23    | 238  | 476   | 798   | 2570  | 929   | 898   | 998   | 390   | 217  | 187  | 230  | 325   |
| 24    | 244  | 460   | 710   | 1900  | 921   | 875   | 1190  | 383   | 196  | 289  | 201  | 298   |
| 25    | 259  | 449   | 661   | 1600  | 907   | 880   | 1210  | 425   | 207  | 350  | 183  | 283   |
| 26    | 271  | 454   | 787   | 1430  | 870   | 1100  | 1040  | 472   | 248  | 265  | 174  | 268   |
| 27    | 283  | 496   | 782   | 1260  | 853   | 1280  | 946   | 417   | 257  | 211  | 164  | 257   |
| 28    | 310  | 566   | 766   | 1130  | 844   | 1160  | 864   | 381   | 229  | 210  | 150  | 246   |
| 29    | 337  | 584   | 1720  | 1070  | 836   | 1010  | 774   | 357   | 200  | 205  | 140  | 238   |
| 30    | 333  | 545   | 1510  | 1020  | ---   | 950   | 715   | 342   | 186  | 186  | 131  | 232   |
| 31    | 314  | ---   | 1140  | 985   | ---   | 917   | ---   | 332   | ---  | 177  | 127  | ---   |
| TOTAL | 7717 | 13950 | 20901 | 54580 | 42541 | 30055 | 37006 | 15921 | 7152 | 6644 | 6570 | 10211 |
| MEAN  | 249  | 465   | 674   | 1761  | 1467  | 970   | 1234  | 514   | 238  | 214  | 212  | 340   |
| MAX   | 337  | 875   | 1720  | 8760  | 6120  | 1280  | 3950  | 745   | 320  | 353  | 464  | 652   |
| MIN   | 212  | 307   | 449   | 864   | 836   | 784   | 715   | 332   | 186  | 154  | 127  | 125   |
| CFSM  | .17  | .33   | .47   | 1.23  | 1.03  | .68   | .86   | .36   | .17  | .15  | .15  | .24   |
| IN.   | .20  | .36   | .54   | 1.42  | 1.11  | .78   | .96   | .41   | .19  | .17  | .17  | .27   |

|             |       |        |      |      |     |       |     |     |      |     |    |       |
|-------------|-------|--------|------|------|-----|-------|-----|-----|------|-----|----|-------|
| CAL YR 1987 | TOTAL | 506086 | MEAN | 1387 | MAX | 22200 | MIN | 176 | CFSM | .97 | IN | 13.17 |
| WTR YR 1988 | TOTAL | 253248 | MEAN | 692  | MAX | 8760  | MIN | 125 | CFSM | .48 | IN | 6.59  |

## SAVANNAH RIVER BASIN

41

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 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

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

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

REMARKS.--No estimated daily discharges. Records good for discharges greater than or equal to 100 ft<sup>3</sup>/s; fair for discharges greater than or equal to 10 ft<sup>3</sup>/s, and less than 100 ft<sup>3</sup>/s; and poor for discharges less than 10 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,740 ft<sup>3</sup>/s, Mar. 1, 1987, gage height, 11.26 ft; minimum daily discharge, 0.12 ft<sup>3</sup>/s, Aug. 28, 1988.

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

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Feb. 4 | 1215 | *1,320                            | *9.74               | Apr. 23 | 1815 | 1,060                             | 8.80                |

Minimum daily discharge, 0.12 ft<sup>3</sup>/s, Aug. 28, 1988.

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     | 3.7   | 3.7   | 2.8   | 3.6   | 5.2   | 11    | 13    | 13    | 3.6   | 6.4   | .45   | 2.5   |
| 2     | 3.7   | 3.9   | 2.8   | 24    | 5.0   | 10    | 13    | 12    | 3.5   | 2.4   | .72   | .66   |
| 3     | 3.6   | 4.5   | 2.8   | 20    | 26    | 11    | 13    | 11    | 3.2   | 2.7   | 1.1   | .43   |
| 4     | 3.3   | 4.6   | 3.2   | 34    | 443   | 12    | 13    | 10    | 3.1   | 3.7   | .89   | 4.9   |
| 5     | 3.4   | 4.7   | 2.9   | 12    | 77    | 11    | 11    | 11    | 3.0   | 3.0   | 1.1   | 11    |
| 6     | 3.6   | 4.6   | 3.6   | 7.2   | 39    | 10    | 11    | 9.7   | 2.9   | 1.9   | 1.4   | 3.5   |
| 7     | 3.9   | 4.6   | 3.1   | 4.9   | 28    | 9.8   | 11    | 8.9   | 2.6   | 1.1   | 1.6   | 1.4   |
| 8     | 2.5   | 4.7   | 2.7   | 14    | 24    | 9.3   | 10    | 8.8   | 2.3   | .81   | 1.3   | 1.0   |
| 9     | 2.3   | 4.8   | 3.1   | 8.9   | 21    | 12    | 9.9   | 8.5   | 3.3   | .69   | .88   | 13    |
| 10    | 2.2   | 5.3   | 3.3   | 7.0   | 19    | 17    | 9.1   | 8.5   | 3.7   | .45   | .76   | 9.1   |
| 11    | 2.0   | 6.5   | 3.3   | 7.4   | 17    | 14    | 16    | 7.9   | 3.3   | .35   | .79   | 3.2   |
| 12    | 1.9   | 4.6   | 3.3   | 10    | 16    | 12    | 68    | 7.2   | 3.3   | 1.2   | 1.4   | 1.6   |
| 13    | 2.0   | 4.5   | 2.9   | 11    | 15    | 18    | 28    | 7.1   | 2.4   | .77   | 1.0   | 1.2   |
| 14    | 1.8   | 4.5   | 3.2   | 21    | 14    | 14    | 19    | 7.2   | 2.1   | .63   | .64   | .97   |
| 15    | 1.7   | 4.3   | 6.9   | 10    | 16    | 12    | 16    | 6.5   | 2.0   | .38   | .92   | .85   |
| 16    | 1.6   | 4.4   | 6.8   | 13    | 15    | 11    | 13    | 6.2   | 1.7   | 2.1   | .79   | .85   |
| 17    | 1.5   | 29    | 3.7   | 23    | 13    | 10    | 12    | 6.3   | 1.6   | 3.4   | .38   | 2.5   |
| 18    | 1.3   | 13    | 3.1   | 85    | 13    | 13    | 19    | 5.7   | 2.2   | .88   | .30   | 5.4   |
| 19    | 1.1   | 4.3   | 2.9   | 41    | 25    | 23    | 93    | 5.4   | 5.4   | .81   | .18   | 1.8   |
| 20    | 1.0   | 3.3   | 3.0   | 157   | 23    | 16    | 34    | 5.3   | 2.5   | .67   | .20   | 1.7   |
| 21    | .98   | 2.9   | 4.2   | 44    | 18    | 13    | 22    | 4.9   | 2.0   | .59   | .26   | 1.3   |
| 22    | .89   | 2.9   | 18    | 20    | 15    | 12    | 17    | 4.8   | 1.6   | .57   | .21   | .98   |
| 23    | 1.1   | 3.0   | 7.4   | 13    | 15    | 11    | 196   | 4.8   | 1.1   | 2.6   | .20   | .90   |
| 24    | 1.7   | 2.9   | 4.4   | 10    | 14    | 11    | 87    | 6.8   | .92   | 2.1   | .33   | .99   |
| 25    | 2.1   | 3.0   | 3.9   | 11    | 13    | 15    | 31    | 9.0   | 1.1   | .62   | .42   | .92   |
| 26    | 2.6   | 3.7   | 3.6   | 8.9   | 12    | 38    | 25    | 7.2   | 1.3   | .49   | .23   | .62   |
| 27    | 3.4   | 4.9   | 3.4   | 6.9   | 12    | 39    | 20    | 5.8   | 2.1   | .62   | .14   | .70   |
| 28    | 4.0   | 5.4   | 8.5   | 6.7   | 12    | 24    | 16    | 5.2   | 1.3   | .99   | .12   | .63   |
| 29    | 3.5   | 4.0   | 7.9   | 5.8   | 12    | 20    | 15    | 4.8   | .76   | 1.7   | .16   | .60   |
| 30    | 3.4   | 3.0   | 4.3   | 6.0   | ---   | 16    | 13    | 4.3   | 4.9   | .84   | .49   | .55   |
| 31    | 3.8   | ---   | 3.6   | 5.7   | ---   | 15    | ---   | 3.9   | ---   | .88   | 2.9   | ---   |
| TOTAL | 75.57 | 159.5 | 138.6 | 652.0 | 977.2 | 470.1 | 874.0 | 227.7 | 74.78 | 46.34 | 22.26 | 75.75 |
| MEAN  | 2.44  | 5.32  | 4.47  | 21.0  | 33.7  | 15.2  | 29.1  | 7.35  | 2.49  | 1.49  | .72   | 2.53  |
| MAX   | 4.0   | 29    | 18    | 157   | 443   | 39    | 196   | 13    | 5.4   | 6.4   | 2.9   | 13    |
| MIN   | .89   | 2.9   | 2.7   | 3.6   | 5.0   | 9.3   | 9.1   | 3.9   | .76   | .35   | .12   | .43   |
| CFSM  | .07   | .16   | .13   | .62   | .99   | .45   | .86   | .22   | .07   | .04   | .02   | .08   |
| IN.   | .08   | .18   | .15   | .72   | 1.07  | .52   | .96   | .25   | .08   | .05   | .02   | .08   |

|             |       |         |           |         |         |          |         |
|-------------|-------|---------|-----------|---------|---------|----------|---------|
| CAL YR 1987 | TOTAL | 7689.57 | MEAN 21.1 | MAX 516 | MIN .89 | CFSM .62 | IN 8.44 |
| WTR YR 1988 | TOTAL | 3793.80 | MEAN 10.4 | MAX 443 | MIN .12 | CFSM .31 | IN 4.16 |



## SAVANNAH RIVER BASIN

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 abandoned bridge 600 ft upstream from U.S. Highways 78 and 278 at Fort Gordon.

DRAINAGE AREA.--7.5 mi<sup>2</sup>.

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.--Estimated daily discharges: Oct. 1-28, Feb. 11-18, and Feb. 21-25. Records good, except those for the periods of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--20 years, 7.95 ft<sup>3</sup>/s, 14.39 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 500 ft<sup>3</sup>/s, Mar. 3, 1971, gage height, 7.00 ft, from floodmark; minimum daily discharge, 0.06 ft<sup>3</sup>/s, Aug. 24, 1987.

EXTREMES FOR CURRENT YEAR.--No peak greater than base discharge of 150 ft<sup>3</sup>/s, maximum discharge, 123 ft<sup>3</sup>/s, Feb. 4, gage height, 3.31 ft, but may have been higher during the period of estimated record Apr. 23, 24; minimum daily discharge, 0.18 ft<sup>3</sup>/s, July 20, 21.

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           | 2.8   | 1.6     | 3.4       | 4.0     | 5.7     | 4.7      | 4.9      | 5.7   | 1.0   | 6.4   | .28   | 1.7   |
| 2           | 2.2   | 1.7     | 3.2       | 18      | 5.6     | 4.6      | 4.7      | 4.8   | .93   | 2.1   | .25   | 1.4   |
| 3           | 2.1   | 1.9     | 3.0       | 16      | 9.2     | 4.7      | 5.0      | 4.3   | .89   | 1.5   | 1.7   | 1.3   |
| 4           | 2.1   | 2.0     | 3.0       | 12      | 65      | 8.4      | 5.2      | 5.7   | .87   | 1.5   | 1.1   | 4.0   |
| 5           | 2.2   | 2.0     | 2.9       | 7.1     | 16      | 6.3      | 4.4      | 8.9   | .85   | 1.4   | .84   | 13    |
| 6           | 2.2   | 1.7     | 2.9       | 5.8     | 11      | 5.3      | 4.6      | 5.1   | .93   | 1.1   | .71   | 3.8   |
| 7           | 1.7   | 1.7     | 3.0       | 6.4     | 8.6     | 4.8      | 4.8      | 3.9   | .73   | .73   | .65   | 6.8   |
| 8           | 1.4   | 1.6     | 3.3       | 6.9     | 7.9     | 4.6      | 3.9      | 3.4   | .98   | .54   | 2.7   | 3.2   |
| 9           | 1.6   | 1.8     | 3.2       | 5.8     | 7.1     | 7.8      | 3.7      | 2.9   | 3.2   | .46   | 4.2   | 58    |
| 10          | 2.0   | 4.5     | 3.2       | 6.4     | 6.8     | 15       | 3.4      | 3.1   | 14    | .39   | 2.8   | 13    |
| 11          | 1.7   | 2.6     | 3.1       | 7.5     | 6.0     | 7.7      | 5.2      | 6.0   | 3.8   | .37   | 6.8   | 6.6   |
| 12          | 1.5   | 1.7     | 3.0       | 6.9     | 6.6     | 6.1      | 27       | 3.5   | 1.8   | .36   | 3.5   | 4.9   |
| 13          | 1.8   | 1.7     | 2.8       | 8.2     | 6.4     | 6.2      | 8.7      | 3.7   | 1.3   | .38   | 1.5   | 3.9   |
| 14          | 1.6   | 2.0     | 2.8       | 9.1     | 6.2     | 5.2      | 6.0      | 4.9   | 1.0   | .51   | 1.6   | 3.1   |
| 15          | 1.4   | 1.7     | 8.1       | 7.0     | 6.6     | 4.8      | 5.5      | 3.3   | .89   | .82   | 3.6   | 2.5   |
| 16          | 1.5   | 1.8     | 6.8       | 6.7     | 6.4     | 4.7      | 4.4      | 4.5   | .75   | .50   | 1.8   | 2.3   |
| 17          | 1.5   | 29      | 4.2       | 10      | 6.3     | 4.7      | 4.0      | 11    | .71   | .39   | 1.2   | 6.5   |
| 18          | 1.4   | 12      | 3.7       | 19      | 6.4     | 6.2      | 10       | 4.6   | .71   | .30   | .88   | 9.1   |
| 19          | 1.3   | 4.7     | 3.7       | 12      | 16      | 12       | 25       | 3.0   | 2.3   | .23   | .68   | 5.2   |
| 20          | 1.2   | 3.5     | 3.8       | 16      | 10      | 6.4      | 7.9      | 2.3   | 1.4   | .18   | .63   | 4.0   |
| 21          | 1.1   | 2.8     | 4.6       | 11      | 9.0     | 5.4      | 5.6      | 2.0   | .97   | .18   | 19    | 3.0   |
| 22          | 1.1   | 2.8     | 10        | 7.8     | 7.4     | 4.8      | 4.3      | 1.7   | .77   | .29   | 19    | 2.3   |
| 23          | 1.1   | 2.7     | 5.8       | 6.9     | 6.4     | 4.7      | 35       | 3.1   | .59   | 1.1   | 6.9   | 1.9   |
| 24          | 1.2   | 2.8     | 4.6       | 6.4     | 5.7     | 4.7      | 40       | 7.0   | .49   | 1.1   | 3.6   | 1.9   |
| 25          | 1.3   | 2.8     | 4.7       | 8.9     | 5.0     | 5.7      | 13       | 7.8   | .42   | .58   | 2.3   | 2.5   |
| 26          | 1.3   | 3.6     | 4.5       | 8.0     | 5.0     | 13       | 15       | 3.6   | .42   | .38   | 1.6   | 2.3   |
| 27          | 1.3   | 7.0     | 4.3       | 6.3     | 5.0     | 11       | 9.4      | 2.4   | 2.6   | .56   | 1.2   | 2.4   |
| 28          | 1.4   | 9.3     | 7.5       | 5.9     | 4.8     | 6.4      | 7.2      | 2.1   | 1.3   | .43   | 1.2   | 2.0   |
| 29          | 1.4   | 5.1     | 6.7       | 5.8     | 4.8     | 5.5      | 6.1      | 1.7   | .80   | .47   | 2.2   | 1.9   |
| 30          | 1.4   | 3.9     | 4.4       | 5.8     | ---     | 5.1      | 5.6      | 1.4   | 5.1   | .41   | 2.9   | 1.8   |
| 31          | 1.5   | ---     | 4.0       | 5.8     | ---     | 5.3      | ---      | 1.2   | ---   | .40   | 2.0   | ---   |
| TOTAL       | 49.3  | 124.0   | 134.2     | 269.4   | 272.9   | 201.8    | 289.5    | 128.6 | 52.50 | 26.06 | 99.32 | 176.3 |
| MEAN        | 1.59  | 4.13    | 4.33      | 8.69    | 9.41    | 6.51     | 9.65     | 4.15  | 1.75  | .84   | 3.20  | 5.88  |
| MAX         | 2.8   | 29      | 10        | 19      | 65      | 15       | 40       | 11    | 14    | 6.4   | 19    | 58    |
| MIN         | 1.1   | 1.6     | 2.8       | 4.0     | 4.8     | 4.6      | 3.4      | 1.2   | .42   | .18   | .25   | 1.3   |
| CFSM        | .21   | .55     | .58       | 1.16    | 1.26    | .87      | 1.29     | .55   | .23   | .11   | .43   | .78   |
| IN.         | .24   | .61     | .67       | 1.34    | 1.35    | 1.00     | 1.44     | .64   | .26   | .13   | .49   | .87   |
| CAL YR 1987 | TOTAL | 2421.20 | MEAN 6.63 | MAX 131 | MIN .06 | CFSM .88 | IN 12.01 |       |       |       |       |       |
| WTR YR 1988 | TOTAL | 1823.88 | MEAN 4.98 | MAX 65  | MIN .18 | CFSM .66 | IN 9.05  |       |       |       |       |       |

## 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 mi<sup>2</sup>, 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 good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake. (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.--81 years (1884-91, 1897-1906, 1926-88), 10,026 ft<sup>3</sup>/s, 18.13 in/yr, unadjusted.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred in 1796, discharge, 360,000 ft<sup>3</sup>/s, 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, 13,600 ft<sup>3</sup>/s, Feb. 5, gage height, 10.61 ft; minimum daily discharge, 3,880 ft<sup>3</sup>/s, June 24, 26, July 18, 20.

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     | 11400  | 5600   | 5360   | 6140   | 5190   | 5350   | 5240   | 4740   | 4260   | 4730   | 4170   | 4880   |
| 2     | 9100   | 5930   | 6060   | 5820   | 5540   | 5550   | 5650   | 4610   | 4420   | 5290   | 4040   | 4810   |
| 3     | 8180   | 6590   | 6320   | 5650   | 5760   | 5340   | 5020   | 4700   | 4440   | 4460   | 4020   | 4200   |
| 4     | 6240   | 6560   | 5850   | 5510   | 6750   | 5320   | 5020   | 4680   | 4340   | 4180   | 4280   | 4470   |
| 5     | 6360   | 6200   | 5790   | 6010   | 11300  | 5370   | 5280   | 4630   | 4280   | 4150   | 4600   | 4710   |
| 6     | 7920   | 5810   | 5600   | 6760   | 10600  | 5250   | 5230   | 4550   | 4180   | 4390   | 4740   | 5050   |
| 7     | 8220   | 6830   | 4990   | 6030   | 6670   | 5160   | 5090   | 4660   | 4090   | 4200   | 4350   | 4960   |
| 8     | 7390   | 5790   | 5040   | 6170   | 5650   | 5340   | 5160   | 4780   | 3970   | 4240   | 4050   | 5470   |
| 9     | 7530   | 5460   | 5340   | 6100   | 5210   | 6810   | 4900   | 4620   | 4020   | 4150   | 4110   | 8100   |
| 10    | 7060   | 5730   | 5960   | 5750   | 5860   | 6350   | 4800   | 4530   | 4580   | 4020   | 4270   | 8760   |
| 11    | 5990   | 6510   | 6370   | 5690   | 5910   | 6910   | 4790   | 4380   | 4920   | 3930   | 4500   | 5980   |
| 12    | 5920   | 8300   | 6400   | 6390   | 5940   | 6260   | 5230   | 4230   | 4390   | 4050   | 4500   | 5740   |
| 13    | 7580   | 9060   | 5140   | 5760   | 6960   | 5670   | 5590   | 4320   | 4130   | 3980   | 4400   | 5080   |
| 14    | 8610   | 6660   | 4780   | 5600   | 5230   | 5480   | 5500   | 4220   | 4110   | 4160   | 4090   | 4610   |
| 15    | 8570   | 5610   | 5080   | 5830   | 4820   | 5590   | 5060   | 4450   | 3930   | 4130   | 4140   | 4830   |
| 16    | 7300   | 4840   | 6060   | 5850   | 5280   | 7240   | 4690   | 4300   | 3970   | 4100   | 4150   | 4810   |
| 17    | 7190   | 5630   | 6740   | 5420   | 5560   | 5880   | 4580   | 4360   | 4390   | 4010   | 4220   | 4190   |
| 18    | 6040   | 7680   | 8050   | 5540   | 6270   | 5700   | 4590   | 4370   | 4560   | 3880   | 4280   | 4050   |
| 19    | 5620   | 6390   | 7100   | 6140   | 6720   | 5330   | 4630   | 4450   | 4230   | 3890   | 4780   | 4120   |
| 20    | 6100   | 5800   | 5260   | 6740   | 6320   | 5020   | 4670   | 4650   | 4070   | 3880   | 4450   | 4130   |
| 21    | 5390   | 7170   | 4750   | 6860   | 5710   | 4990   | 4830   | 4560   | 4140   | 4190   | 4330   | 4450   |
| 22    | 4990   | 6190   | 4870   | 7070   | 5430   | 5210   | 5210   | 4250   | 6310   | 4530   | 4490   | 4280   |
| 23    | 7230   | 5220   | 5420   | 6500   | 5550   | 5940   | 5110   | 4510   | 4810   | 4640   | 4290   | 4330   |
| 24    | 6770   | 5260   | 5800   | 5630   | 5520   | 5890   | 5640   | 4570   | 3880   | 4430   | 4280   | 4290   |
| 25    | 5600   | 5840   | 5980   | 5280   | 5530   | 5660   | 5210   | 4570   | 3900   | 4110   | 4440   | 4110   |
| 26    | 5530   | 5960   | 6200   | 5520   | 5430   | 5480   | 6690   | 4480   | 3880   | 3900   | 4410   | 4160   |
| 27    | 6570   | 6360   | 5800   | 5810   | 5380   | 5610   | 5950   | 4340   | 3910   | 3940   | 4360   | 4070   |
| 28    | 8070   | 7550   | 5240   | 5940   | 5220   | 5350   | 5540   | 4310   | 3950   | 4040   | 4330   | 4160   |
| 29    | 7050   | 6790   | 5590   | 6240   | 5070   | 5210   | 5280   | 4260   | 3970   | 4240   | 4150   | 4150   |
| 30    | 6690   | 5200   | 6360   | 6500   | ---    | 5210   | 4990   | 4340   | 4090   | 4650   | 4170   | 4450   |
| 31    | 5900   | ---    | 6620   | 5700   | ---    | 5270   | ---    | 4350   | ---    | 4300   | 4530   | ---    |
| TOTAL | 218110 | 188520 | 179920 | 185950 | 176380 | 174740 | 155170 | 138770 | 128120 | 130790 | 133920 | 145400 |
| MEAN  | 7036   | 6284   | 5804   | 5998   | 6082   | 5637   | 5172   | 4476   | 4271   | 4219   | 4320   | 4847   |
| MAX   | 11400  | 9060   | 8050   | 7070   | 11300  | 7240   | 6690   | 4780   | 6310   | 5290   | 4780   | 8760   |
| MIN   | 4990   | 4840   | 4750   | 5280   | 4820   | 4990   | 4580   | 4220   | 3880   | 3880   | 4020   | 4050   |

CAL YR 1987 TOTAL 2994060 MEAN 8203 MAX 26800 MIN 4050 MEANT 7580 CFSMT 1.01 INT 13.70  
WTR YR 1988 TOTAL 1955790 MEAN 5344 MAX 11400 MIN 3880 MEANT 4333 CFSMT .58 INT 7.86

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

## SAVANNAH RIVER BASIN

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.

LOCATION.--Lat 33°13'01", long 81°46'04", Aiken County, S.C.--Burke County, Ga., Hydrologic Unit 03060106, on left bank 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 ft<sup>3</sup>/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 Thurmond Lake, 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 ft<sup>3</sup>/s, Dec. 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,200, Feb. 6; maximum gage height, 12.42 ft; minimum daily discharge, 4,150 ft<sup>3</sup>/s, July 19, 20.

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           | 12900  | 6020    | 5340   | 6420   | 5630   | 5190   | 5260   | 5220   | 4450   | 4740   | 4620   | 4980   |      |      |
| 2           | 11300  | 5990    | 5720   | 6010   | 5610   | 5440   | 5450   | 4980   | 4510   | 5470   | 4480   | 5190   |      |      |
| 3           | 9640   | 6480    | 6300   | 6020   | 5620   | 5480   | 5340   | 4970   | 4520   | 5130   | 4370   | 4900   |      |      |
| 4           | 7730   | 6820    | 6080   | 5900   | 5960   | 5390   | 5020   | 4950   | 4490   | 4730   | 4420   | 4720   |      |      |
| 5           | 6590   | 6740    | 5830   | 5980   | 8820   | 5450   | 5160   | 4930   | 4460   | 4530   | 4720   | 5030   |      |      |
| 6           | 7600   | 6160    | 5710   | 6720   | 12500  | 5490   | 5280   | 4870   | 4390   | 4590   | 4880   | 5190   |      |      |
| 7           | 8630   | 6620    | 5410   | 6610   | 8660   | 5260   | 5180   | 4830   | 4330   | 4670   | 4850   | 5540   |      |      |
| 8           | 8290   | 6290    | 5060   | 6350   | 6470   | 5190   | 5100   | 4910   | 4310   | 4550   | 4530   | 5400   |      |      |
| 9           | 7750   | 5650    | 5210   | 6240   | 5480   | 6040   | 5100   | 4880   | 4560   | 4540   | 4390   | 6960   |      |      |
| 10          | 7920   | 5640    | 5590   | 6000   | 5520   | 6760   | 4820   | 4820   | 4970   | 4430   | 4500   | 9680   |      |      |
| 11          | 6730   | 6170    | 6130   | 5710   | 5990   | 6920   | 4950   | 4810   | 5430   | 4330   | 4630   | 8860   |      |      |
| 12          | 6130   | 7110    | 6450   | 6220   | 5710   | 7170   | 5290   | 4660   | 5210   | 4340   | 4770   | 6570   |      |      |
| 13          | 6840   | 9360    | 5840   | 6290   | 6700   | 6100   | 5980   | 4610   | 4710   | 4360   | 4750   | 6120   |      |      |
| 14          | 8540   | 7850    | 5040   | 5880   | 6040   | 5650   | 6070   | 4590   | 4490   | 4380   | 4570   | 5440   |      |      |
| 15          | 8990   | 6240    | 4960   | 5860   | 5110   | 5500   | 5550   | 4600   | 4270   | 4470   | 4450   | 5150   |      |      |
| 16          | 8480   | 5390    | 5480   | 6050   | 5060   | 6470   | 5240   | 4630   | 4180   | 4450   | 4420   | 5370   |      |      |
| 17          | 7500   | 5100    | 6540   | 5730   | 5400   | 6530   | 4870   | 4560   | 4370   | 4420   | 4500   | 5120   |      |      |
| 18          | 7000   | 6980    | 7250   | 5640   | 5810   | 5700   | 4810   | 4570   | 4580   | 4330   | 4460   | 5020   |      |      |
| 19          | 6070   | 7670    | 7960   | 6160   | 6530   | 5670   | 5040   | 4580   | 4540   | 4150   | 4730   | 4950   |      |      |
| 20          | 6160   | 6190    | 6120   | 6590   | 6900   | 5320   | 5190   | 4700   | 4370   | 4150   | 4830   | 4870   |      |      |
| 21          | 6170   | 6660    | 5150   | 7090   | 6270   | 5230   | 5230   | 4760   | 4240   | 4200   | 4660   | 4930   |      |      |
| 22          | 5370   | 6880    | 4920   | 7180   | 5750   | 5270   | 5340   | 4570   | 5150   | 4540   | 4770   | 4960   |      |      |
| 23          | 6340   | 5820    | 5210   | 7060   | 5550   | 5650   | 5460   | 4530   | 5570   | 4760   | 4740   | 4840   |      |      |
| 24          | 7620   | 5270    | 5630   | 6070   | 5580   | 6030   | 5950   | 4650   | 4540   | 4830   | 4710   | 4780   |      |      |
| 25          | 6390   | 5570    | 5850   | 5570   | 5540   | 5950   | 6220   | 4800   | 4280   | 4650   | 4730   | 4710   |      |      |
| 26          | 5710   | 5960    | 6050   | 5460   | 5490   | 5660   | 6490   | 4740   | 4280   | 4360   | 4720   | 4740   |      |      |
| 27          | 6180   | 6150    | 6080   | 5690   | 5430   | 5600   | 7080   | 4640   | 4380   | 4240   | 4660   | 4690   |      |      |
| 28          | 7590   | 7150    | 5550   | 5850   | 5350   | 5580   | 6190   | 4530   | 4480   | 4280   | 4650   | 4660   |      |      |
| 29          | 8090   | 7570    | 5370   | 6020   | 5150   | 5390   | 5750   | 4480   | 4370   | 4380   | 4660   | 4580   |      |      |
| 30          | 7250   | 6140    | 6020   | 6430   | ---    | 5230   | 5420   | 4440   | 4360   | 4740   | 4550   | 4750   |      |      |
| 31          | 6600   | ---     | 6460   | 6160   | ---    | 5270   | ---    | 4520   | ---    | 4680   | 4740   | ---    |      |      |
| TOTAL       | 234100 | 193640  | 180310 | 190960 | 179630 | 177580 | 163830 | 146330 | 136790 | 140420 | 143460 | 162700 |      |      |
| MEAN        | 7552   | 6455    | 5816   | 6160   | 6194   | 5728   | 5461   | 4720   | 4560   | 4530   | 4628   | 5423   |      |      |
| MAX         | 12900  | 9360    | 7960   | 7180   | 12500  | 7170   | 7080   | 5220   | 5570   | 5470   | 4880   | 9680   |      |      |
| MIN         | 5370   | 5100    | 4920   | 5460   | 5060   | 5190   | 4810   | 4440   | 4180   | 4150   | 4370   | 4580   |      |      |
| WTR YR 1988 | TOTAL  | 2049750 | MEAN   | 5600   | MAX    | 12900  | MIN    | 4150   | MEAN†  | 4589   | CFSM†  | .59    | INT† | 8.01 |

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

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

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 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 DAILY RECORD.--

WATER TEMPERATURE: Maximum, 27.0°C July 21, 1988; 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, 27.0°C July 21; minimum, 5.5°C Jan. 9.

## TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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



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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[illegible]

## 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, 28.5°C, July 19-21; minimum, 5.5°C Jan. 10.

## TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

## SAVANNAH RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[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 118.7 (revised).

DRAINAGE AREA.--8,650 mi<sup>2</sup>, 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.--No estimated daily discharges. Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500.)

AVERAGE DISCHARGE.--37 years, 10,256 ft<sup>3</sup>/s, 16.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 141,000 ft<sup>3</sup>/s, Aug. 18, 1940; gage height, 27.0 ft; minimum daily, 2,120 ft<sup>3</sup>/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 ft<sup>3</sup>/s from rating curve extended above 141,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,900 ft<sup>3</sup>/s, Oct. 2, gage height 10.80 ft; minimum daily discharge, 4,000 ft<sup>3</sup>/s, July 21.

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     | 11300  | 6410   | 6250   | 6690   | 6330   | 5440   | 5630   | 5690   | 4720   | 4670   | 4650   | 4730   |
| 2     | 11800  | 5990   | 5800   | 6620   | 6110   | 5550   | 5620   | 5460   | 4670   | 5030   | 4530   | 4920   |
| 3     | 10500  | 6040   | 6110   | 6510   | 5970   | 5760   | 5820   | 5260   | 4710   | 5490   | 4360   | 5060   |
| 4     | 9080   | 6480   | 6440   | 6600   | 5960   | 5840   | 5620   | 5240   | 4720   | 5150   | 4260   | 4770   |
| 5     | 7400   | 6700   | 6220   | 6460   | 6630   | 5900   | 5400   | 5240   | 4690   | 4830   | 4340   | 4760   |
| 6     | 6750   | 6530   | 6080   | 6540   | 9520   | 5930   | 5550   | 5220   | 4650   | 4660   | 4610   | 5030   |
| 7     | 7670   | 6130   | 5960   | 7070   | 10900  | 5820   | 5700   | 5130   | 4590   | 4680   | 4750   | 5180   |
| 8     | 8270   | 6500   | 5670   | 6960   | 8470   | 5640   | 5610   | 5090   | 4570   | 4670   | 4670   | 5300   |
| 9     | 7870   | 6110   | 5500   | 6660   | 6660   | 5700   | 5540   | 5120   | 4800   | 4560   | 4360   | 5850   |
| 10    | 7660   | 5840   | 5650   | 6460   | 5850   | 6810   | 5410   | 5050   | 5160   | 4510   | 4220   | 8110   |
| 11    | 7460   | 6000   | 6010   | 6230   | 5960   | 7370   | 5220   | 5070   | 5530   | 4390   | 4340   | 9730   |
| 12    | 6520   | 6470   | 6390   | 6150   | 6170   | 7610   | 5510   | 5060   | 5720   | 4330   | 4520   | 8480   |
| 13    | 6150   | 7680   | 6560   | 6580   | 6120   | 7340   | 5980   | 4920   | 5380   | 4360   | 4590   | 6840   |
| 14    | 7110   | 8840   | 5960   | 6490   | 6800   | 6470   | 6390   | 4890   | 4990   | 4320   | 4560   | 6080   |
| 15    | 8340   | 7600   | 5470   | 6190   | 6050   | 6030   | 6290   | 4830   | 4810   | 4350   | 4360   | 5430   |
| 16    | 8630   | 6350   | 5490   | 6120   | 5400   | 5950   | 5810   | 4840   | 4590   | 4410   | 4240   | 5210   |
| 17    | 8010   | 5680   | 6010   | 6150   | 5430   | 6870   | 5430   | 4860   | 4510   | 4390   | 4210   | 5350   |
| 18    | 7430   | 5900   | 6760   | 5980   | 5710   | 6560   | 5140   | 4870   | 4680   | 4320   | 4270   | 5410   |
| 19    | 6750   | 7520   | 7620   | 6060   | 6380   | 6130   | 5390   | 4860   | 4820   | 4170   | 4260   | 5350   |
| 20    | 6060   | 7500   | 7610   | 6500   | 7250   | 5990   | 5830   | 4850   | 4750   | 4040   | 4540   | 5160   |
| 21    | 6170   | 6530   | 6240   | 7040   | 7380   | 5690   | 5870   | 4920   | 4590   | 4000   | 4590   | 4950   |
| 22    | 5910   | 6980   | 5600   | 7440   | 6740   | 5580   | 5720   | 4940   | 4540   | 4100   | 4590   | 4900   |
| 23    | 5400   | 6790   | 5480   | 7490   | 6190   | 5530   | 5740   | 4780   | 5440   | 4490   | 4730   | 4820   |
| 24    | 6650   | 5980   | 5730   | 7150   | 6000   | 5920   | 6020   | 4790   | 5450   | 4800   | 4650   | 4670   |
| 25    | 7070   | 5650   | 6040   | 6350   | 5940   | 6140   | 6560   | 4900   | 4810   | 4820   | 4600   | 4620   |
| 26    | 6120   | 5940   | 6210   | 5950   | 5880   | 6080   | 6800   | 5010   | 4600   | 4590   | 4590   | 4810   |
| 27    | 5770   | 6240   | 6360   | 5890   | 5820   | 5920   | 7310   | 4930   | 4760   | 4300   | 4510   | 4850   |
| 28    | 6360   | 6570   | 6270   | 6070   | 5740   | 5970   | 7220   | 4830   | 4950   | 4180   | 4440   | 4700   |
| 29    | 7580   | 7490   | 5910   | 6170   | 5630   | 5900   | 6460   | 4760   | 4860   | 4200   | 4480   | 4570   |
| 30    | 7550   | 7430   | 5870   | 6330   | ---    | 5730   | 6000   | 4720   | 4630   | 4310   | 4600   | 4440   |
| 31    | 7020   | ---    | 6360   | 6650   | ---    | 5600   | ---    | 4680   | ---    | 4700   | 4570   | ---    |
| TOTAL | 232360 | 197870 | 189630 | 201550 | 188990 | 188770 | 176590 | 154810 | 145690 | 139820 | 138990 | 164080 |
| MEAN  | 7495   | 6596   | 6117   | 6502   | 6517   | 6089   | 5886   | 4994   | 4856   | 4510   | 4484   | 5469   |
| MAX   | 11800  | 8840   | 7620   | 7490   | 10900  | 7610   | 7310   | 5690   | 5720   | 5490   | 4750   | 9730   |
| MIN   | 5400   | 5650   | 5470   | 5890   | 5400   | 5440   | 5140   | 4680   | 4510   | 4000   | 4210   | 4440   |

|             |       |         |      |      |     |       |     |      |       |      |       |     |     |       |
|-------------|-------|---------|------|------|-----|-------|-----|------|-------|------|-------|-----|-----|-------|
| CAL YR 1987 | TOTAL | 3268700 | MEAN | 8955 | MAX | 27500 | MIN | 4300 | MEANT | 8332 | CFSMT | .96 | INT | 13.08 |
| WTR YR 1988 | TOTAL | 2119150 | MEAN | 5790 | MAX | 11800 | MIN | 4000 | MEANT | 4779 | CFSMT | .55 | INT | 7.52  |

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



## SAVANNAH RIVER BASIN

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

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--1957, 1958, 1968-72, 1974-79, September 1988 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 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| SEP<br>13... | 0940 | 6890                                            | 101                                               | 98                                                       | 6.90                           | 7.00                                  | 23.0                                 | 32.5                               | 5.9                                 | 68                                                             |

| DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|----------------------------------------------|------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| SEP<br>13... | 80                                           | 14                           | 0.8                                                            | 19                                                              | 0.400                                                | 0.070                                                | 0.170                                       | 7.2                                           |

## SAVANNAH RIVER BASIN

51

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 mi<sup>2</sup>, 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: Aug. 12-18. Records fair, except those for missing gage-height record, Aug. 12-18, which are poor.

AVERAGE DISCHARGE.--21 years, 45.4 ft<sup>3</sup>/s, 11.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft<sup>3</sup>/s, Mar. 3, 1971, gage height, 18.09 ft, from floodmark; minimum daily discharge, 0.14 ft<sup>3</sup>/s, July 21, 1986.

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

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 24 | 0400 | *1,580                            | *11.90              | No other peak greater than base discharge. |      |                                   |                     |

Minimum daily discharge, 0.30 ft<sup>3</sup>/s, Oct. 22.

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           | 1.2   | .66      | 1.1   | 6.2   | 9.3   | 13   | 22   | 32    | 6.2   | 4.5   | .61   | 1.3   |
| 2           | .86   | .64      | 1.1   | 18    | 9.0   | 13   | 24   | 29    | 5.8   | 2.5   | .72   | 1.1   |
| 3           | .89   | .67      | 1.1   | 19    | 19    | 13   | 20   | 23    | 6.2   | 2.2   | 1.1   | 1.2   |
| 4           | .89   | .80      | 1.8   | 21    | 193   | 19   | 19   | 19    | 5.4   | 2.1   | .74   | 1.6   |
| 5           | .92   | .78      | 2.4   | 13    | 120   | 20   | 17   | 20    | 5.3   | 2.0   | .73   | 1.6   |
| 6           | .91   | .59      | 2.4   | 8.8   | 55    | 17   | 17   | 16    | 4.8   | 1.7   | .89   | 10    |
| 7           | .65   | .58      | 2.3   | 7.9   | 38    | 15   | 20   | 13    | 5.1   | 1.5   | .87   | 3.5   |
| 8           | .56   | .51      | 2.5   | 9.6   | 32    | 14   | 16   | 9.6   | 10    | 1.3   | 1.5   | 2.0   |
| 9           | .67   | .46      | 1.9   | 8.5   | 27    | 23   | 13   | 8.1   | 29    | 1.3   | .81   | 38    |
| 10          | .82   | 1.1      | 1.8   | 8.1   | 24    | 84   | 12   | 8.5   | 65    | 1.1   | 1.1   | 32    |
| 11          | .66   | 1.4      | 4.5   | 11    | 22    | 59   | 16   | 17    | 14    | 1.1   | 1.8   | 10    |
| 12          | .59   | .53      | 5.2   | 11    | 22    | 36   | 191  | 11    | 5.4   | 3.0   | 3.3   | 5.2   |
| 13          | .76   | .45      | 5.3   | 12    | 18    | 41   | 103  | 7.5   | 3.8   | 1.8   | 2.0   | 3.5   |
| 14          | .64   | .39      | 7.8   | 15    | 17    | 41   | 51   | 7.7   | 3.3   | 1.4   | 1.0   | 2.7   |
| 15          | .59   | .38      | 10    | 12    | 18    | 28   | 37   | 6.5   | 3.0   | 1.1   | 2.4   | 2.6   |
| 16          | .64   | .48      | 8.8   | 10    | 20    | 22   | 27   | 5.8   | 2.8   | 1.0   | 1.5   | 27    |
| 17          | .61   | 8.0      | 4.6   | 12    | 18    | 20   | 21   | 14    | 2.6   | 1.0   | 1.1   | 36    |
| 18          | .60   | 3.9      | 4.1   | 41    | 16    | 22   | 35   | 14    | 2.5   | .78   | .97   | 74    |
| 19          | .46   | .78      | 4.6   | 31    | 42    | 75   | 171  | 8.7   | 2.5   | .72   | .62   | 27    |
| 20          | .47   | .70      | 4.7   | 56    | 48    | 45   | 85   | 6.8   | 2.3   | .64   | .70   | 17    |
| 21          | .41   | .62      | 5.3   | 53    | 32    | 33   | 44   | 6.1   | 2.3   | .58   | 7.4   | 11    |
| 22          | .30   | .64      | 9.8   | 28    | 24    | 27   | 30   | 6.8   | 2.9   | .62   | 12    | 5.9   |
| 23          | .37   | .64      | 7.7   | 19    | 21    | 23   | 144  | 6.3   | 4.0   | 1.2   | 2.5   | 4.1   |
| 24          | .52   | .63      | 6.0   | 15    | 19    | 22   | 927  | 7.7   | 4.5   | 2.3   | 1.4   | 4.4   |
| 25          | .52   | .81      | 6.2   | 16    | 17    | 23   | 155  | 14    | 4.9   | .98   | 1.2   | 6.3   |
| 26          | .52   | .90      | 7.5   | 18    | 16    | 52   | 187  | 10    | 12    | .85   | .99   | 4.4   |
| 27          | .54   | 1.3      | 7.0   | 13    | 15    | 65   | 102  | 8.1   | 25    | .89   | 1.0   | 2.6   |
| 28          | .59   | .78      | 10    | 11    | 15    | 45   | 66   | 9.2   | 5.5   | .93   | 1.3   | 2.2   |
| 29          | .60   | .91      | 10    | 9.8   | 14    | 32   | 47   | 8.5   | 2.8   | 1.3   | 2.3   | 2.0   |
| 30          | .60   | .83      | 7.2   | 9.2   | ---   | 27   | 38   | 7.4   | 3.1   | .76   | 1.6   | 1.7   |
| 31          | .71   | ---      | 6.0   | 9.3   | ---   | 24   | ---  | 6.6   | ---   | .72   | 1.4   | ---   |
| TOTAL       | 20.07 | 31.86    | 160.7 | 532.4 | 940.3 | 993  | 2657 | 367.9 | 252.0 | 43.87 | 57.55 | 356.3 |
| MEAN        | .65   | 1.06     | 5.18  | 17.2  | 32.4  | 32.0 | 88.6 | 11.9  | 8.40  | 1.42  | 1.86  | 11.9  |
| MAX         | 1.2   | 8.0      | 10    | 56    | 193   | 84   | 927  | 32    | 65    | 4.5   | 12    | 74    |
| MIN         | .30   | .38      | 1.1   | 6.2   | 9.0   | 13   | 12   | 5.8   | 2.3   | .58   | .61   | 1.1   |
| CFSM        | .01   | .02      | .09   | .31   | .59   | .58  | 1.61 | .22   | .15   | .03   | .03   | .22   |
| IN.         | .01   | .02      | .11   | .36   | .64   | .67  | 1.80 | .25   | .17   | .03   | .04   | .24   |
| CAL YR 1987 | TOTAL | 16377.63 | MEAN  | 44.9  | MAX   | 840  | MIN  | .30   | CFSM  | .82   | IN    | 11.08 |
| WTR YR 1988 | TOTAL | 6412.95  | MEAN  | 17.5  | MAX   | 927  | MIN  | .30   | CFSM  | .32   | IN    | 4.34  |

## SAVANNAH RIVER BASIN

02197600 BRUSHY CREEK NEAR WRENS, GA.

LOCATION.--Lat 33°10'37", long 82°18'20", Jefferson County, Hydrologic Unit 03060108, 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 mi<sup>2</sup>.

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.--30 years, 25.5 ft<sup>3</sup>/s, 12.37 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.03 ft, Mar. 3, 1971 (discharge not determined); minimum daily discharge, 3.6 ft<sup>3</sup>/s, July 22, 1988.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Sept. 9 | 1700 | *95                               | *3.61               |

Minimum daily discharge, 3.6 ft<sup>3</sup>/s, July 22.

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           | 10    | 9.0    | 12        | 11      | 20      | 10       | 9.0      | 11    | 4.5   | 8.6   | 4.8   | 5.5   |
| 2           | 7.8   | 8.5    | 12        | 28      | 15      | 10       | 8.4      | 11    | 4.9   | 7.4   | 3.9   | 4.8   |
| 3           | 6.9   | 8.7    | 12        | 36      | 14      | 10       | 9.0      | 9.2   | 4.9   | 7.1   | 3.8   | 4.8   |
| 4           | 6.5   | 9.4    | 12        | 32      | 40      | 16       | 9.8      | 10    | 4.3   | 7.6   | 5.1   | 7.1   |
| 5           | 6.3   | 11     | 12        | 18      | 31      | 16       | 8.8      | 14    | 4.0   | 6.6   | 21    | 25    |
| 6           | 5.7   | 11     | 12        | 15      | 19      | 12       | 9.5      | 11    | 4.1   | 5.8   | 18    | 12    |
| 7           | 5.8   | 10     | 11        | 15      | 16      | 11       | 16       | 9.6   | 4.3   | 5.4   | 10    | 7.4   |
| 8           | 6.1   | 10     | 12        | 18      | 15      | 10       | 11       | 8.9   | 5.4   | 5.0   | 8.7   | 7.5   |
| 9           | 5.6   | 11     | 12        | 16      | 14      | 13       | 8.8      | 8.2   | 9.6   | 5.2   | 7.6   | 73    |
| 10          | 5.5   | 14     | 11        | 16      | 14      | 31       | 8.2      | 7.7   | 33    | 6.2   | 6.9   | 45    |
| 11          | 5.9   | 14     | 11        | 17      | 13      | 21       | 15       | 7.2   | 11    | 6.9   | 7.3   | 19    |
| 12          | 6.0   | 13     | 11        | 16      | 14      | 14       | 54       | 6.5   | 8.1   | 8.3   | 8.3   | 12    |
| 13          | 6.1   | 12     | 11        | 17      | 13      | 13       | 24       | 6.5   | 6.3   | 6.6   | 6.9   | 9.1   |
| 14          | 5.9   | 12     | 11        | 17      | 13      | 12       | 18       | 7.1   | 6.1   | 5.9   | 6.9   | 8.3   |
| 15          | 5.7   | 11     | 16        | 15      | 16      | 11       | 14       | 6.4   | 5.4   | 5.2   | 9.4   | 7.6   |
| 16          | 5.9   | 11     | 19        | 15      | 15      | 11       | 11       | 9.3   | 5.3   | 4.8   | 8.6   | 7.3   |
| 17          | 5.5   | 40     | 14        | 17      | 16      | 10       | 10       | 10    | 5.1   | 5.1   | 8.0   | 8.4   |
| 18          | 5.8   | 38     | 12        | 26      | 14      | 12       | 13       | 8.2   | 5.5   | 4.0   | 6.8   | 12    |
| 19          | 5.6   | 19     | 12        | 24      | 31      | 20       | 46       | 7.5   | 7.4   | 4.1   | 6.1   | 10    |
| 20          | 5.5   | 15     | 11        | 30      | 27      | 15       | 26       | 6.3   | 6.6   | 3.9   | 4.8   | 8.3   |
| 21          | 6.1   | 14     | 12        | 26      | 20      | 12       | 15       | 5.9   | 6.0   | 3.8   | 16    | 7.4   |
| 22          | 6.2   | 14     | 18        | 18      | 16      | 12       | 13       | 5.7   | 5.0   | 3.6   | 11    | 6.7   |
| 23          | 7.1   | 13     | 15        | 16      | 14      | 10       | 23       | 5.6   | 5.0   | 6.5   | 11    | 6.3   |
| 24          | 8.2   | 13     | 13        | 15      | 12      | 9.7      | 52       | 6.7   | 4.4   | 11    | 8.0   | 6.1   |
| 25          | 8.1   | 13     | 12        | 15      | 12      | 10       | 27       | 8.8   | 4.1   | 5.8   | 6.8   | 5.7   |
| 26          | 7.6   | 14     | 11        | 16      | 11      | 17       | 36       | 7.3   | 4.3   | 5.3   | 5.6   | 6.0   |
| 27          | 8.4   | 15     | 11        | 14      | 11      | 18       | 26       | 7.4   | 11    | 5.5   | 5.0   | 6.0   |
| 28          | 8.8   | 15     | 13        | 13      | 11      | 13       | 19       | 7.2   | 7.0   | 4.9   | 5.3   | 5.6   |
| 29          | 8.2   | 13     | 14        | 13      | 11      | 11       | 16       | 5.7   | 5.7   | 4.3   | 5.8   | 5.8   |
| 30          | 8.2   | 13     | 12        | 13      | ---     | 9.9      | 14       | 5.0   | 6.5   | 4.8   | 5.3   | 5.9   |
| 31          | 9.0   | ---    | 11        | 15      | ---     | 9.3      | ---      | 4.6   | ---   | 4.9   | 5.5   | ---   |
| TOTAL       | 210.0 | 424.6  | 388       | 573     | 488     | 409.9    | 570.5    | 245.5 | 204.8 | 180.1 | 248.2 | 355.6 |
| MEAN        | 6.77  | 14.2   | 12.5      | 18.5    | 16.8    | 13.2     | 19.0     | 7.92  | 6.83  | 5.81  | 8.01  | 11.9  |
| MAX         | 10    | 40     | 19        | 36      | 40      | 31       | 54       | 14    | 33    | 11    | 21    | 73    |
| MIN         | 5.5   | 8.5    | 11        | 11      | 11      | 9.3      | 8.2      | 4.6   | 4.0   | 3.6   | 3.8   | 4.8   |
| CFSM        | .24   | .51    | .45       | .66     | .60     | .47      | .68      | .28   | .24   | .21   | .29   | .43   |
| IN.         | .28   | .56    | .52       | .76     | .65     | .54      | .76      | .33   | .27   | .24   | .33   | .47   |
| CAL YR 1987 | TOTAL | 8949.1 | MEAN 24.5 | MAX 409 | MIN 5.5 | CFSM .88 | IN 11.89 |       |       |       |       |       |
| WTR YR 1988 | TOTAL | 4298.2 | MEAN 11.7 | MAX 73  | MIN 3.6 | CFSM .42 | IN 5.71  |       |       |       |       |       |

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 mi<sup>2</sup>.

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: Oct. 1-20. Records good, except those for missing gage-height record, Oct. 1-20, which are fair.

AVERAGE DISCHARGE.--19 years, 452 ft<sup>3</sup>/s, 12.98 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft<sup>3</sup>/s, Mar. 15, 1971, gage height, 12.28 ft; minimum daily discharge, 50 ft<sup>3</sup>/s, July 15, 1986.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Apr. 27 | 2200 | *1,770                            | *7.47               |

Minimum daily discharge, 55 ft<sup>3</sup>/s, July 22.

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                 | 115    | 124  | 232  | 252      | 285      | 245    | 406      | 601      | 100  | 111  | 84   | 136  |
| 2                 | 115    | 124  | 211  | 305      | 277      | 239    | 350      | 452      | 93   | 117  | 92   | 121  |
| 3                 | 110    | 126  | 189  | 335      | 275      | 236    | 306      | 358      | 87   | 113  | 84   | 103  |
| 4                 | 105    | 127  | 178  | 376      | 290      | 275    | 281      | 301      | 81   | 110  | 87   | 102  |
| 5                 | 100    | 129  | 171  | 414      | 290      | 288    | 271      | 280      | 79   | 106  | 83   | 157  |
| 6                 | 98     | 129  | 167  | 463      | 328      | 287    | 274      | 257      | 79   | 99   | 86   | 146  |
| 7                 | 96     | 129  | 165  | 516      | 429      | 302    | 273      | 249      | 79   | 92   | 104  | 154  |
| 8                 | 94     | 131  | 163  | 538      | 512      | 291    | 274      | 242      | 77   | 84   | 124  | 164  |
| 9                 | 93     | 133  | 163  | 441      | 710      | 283    | 273      | 232      | 91   | 77   | 113  | 392  |
| 10                | 94     | 137  | 164  | 366      | 617      | 340    | 259      | 221      | 292  | 71   | 105  | 485  |
| 11                | 94     | 136  | 168  | 349      | 444      | 336    | 256      | 204      | 245  | 69   | 109  | 516  |
| 12                | 96     | 137  | 173  | 339      | 374      | 360    | 391      | 183      | 255  | 74   | 117  | 512  |
| 13                | 95     | 146  | 172  | 327      | 344      | 422    | 359      | 172      | 237  | 74   | 99   | 498  |
| 14                | 93     | 152  | 170  | 317      | 338      | 447    | 424      | 171      | 212  | 74   | 100  | 426  |
| 15                | 93     | 147  | 179  | 310      | 335      | 441    | 501      | 168      | 180  | 72   | 104  | 327  |
| 16                | 94     | 145  | 189  | 308      | 327      | 375    | 590      | 163      | 135  | 68   | 135  | 220  |
| 17                | 96     | 178  | 187  | 314      | 302      | 319    | 636      | 156      | 114  | 65   | 137  | 171  |
| 18                | 98     | 239  | 212  | 343      | 280      | 308    | 479      | 151      | 101  | 63   | 110  | 164  |
| 19                | 98     | 248  | 255  | 349      | 351      | 322    | 445      | 149      | 92   | 61   | 100  | 168  |
| 20                | 99     | 296  | 270  | 389      | 377      | 309    | 412      | 143      | 88   | 59   | 92   | 195  |
| 21                | 100    | 346  | 244  | 470      | 391      | 324    | 436      | 136      | 86   | 56   | 98   | 244  |
| 22                | 98     | 340  | 236  | 525      | 408      | 352    | 531      | 130      | 81   | 55   | 145  | 298  |
| 23                | 99     | 279  | 226  | 554      | 411      | 381    | 737      | 121      | 79   | 64   | 141  | 310  |
| 24                | 100    | 217  | 227  | 537      | 403      | 379    | 845      | 114      | 74   | 72   | 123  | 240  |
| 25                | 102    | 187  | 241  | 508      | 378      | 332    | 642      | 135      | 70   | 76   | 112  | 179  |
| 26                | 105    | 186  | 251  | 462      | 330      | 335    | 648      | 136      | 70   | 84   | 106  | 188  |
| 27                | 110    | 190  | 246  | 385      | 292      | 348    | 1170     | 136      | 92   | 80   | 99   | 143  |
| 28                | 113    | 196  | 238  | 353      | 268      | 356    | 1420     | 139      | 86   | 74   | 93   | 127  |
| 29                | 113    | 206  | 247  | 344      | 254      | 382    | 920      | 133      | 82   | 74   | 95   | 120  |
| 30                | 116    | 215  | 231  | 323      | ---      | 412    | 731      | 119      | 91   | 72   | 107  | 115  |
| 31                | 120    | ---  | 233  | 302      | ---      | 437    | ---      | 108      | ---  | 83   | 127  | ---  |
| TOTAL             | 3152   | 5475 | 6398 | 12114    | 10620    | 10463  | 15540    | 6260     | 3528 | 2449 | 3311 | 7121 |
| MEAN              | 102    | 183  | 206  | 391      | 366      | 338    | 518      | 202      | 118  | 79.0 | 107  | 237  |
| MAX               | 120    | 346  | 270  | 554      | 710      | 447    | 1420     | 601      | 292  | 117  | 145  | 516  |
| MIN               | 93     | 124  | 163  | 252      | 254      | 236    | 256      | 108      | 70   | 55   | 83   | 102  |
| CFSM              | .22    | .39  | .44  | .83      | .77      | .72    | 1.10     | .43      | .25  | .17  | .23  | .50  |
| IN.               | .25    | .43  | .50  | .95      | .84      | .82    | 1.22     | .49      | .28  | .19  | .26  | .56  |
| CAL YR 1987 TOTAL | 155188 |      |      | MEAN 425 | MAX 3580 | MIN 80 | CFSM .90 | IN 12.21 |      |      |      |      |
| WTR YR 1988 TOTAL | 86431  |      |      | MEAN 236 | MAX 1420 | MIN 55 | CFSM .50 | IN 6.80  |      |      |      |      |



## 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 mi<sup>2</sup>.

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.--52 years, 641 ft<sup>3</sup>/s, 13.47 in/yr.

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

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Apr. 30 | 1600 | *1,520                            | *7.24               |

Minimum daily discharge, 72 ft<sup>3</sup>/s, July 22.

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           | 155   | 149    | 291      | 310      | 390     | 364      | 422      | 1260 | 125  | 145  | 114  | 179  |
| 2           | 167   | 153    | 279      | 322      | 376     | 342      | 455      | 916  | 114  | 150  | 114  | 226  |
| 3           | 158   | 155    | 276      | 383      | 360     | 323      | 467      | 730  | 107  | 155  | 113  | 245  |
| 4           | 156   | 156    | 280      | 467      | 346     | 356      | 438      | 599  | 101  | 156  | 119  | 194  |
| 5           | 155   | 159    | 270      | 504      | 337     | 401      | 382      | 493  | 92   | 149  | 117  | 204  |
| 6           | 145   | 160    | 251      | 490      | 334     | 409      | 341      | 397  | 87   | 143  | 117  | 198  |
| 7           | 141   | 160    | 240      | 479      | 334     | 404      | 378      | 326  | 85   | 132  | 114  | 207  |
| 8           | 135   | 160    | 232      | 527      | 330     | 377      | 347      | 281  | 87   | 122  | 118  | 199  |
| 9           | 130   | 162    | 230      | 575      | 359     | 391      | 325      | 251  | 120  | 112  | 131  | 292  |
| 10          | 128   | 167    | 230      | 609      | 430     | 470      | 304      | 237  | 243  | 102  | 137  | 357  |
| 11          | 126   | 175    | 228      | 622      | 521     | 506      | 298      | 244  | 248  | 98   | 129  | 415  |
| 12          | 127   | 175    | 227      | 573      | 646     | 526      | 390      | 252  | 287  | 108  | 126  | 531  |
| 13          | 128   | 175    | 227      | 495      | 648     | 501      | 501      | 237  | 305  | 100  | 133  | 616  |
| 14          | 128   | 173    | 227      | 447      | 538     | 454      | 515      | 218  | 261  | 97   | 137  | 547  |
| 15          | 129   | 177    | 233      | 424      | 466     | 456      | 460      | 204  | 246  | 96   | 125  | 496  |
| 16          | 127   | 184    | 246      | 409      | 441     | 497      | 396      | 201  | 227  | 93   | 142  | 475  |
| 17          | 126   | 195    | 247      | 398      | 424     | 523      | 424      | 245  | 208  | 87   | 153  | 451  |
| 18          | 128   | 234    | 252      | 422      | 418     | 521      | 480      | 270  | 178  | 82   | 167  | 526  |
| 19          | 129   | 245    | 250      | 464      | 493     | 486      | 667      | 220  | 152  | 82   | 166  | 441  |
| 20          | 130   | 260    | 253      | 489      | 570     | 436      | 835      | 192  | 141  | 75   | 138  | 288  |
| 21          | 133   | 268    | 273      | 526      | 582     | 416      | 736      | 170  | 131  | 74   | 127  | 226  |
| 22          | 132   | 273    | 311      | 527      | 575     | 402      | 578      | 163  | 126  | 72   | 150  | 212  |
| 23          | 130   | 292    | 340      | 524      | 536     | 381      | 489      | 150  | 122  | 78   | 193  | 220  |
| 24          | 131   | 323    | 336      | 542      | 513     | 388      | 654      | 145  | 119  | 81   | 202  | 241  |
| 25          | 133   | 342    | 319      | 571      | 511     | 412      | 738      | 144  | 110  | 90   | 186  | 268  |
| 26          | 133   | 329    | 302      | 602      | 509     | 449      | 1030     | 143  | 114  | 91   | 165  | 382  |
| 27          | 139   | 312    | 298      | 598      | 498     | 462      | 1040     | 150  | 187  | 104  | 146  | 386  |
| 28          | 144   | 328    | 308      | 567      | 469     | 447      | 835      | 146  | 187  | 103  | 141  | 313  |
| 29          | 146   | 343    | 323      | 522      | 413     | 430      | 807      | 141  | 167  | 96   | 144  | 233  |
| 30          | 148   | 322    | 320      | 454      | ---     | 408      | 1410     | 141  | 145  | 93   | 149  | 186  |
| 31          | 148   | ---    | 316      | 409      | ---     | 407      | ---      | 133  | ---  | 107  | 167  | ---  |
| TOTAL       | 4265  | 6706   | 8415     | 15251    | 13367   | 13345    | 17142    | 9399 | 4822 | 3273 | 4380 | 9754 |
| MEAN        | 138   | 224    | 271      | 492      | 461     | 430      | 571      | 303  | 161  | 106  | 141  | 325  |
| MAX         | 167   | 343    | 340      | 622      | 648     | 526      | 1410     | 1260 | 305  | 156  | 202  | 616  |
| MIN         | 126   | 149    | 227      | 310      | 330     | 323      | 298      | 133  | 85   | 72   | 113  | 179  |
| CFSM        | .21   | .35    | .42      | .76      | .71     | .67      | .88      | .47  | .25  | .16  | .22  | .50  |
| IN.         | .25   | .39    | .48      | .88      | .77     | .77      | .99      | .54  | .28  | .19  | .25  | .56  |
| CAL YR 1987 | TOTAL | 205283 | MEAN 562 | MAX 4290 | MIN 110 | CFSM .87 | IN 11.82 |      |      |      |      |      |
| WTR YR 1988 | TOTAL | 110119 | MEAN 301 | MAX 1410 | MIN 72  | CFSM .47 | IN 6.34  |      |      |      |      |      |

## SAVANNAH RIVER BASIN

55

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 mi<sup>2</sup>.

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.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 600 ft<sup>3</sup>/s, Mar. 1, 1987, gage height, 6.64 ft; minimum daily discharge, 2.6 ft<sup>3</sup>/s, Aug. 20, 1988.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 400 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Apr. 24 | 1330 | *186                              | *4.94               | Apr. 26 | 1730 | *186                              | *4.94               |

Minimum daily discharge, 2.6 ft<sup>3</sup>/s, Aug. 20, 1988.

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           | 3.8   | 4.2     | 5.4   | 4.8   | 7.4   | 8.2   | 7.6    | 21    | 5.1   | 4.4   | 3.2  | 3.9   |
| 2           | 3.7   | 4.6     | 5.1   | 9.1   | 7.4   | 7.7   | 7.1    | 18    | 4.9   | 4.0   | 3.0  | 4.8   |
| 3           | 3.5   | 4.9     | 5.2   | 13    | 7.5   | 7.4   | 6.8    | 16    | 4.8   | 3.8   | 3.1  | 4.2   |
| 4           | 3.6   | 5.1     | 5.1   | 13    | 7.8   | 22    | 6.4    | 14    | 4.8   | 3.8   | 3.3  | 3.9   |
| 5           | 3.6   | 5.3     | 5.2   | 8.8   | 7.4   | 22    | 6.0    | 17    | 4.7   | 3.5   | 3.1  | 5.7   |
| 6           | 3.5   | 5.3     | 5.0   | 7.4   | 6.9   | 14    | 6.2    | 15    | 4.6   | 3.5   | 3.0  | 4.5   |
| 7           | 3.5   | 5.4     | 5.0   | 7.9   | 6.5   | 12    | 14     | 12    | 4.6   | 3.3   | 3.0  | 3.7   |
| 8           | 3.4   | 5.5     | 4.9   | 12    | 6.3   | 10    | 9.8    | 11    | 4.6   | 3.2   | 2.9  | 4.0   |
| 9           | 3.3   | 5.5     | 4.9   | 9.6   | 6.3   | 14    | 7.4    | 9.8   | 8.4   | 3.2   | 2.8  | 18    |
| 10          | 3.3   | 6.0     | 5.2   | 10    | 6.2   | 35    | 6.3    | 9.1   | 24    | 3.2   | 2.7  | 18    |
| 11          | 3.3   | 5.7     | 5.2   | 10    | 6.1   | 26    | 7.8    | 10    | 11    | 3.3   | 3.1  | 27    |
| 12          | 3.2   | 5.4     | 4.9   | 8.9   | 6.5   | 17    | 77     | 8.9   | 7.2   | 3.3   | 3.1  | 8.7   |
| 13          | 3.3   | 5.3     | 4.7   | 8.0   | 6.7   | 17    | 50     | 8.6   | 5.8   | 3.1   | 3.0  | 6.3   |
| 14          | 3.3   | 5.1     | 4.5   | 7.4   | 6.3   | 16    | 31     | 9.9   | 5.1   | 3.1   | 3.0  | 5.4   |
| 15          | 3.3   | 5.0     | 5.4   | 6.7   | 6.6   | 12    | 22     | 9.0   | 4.5   | 3.0   | 3.0  | 5.1   |
| 16          | 3.3   | 5.1     | 5.6   | 6.4   | 7.8   | 10    | 15     | 8.4   | 4.3   | 3.0   | 3.1  | 4.9   |
| 17          | 3.2   | 7.5     | 5.0   | 7.0   | 7.1   | 9.3   | 11     | 23    | 4.1   | 3.0   | 2.9  | 6.6   |
| 18          | 3.1   | 7.8     | 4.7   | 10    | 7.0   | 9.7   | 9.4    | 33    | 4.0   | 3.0   | 2.8  | 9.3   |
| 19          | 3.2   | 5.7     | 4.7   | 11    | 27    | 14    | 78     | 17    | 3.7   | 2.9   | 2.7  | 6.9   |
| 20          | 3.2   | 5.2     | 4.8   | 14    | 28    | 13    | 68     | 12    | 3.6   | 3.3   | 2.6  | 5.7   |
| 21          | 3.2   | 5.1     | 5.0   | 14    | 26    | 11    | 35     | 9.5   | 3.5   | 3.4   | 2.7  | 5.2   |
| 22          | 3.3   | 4.8     | 6.6   | 10    | 16    | 9.6   | 22     | 8.1   | 3.3   | 3.8   | 3.1  | 4.8   |
| 23          | 3.5   | 4.6     | 6.1   | 8.3   | 13    | 8.8   | 34     | 7.3   | 3.2   | 4.9   | 3.0  | 4.6   |
| 24          | 3.5   | 4.2     | 5.3   | 7.6   | 11    | 8.5   | 165    | 7.4   | 3.1   | 4.1   | 3.0  | 4.5   |
| 25          | 3.5   | 4.2     | 5.3   | 8.0   | 9.9   | 8.3   | 103    | 7.5   | 3.2   | 3.6   | 2.9  | 4.5   |
| 26          | 3.6   | 5.7     | 5.0   | 9.1   | 9.2   | 11    | 163    | 6.9   | 3.4   | 3.2   | 2.7  | 8.3   |
| 27          | 4.0   | 10      | 4.9   | 7.9   | 8.8   | 12    | 121    | 6.4   | 5.3   | 3.1   | 2.7  | 6.7   |
| 28          | 4.0   | 8.1     | 5.3   | 7.5   | 8.5   | 10    | 60     | 6.1   | 4.2   | 3.1   | 3.3  | 5.6   |
| 29          | 3.9   | 6.7     | 5.9   | 7.0   | 8.3   | 8.8   | 35     | 5.8   | 3.9   | 3.0   | 3.2  | 5.1   |
| 30          | 3.9   | 6.0     | 5.2   | 6.9   | ---   | 8.3   | 26     | 5.5   | 4.1   | 3.3   | 4.3  | 5.0   |
| 31          | 4.1   | ---     | 4.8   | 6.9   | ---   | 7.9   | ---    | 5.3   | ---   | 3.3   | 5.0  | ---   |
| TOTAL       | 108.1 | 169.0   | 159.9 | 278.2 | 289.5 | 400.5 | 1210.8 | 358.5 | 161.0 | 105.7 | 95.3 | 210.9 |
| MEAN        | 3.49  | 5.63    | 5.16  | 8.97  | 9.98  | 12.9  | 40.4   | 11.6  | 5.37  | 3.41  | 3.07 | 7.03  |
| MAX         | 4.1   | 10      | 6.6   | 14    | 28    | 35    | 165    | 33    | 24    | 4.9   | 5.0  | 27    |
| MIN         | 3.1   | 4.2     | 4.5   | 4.8   | 6.1   | 7.4   | 6.0    | 5.3   | 3.1   | 2.9   | 2.6  | 3.7   |
| CFSM        | .11   | .18     | .17   | .29   | .32   | .42   | 1.31   | .38   | .17   | .11   | .10  | .23   |
| IN.         | .13   | .20     | .19   | .34   | .35   | .48   | 1.46   | .43   | .19   | .13   | .12  | .25   |
| CAL YR 1987 | TOTAL | 12169.0 | MEAN  | 33.3  | MAX   | 511   | MIN    | 3.0   | CFSM  | 1.08  | IN   | 14.70 |
| WTR YR 1988 | TOTAL | 3547.4  | MEAN  | 9.69  | MAX   | 165   | MIN    | 2.6   | CFSM  | .32   | IN   | 4.28  |

## SAVANNAH RIVER BASIN

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 Clyo, and at mile 60.9.  
DRAINAGE AREA.--9,850 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1112: 1940.

GAGE.--Water-stage recorder. Datum of gage is 13.39 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.--Estimated daily discharges: Sept. 2-7. Records good, except those for the period of estimated daily discharge, which are fair. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500).

AVERAGE DISCHARGE.--55 years, 11,774 ft<sup>3</sup>/s, 16.24 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 270,000 ft<sup>3</sup>/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 ft<sup>3</sup>/s; minimum daily discharge, 1,950 ft<sup>3</sup>/s, Sept. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,400 ft<sup>3</sup>/s, Oct. 4, gage height, 8.93 ft; minimum daily discharge, 4,400 ft<sup>3</sup>/s, July 22.

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                 | 9630    | 7390   | 7900   | 6760   | 7470   | 6580   | 6360   | 7660   | 5020       | 4860      | 4810       | 5000   |
| 2                 | 10600   | 6890   | 7150   | 7170   | 7340   | 6400   | 6320   | 7260   | 4970       | 4790      | 4880       | 5170   |
| 3                 | 11300   | 6430   | 6450   | 7310   | 7050   | 6380   | 6310   | 7120   | 4910       | 4860      | 4840       | 5310   |
| 4                 | 11300   | 6330   | 6480   | 7290   | 6920   | 6570   | 6400   | 6870   | 4860       | 5240      | 4760       | 5020   |
| 5                 | 10400   | 6500   | 6810   | 7280   | 6830   | 6700   | 6350   | 6600   | 4820       | 5190      | 4690       | 5010   |
| 6                 | 8790    | 6780   | 6790   | 7240   | 7240   | 6760   | 6140   | 6350   | 4760       | 4910      | 4720       | 5280   |
| 7                 | 7560    | 6770   | 6600   | 7260   | 9040   | 6800   | 6140   | 6180   | 4720       | 4740      | 4840       | 5430   |
| 8                 | 7780    | 6480   | 6440   | 7690   | 10500  | 6750   | 6260   | 6000   | 4680       | 4700      | 4960       | 5730   |
| 9                 | 8380    | 6560   | 6180   | 7840   | 10200  | 6670   | 6210   | 5940   | 4650       | 4710      | 4960       | 6040   |
| 10                | 8320    | 6530   | 5970   | 7630   | 8350   | 6840   | 6100   | 5910   | 4700       | 4650      | 4820       | 6640   |
| 11                | 8040    | 6230   | 5980   | 7410   | 7050   | 7660   | 6000   | 5860   | 4960       | 4650      | 4720       | 8350   |
| 12                | 7850    | 6220   | 6240   | 7220   | 6760   | 8450   | 5850   | 5800   | 5310       | 4630      | 4760       | 10000  |
| 13                | 7160    | 6570   | 6600   | 7090   | 6920   | 8730   | 5960   | 5770   | 5540       | 4570      | 4840       | 10100  |
| 14                | 6660    | 7430   | 6880   | 7340   | 6980   | 8690   | 6360   | 5750   | 5520       | 4570      | 4900       | 8880   |
| 15                | 7090    | 8560   | 6600   | 7440   | 7450   | 7980   | 6830   | 5720   | 5340       | 4570      | 4910       | 7720   |
| 16                | 8150    | 8240   | 6070   | 7190   | 7270   | 7340   | 6940   | 5640   | 5070       | 4570      | 4830       | 6900   |
| 17                | 8700    | 7140   | 5950   | 7020   | 6600   | 7060   | 6610   | 5590   | 4890       | 4600      | 4750       | 6500   |
| 18                | 8470    | 6340   | 6220   | 7010   | 6350   | 7510   | 6210   | 5540   | 4700       | 4610      | 4730       | 6830   |
| 19                | 7880    | 6220   | 6900   | 6920   | 6620   | 7660   | 6080   | 5500   | 4660       | 4580      | 4750       | 7070   |
| 20                | 7270    | 7280   | 7650   | 6900   | 7260   | 7250   | 6150   | 5470   | 4690       | 4510      | 4760       | 7190   |
| 21                | 6610    | 7800   | 8030   | 7220   | 8160   | 7020   | 6520   | 5430   | 4680       | 4430      | 4870       | 6940   |
| 22                | 6430    | 7230   | 7180   | 7690   | 8530   | 6730   | 6750   | 5410   | 4640       | 4400      | 4970       | 6500   |
| 23                | 6300    | 7220   | 6300   | 8130   | 8220   | 6510   | 6790   | 5390   | 4580       | 4460      | 4980       | 6150   |
| 24                | 5940    | 7270   | 6000   | 8320   | 7630   | 6380   | 6850   | 5370   | 4930       | 4650      | 5060       | 5880   |
| 25                | 6490    | 6680   | 6120   | 8230   | 7260   | 6590   | 7090   | 5360   | 5290       | 4850      | 5090       | 5680   |
| 26                | 7140    | 6210   | 6450   | 7590   | 7110   | 6850   | 7670   | 5300   | 5190       | 4930      | 5060       | 5720   |
| 27                | 6720    | 6300   | 6700   | 7050   | 6970   | 6860   | 8050   | 5270   | 5040       | 4850      | 5040       | 5970   |
| 28                | 6210    | 6630   | 6900   | 6850   | 6830   | 6720   | 8480   | 5210   | 4880       | 4700      | 5040       | 6310   |
| 29                | 6440    | 6970   | 6890   | 6950   | 6730   | 6700   | 8800   | 5220   | 4860       | 4600      | 4960       | 6260   |
| 30                | 7350    | 7640   | 6560   | 7090   | ---    | 6670   | 8390   | 5160   | 4890       | 4580      | 4910       | 6010   |
| 31                | 7740    | ---    | 6390   | 7220   | ---    | 6510   | ---    | 5090   | ---        | 4620      | 5030       | ---    |
| TOTAL             | 244700  | 206840 | 205380 | 227350 | 217640 | 218320 | 200970 | 180740 | 147750     | 145580    | 151240     | 195590 |
| MEAN              | 7894    | 6895   | 6625   | 7334   | 7505   | 7043   | 6699   | 5830   | 4925       | 4696      | 4879       | 6520   |
| MAX               | 11300   | 8560   | 8030   | 8320   | 10500  | 8730   | 8800   | 7660   | 5540       | 5240      | 5090       | 10100  |
| MIN               | 5940    | 6210   | 5950   | 6760   | 6350   | 6380   | 5850   | 5090   | 4580       | 4400      | 4690       | 5000   |
| CAL YR 1987 TOTAL | 3680510 |        |        | 10080  |        | 29700  |        | 5420   | MEAN† 9457 | CFSM† .96 | INT† 13.03 |        |
| WTR YR 1988 TOTAL | 2342100 |        |        | 6399   |        | 11300  |        | 4400   | MEAN† 5388 | CFSM† .55 | INT† 7.45  |        |

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

## SAVANNAH RIVER BASIN

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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 analyses with the analyzing agency codes 80020, 84213, and 85113 are performed by the U.S. Geological Survey. Laboratory 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|
| OCT   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 13... | 0700 | 81341                                                  | 7310                                            | 87                                                | 84                                                       | 7.20                           | 7.10                                  |
| NOV   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 09... | 0720 | 81341                                                  | 6510                                            | 100                                               | 98                                                       | 7.10                           | 7.10                                  |
| DEC   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 08... | 0925 | 81341                                                  | 7500                                            | 87                                                | 96                                                       | 6.90                           | 7.20                                  |
| 15... | 1720 | 80020                                                  | 6440                                            | 95                                                | 101                                                      | 7.10                           | 7.50                                  |
| JAN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 05... | 0720 | 81341                                                  | 7290                                            | 105                                               | 100                                                      | --                             | 7.30                                  |
| FEB   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 09... | 0810 | 81341                                                  | 10500                                           | 83                                                | 77                                                       | 7.20                           | 7.10                                  |
| 29... | 1700 | 80020                                                  | 6680                                            | 103                                               | 104                                                      | 7.10                           | 7.60                                  |
| MAR   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 08... | 0845 | 81341                                                  | 6780                                            | 99                                                | 96                                                       | 7.20                           | 7.30                                  |
| APR   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 12... | 0625 | 81341                                                  | 5870                                            | 107                                               | 105                                                      | 7.30                           | 7.40                                  |
| MAY   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 03... | 0540 | 81341                                                  | 7170                                            | 95                                                | 104                                                      | 7.20                           | 7.10                                  |
| JUN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 02... | 1000 | 80020                                                  | 4980                                            | 118                                               | 121                                                      | 7.40                           | 7.80                                  |
| 07... | 0620 | 81341                                                  | 4730                                            | 127                                               | 120                                                      | 7.40                           | 7.30                                  |
| JUL   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 12... | 0700 | 81341                                                  | 4650                                            | 120                                               | 114                                                      | 7.40                           | 7.50                                  |
| AUG   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 09... | 0615 | 81341                                                  | 4990                                            | 132                                               | 124                                                      | 7.40                           | 7.30                                  |
| 23... | 1830 | 80020                                                  | 5000                                            | 115                                               | 117                                                      | 7.40                           | 7.20                                  |
| SEP   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 13... | 0605 | 81341                                                  | 10300                                           | 94                                                | 95                                                       | 7.00                           | 7.10                                  |



## SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>MG/L AS<br>HCO3 | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |
|-------|--------------------------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| OCT   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 13... | 81341                                                  | 17.0                                 | 8.5                                | 8.6                                 | 89                                                             | --                                                              | 22                                                            | --                                                        |
| NOV   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 09... | 81341                                                  | 16.5                                 | 16.0                               | 7.8                                 | 79                                                             | --                                                              | 25                                                            | --                                                        |
| DEC   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 08... | 81341                                                  | 11.0                                 | 16.0                               | 8.7                                 | 78                                                             | --                                                              | 23                                                            | --                                                        |
| 15... | 80020                                                  | 14.5                                 | --                                 | 9.4                                 | 93                                                             | 23                                                              | --                                                            | 24                                                        |
| JAN   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 05... | 81341                                                  | 9.5                                  | -2.0                               | 9.8                                 | 85                                                             | --                                                              | 24                                                            | --                                                        |
| FEB   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 09... | 81341                                                  | 9.0                                  | 7.0                                | 10.5                                | 90                                                             | --                                                              | 22                                                            | --                                                        |
| 29... | 80020                                                  | 12.0                                 | --                                 | 9.7                                 | 90                                                             | 15                                                              | --                                                            | 23                                                        |
| MAR   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 08... | 81341                                                  | 14.5                                 | 16.5                               | 9.0                                 | 87                                                             | --                                                              | 24                                                            | --                                                        |
| APR   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 12... | 81341                                                  | 17.0                                 | 8.5                                | 8.1                                 | 85                                                             | --                                                              | 27                                                            | --                                                        |
| MAY   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 03... | 81341                                                  | 18.5                                 | 9.5                                | 7.4                                 | 79                                                             | --                                                              | 20                                                            | --                                                        |
| JUN   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 02... | 80020                                                  | 25.0                                 | --                                 | 7.4                                 | 90                                                             | 29                                                              | --                                                            | 29                                                        |
| 07... | 81341                                                  | 25.0                                 | 19.5                               | 4.3                                 | 52                                                             | --                                                              | 26                                                            | --                                                        |
| JUL   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 12... | 81341                                                  | 26.0                                 | 25.0                               | 6.6                                 | 81                                                             | --                                                              | 25                                                            | --                                                        |
| AUG   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 09... | 81341                                                  | 28.0                                 | 22.0                               | 6.0                                 | 77                                                             | --                                                              | 27                                                            | --                                                        |
| 23... | 80020                                                  | 28.5                                 | --                                 | 6.3                                 | 82                                                             | 23                                                              | --                                                            | 27                                                        |
| SEP   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                               |                                                           |
| 13... | 81341                                                  | 23.0                                 | 20.5                               | 6.4                                 | 74                                                             | --                                                              | 20                                                            | --                                                        |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCHI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) |
|-------|--------------------------------------------------------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|
| OCT   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 13... | 81341                                                  | 15                                           | 7.0                          | 1.0                                                            | 130                                              | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| NOV   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 09... | 81341                                                  | 30                                           | 5.0                          | 1.4                                                            | 50                                               | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| DEC   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 08... | 81341                                                  | 30                                           | 6.0                          | 2.7                                                            | 3300                                             | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| 15... | 80020                                                  | --                                           | 4.1                          | --                                                             | --                                               | 460                                                            | 450                                                                 | 19                                              | 0                                                                 | 5.4                                          |
| JAN   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 05... | 81341                                                  | 35                                           | 6.0                          | 0.9                                                            | 22000                                            | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| FEB   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 09... | 81341                                                  | 80                                           | 20                           | 1.0                                                            | 2200                                             | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| 29... | 80020                                                  | --                                           | 4.3                          | --                                                             | --                                               | 300                                                            | 100                                                                 | 19                                              | 0                                                                 | 5.6                                          |
| MAR   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 08... | 81341                                                  | 35                                           | 10                           | 0.8                                                            | 330                                              | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| APR   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 12... | 81341                                                  | 40                                           | 10                           | 1.0                                                            | 170                                              | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| MAY   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 03... | 81341                                                  | 60                                           | 17                           | 0.6                                                            | --                                               | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| JUN   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 02... | 80020                                                  | --                                           | 8.4                          | --                                                             | --                                               | K44                                                            | 340                                                                 | 20                                              | 0                                                                 | 5.7                                          |
| 07... | 81341                                                  | 40                                           | 10                           | 0.8                                                            | --                                               | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| JUL   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 12... | 81341                                                  | 30                                           | 10                           | 1.6                                                            | <20                                              | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| AUG   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 09... | 81341                                                  | 30                                           | 13                           | 1.2                                                            | 20                                               | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |
| 23... | 80020                                                  | --                                           | 4.0                          | --                                                             | --                                               | K78                                                            | 510                                                                 | 19                                              | 0                                                                 | 5.0                                          |
| SEP   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                     |                                                 |                                                                   |                                              |
| 13... | 81341                                                  | 70                                           | 18                           | 0.7                                                            | --                                               | --                                                             | --                                                                  | --                                              | --                                                                | --                                           |

## SAVANNAH RIVER BASIN

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## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) |
|-----------|--------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|
| OCT 13... | 81341                                                  | --                                                            | 0.180                                                | --                                                            | 0.070                                                | --                                                            | --                                                   | --                                                                 |
| NOV 09... | 81341                                                  | --                                                            | 0.230                                                | --                                                            | <0.020                                               | --                                                            | --                                                   | --                                                                 |
| DEC 08... | 81341                                                  | --                                                            | 0.200                                                | --                                                            | 0.130                                                | --                                                            | --                                                   | --                                                                 |
| 15...     | 80020                                                  | <0.010                                                        | --                                                   | 0.200                                                         | 0.030                                                | 0.030                                                         | 2.5                                                  | 2.5                                                                |
| JAN 05... | 81341                                                  | --                                                            | 0.280                                                | --                                                            | 0.040                                                | --                                                            | --                                                   | --                                                                 |
| FEB 09... | 81341                                                  | --                                                            | 0.260                                                | --                                                            | 0.080                                                | --                                                            | --                                                   | --                                                                 |
| 29...     | 80020                                                  | 0.020                                                         | --                                                   | 0.260                                                         | 0.140                                                | 0.160                                                         | 0.26                                                 | 0.40                                                               |
| MAR 08... | 81341                                                  | --                                                            | 0.300                                                | --                                                            | 0.100                                                | --                                                            | --                                                   | --                                                                 |
| APR 12... | 81341                                                  | --                                                            | 0.330                                                | --                                                            | 0.110                                                | --                                                            | --                                                   | --                                                                 |
| MAY 03... | 81341                                                  | --                                                            | 0.320                                                | --                                                            | 0.050                                                | --                                                            | --                                                   | --                                                                 |
| JUN 02... | 80020                                                  | 0.010                                                         | --                                                   | 0.390                                                         | 0.040                                                | 0.020                                                         | 0.46                                                 | 0.50                                                               |
| 07...     | 81341                                                  | --                                                            | 0.410                                                | --                                                            | 0.050                                                | --                                                            | --                                                   | --                                                                 |
| JUL 12... | 81341                                                  | --                                                            | 0.370                                                | --                                                            | 0.040                                                | --                                                            | --                                                   | --                                                                 |
| AUG 09... | 81341                                                  | --                                                            | 0.390                                                | --                                                            | 0.050                                                | --                                                            | --                                                   | --                                                                 |
| 23...     | 80020                                                  | <0.010                                                        | --                                                   | 0.350                                                         | 0.050                                                | <0.010                                                        | 0.45                                                 | 0.50                                                               |
| SEP 13... | 81341                                                  | --                                                            | 0.430                                                | --                                                            | 0.050                                                | --                                                            | --                                                   | --                                                                 |

| DATE      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|-----------|--------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| DEC 15... | 80020                                                  | 30                                                  | <1                                           | 35                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 1                                            | 110                                        | <5                                         |
| FEB 29... | 80020                                                  | 70                                                  | <1                                           | 40                                           | <0.5                                                 | 2                                            | <1                                                  | <3                                           | 2                                            | 250                                        | <5                                         |
| JUN 02... | 80020                                                  | 60                                                  | <1                                           | 68                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 2                                            | 190                                        | <5                                         |
| AUG 23... | 80020                                                  | <10                                                 | 1                                            | 100                                          | <0.5                                                 | <1                                           | <1                                                  | <3                                           | <1                                           | 41                                         | <5                                         |

| DATE      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|-----------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| DEC 15... | 80020                                                  | <4                                           | 10                                                   | <0.1                                         | <10                                                   | 2                                            | <1                                                  | 1.0                                          | 32                                                   | <6                                                 | 10                                         |
| FEB 29... | 80020                                                  | <4                                           | 18                                                   | <0.1                                         | <10                                                   | 8                                            | <1                                                  | <1.0                                         | 31                                                   | <6                                                 | 13                                         |
| JUN 02... | 80020                                                  | <4                                           | 10                                                   | <0.1                                         | <10                                                   | 3                                            | <1                                                  | <1.0                                         | 34                                                   | <6                                                 | 34                                         |
| AUG 23... | 80020                                                  | <4                                           | 15                                                   | 0.1                                          | <10                                                   | <1                                           | <1                                                  | <1.0                                         | 31                                                   | <6                                                 | 30                                         |

## SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) |
|--------------|--------------------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|
| DEC<br>15... | 80020                                                  | 1.4                                                  | 11                                           | 52                | 1                                       | 2.1                                                 | 9.8                                           | 9.3                                                 | 0.20                                               | 8.9                                               |
| FEB<br>29... | 80020                                                  | 1.3                                                  | 12                                           | 55                | 1                                       | 1.8                                                 | 14                                            | 8.4                                                 | 0.10                                               | 7.6                                               |
| JUN<br>02... | 80020                                                  | 1.5                                                  | 16                                           | 61                | 2                                       | 1.8                                                 | 14                                            | 9.9                                                 | 0.30                                               | 8.0                                               |
| AUG<br>23... | 80020                                                  | 1.5                                                  | 16                                           | 62                | 2                                       | 2.0                                                 | 14                                            | 11                                                  | 0.10                                               | 8.4                                               |

| DATE         | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|--------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| OCT<br>13... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 7                                                                | 0.090                                       | --                                                   | --                                                             | 3.9                                           |
| NOV<br>09... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 2                                                                | 0.090                                       | --                                                   | --                                                             | 4.4                                           |
| DEC<br>08... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 7                                                                | 0.110                                       | --                                                   | --                                                             | 4.8                                           |
| 15...        | 80020                                                  | 65                                                                 | 49                                                             | 1130                                              | 0.09                                                | --                                                               | 0.120                                       | 0.100                                                | 0.080                                                          | --                                            |
| JAN<br>05... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 12                                                               | 0.080                                       | --                                                   | --                                                             | 3.2                                           |
| FEB<br>09... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 19                                                               | 0.110                                       | --                                                   | --                                                             | 5.6                                           |
| 29...        | 80020                                                  | 65                                                                 | 53                                                             | 1170                                              | 0.09                                                | --                                                               | 0.070                                       | 0.050                                                | 0.040                                                          | --                                            |
| MAR<br>08... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 7                                                                | 0.070                                       | --                                                   | --                                                             | 5.5                                           |
| APR<br>12... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 15                                                               | 0.090                                       | --                                                   | --                                                             | 6.5                                           |
| MAY<br>03... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 13                                                               | 0.140                                       | --                                                   | --                                                             | 9.3                                           |
| JUN<br>02... | 80020                                                  | 78                                                                 | 59                                                             | 1050                                              | 0.11                                                | --                                                               | 0.090                                       | 0.080                                                | 0.030                                                          | --                                            |
| 07...        | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 13                                                               | 0.130                                       | --                                                   | --                                                             | 8.0                                           |
| JUL<br>12... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 11                                                               | 0.120                                       | --                                                   | --                                                             | 4.1                                           |
| AUG<br>09... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 19                                                               | 0.160                                       | --                                                   | --                                                             | 6.1                                           |
| 23...        | 80020                                                  | 73                                                                 | 60                                                             | 985                                               | 0.10                                                | --                                                               | 0.130                                       | 0.100                                                | 0.070                                                          | --                                            |
| SEP<br>13... | 81341                                                  | --                                                                 | --                                                             | --                                                | --                                                  | 27                                                               | 0.110                                       | --                                                   | --                                                             | 7.6                                           |

## SAVANNAH RIVER BASIN

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02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|------|--------------------------------------------------------|-------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| DEC<br>15... | 1725 | 84213                                                  | 6440                                            | 14.5                                 | 9                                         | 156                                                           | 100                                                           |
| FEB<br>29... | 1705 | 84213                                                  | 6680                                            | 12.0                                 | 15                                        | 271                                                           | 84                                                            |
| JUN<br>02... | 1005 | 84213                                                  | 4980                                            | 25.0                                 | 17                                        | 229                                                           | 100                                                           |
| AUG<br>23... | 1835 | 84213                                                  | 5000                                            | 28.5                                 | 8                                         | 108                                                           | 100                                                           |

| DATE         | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TRITIUM<br>IN<br>WATER<br>MOLE-<br>CULES<br>(TU) | TRITIUM<br>WATER<br>MOLE-<br>CULES<br>COUNT<br>ERROR<br>(TU) |
|--------------|------|--------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------|
| NOV<br>09... | 0721 | 85113                                                  | 6510                                            | 937                                              | 11.0                                                         |
| DEC<br>08... | 0926 | 85113                                                  | 7500                                            | 838                                              | 10.0                                                         |
| JAN<br>05... | 0721 | 85113                                                  | 7290                                            | 1480                                             | 14.0                                                         |
| FEB<br>09... | 0811 | 85113                                                  | 10500                                           | 1100                                             | 12.0                                                         |
| MAR<br>08... | 0846 | 85113                                                  | 6780                                            | 1260                                             | 13.0                                                         |
| APR<br>12... | 0626 | 85113                                                  | 5870                                            | 916                                              | 10.0                                                         |
| MAY<br>03... | 0541 | 85113                                                  | 7170                                            | 707                                              | 9.0                                                          |
| JUN<br>07... | 0621 | 85113                                                  | 4730                                            | 669                                              | 8.0                                                          |
| JUL<br>12... | 0701 | 85113                                                  | 4650                                            | 602                                              | 8.0                                                          |
| AUG<br>09... | 0616 | 85113                                                  | 4990                                            | 1650                                             | 18.0                                                         |
| SEP<br>13... | 0606 | 85113                                                  | 10300                                           | 685                                              | 10.0                                                         |

| DATE         | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | GROSS<br>ALPHA,<br>SUSP.<br>TOTAL<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>ALPHA,<br>DIS-<br>SOLVED<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>BETA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS SR/<br>YT-90) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS SR/<br>YT-90) | RADIUM<br>226,<br>DIS-<br>SOLVED,<br>RADON<br>METHOD<br>(PCI/L) | URANIUM<br>NATURAL<br>DIS-<br>SOLVED<br>(UG/L<br>AS U) |
|--------------|------|--------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|
| DEC<br>15... | 1720 | 80020                                                  | 6440                                            | 0.5                                                        | <0.4                                                       | 0.9                                                         | 2.7                                                         | 0.8                                                            | 2.4                                                            | 0.04                                                            | 0.01                                                   |
| JUN<br>02... | 1000 | 80020                                                  | 4980                                            | <0.4                                                       | <0.4                                                       | 0.6                                                         | 2.1                                                         | 0.6                                                            | 1.8                                                            | 0.04                                                            | 0.03                                                   |



## 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 current year.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 12.81 ft, Mar. 15, 1987; minimum elevation recorded, 2.34 ft, July 22, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 8.60 ft, Oct. 4; minimum elevation recorded, 2.34 ft, July 22.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX   | MIN  |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-------|------|
|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH |      |
| 1     | 7.72    | 6.64 | 6.98     | 5.52 | 7.04     | 5.52 | 6.54    | 4.56 | 6.61     | 5.06 | 6.35  | 4.85 |
| 2     | 8.13    | 6.93 | 6.94     | 5.34 | 6.87     | 5.36 | 6.60    | 4.84 | 6.67     | 5.22 | 6.50  | 4.76 |
| 3     | 8.31    | 7.42 | 6.92     | 5.07 | 6.64     | 4.82 | 7.06    | 5.25 | 6.52     | 4.98 | 6.31  | 4.60 |
| 4     | 8.60    | 7.74 | 6.85     | 4.85 | 6.09     | 4.54 | 6.95    | 5.37 | 6.57     | 4.96 | 6.40  | 4.66 |
| 5     | 8.57    | 7.76 | 6.95     | 4.94 | 6.52     | 4.60 | 6.64    | 5.21 | 6.46     | 4.82 | 6.50  | 4.74 |
| 6     | 8.37    | 6.98 | 7.04     | 5.03 | 6.62     | 4.89 | 6.63    | 5.21 | 6.37     | 4.91 | 6.50  | 4.98 |
| 7     | 7.73    | 5.78 | 6.90     | 5.11 | 6.53     | 4.79 | 6.80    | 5.27 | 7.02     | 5.51 | 6.50  | 4.96 |
| 8     | 7.06    | 5.54 | 6.63     | 4.90 | 6.51     | 4.71 | 6.73    | 5.34 | 7.71     | 6.76 | 6.49  | 4.84 |
| 9     | 7.25    | 5.80 | 6.40     | 4.74 | 6.17     | 4.48 | 6.76    | 5.56 | 7.93     | 7.18 | 6.36  | 4.81 |
| 10    | 7.30    | 6.06 | 6.28     | 4.77 | 5.93     | 4.21 | 6.77    | 5.53 | 7.71     | 6.17 | 6.18  | 4.78 |
| 11    | 7.17    | 5.91 | 5.66     | 4.40 | 5.82     | 4.03 | 6.57    | 5.35 | 6.97     | 5.11 | ---   | ---  |
| 12    | 7.13    | 5.78 | 6.01     | 4.35 | 5.54     | 4.18 | 6.48    | 5.16 | 6.45     | 4.62 | ---   | ---  |
| 13    | 6.88    | 5.50 | 6.30     | 4.57 | 5.97     | 4.46 | 6.43    | 5.00 | 5.74     | 4.55 | ---   | ---  |
| 14    | 6.58    | 5.13 | 6.58     | 4.93 | 6.14     | 4.80 | 6.33    | 4.95 | 6.51     | 4.74 | ---   | ---  |
| 15    | 6.57    | 5.09 | 7.07     | 5.49 | 6.24     | 4.67 | 6.93    | 5.19 | 6.92     | 4.90 | ---   | ---  |
| 16    | 7.08    | 5.41 | 7.15     | 6.14 | 5.49     | 4.20 | 7.07    | 5.26 | 6.73     | 5.21 | ---   | ---  |
| 17    | 7.35    | 6.05 | 7.06     | 5.68 | 5.59     | 3.93 | 7.08    | 5.12 | 6.79     | 4.84 | ---   | ---  |
| 18    | 7.34    | 6.25 | 6.54     | 4.87 | 6.29     | 3.97 | 6.97    | 5.05 | 6.72     | 4.62 | ---   | ---  |
| 19    | 7.22    | 5.99 | 6.46     | 4.57 | 6.71     | 4.53 | 7.13    | 5.09 | 6.97     | 4.96 | ---   | ---  |
| 20    | 7.15    | 5.68 | 6.78     | 4.78 | 7.01     | 5.08 | 7.02    | 5.08 | 6.97     | 5.24 | ---   | ---  |
| 21    | 6.80    | 5.06 | 7.12     | 5.36 | 7.22     | 5.59 | 7.03    | 5.12 | 7.17     | 5.83 | ---   | ---  |
| 22    | 6.82    | 4.84 | 7.21     | 5.55 | 7.26     | 5.50 | 6.97    | 5.39 | 7.32     | 6.25 | ---   | ---  |
| 23    | 6.78    | 4.90 | 7.12     | 5.29 | 6.87     | 4.85 | 7.01    | 5.65 | 7.45     | 6.10 | 6.50  | 4.65 |
| 24    | 6.77    | 4.65 | 7.07     | 5.36 | 6.58     | 4.48 | 7.14    | 5.91 | 7.14     | 5.63 | 6.13  | 4.44 |
| 25    | 6.65    | 4.46 | 6.80     | 5.02 | 6.42     | 4.33 | 7.22    | 5.89 | 6.56     | 5.39 | 5.92  | 4.49 |
| 26    | 7.18    | 5.09 | 6.54     | 4.62 | 6.21     | 4.48 | 6.66    | 5.28 | 6.40     | 5.30 | 5.99  | 4.62 |
| 27    | 6.95    | 5.21 | 6.47     | 4.53 | 6.25     | 4.63 | 6.41    | 4.96 | 6.54     | 5.13 | 5.88  | 4.74 |
| 28    | 6.56    | 4.68 | 6.62     | 4.75 | 6.55     | 4.78 | 6.30    | 4.86 | 6.51     | 4.91 | 6.08  | 4.70 |
| 29    | 6.50    | 4.50 | 6.66     | 4.99 | 6.19     | 4.82 | 6.21    | 4.69 | 6.59     | 4.98 | 6.17  | 4.71 |
| 30    | 6.73    | 4.83 | 6.79     | 5.15 | 6.59     | 4.75 | 6.35    | 4.78 | ---      | ---  | 6.17  | 4.74 |
| 31    | 6.93    | 5.39 | ---      | ---  | 6.51     | 4.60 | 6.45    | 4.87 | ---      | ---  | 6.23  | 4.66 |
| MONTH | 8.60    | 4.46 | 7.21     | 4.35 | 7.26     | 3.93 | 7.22    | 4.56 | 7.93     | 4.55 | ---   | ---  |

## SAVANNAH RIVER BASIN

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

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX   | MIN  | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  | MAX    | MIN  | MAX       | MIN  |
|-------|-------|------|------|------|------|------|------|------|--------|------|-----------|------|
|       | APRIL |      | MAY  |      | JUNE |      | JULY |      | AUGUST |      | SEPTEMBER |      |
| 1     | 6.27  | 4.54 | 7.44 | 6.07 | 6.13 | 3.20 | 6.15 | 3.39 | 6.00   | 3.15 | 6.21      | 3.73 |
| 2     | 6.28  | 4.47 | 7.44 | 5.55 | 6.08 | 3.17 | 6.31 | 3.26 | 5.91   | 3.26 | 6.07      | 3.66 |
| 3     | 6.41  | 4.48 | 7.16 | 5.27 | 6.14 | 3.25 | 6.24 | 3.50 | 5.99   | 3.24 | 6.00      | 3.61 |
| 4     | 6.43  | 4.53 | 6.98 | 5.02 | 6.34 | 3.49 | 6.16 | 3.83 | 5.88   | 3.19 | 5.86      | 3.75 |
| 5     | 6.42  | 4.51 | 6.83 | 4.72 | 6.23 | 3.35 | 6.27 | 4.02 | 5.75   | 2.92 | 5.71      | 3.82 |
| 6     | 6.40  | 4.34 | 6.55 | 4.56 | 5.93 | 3.28 | 6.08 | 3.74 | 5.59   | 2.77 | 5.72      | 3.90 |
| 7     | 5.61  | 4.08 | 6.37 | 4.47 | 5.76 | 3.20 | 5.90 | 3.38 | 5.60   | 2.80 | 6.48      | 4.02 |
| 8     | 5.96  | 4.43 | 6.39 | 4.40 | 5.86 | 3.11 | 5.80 | 3.07 | 5.74   | 3.00 | 6.36      | 4.24 |
| 9     | 6.36  | 4.49 | 6.42 | 4.39 | 5.64 | 2.97 | 5.69 | 3.00 | 5.78   | 3.12 | 6.62      | 4.72 |
| 10    | 6.34  | 4.51 | 6.23 | 4.20 | 5.94 | 2.95 | 5.72 | 2.87 | 5.60   | 2.95 | 6.82      | 5.08 |
| 11    | 6.46  | 4.44 | 6.16 | 4.00 | 6.28 | 3.43 | 5.66 | 2.83 | 5.66   | 2.84 | 7.46      | 5.57 |
| 12    | 6.23  | 4.32 | 6.28 | 3.94 | 6.35 | 3.77 | 5.49 | 2.71 | 5.65   | 2.89 | 7.98      | 6.67 |
| 13    | ---   | ---  | 6.32 | 3.88 | 6.38 | 4.04 | 5.56 | 2.65 | 5.73   | 3.01 | 8.08      | 7.33 |
| 14    | ---   | ---  | 6.31 | 3.79 | 6.35 | 3.95 | 5.57 | 2.63 | 5.74   | 3.15 | 8.04      | 6.75 |
| 15    | ---   | ---  | 6.37 | 3.70 | 6.20 | 3.61 | 5.53 | 2.68 | 5.58   | 3.05 | 7.51      | 5.96 |
| 16    | ---   | ---  | 6.37 | 3.65 | 6.02 | 3.39 | 5.49 | 2.70 | 5.39   | 2.97 | 7.04      | 5.51 |
| 17    | ---   | ---  | 6.25 | 3.64 | 5.95 | 3.20 | 5.24 | 2.75 | 5.11   | 2.88 | 6.51      | 5.03 |
| 18    | ---   | ---  | 6.22 | 3.57 | 5.69 | 3.00 | 5.19 | 2.74 | 4.90   | 2.77 | 6.40      | 4.89 |
| 19    | 6.50  | 4.34 | 6.07 | 3.60 | 5.51 | 3.07 | 5.07 | 2.73 | 4.93   | 2.69 | 6.69      | 5.12 |
| 20    | 6.31  | 4.50 | 5.94 | 3.54 | 5.40 | 3.20 | 4.80 | 2.67 | 4.89   | 2.71 | 6.89      | 5.30 |
| 21    | 6.47  | 4.71 | 5.73 | 3.54 | 5.39 | 3.22 | 4.69 | 2.53 | 5.27   | 2.73 | 6.85      | 5.20 |
| 22    | 6.25  | 4.88 | 5.65 | 3.52 | 5.30 | 3.14 | 4.82 | 2.34 | 5.83   | 3.07 | 7.01      | 5.08 |
| 23    | 6.31  | 4.98 | 5.42 | 3.52 | 5.28 | 2.94 | 4.69 | 2.35 | 6.04   | 3.25 | 6.92      | 4.87 |
| 24    | 6.37  | 5.02 | 4.99 | 3.31 | 5.56 | 3.06 | 5.22 | 2.50 | 6.07   | 3.28 | 6.73      | 4.60 |
| 25    | ---   | ---  | 5.37 | 3.24 | 6.11 | 3.64 | 5.67 | 2.82 | 6.16   | 3.34 | 6.62      | 4.32 |
| 26    | ---   | ---  | 5.80 | 3.40 | 6.02 | 3.58 | 5.95 | 3.08 | 6.22   | 3.28 | 6.69      | 4.41 |
| 27    | ---   | ---  | 5.96 | 3.59 | 6.02 | 3.10 | 6.17 | 3.05 | 6.26   | 3.31 | 6.87      | 4.55 |
| 28    | ---   | ---  | 5.96 | 3.44 | 6.24 | 3.28 | 6.13 | 2.94 | 6.59   | 3.67 | 6.96      | 4.79 |
| 29    | ---   | ---  | 6.05 | 3.30 | 6.26 | 3.35 | 6.10 | 2.85 | 6.19   | 3.46 | 7.07      | 4.99 |
| 30    | ---   | ---  | 6.10 | 3.30 | 6.26 | 3.37 | 6.12 | 2.89 | 5.99   | 3.36 | 6.77      | 4.77 |
| 31    | ---   | ---  | 6.12 | 3.23 | ---  | ---  | 6.08 | 2.99 | 6.14   | 3.52 | ---       | ---  |
| MONTH | ---   | ---  | 7.44 | 3.23 | 6.38 | 2.94 | 6.31 | 2.34 | 6.59   | 2.69 | 8.08      | 3.61 |

## 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, April 1988 to September 1988.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 6.50 ft, Mar. 18, 1987; minimum elevation recorded, -3.48 ft, June 10, 1987.

EXTREMES FOR CURRENT PERIOD.--April to September 1988: maximum elevation recorded, 6.02 ft, Aug. 28 and Sept. 29; minimum elevation recorded, -3.35 ft, July 12.

## GAGE HEIGHT (FEET ABOVE DATUM), APRIL 1988 TO SEPTEMBER 1988

| DAY   | MAX   | MIN   | MAX  | MIN   | MAX  | MIN   | MAX  | MIN   | MAX    | MIN   | MAX       | MIN   |
|-------|-------|-------|------|-------|------|-------|------|-------|--------|-------|-----------|-------|
|       | APRIL |       | MAY  |       | JUNE |       | JULY |       | AUGUST |       | SEPTEMBER |       |
| 1     | ---   | ---   | 5.67 | -2.00 | 5.57 | -2.83 | 5.80 | -2.25 | 5.59   | -2.39 | 5.62      | -1.62 |
| 2     | ---   | ---   | 5.63 | -2.15 | 5.64 | -2.82 | 5.79 | -2.24 | 5.42   | -2.52 | 5.44      | -1.70 |
| 3     | ---   | ---   | 5.54 | -2.53 | 5.72 | -2.25 | 5.75 | -2.02 | 5.55   | -2.27 | 5.33      | -2.00 |
| 4     | ---   | ---   | 5.46 | -2.62 | 5.86 | -1.32 | 5.59 | -1.72 | 5.45   | -2.01 | 5.01      | -1.94 |
| 5     | ---   | ---   | 5.45 | -3.18 | 5.74 | -1.83 | 5.56 | -1.57 | 5.35   | -2.33 | 4.80      | -2.56 |
| 6     | ---   | ---   | 5.31 | -2.74 | 5.43 | -2.31 | 5.48 | -1.73 | 5.14   | -2.54 | 4.73      | -1.96 |
| 7     | ---   | ---   | 5.20 | -2.29 | 5.23 | -2.44 | 5.39 | -2.01 | 5.12   | -2.69 | 5.69      | -1.29 |
| 8     | ---   | ---   | 5.31 | -2.04 | 5.35 | -2.58 | 5.29 | -2.68 | 5.23   | -2.49 | 5.50      | -1.08 |
| 9     | ---   | ---   | 5.44 | -2.10 | 5.12 | -2.93 | 5.18 | -2.93 | 5.28   | -2.32 | 5.37      | -1.08 |
| 10    | ---   | ---   | 5.30 | -2.51 | 5.45 | -3.09 | 5.24 | -3.01 | 5.13   | -2.50 | 5.39      | -1.61 |
| 11    | ---   | ---   | 5.33 | -2.91 | 5.69 | -2.27 | 5.15 | -3.12 | 5.24   | -2.54 | 5.43      | -1.45 |
| 12    | ---   | ---   | 5.51 | -2.87 | 5.63 | -2.44 | 4.99 | -3.35 | 5.21   | -2.41 | 5.34      | -1.11 |
| 13    | 5.56  | -2.83 | 5.55 | -3.06 | 5.55 | -2.42 | 5.10 | -3.20 | 5.29   | -2.08 | 5.19      | -1.37 |
| 14    | 5.89  | -2.04 | 5.59 | -3.09 | 5.42 | -2.55 | 5.09 | -3.12 | 5.04   | -2.34 | 5.09      | -1.45 |
| 15    | 5.98  | -1.84 | 5.70 | -2.97 | 5.35 | -2.57 | 4.99 | -2.86 | 4.82   | -2.49 | 5.18      | -1.61 |
| 16    | 5.96  | -1.90 | 5.59 | -2.93 | 5.38 | -2.28 | 4.75 | -2.73 | 4.55   | -2.41 | 5.55      | -0.94 |
| 17    | 5.88  | -2.37 | 5.56 | -2.71 | 5.29 | -2.19 | 4.68 | -2.67 | 4.47   | -2.59 | 5.20      | -1.16 |
| 18    | 5.69  | -2.70 | 5.42 | -2.91 | 5.14 | -2.21 | 4.63 | -2.66 | 4.37   | -2.58 | 4.94      | -1.62 |
| 19    | 5.54  | -3.16 | 5.37 | -2.43 | 4.98 | -2.13 | 4.55 | -2.54 | 4.42   | -2.64 | 5.19      | -1.36 |
| 20    | 5.24  | -2.25 | 5.25 | -2.35 | 4.84 | -1.95 | 4.24 | -2.49 | 4.34   | -2.36 | 5.37      | -1.44 |
| 21    | 5.36  | -2.44 | 5.01 | -2.24 | 4.79 | -1.83 | 4.15 | -2.57 | 4.77   | -2.60 | 5.42      | -2.05 |
| 22    | 4.85  | -2.12 | 4.93 | -2.15 | 4.72 | -1.79 | 4.34 | -2.73 | 5.34   | -2.18 | 5.85      | -1.57 |
| 23    | 4.79  | -1.78 | 4.63 | -2.22 | 4.77 | -1.83 | 4.24 | -2.75 | 5.51   | -1.77 | 5.90      | -1.57 |
| 24    | 4.84  | -2.09 | 4.12 | -2.72 | 4.92 | -2.10 | 4.75 | -2.96 | 5.57   | -2.36 | 5.82      | -1.81 |
| 25    | 4.71  | -1.44 | 4.68 | -2.42 | 5.38 | -1.41 | 5.18 | -2.54 | 5.67   | -2.63 | 5.80      | -2.00 |
| 26    | 5.29  | -1.25 | 5.18 | -1.77 | 5.41 | -1.76 | 5.50 | -2.64 | 5.73   | -2.93 | 5.87      | -1.64 |
| 27    | 5.05  | -1.59 | 5.33 | -1.71 | 5.53 | -2.57 | 5.73 | -2.86 | 5.76   | -2.95 | 6.00      | -1.14 |
| 28    | 4.49  | -2.33 | 5.34 | -2.57 | 5.74 | -2.03 | 5.72 | -2.97 | 6.02   | -1.62 | 5.93      | -1.46 |
| 29    | 5.12  | -2.52 | 5.48 | -2.91 | 5.70 | -2.45 | 5.74 | -3.01 | 5.50   | -2.45 | 6.02      | -1.05 |
| 30    | 5.36  | -2.36 | 5.56 | -2.75 | 5.59 | -2.89 | 5.70 | -2.74 | 5.49   | -2.54 | 5.76      | -1.36 |
| 31    | ---   | ---   | 5.62 | -2.85 | ---  | ---   | 5.65 | -2.51 | 5.58   | -2.29 | ---       | ---   |
| MONTH | ---   | ---   | 5.70 | -3.18 | 5.86 | -3.09 | 5.80 | -3.35 | 6.02   | -2.95 | 6.02      | -2.56 |

02198810 ABERCORN CREEK NEAR SAVANNAH, GA.--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1986 to September 1987, April 1988 to September 1988.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 180 microsiemens Aug. 31, 1988; minimum recorded, 40 microsiemens on many days in Jan., May.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 180 microsiemens Aug. 31; minimum recorded, 60 microsiemens on many days in Apr., Sept.

## SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, APRIL 1988 TO SEPTEMBER 1988

| DAY   | MAX   | MIN | MAX | MIN | MAX  | MIN | MAX  | MIN | MAX    | MIN | MAX       | MIN |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
|       | APRIL |     | MAY |     | JUNE |     | JULY |     | AUGUST |     | SEPTEMBER |     |
| 1     | ---   | --- | 100 | 80  | 130  | 90  | 130  | 120 | 140    | 120 | 120       | 70  |
| 2     | ---   | --- | 100 | 80  | 130  | 110 | 130  | 120 | 130    | 120 | 120       | 70  |
| 3     | ---   | --- | 100 | 90  | 130  | 110 | 130  | 120 | 130    | 110 | 120       | 70  |
| 4     | ---   | --- | 100 | 90  | 130  | 110 | 130  | 120 | 130    | 110 | 120       | 70  |
| 5     | ---   | --- | 110 | 90  | 130  | 110 | 130  | 120 | 130    | 110 | 120       | 60  |
| 6     | ---   | --- | 110 | 90  | 130  | 110 | 130  | 110 | 120    | 110 | 110       | 60  |
| 7     | ---   | --- | 110 | 90  | 130  | 110 | 120  | 100 | 120    | 110 | 130       | 60  |
| 8     | ---   | --- | 110 | 90  | 130  | 110 | 120  | 100 | 120    | 110 | 130       | 80  |
| 9     | ---   | --- | 110 | 90  | 130  | 110 | 120  | 110 | 120    | 110 | 120       | 60  |
| 10    | ---   | --- | 110 | 90  | 130  | 120 | 120  | 110 | 130    | 110 | 120       | 60  |
| 11    | ---   | --- | 120 | 90  | 130  | 110 | 120  | 110 | 120    | 110 | 110       | 70  |
| 12    | ---   | --- | 120 | 100 | 130  | 110 | 120  | 110 | 120    | 110 | 120       | 70  |
| 13    | 120   | 100 | 120 | 100 | 130  | 110 | 120  | 110 | 120    | 110 | 110       | 80  |
| 14    | 120   | 100 | 120 | 100 | 130  | 110 | 120  | 100 | 130    | 110 | 100       | 90  |
| 15    | 110   | 100 | 120 | 100 | 130  | 100 | 120  | 110 | 120    | 110 | 110       | 90  |
| 16    | 110   | 100 | 120 | 100 | 130  | 100 | 120  | 110 | 120    | 110 | 110       | 90  |
| 17    | 110   | 90  | 130 | 100 | 130  | 100 | 120  | 110 | 120    | 110 | 110       | 90  |
| 18    | 110   | 100 | 130 | 100 | 130  | 110 | 120  | 110 | 120    | 110 | 120       | 90  |
| 19    | 110   | 90  | 130 | 110 | 140  | 120 | 120  | 110 | 130    | 110 | 120       | 90  |
| 20    | 110   | 90  | 130 | 110 | 140  | 120 | 120  | 110 | 130    | 110 | 130       | 90  |
| 21    | 120   | 90  | 130 | 110 | 140  | 120 | 120  | 110 | 130    | 110 | 130       | 100 |
| 22    | 120   | 90  | 130 | 110 | 140  | 130 | 130  | 110 | 130    | 110 | 130       | 100 |
| 23    | 110   | 90  | 130 | 110 | 140  | 130 | 130  | 110 | 130    | 110 | 130       | 100 |
| 24    | 110   | 90  | 130 | 110 | 140  | 110 | 130  | 110 | 130    | 110 | 130       | 110 |
| 25    | 110   | 90  | 130 | 110 | 140  | 100 | 130  | 110 | 120    | 110 | 140       | 100 |
| 26    | 110   | 70  | 130 | 110 | 140  | 120 | 130  | 110 | 130    | 110 | 140       | 110 |
| 27    | 110   | 60  | 130 | 110 | 140  | 110 | 130  | 110 | 130    | 110 | 130       | 110 |
| 28    | 110   | 60  | 130 | 110 | 130  | 110 | 130  | 110 | 170    | 100 | 130       | 100 |
| 29    | 110   | 70  | 130 | 100 | 130  | 110 | 140  | 110 | 130    | 110 | 130       | 100 |
| 30    | 100   | 80  | 130 | 110 | 140  | 120 | 140  | 110 | 130    | 100 | 120       | 100 |
| 31    | ---   | --- | 130 | 110 | ---  | --- | 140  | 110 | 180    | 80  | ---       | --- |
| MONTH | 120   | 60  | 130 | 80  | 140  | 90  | 140  | 100 | 180    | 80  | 140       | 60  |



## 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 current year.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 5.85 ft, July 12, 1987 and Sept. 5, 1987; minimum elevation recorded, -4.47 ft, Feb. 16, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.83 ft, Aug. 28; minimum elevation recorded, -4.47 ft, Feb. 16.

## GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN   | MAX      | MIN   | MAX      | MIN   | MAX     | MIN   | MAX      | MIN   | MAX   | MIN   |
|-------|---------|-------|----------|-------|----------|-------|---------|-------|----------|-------|-------|-------|
|       | OCTOBER |       | NOVEMBER |       | DECEMBER |       | JANUARY |       | FEBRUARY |       | MARCH |       |
| 1     | 4.86    | -2.31 | 5.08     | -2.76 | 4.98     | -3.09 | 4.99    | -3.15 | 4.59     | -3.26 | 4.74  | -2.50 |
| 2     | 5.08    | -2.60 | 5.26     | -2.27 | 4.76     | -3.49 | 4.81    | -3.31 | 4.63     | -3.17 | 4.91  | -2.30 |
| 3     | 4.73    | -2.92 | 5.46     | -1.81 | 4.98     | -3.46 | 5.26    | -1.81 | 4.60     | -3.20 | 4.72  | -2.93 |
| 4     | 5.23    | -2.55 | 5.54     | -2.40 | 4.35     | -4.08 | 5.06    | -2.46 | 4.75     | -2.87 | 4.72  | -3.08 |
| 5     | 5.45    | -2.27 | 5.60     | -2.05 | 4.86     | -3.58 | 4.61    | -3.28 | 4.69     | -2.95 | 4.82  | -3.33 |
| 6     | 5.47    | -2.06 | 5.61     | -2.59 | 4.88     | -3.19 | 4.55    | -2.78 | 4.42     | -2.77 | 4.84  | -2.46 |
| 7     | 5.06    | -3.18 | 5.30     | -2.39 | 4.88     | -2.87 | 4.84    | -1.66 | 4.67     | -2.46 | 4.69  | -2.75 |
| 8     | 5.12    | -3.53 | 5.02     | -2.57 | 4.93     | -2.20 | 4.52    | -2.66 | 4.45     | -2.34 | 4.53  | -2.90 |
| 9     | 5.08    | -3.05 | 4.69     | -2.51 | 4.56     | -2.60 | 4.30    | -2.46 | 4.34     | -2.06 | 4.51  | -2.83 |
| 10    | 4.98    | -2.66 | 4.46     | -2.22 | 4.44     | -2.58 | 4.54    | -2.00 | 4.37     | -1.63 | 4.13  | -3.86 |
| 11    | 4.94    | -2.23 | 3.77     | -2.70 | 4.34     | -2.81 | 4.35    | -1.71 | 4.42     | -1.75 | 4.42  | -1.94 |
| 12    | 5.06    | -2.07 | 4.45     | -1.69 | 3.70     | -2.79 | 4.17    | -1.95 | 4.51     | -3.22 | 4.51  | -2.29 |
| 13    | 4.93    | -0.90 | 4.70     | -1.56 | 4.15     | -2.43 | 4.27    | -2.79 | 3.46     | -3.42 | 4.46  | -3.29 |
| 14    | 4.91    | -0.60 | 4.65     | -1.55 | 4.14     | -2.09 | 4.25    | -1.98 | 4.75     | -3.41 | 4.57  | -3.27 |
| 15    | 4.79    | -0.38 | 4.59     | -1.60 | 4.28     | -3.25 | 5.01    | -1.92 | 5.19     | -3.33 | 4.69  | -4.02 |
| 16    | 4.97    | -0.67 | 4.64     | -1.58 | 3.31     | -3.93 | 5.28    | -2.31 | 4.74     | -4.47 | 5.10  | -4.05 |
| 17    | 4.97    | -1.06 | 4.88     | -1.68 | 4.00     | -4.16 | 5.46    | -2.83 | 5.17     | -3.78 | 5.29  | -3.66 |
| 18    | 4.95    | -1.35 | 4.75     | -2.39 | 4.98     | -3.64 | 5.29    | -3.52 | 5.35     | -3.51 | 5.59  | -3.31 |
| 19    | 5.06    | -1.51 | 5.03     | -2.91 | 5.20     | -3.20 | 5.56    | -3.41 | 5.50     | -2.43 | 5.23  | -3.85 |
| 20    | 5.17    | -1.55 | 5.18     | -2.48 | 5.22     | -3.22 | 5.43    | -3.10 | 5.30     | -3.02 | 4.90  | -4.36 |
| 21    | 5.06    | -2.23 | 5.16     | -3.50 | 5.15     | -3.57 | 5.33    | -3.35 | 5.17     | -3.29 | 4.79  | -4.18 |
| 22    | 5.42    | -2.31 | 5.42     | -2.96 | 5.42     | -3.30 | 5.00    | -3.40 | 4.83     | -2.85 | 4.82  | -3.32 |
| 23    | 5.38    | -2.06 | 5.45     | -2.64 | 5.42     | -3.37 | 4.80    | -3.44 | 4.79     | -2.74 | 5.03  | -3.19 |
| 24    | 5.58    | -2.03 | 5.27     | -2.94 | 5.30     | -2.99 | 4.84    | -3.07 | 4.51     | -2.94 | 4.33  | -3.15 |
| 25    | 5.33    | -2.51 | 5.10     | -2.93 | 5.06     | -3.07 | 4.83    | -2.75 | 3.86     | -2.32 | 4.13  | -2.86 |
| 26    | 5.69    | -2.08 | 5.11     | -2.71 | 4.65     | -3.40 | 3.81    | -3.76 | 3.95     | -2.07 | 4.03  | -2.44 |
| 27    | 5.33    | -1.57 | 5.03     | -2.56 | 4.52     | -3.02 | 4.14    | -2.97 | 4.53     | -2.44 | 3.74  | -2.91 |
| 28    | 5.14    | -2.56 | 5.05     | -2.11 | 4.88     | -2.76 | 4.33    | -3.19 | 4.60     | -2.84 | 4.17  | -2.90 |
| 29    | 5.06    | -2.20 | 5.03     | -2.41 | 4.18     | -4.05 | 4.29    | -3.22 | 4.78     | -2.05 | 4.34  | -2.78 |
| 30    | 4.90    | -2.56 | 4.97     | -2.57 | 4.96     | -3.50 | 4.40    | -3.38 | ---      | ---   | 4.33  | -2.97 |
| 31    | 4.87    | -2.69 | ---      | ---   | 5.00     | -2.85 | 4.52    | -3.35 | ---      | ---   | 4.54  | -3.38 |
| MONTH | 5.69    | -3.53 | 5.61     | -3.50 | 5.42     | -4.16 | 5.56    | -3.76 | 5.50     | -4.47 | 5.59  | -4.36 |

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[illegible]

## SAVANNAH RIVER BASIN

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

## WATER-QUALITY RECORDS

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 550 microsiemens Dec. 1, 1987; minimum recorded, 40 microsiemens on many days in Jan., Feb., Mar., 1987.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 480 microsiemens Aug. 28; minimum, 60 microsiemens on several days in Oct., Feb.

## SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[illegible]

## SAVANNAH RIVER BASIN

02198920 SAVANNAH (FRONT) RIVER AT U.S. 17 AT PORT WENTWORTH, GA.

LOCATION.--Lat 32°09'57", long 81°09'14", Chatham County, Hydrologic Unit 03060109, at right downstream fender of bridge on U.S. 17, at Port Wentworth.

PERIOD OF RECORD.--October 1987 to September 1988.

## GAGE-HEIGHT RECORDS

GAGE.--Water-stage recorder. Datum of gage is ~~4.86~~ <sup>3.39</sup> below National Geodetic Vertical Datum of 1929, at mean low water (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 9.76 ft, Aug. 28; minimum gage height recorded, -2.42 ft, Feb. 16.

## GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN   | MAX      | MIN   | MAX      | MIN   | MAX     | MIN   | MAX      | MIN   | MAX   | MIN   |
|-------|---------|-------|----------|-------|----------|-------|---------|-------|----------|-------|-------|-------|
|       | OCTOBER |       | NOVEMBER |       | DECEMBER |       | JANUARY |       | FEBRUARY |       | MARCH |       |
| 1     | 8.48    | .83   | 8.69     | .63   | 8.52     | -0.52 | 8.56    | -0.19 | 8.08     | -0.30 | 8.29  | .67   |
| 2     | 8.67    | .33   | 8.91     | .58   | 8.27     | -0.84 | 8.38    | -0.42 | 8.11     | -0.25 | 8.49  | .82   |
| 3     | 8.31    | -0.35 | 9.19     | .96   | 8.56     | -0.85 | 8.94    | 1.47  | 8.11     | -0.32 | 8.23  | -0.03 |
| 4     | 8.85    | -0.12 | 9.29     | .27   | 7.81     | -1.24 | 8.67    | .44   | 8.26     | -0.04 | 8.20  | -0.31 |
| 5     | 9.11    | -0.08 | 9.36     | .60   | 8.44     | -0.61 | 8.13    | -0.44 | 8.23     | .09   | 8.36  | -0.43 |
| 6     | 9.15    | .16   | 9.37     | .15   | 8.45     | -0.32 | 8.10    | .27   | 7.91     | .26   | 8.40  | .53   |
| 7     | 8.64    | -0.97 | 8.96     | .55   | 8.46     | .20   | 8.50    | 1.61  | 8.21     | .69   | 8.17  | .26   |
| 8     | 8.74    | -1.23 | 8.63     | .55   | 8.53     | .97   | 8.02    | .23   | 7.94     | .45   | 8.03  | .22   |
| 9     | 8.72    | -0.47 | 8.27     | .68   | 8.10     | .63   | 7.85    | .58   | 7.82     | .77   | 8.07  | .34   |
| 10    | 8.60    | .15   | 8.04     | 1.08  | 7.94     | .72   | 8.07    | 1.27  | 7.88     | 1.49  | 7.67  | -0.90 |
| 11    | 8.55    | .83   | 7.29     | .73   | 7.81     | .56   | 7.85    | 1.50  | 8.01     | 1.60  | 7.88  | 1.22  |
| 12    | 8.69    | 1.18  | 7.94     | 1.83  | 7.16     | .59   | 7.74    | 1.36  | 8.08     | .20   | 8.08  | .78   |
| 13    | 8.60    | 2.62  | 8.20     | 1.98  | 7.63     | 1.01  | 7.79    | .47   | 6.84     | -0.33 | 7.94  | -0.37 |
| 14    | 8.54    | 2.97  | 8.14     | 1.89  | 7.56     | 1.24  | 7.76    | 1.25  | 8.28     | .00   | 8.03  | -1.43 |
| 15    | 8.41    | 3.19  | 8.08     | 1.70  | 7.73     | .13   | 8.64    | .99   | 8.83     | -0.35 | 8.19  | -1.48 |
| 16    | 8.59    | 2.87  | 8.14     | 1.63  | 6.80     | -1.00 | 8.94    | .81   | 8.21     | -2.42 | 8.71  | -1.72 |
| 17    | 8.56    | 2.00  | 8.44     | 1.31  | 7.50     | -0.86 | 9.17    | .09   | 8.79     | -1.50 | 8.96  | -1.55 |
| 18    | 8.54    | 1.87  | 8.30     | .70   | 8.59     | -0.50 | 8.95    | -1.12 | 9.03     | -1.26 | 9.35  | -1.30 |
| 19    | 8.68    | 1.65  | 8.66     | .07   | 8.84     | -0.23 | 9.30    | -1.08 | 9.23     | -0.31 | 8.86  | -1.71 |
| 20    | 8.81    | 1.57  | 8.81     | .37   | 8.86     | -0.51 | 9.12    | -0.83 | 8.78     | -0.99 | 8.44  | -2.25 |
| 21    | 8.67    | .78   | 8.79     | -0.68 | 8.75     | -1.14 | 9.00    | -1.01 | 8.64     | -1.02 | 8.32  | -1.87 |
| 22    | 9.13    | .76   | 9.10     | -0.26 | 9.11     | -0.79 | 8.57    | -1.19 | 8.34     | -0.31 | 8.55  | -0.70 |
| 23    | 9.08    | .89   | 9.15     | .09   | 9.12     | -0.81 | 8.23    | -1.05 | 8.34     | .07   | 8.65  | -0.21 |
| 24    | 9.35    | 1.04  | 8.93     | -0.19 | 8.96     | -0.30 | 8.38    | -0.56 | 8.03     | .09   | 7.86  | .01   |
| 25    | 9.02    | .46   | 8.71     | -0.01 | 8.64     | -0.50 | 8.38    | -0.03 | 7.37     | .97   | 7.61  | .36   |
| 26    | 9.46    | 1.13  | 8.71     | .34   | 8.14     | -0.72 | 7.31    | -0.90 | 7.45     | 1.35  | 7.50  | .90   |
| 27    | 9.00    | 1.32  | 8.64     | .57   | 7.98     | -0.02 | 7.55    | .08   | 8.01     | .51   | 7.09  | .41   |
| 28    | 8.77    | .66   | 8.65     | .98   | 8.44     | .21   | 7.79    | .01   | 8.16     | .49   | 7.59  | .60   |
| 29    | 8.66    | 1.00  | 8.61     | .70   | 7.61     | -1.40 | 7.72    | -0.20 | 8.35     | 1.25  | 7.81  | .40   |
| 30    | 8.45    | .64   | 8.54     | -0.27 | 8.53     | .29   | 7.85    | -0.25 | ---      | ---   | 7.82  | .17   |
| 31    | 8.41    | .14   | ---      | ---   | 8.60     | .24   | 8.00    | -0.27 | ---      | ---   | 8.03  | -0.39 |
| MONTH | 9.46    | -1.23 | 9.37     | -0.68 | 9.12     | -1.40 | 9.30    | -1.19 | 9.23     | -2.42 | 9.35  | -2.25 |



GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[illegible]

## SAVANNAH RIVER BASIN

02198920 SAVANNAH (FRONT) RIVER AT U.S. 17 AT PORT WENTWORTH, GA.--Continued

## WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1987 to September 1988.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 19,500 microsiemens Apr. 9; minimum, 60 microsiemens Oct. 4, 5.

## SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX   | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |
| 1     | 3530    | 70  | 7670     | 130 | 8110     | 340 | 8310    | 100 | 6740     | 90  | 9760  | 120 |
| 2     | 4550    | 70  | 7810     | 160 | 7870     | 350 | 8290    | 100 | 6490     | 90  | 9180  | 190 |
| 3     | 5030    | 70  | 8020     | 180 | 8090     | 370 | 8310    | 150 | 6190     | 80  | 8470  | 130 |
| 4     | 4910    | 60  | 8330     | 130 | 8080     | 190 | 7460    | 110 | 6450     | 90  | 7590  | 120 |
| 5     | 4810    | 60  | 8450     | 170 | 8300     | 200 | 7160    | 90  | 6610     | 90  | 6120  | 110 |
| 6     | 4790    | 80  | 8700     | 120 | 8850     | 190 | 7490    | 90  | 6150     | 90  | 6010  | 110 |
| 7     | 4530    | 70  | 7770     | 150 | 8840     | 180 | 7590    | 140 | 6520     | 100 | 5840  | 110 |
| 8     | 5020    | 80  | 7140     | 140 | 8290     | 210 | 6890    | 100 | 6220     | 80  | 5640  | 110 |
| 9     | 5090    | 90  | 6660     | 110 | 7210     | 170 | 7340    | 90  | 5120     | 70  | 5290  | 110 |
| 10    | 4700    | 90  | 7050     | 100 | 7710     | 160 | 9310    | 90  | 5470     | 100 | 5250  | 110 |
| 11    | 4340    | 80  | 9260     | 100 | 8520     | 150 | 9910    | 90  | 7110     | 110 | 7220  | 110 |
| 12    | 5010    | 80  | 17800    | 110 | 8920     | 150 | 11100   | 90  | 7150     | 110 | 8350  | 110 |
| 13    | 7260    | 90  | 16600    | 150 | 12000    | 150 | 11000   | 90  | 10500    | 120 | 6660  | 100 |
| 14    | 9870    | 140 | 16200    | 160 | 13400    | 160 | 10700   | 100 | 12900    | 130 | 5550  | 100 |
| 15    | 11300   | 150 | 16500    | 160 | 12800    | 130 | 12900   | 100 | 10800    | 130 | 5770  | 100 |
| 16    | 14100   | 170 | 14200    | 150 | 9530     | 130 | 9790    | 110 | 8980     | 120 | 5790  | 100 |
| 17    | 12100   | 180 | 11300    | 110 | 11300    | 130 | 10100   | 100 | 9190     | 130 | 4110  | 110 |
| 18    | 10500   | 140 | 8800     | 110 | 12600    | 140 | 9510    | 100 | 8640     | 150 | 2640  | 110 |
| 19    | 9540    | 180 | 9350     | 100 | 12700    | 210 | 9120    | 100 | 8260     | 190 | 1420  | 110 |
| 20    | 9030    | 220 | 10300    | 200 | 11700    | 160 | 8610    | 110 | 7180     | 120 | 810   | 100 |
| 21    | 8930    | 220 | 9610     | 140 | 9710     | 120 | 7580    | 100 | 5900     | 110 | 640   | 100 |
| 22    | 9530    | 180 | 9800     | 170 | 8840     | 110 | 6340    | 100 | 4940     | 100 | 1070  | 100 |
| 23    | 9600    | 220 | 9390     | 200 | 8410     | 100 | 5830    | 90  | 4080     | 100 | 1460  | 100 |
| 24    | 9770    | 200 | 8440     | 210 | 8010     | 110 | 5400    | 80  | 3450     | 100 | 1800  | 110 |
| 25    | 9390    | 170 | 7140     | 220 | 7560     | 110 | 4880    | 80  | 4220     | 100 | 3270  | 110 |
| 26    | 9310    | 170 | 6950     | 230 | 6880     | 110 | 4110    | 80  | 8400     | 110 | 9140  | 110 |
| 27    | 8640    | 260 | 7310     | 250 | 6230     | 110 | 4500    | 80  | 11700    | 110 | 14500 | 120 |
| 28    | 8250    | 130 | 7860     | 390 | 6590     | 100 | 5830    | 90  | 12000    | 120 | 19300 | 120 |
| 29    | 8130    | 160 | 8130     | 400 | 6390     | 90  | 6540    | 90  | 11600    | 170 | 18200 | 150 |
| 30    | 7960    | 150 | 8430     | 340 | 7510     | 100 | 6830    | 100 | ---      | --- | 13200 | 130 |
| 31    | 7910    | 130 | ---      | --- | 8690     | 110 | 6880    | 90  | ---      | --- | 9470  | 120 |
| MONTH | 14100   | 60  | 17800    | 100 | 13400    | 90  | 12900   | 80  | 12900    | 70  | 19300 | 100 |

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SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[illegible]

## SAVANNAH RIVER BASIN

02198977 SAVANNAH RIVER AT BROAD STREET AT SAVANNAH, GA.

LOCATION.--Lat 32°05'02", long 81°05'45", Chatham County, Hydrologic Unit 03060109, at downstream side of docking facility at SEPCO Riverside Power Plant, located on River Street at the foot of West Broad Street.

PERIOD OF RECORD.--October 1987 to September 1988.

GAGE.--Water-stage recorder. Datum of gage is ~~3.45~~ <sup>3.46</sup> below National Geodetic Vertical Datum of 1929 at low mean water, (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 9.77 ft, Aug. 28; minimum gage height recorded, -2.71 ft, Feb. 16.

## GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN   | MAX      | MIN   | MAX      | MIN   | MAX     | MIN   | MAX      | MIN   | MAX   | MIN   |
|-------|---------|-------|----------|-------|----------|-------|---------|-------|----------|-------|-------|-------|
|       | OCTOBER |       | NOVEMBER |       | DECEMBER |       | JANUARY |       | FEBRUARY |       | MARCH |       |
| 1     | ---     | ---   | 8.34     | .17   | 8.10     | -1.03 | 8.21    | -0.44 | 7.69     | -0.46 | 7.87  | .41   |
| 2     | ---     | ---   | 8.61     | .32   | 7.81     | -1.10 | 7.97    | -0.64 | 7.68     | -0.47 | 8.10  | .53   |
| 3     | ---     | ---   | 9.00     | .48   | 8.20     | -1.18 | 8.62    | 1.24  | 7.71     | -0.57 | 7.83  | -0.34 |
| 4     | ---     | ---   | 9.06     | -0.14 | 7.37     | -1.46 | 8.33    | .12   | 7.86     | -0.25 | 7.81  | -0.58 |
| 5     | ---     | ---   | 9.13     | .14   | 8.06     | -0.84 | 7.72    | -0.71 | 7.87     | -0.18 | 7.97  | -0.66 |
| 6     | ---     | ---   | 9.17     | -0.21 | 8.08     | -0.58 | 7.62    | .06   | 7.48     | .05   | 8.05  | .25   |
| 7     | 8.34    | -1.50 | 8.65     | .16   | 8.09     | -0.02 | 8.12    | 1.34  | 7.77     | .48   | 7.75  | -0.02 |
| 8     | 8.43    | -1.59 | 8.30     | .29   | 8.16     | .65   | 7.54    | .01   | 7.50     | .19   | 7.60  | .01   |
| 9     | 8.40    | -0.82 | 7.88     | .41   | 7.64     | .45   | 7.32    | .39   | 7.31     | .49   | 7.29  | .13   |
| 10    | 8.24    | -0.10 | 7.55     | .89   | 7.47     | .54   | 7.56    | 1.03  | 7.36     | 1.34  | 7.13  | -1.12 |
| 11    | 8.22    | .59   | 6.67     | .56   | 7.32     | .38   | 7.38    | 1.25  | 7.54     | 1.36  | 7.35  | 1.00  |
| 12    | 8.34    | .92   | 7.44     | 1.63  | 6.56     | .40   | 7.25    | 1.17  | 7.58     | -0.03 | 7.61  | .53   |
| 13    | 8.21    | 2.46  | 7.75     | 1.81  | 7.07     | .81   | 7.25    | .26   | 6.24     | -0.53 | 7.45  | -0.59 |
| 14    | 8.13    | 2.84  | 7.65     | 1.68  | 7.03     | 1.04  | 7.22    | 1.05  | 7.85     | -0.66 | 7.55  | -1.69 |
| 15    | 7.96    | 2.97  | 7.55     | 1.47  | 7.22     | -0.10 | 8.30    | .76   | 8.50     | -0.60 | 7.74  | -1.57 |
| 16    | 8.24    | 2.64  | 7.63     | 1.39  | 6.16     | -1.22 | 8.59    | .03   | 7.89     | -2.71 | 8.35  | -1.92 |
| 17    | 8.15    | 1.74  | 8.00     | .91   | 6.97     | -0.76 | 8.89    | -0.18 | 8.51     | -1.86 | 8.65  | -1.74 |
| 18    | 8.09    | 1.37  | 7.87     | .27   | 8.22     | -0.71 | 8.66    | -1.41 | 8.81     | -1.64 | 9.12  | -1.56 |
| 19    | 8.30    | 1.38  | 8.28     | -0.17 | 8.53     | -0.48 | 9.07    | -1.49 | 9.00     | -0.92 | 8.58  | -1.91 |
| 20    | 8.46    | 1.18  | 8.49     | .02   | 8.53     | -0.86 | 8.84    | -1.39 | 8.59     | -1.51 | 8.06  | -2.45 |
| 21    | 8.32    | .47   | 8.44     | -0.94 | 8.43     | -1.48 | 8.79    | -1.44 | 7.97     | -1.34 | 7.92  | -2.08 |
| 22    | 8.88    | .24   | 8.78     | -0.62 | 8.86     | -1.14 | 8.31    | -1.70 | 7.93     | -0.60 | 8.25  | -0.86 |
| 23    | 8.79    | .48   | 8.82     | -0.27 | 8.86     | -1.15 | 8.03    | -1.37 | 7.97     | -0.19 | 8.29  | -0.35 |
| 24    | 9.09    | .67   | 8.59     | -0.49 | 8.68     | -0.73 | 8.02    | -0.87 | 7.57     | -0.09 | 7.44  | -0.13 |
| 25    | 8.75    | .12   | 8.36     | -0.25 | 8.32     | -0.91 | 7.99    | -0.31 | 6.84     | .83   | 7.11  | .22   |
| 26    | 9.19    | .83   | 8.34     | .10   | 7.73     | -1.03 | 6.77    | -1.14 | 6.87     | 1.17  | 6.99  | .73   |
| 27    | 8.72    | .82   | 8.26     | .33   | 7.55     | -0.24 | 7.05    | -0.10 | 7.53     | .33   | 6.56  | .23   |
| 28    | 8.46    | .46   | 8.29     | .67   | 8.06     | -0.07 | 7.28    | -0.10 | 7.73     | .33   | 7.12  | .32   |
| 29    | 8.28    | .70   | 8.25     | .41   | 7.18     | -1.62 | 7.23    | -0.43 | 7.91     | .96   | 7.38  | .19   |
| 30    | 8.04    | .34   | 8.14     | -0.55 | 8.15     | .01   | 7.37    | -0.41 | ---      | ---   | 7.32  | -0.06 |
| 31    | 8.02    | -0.13 | ---      | ---   | 8.25     | -0.23 | 7.64    | -0.40 | ---      | ---   | 7.58  | -0.58 |
| MONTH | ---     | ---   | 9.17     | -0.94 | 8.86     | -1.62 | 9.07    | -1.70 | 9.00     | -2.71 | 9.12  | -2.45 |

## SAVANNAH RIVER BASIN

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02198977 SAVANNAH RIVER AT BROAD STREET AT SAVANNAH, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX   | MIN   | MAX  | MIN   | MAX  | MIN   | MAX  | MIN   | MAX    | MIN   | MAX       | MIN   |
|-------|-------|-------|------|-------|------|-------|------|-------|--------|-------|-----------|-------|
|       | APRIL |       | MAY  |       | JUNE |       | JULY |       | AUGUST |       | SEPTEMBER |       |
| 1     | 7.81  | -0.63 | 8.65 | -0.40 | 8.64 | -0.59 | 9.14 | -0.40 | 8.47   | -1.30 | 8.77      | .51   |
| 2     | 7.89  | -0.90 | 8.63 | -0.18 | 8.79 | -0.62 | 9.07 | -0.28 | 8.46   | -1.11 | 8.45      | .48   |
| 3     | 8.16  | -0.88 | 8.51 | -0.63 | 9.21 | -0.13 | 8.71 | -0.07 | 8.65   | -0.47 | 8.22      | .54   |
| 4     | 8.06  | -0.82 | 8.41 | -0.69 | 8.88 | 1.11  | 8.65 | -0.08 | 8.47   | .04   | 7.68      | .79   |
| 5     | 8.14  | -0.88 | 8.13 | -1.28 | 8.93 | .56   | 8.63 | .25   | 8.28   | .07   | 7.38      | .10   |
| 6     | 7.83  | -0.43 | 7.99 | -0.50 | 8.41 | .00   | 8.49 | .38   | 7.98   | -0.04 | 7.61      | .76   |
| 7     | 7.44  | -0.48 | 7.99 | -0.16 | 8.11 | -0.28 | 8.31 | .33   | 7.95   | -0.03 | 8.85      | 1.55  |
| 8     | 7.72  | .69   | 8.12 | .12   | 8.24 | -0.52 | 8.20 | -0.43 | 8.16   | .17   | 8.47      | 1.42  |
| 9     | 8.12  | 1.20  | 8.34 | .12   | 7.89 | -0.72 | 7.97 | -0.71 | 8.17   | .36   | 8.22      | .74   |
| 10    | 8.09  | 1.05  | 8.10 | -0.48 | 8.46 | -0.91 | 8.14 | -0.54 | 7.97   | .04   | 8.27      | .37   |
| 11    | 8.38  | .57   | 8.20 | -1.09 | 8.83 | .00   | 7.94 | -0.76 | 8.17   | -0.09 | 8.33      | .53   |
| 12    | 8.09  | -0.87 | 8.48 | -1.25 | 8.72 | -0.40 | 7.73 | -1.05 | 8.13   | .20   | 8.18      | .79   |
| 13    | 8.59  | -0.93 | 8.59 | -1.48 | 8.57 | -0.36 | 7.90 | -0.77 | 8.23   | .42   | 7.94      | .28   |
| 14    | 9.14  | -0.25 | 8.68 | -1.56 | 8.38 | -0.42 | 7.91 | -0.60 | 7.88   | -0.03 | 7.82      | .12   |
| 15    | 9.38  | -0.80 | 8.85 | -1.31 | 8.25 | -0.27 | 7.80 | -0.36 | 7.56   | .02   | 7.96      | .45   |
| 16    | 9.32  | -0.82 | 8.64 | -1.00 | 8.29 | .24   | 7.43 | -0.14 | 7.27   | .07   | 8.55      | 1.68  |
| 17    | 9.17  | -1.09 | 8.56 | -0.71 | 7.99 | .47   | 7.38 | -0.27 | 7.09   | .09   | 8.05      | 1.41  |
| 18    | 8.58  | -1.29 | 8.33 | -0.93 | 7.73 | .33   | 7.21 | -0.08 | 7.00   | .11   | 7.65      | 1.12  |
| 19    | 8.14  | -1.56 | 8.10 | -0.16 | 7.55 | .42   | 6.84 | .08   | 7.07   | .13   | 8.00      | 1.47  |
| 20    | 8.23  | -0.25 | 7.76 | -0.11 | 7.48 | .75   | 6.81 | .24   | 6.95   | .53   | 8.17      | 1.26  |
| 21    | 7.98  | .04   | 7.70 | .24   | 7.47 | .89   | 6.74 | .17   | 7.50   | .21   | 8.24      | .32   |
| 22    | 7.49  | .23   | 7.63 | .49   | 7.39 | 1.02  | 6.92 | .04   | 8.31   | .55   | 9.03      | .52   |
| 23    | 7.42  | .93   | 7.24 | .59   | 7.43 | 1.15  | 6.83 | .11   | 8.52   | .97   | 9.17      | -0.01 |
| 24    | 7.47  | .41   | 6.63 | .02   | 7.66 | .74   | 7.48 | -0.20 | 8.64   | .13   | 9.03      | -0.70 |
| 25    | 7.27  | 1.36  | 7.24 | .40   | 8.34 | 1.47  | 8.04 | .34   | 8.87   | -0.55 | 9.11      | -1.24 |
| 26    | 8.05  | 1.21  | 7.99 | 1.71  | 8.36 | .90   | 8.58 | -0.01 | 9.03   | -1.29 | 9.23      | -0.89 |
| 27    | 7.64  | .50   | 8.21 | .91   | 8.57 | -0.02 | 8.92 | -0.54 | 9.19   | -1.73 | 9.53      | -0.09 |
| 28    | 7.07  | -0.04 | 8.24 | .10   | 8.95 | .40   | 9.03 | -1.21 | 9.77   | -0.59 | 9.29      | -0.23 |
| 29    | 7.85  | -0.73 | 8.41 | -0.39 | 8.90 | -0.22 | 9.09 | -1.50 | 8.63   | -1.43 | 9.42      | .58   |
| 30    | 8.17  | -0.40 | 8.59 | -0.38 | 8.69 | -0.96 | 9.01 | -1.30 | 8.59   | -1.41 | 8.85      | .65   |
| 31    | ---   | ---   | 8.69 | -0.53 | ---  | ---   | 8.82 | -1.06 | 8.73   | -0.71 | ---       | ---   |
| MONTH | 9.38  | -1.56 | 8.85 | -1.56 | 9.21 | -0.96 | 9.14 | -1.50 | 9.77   | -1.73 | 9.53      | -1.24 |



## SAVANNAH RIVER BASIN

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 current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 24,700 microsiemens June 27, 1988; minimum recorded, 1,500 microsiemens July 24, 1988.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 24,700 microsiemens June 27; minimum recorded, 1,500 microsiemens July 24.

## SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN  | MAX      | MIN   | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX   | MIN  |
|-------|---------|------|----------|-------|----------|------|---------|------|----------|------|-------|------|
|       | OCTOBER |      | NOVEMBER |       | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH |      |
| 1     | 7500    | 6300 | 10300    | 8800  | ---      | ---  | 9100    | 8400 | 5800     | 4600 | 6500  | 5600 |
| 2     | 9000    | 6400 | 10200    | 9100  | ---      | ---  | 9100    | 7300 | 6500     | 4600 | 6700  | 5600 |
| 3     | 9300    | 7300 | 10000    | 9100  | ---      | ---  | 7700    | 6700 | 7400     | 5700 | 6900  | 6100 |
| 4     | 8700    | 7400 | 9900     | 9100  | 5600     | 3000 | 8400    | 7400 | 8100     | 5900 | 6900  | 5900 |
| 5     | 8800    | 7700 | 9800     | 9000  | 4800     | 2800 | 8600    | 8100 | 7600     | 5000 | 6600  | 5900 |
| 6     | 9700    | 7800 | 10000    | 8100  | 5200     | 3100 | 8600    | 7700 | 8200     | 6900 | 6800  | 5700 |
| 7     | 9200    | 7900 | 10100    | 8600  | 5300     | 2500 | 8400    | 6300 | 8200     | 7300 | 6800  | 5800 |
| 8     | 8300    | 7400 | 10100    | 9000  | 5400     | 2700 | 8200    | 7300 | 8400     | 7600 | 6700  | 5900 |
| 9     | 8800    | 7100 | 10100    | 8700  | 6000     | 3600 | 8600    | 7400 | 8200     | 7500 | 6600  | 5700 |
| 10    | 8100    | 7200 | 10300    | 9000  | 6500     | 4800 | 8800    | 8200 | 8300     | 7300 | 6700  | 5600 |
| 11    | 8000    | 7100 | 10500    | 9200  | 7100     | 5500 | 8900    | 8200 | 8400     | 7300 | 6700  | 6000 |
| 12    | 7900    | 6800 | 10400    | 8800  | 7000     | 5600 | 9100    | 8400 | 8900     | 7600 | 7500  | 6100 |
| 13    | 7900    | 5500 | 10600    | 9100  | 6900     | 6100 | 9400    | 8400 | 9200     | 8200 | 7400  | 5800 |
| 14    | 8800    | 6800 | 11100    | 9500  | 8100     | 6600 | 9500    | 8300 | 9200     | 8600 | 8100  | 5500 |
| 15    | 9400    | 8100 | 11600    | 9900  | 8500     | 7200 | 9200    | 8200 | 9800     | 7800 | 7500  | 5500 |
| 16    | 9600    | 8200 | 12100    | 10600 | 8300     | 6600 | 9700    | 8400 | 9800     | 6000 | 8400  | 6700 |
| 17    | 10200   | 8600 | 12000    | 10600 | 9000     | 7200 | 10500   | 9000 | 7200     | 4200 | 8100  | 6600 |
| 18    | 10800   | 9100 | 12000    | 10600 | 10400    | 8500 | 9200    | 7200 | 6300     | 2800 | 9300  | 6300 |
| 19    | 11100   | 9600 | 11700    | 10500 | 11300    | 9700 | 10100   | 5200 | 5100     | 3200 | 7600  | 5200 |
| 20    | 11000   | 9300 | ---      | ---   | 11400    | 8900 | 10400   | 8000 | 4200     | 3400 | 8100  | 4800 |
| 21    | 10700   | 9200 | ---      | ---   | 10700    | 5600 | 11100   | 7400 | 4500     | 3700 | 7800  | 4400 |
| 22    | 10500   | 8500 | ---      | ---   | 10200    | 4800 | 10500   | 8200 | 5300     | 4400 | 7800  | 4400 |
| 23    | 10400   | 8300 | ---      | ---   | 9600     | 7400 | 9500    | 8300 | 5100     | 4500 | 7200  | 6200 |
| 24    | 10400   | 8800 | ---      | ---   | 9100     | 8500 | 8900    | 6600 | 5300     | 4700 | 7500  | 6400 |
| 25    | 10400   | 9000 | ---      | ---   | 9100     | 8500 | 8500    | 7300 | 5400     | 4700 | 7300  | 5800 |
| 26    | 10100   | 9000 | ---      | ---   | 9100     | 8400 | 8100    | 6900 | 5800     | 5300 | 6700  | 5600 |
| 27    | 10200   | 8900 | ---      | ---   | 9100     | 8400 | 8400    | 7000 | 6300     | 5400 | 6400  | 3900 |
| 28    | 10100   | 8500 | ---      | ---   | 8800     | 8100 | 7700    | 7100 | 6200     | 5400 | 6000  | 3700 |
| 29    | 10200   | 8300 | ---      | ---   | 8600     | 8000 | 7300    | 6700 | 6500     | 5600 | 6300  | 4100 |
| 30    | 10500   | 8700 | ---      | ---   | 8500     | 8100 | 6900    | 6200 | ---      | ---  | 6700  | 3900 |
| 31    | 10400   | 9200 | ---      | ---   | 9000     | 8200 | 6400    | 5700 | ---      | ---  | 6300  | 4200 |
| MONTH | 11100   | 5500 | 12100    | 8100  | 11400    | 2500 | 11100   | 5200 | 9800     | 2800 | 9300  | 3700 |

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX   | MIN  | MAX  | MIN  | MAX   | MIN   | MAX   | MIN   | MAX    | MIN   | MAX       | MIN  |
|-------|-------|------|------|------|-------|-------|-------|-------|--------|-------|-----------|------|
|       | APRIL |      | MAY  |      | JUNE  |       | JULY  |       | AUGUST |       | SEPTEMBER |      |
| 1     | 7300  | 4300 | 5600 | 3900 | 9800  | 4400  | 20800 | 11900 | 14200  | 8100  | 10900     | 8600 |
| 2     | 7800  | 4300 | 5300 | 4200 | 10000 | 5000  | 20300 | 13200 | 14400  | 10500 | 9400      | 7800 |
| 3     | 8200  | 6500 | 6000 | 4500 | 8900  | 4500  | 19900 | 18200 | 13300  | 9900  | 8900      | 7600 |
| 4     | 7600  | 4800 | 6400 | 4400 | 9700  | 4300  | 18800 | 17500 | 14400  | 8300  | 8500      | 7100 |
| 5     | 7400  | 4700 | 6500 | 3900 | 10300 | 5700  | 18500 | 17300 | 13700  | 6700  | 8100      | 7300 |
| 6     | 7700  | 4000 | 5100 | 4300 | 10000 | 5700  | 18300 | 17100 | 13500  | 8500  | 7700      | 6800 |
| 7     | 7100  | 4700 | 5600 | 4100 | 9500  | 4500  | 18600 | 15700 | 12500  | 7600  | 7500      | 5700 |
| 8     | 7200  | 6200 | 5900 | 4200 | 9000  | 4800  | 17600 | 9900  | 11600  | 6700  | 7400      | 6400 |
| 9     | 7500  | 4400 | 6100 | 4400 | 9600  | 5800  | 15400 | 8900  | 10800  | 7000  | 7600      | 6700 |
| 10    | 6500  | 3500 | 5900 | 4100 | 9500  | 4200  | 14300 | 8300  | 10700  | 7200  | 7300      | 5400 |
| 11    | 6400  | 4200 | 5400 | 4100 | 6600  | 4700  | 14300 | 6900  | 10700  | 7800  | 6300      | 5000 |
| 12    | 6200  | 3600 | 6500 | 4800 | 10800 | 5000  | 12600 | 5300  | 11100  | 8500  | 5700      | 4700 |
| 13    | 6300  | 4300 | 6100 | 4800 | 11400 | 5000  | 13500 | 5700  | 11100  | 7700  | 5300      | 3900 |
| 14    | 8200  | 3500 | 6500 | 5000 | 12100 | 6400  | 13900 | 4500  | 10600  | 8600  | 4600      | 3300 |
| 15    | 4800  | 3200 | 7100 | 4400 | 11200 | 4800  | 14800 | 5600  | 10900  | 8400  | 4700      | 3500 |
| 16    | 4000  | 3000 | 8800 | 4800 | 10200 | 4500  | 14800 | 6100  | 10400  | 7800  | 4700      | 3700 |
| 17    | 3700  | 3100 | 9700 | 5600 | 10700 | 4600  | 15100 | 6500  | 10100  | 7700  | 4800      | 3700 |
| 18    | 3400  | 2300 | 9100 | 5000 | 9300  | 4400  | 15200 | 4200  | 10000  | 8300  | 4900      | 3700 |
| 19    | 2600  | 2000 | 8600 | 5300 | 8900  | 4000  | 12600 | 2600  | 10900  | 6000  | 4900      | 3600 |
| 20    | 2300  | 1900 | 8900 | 4900 | 8100  | 4000  | 10900 | 2000  | 11000  | 8600  | 6000      | 4000 |
| 21    | 2500  | 2000 | 8300 | 4900 | 8000  | 4100  | 10200 | 2400  | 11900  | 8700  | 7200      | 4400 |
| 22    | 2900  | 2400 | 8100 | 6500 | 8300  | 4200  | 9800  | 2400  | 13500  | 9600  | 8000      | 5000 |
| 23    | 3100  | 2600 | 8100 | 4900 | 7900  | 4400  | 9100  | 1800  | 15200  | 11600 | 8700      | 5700 |
| 24    | 3300  | 2900 | 7700 | 4500 | 7000  | 4000  | 11700 | 1500  | 15000  | 9700  | 9000      | 6700 |
| 25    | 3400  | 2800 | 7500 | 5800 | 8400  | 4300  | 10700 | 2200  | 13400  | 9700  | 9100      | 7400 |
| 26    | 3200  | 2600 | 7100 | 5000 | 8900  | 3600  | 12100 | 5600  | 13100  | 10700 | 8800      | 6500 |
| 27    | 3300  | 2700 | 8000 | 4200 | 24700 | 6500  | 12400 | 6000  | 13300  | 11000 | 9800      | 7300 |
| 28    | 3400  | 2800 | 7300 | 4800 | 23800 | 13100 | 12300 | 3700  | 12900  | 9400  | 9800      | 6800 |
| 29    | 3800  | 3100 | 8000 | 4900 | 21100 | 13500 | 12600 | 4600  | 12900  | 11400 | 9700      | 6600 |
| 30    | 4600  | 3500 | 9300 | 5300 | 21100 | 14000 | 13300 | 8900  | 13200  | 11000 | 9900      | 7000 |
| 31    | ---   | ---  | 9000 | 4400 | ---   | ---   | 13900 | 8000  | 11700  | 9800  | ---       | ---  |
| MONTH | 8200  | 1900 | 9700 | 3900 | 24700 | 3600  | 20800 | 1500  | 15200  | 6000  | 10900     | 3300 |
| YEAR  | 24700 | 1500 |      |      |       |       |       |       |        |       |           |      |

## SAVANNAH RIVER BASIN

## 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 current year.

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 PERIOD OF RECORD.--Maximum gage height recorded, 9.73 ft, Aug. 28, 1988; minimum gage height recorded, -1.54 ft, Feb. 16, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 9.73 ft, Aug. 28; minimum gage height recorded, -1.54 ft, Feb. 16.

## GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN   | MAX      | MIN   | MAX      | MIN   | MAX     | MIN   | MAX      | MIN   | MAX   | MIN   |
|-------|---------|-------|----------|-------|----------|-------|---------|-------|----------|-------|-------|-------|
|       | OCTOBER |       | NOVEMBER |       | DECEMBER |       | JANUARY |       | FEBRUARY |       | MARCH |       |
| 1     | 8.59    | .90   | 8.80     | .34   | 8.65     | -0.07 | 8.68    | -0.03 | 8.28     | -0.14 | 8.44  | .72   |
| 2     | 8.77    | .46   | 9.00     | .83   | 8.44     | -0.55 | 8.51    | -0.24 | 8.31     | -0.11 | 8.61  | .92   |
| 3     | 8.44    | -0.10 | 9.23     | 1.29  | 8.68     | -0.52 | 9.00    | 1.52  | 8.28     | -0.17 | 8.40  | .17   |
| 4     | 8.93    | .25   | 9.31     | .65   | 8.05     | -1.04 | 8.78    | .66   | 8.44     | .22   | 8.40  | -0.03 |
| 5     | 9.16    | .45   | 9.36     | 1.06  | 8.57     | -0.47 | 8.31    | -0.25 | 8.40     | .23   | 8.52  | -0.23 |
| 6     | 9.19    | .76   | 9.36     | .47   | 8.59     | -0.13 | 8.28    | .41   | 8.11     | .42   | 8.55  | .71   |
| 7     | 8.76    | -0.33 | 9.04     | .75   | 8.59     | .30   | 8.61    | 1.64  | 8.37     | .81   | 8.47  | .46   |
| 8     | 8.83    | -0.75 | 8.76     | .68   | 8.66     | 1.08  | 8.20    | .45   | 8.14     | .68   | 8.34  | .36   |
| 9     | 8.81    | -0.11 | 8.43     | .76   | 8.28     | .66   | 8.05    | .71   | 8.04     | .98   | 8.23  | .45   |
| 10    | 8.70    | .41   | 8.20     | 1.14  | 8.16     | .75   | 8.24    | 1.32  | 8.06     | 1.59  | 7.88  | -0.71 |
| 11    | 8.67    | .99   | 7.50     | .75   | 8.03     | .56   | 8.07    | 1.57  | 8.17     | 1.64  | 8.08  | 1.33  |
| 12    | 8.77    | 1.23  | 8.14     | 1.82  | 7.38     | .58   | 7.93    | 1.39  | 8.25     | .27   | 8.25  | .91   |
| 13    | 8.69    | 2.59  | 8.37     | 1.96  | 7.85     | .99   | 7.98    | .52   | 7.14     | -0.24 | 8.15  | -0.26 |
| 14    | 8.64    | 2.94  | 8.31     | 1.86  | 7.79     | 1.24  | 7.94    | 1.30  | 8.42     | -0.21 | 8.24  | -0.24 |
| 15    | 8.51    | 3.15  | 8.25     | 1.71  | 7.96     | .15   | 8.73    | 1.35  | 8.90     | -0.22 | 8.36  | -1.17 |
| 16    | 8.67    | 2.81  | 8.30     | 1.70  | 7.05     | -0.75 | 8.99    | 1.01  | 8.39     | -1.54 | 8.79  | -1.27 |
| 17    | 8.65    | 2.04  | 8.57     | 1.63  | 7.74     | -0.94 | 9.19    | .26   | 8.86     | -0.93 | 9.02  | -0.90 |
| 18    | 8.64    | 1.94  | 8.47     | .82   | 8.68     | -0.45 | 9.01    | -0.66 | 9.05     | -0.65 | 9.35  | -0.52 |
| 19    | 8.77    | 1.71  | 8.77     | .23   | 8.92     | -0.09 | 9.30    | -0.58 | 9.24     | .39   | 8.95  | -1.08 |
| 20    | 8.89    | 1.68  | 8.91     | .63   | 8.94     | -0.26 | 9.16    | -0.23 | 9.10     | -0.26 | 8.59  | -1.51 |
| 21    | 8.78    | .95   | 8.87     | -0.50 | 8.85     | -0.75 | 9.06    | -0.46 | 8.87     | -0.47 | 8.54  | -1.26 |
| 22    | 9.17    | .88   | 9.15     | .00   | 9.16     | -0.44 | 8.71    | -0.59 | 8.50     | .08   | 8.47  | -0.34 |
| 23    | 9.13    | 1.16  | 9.18     | .39   | 9.16     | -0.43 | 8.45    | -0.63 | 8.49     | .28   | 8.76  | .02   |
| 24    | 9.36    | 1.20  | 8.99     | .09   | 9.03     | .04   | 8.52    | -0.19 | 8.22     | .19   | 8.04  | .17   |
| 25    | 9.10    | .67   | 8.82     | .18   | 8.76     | .01   | 8.53    | .24   | 7.61     | 1.01  | 7.84  | .49   |
| 26    | 9.45    | 1.22  | 8.81     | .48   | 8.32     | -0.40 | 7.53    | -0.72 | 7.70     | 1.38  | 7.74  | 1.00  |
| 27    | 9.08    | 1.61  | 8.76     | .69   | 8.20     | .15   | 7.82    | .22   | 8.19     | .88   | 7.37  | .49   |
| 28    | 8.88    | .72   | 8.77     | 1.12  | 8.59     | .41   | 8.02    | .09   | 8.31     | .51   | 7.84  | .55   |
| 29    | 8.78    | 1.11  | 8.73     | .80   | 7.89     | -1.06 | 7.96    | .08   | 8.48     | 1.28  | 8.01  | .52   |
| 30    | 8.60    | .72   | 8.67     | .50   | 8.65     | -0.43 | 8.08    | -0.17 | ---      | ---   | 8.00  | .28   |
| 31    | 8.56    | .40   | ---      | ---   | 8.72     | .37   | 8.20    | -0.17 | ---      | ---   | 8.21  | -0.23 |
| MONTH | 9.45    | -0.75 | 9.36     | -0.50 | 9.16     | -1.06 | 9.30    | -0.72 | 9.24     | -1.54 | 9.35  | -1.51 |

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HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[illegible]

## SAVANNAH RIVER BASIN

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

## WATER-QUALITY RECORDS

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

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

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 18,800 microsiemens June 9, 1987; minimum recorded, 50 microsiemens Oct. 15, 1987.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 14,400 microsiemens Aug. 28; minimum, 50 microsiemens Oct. 15.

## SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX   | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |
| 1     | 1960    | 140 | 2840     | 380 | 340      | 160 | 2280    | 420 | 260      | 190 | 1090  | 240 |
| 2     | 1980    | 150 | 2720     | 390 | 240      | 130 | 2120    | 310 | 1140     | 220 | 1060  | 250 |
| 3     | 2050    | 170 | 2110     | 390 | 380      | 120 | 1390    | 340 | 1470     | 370 | 1180  | 310 |
| 4     | 2050    | 240 | 5710     | 610 | 250      | 130 | 2110    | 280 | 1600     | 440 | 1330  | 310 |
| 5     | 1970    | 290 | 4860     | 640 | 410      | 130 | 2510    | 370 | 1870     | 380 | 1320  | 300 |
| 6     | 2150    | 290 | 8450     | 630 | 480      | 190 | 2410    | 350 | 1930     | 360 | 1200  | 270 |
| 7     | 2020    | 300 | 3640     | 600 | 410      | 230 | 1470    | 320 | 1930     | 350 | 1230  | 240 |
| 8     | 2140    | 260 | 3030     | 510 | 610      | 240 | 2360    | 250 | 1930     | 300 | 1480  | 280 |
| 9     | 2040    | 280 | 3160     | 420 | 780      | 240 | 2390    | 290 | 1930     | 250 | 1710  | 270 |
| 10    | 2080    | 300 | 3160     | 270 | 980      | 250 | 2440    | 250 | 1810     | 240 | 1830  | 250 |
| 11    | 2000    | 180 | 3020     | 160 | 1200     | 200 | 2370    | 210 | 1970     | 240 | 1490  | 250 |
| 12    | 2030    | 90  | 2750     | 120 | 1350     | 280 | 2050    | 200 | 2210     | 320 | 1560  | 190 |
| 13    | 240     | 70  | 2490     | 90  | 1390     | 250 | 2290    | 230 | 2570     | 380 | 1460  | 210 |
| 14    | 190     | 60  | 2480     | 80  | 1480     | 220 | 1790    | 270 | 2650     | 430 | 1500  | 190 |
| 15    | 890     | 50  | 2420     | 120 | 1610     | 230 | 1810    | 230 | 2420     | 490 | 1890  | 230 |
| 16    | 1050    | 70  | 1990     | 180 | 1910     | 260 | 2040    | 330 | 2260     | 110 | 1670  | 280 |
| 17    | 1890    | 90  | 2400     | 140 | 2090     | 320 | 5270    | 430 | 3450     | 390 | 1540  | 300 |
| 18    | 2010    | 140 | 3510     | 180 | 1800     | 380 | 5960    | 430 | 6440     | 660 | 1550  | 330 |
| 19    | 2080    | 160 | 3280     | 230 | 1710     | 390 | 8850    | 560 | 5250     | 850 | 1470  | 260 |
| 20    | 2350    | 190 | 1220     | 220 | 2130     | 590 | 6630    | 730 | 2610     | 960 | 1610  | 260 |
| 21    | 2610    | 230 | 1310     | 190 | 2170     | 620 | 2470    | 740 | 1690     | 630 | 1650  | 220 |
| 22    | 2320    | 260 | 7990     | 290 | 6440     | 610 | 2410    | 400 | 1620     | 460 | 1580  | 190 |
| 23    | 2270    | 440 | 5220     | 370 | 6570     | 560 | 690     | 300 | 1420     | 330 | 1400  | 150 |
| 24    | 6070    | 570 | 1180     | 340 | 2130     | 670 | 490     | 260 | 1340     | 280 | 1490  | 210 |
| 25    | 2590    | 670 | 710      | 250 | 2420     | 700 | 370     | 240 | 1270     | 210 | 1380  | 230 |
| 26    | 7680    | 400 | 610      | 220 | 2530     | 560 | 370     | 190 | 1070     | 180 | 1340  | 150 |
| 27    | 3920    | 470 | 560      | 200 | 2470     | 520 | 230     | 170 | 1100     | 200 | 1290  | 150 |
| 28    | 2750    | 400 | 460      | 200 | 2460     | 450 | 250     | 180 | 1240     | 220 | 1400  | 200 |
| 29    | 2670    | 310 | 430      | 200 | 2450     | 340 | 220     | 180 | 1120     | 230 | 1460  | 240 |
| 30    | 2720    | 280 | 360      | 170 | 2300     | 340 | 240     | 180 | ---      | --- | 1520  | 260 |
| 31    | 2850    | 260 | ---      | --- | 2170     | 390 | 240     | 190 | ---      | --- | 1660  | 300 |
| MONTH | 7680    | 50  | 8450     | 80  | 6570     | 120 | 8850    | 170 | 6440     | 110 | 1890  | 150 |



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SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[illegible]

## SAVANNAH RIVER BASIN

02198980 SAVANNAH RIVER AT FORT PULASKI, GA.

LOCATION.--Lat 32°02'02", long 80°54'12", Chatham County, Hydrologic Unit 03060109, at downstream side of Coast Guard pier at Coast Guard station on Cockspur Island, 1 mi upstream from the mouth.

PERIOD OF RECORD.--October 1987 to September 1988.

GAGE.--Water-stage recorder. Datum of gage is ~~2.79~~ <sup>3.02</sup> below National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 8.94 ft, Sept. 27; minimum gage height recorded, -2.63 ft, Feb. 16.

## GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN   | MAX      | MIN   | MAX      | MIN   | MAX     | MIN   | MAX      | MIN   | MAX   | MIN   |
|-------|---------|-------|----------|-------|----------|-------|---------|-------|----------|-------|-------|-------|
|       | OCTOBER |       | NOVEMBER |       | DECEMBER |       | JANUARY |       | FEBRUARY |       | MARCH |       |
| 1     | ---     | ---   | 7.49     | .08   | 7.26     | -1.13 | 7.29    | -0.44 | 6.70     | -0.64 | 7.00  | .31   |
| 2     | ---     | ---   | 7.78     | .31   | 6.95     | -1.11 | 7.05    | -0.79 | 6.65     | -0.59 | 7.26  | .35   |
| 3     | ---     | ---   | 8.21     | .13   | 7.43     | -1.12 | 7.86    | 1.09  | 6.61     | -0.71 | 6.89  | -0.41 |
| 4     | ---     | ---   | 8.38     | -0.30 | 6.46     | -1.43 | 7.51    | -0.04 | 6.92     | -0.41 | 6.79  | -0.67 |
| 5     | ---     | ---   | 8.45     | -0.09 | 7.26     | -0.89 | 6.72    | -1.02 | 6.96     | -0.29 | 6.99  | -0.76 |
| 6     | ---     | ---   | 8.50     | -0.30 | 7.24     | -0.55 | 6.76    | -0.10 | 6.57     | -0.05 | 7.15  | .12   |
| 7     | ---     | ---   | 7.92     | .06   | 7.27     | -0.10 | 7.38    | 1.16  | 6.76     | .31   | 6.77  | -0.22 |
| 8     | ---     | ---   | 7.49     | -0.05 | 7.32     | .56   | 6.63    | -0.04 | 6.45     | .00   | 6.63  | -0.12 |
| 9     | ---     | ---   | 7.06     | .38   | 6.79     | .33   | 6.38    | .34   | 6.29     | .52   | 6.21  | -0.01 |
| 10    | 7.41    | -0.16 | 6.69     | .79   | 6.55     | .40   | 6.71    | .97   | 6.33     | 1.21  | 6.21  | -1.10 |
| 11    | 7.40    | .55   | 5.93     | .43   | 6.35     | .36   | 6.45    | 1.28  | 6.74     | 1.12  | 6.37  | .94   |
| 12    | 7.56    | .93   | 6.62     | 1.56  | 5.65     | .35   | 6.37    | .98   | 6.75     | -0.46 | 6.81  | .35   |
| 13    | 7.52    | 2.26  | 6.89     | 1.68  | 6.06     | .74   | 6.33    | .14   | 5.18     | -0.56 | 6.43  | -0.72 |
| 14    | 7.38    | 2.65  | 6.76     | 1.65  | 5.97     | 1.03  | 6.32    | .97   | 6.89     | -0.69 | 6.51  | -1.68 |
| 15    | 7.21    | 2.89  | 6.65     | 1.48  | 6.26     | -0.25 | 7.50    | .57   | 7.72     | -2.04 | 6.85  | -1.71 |
| 16    | 7.43    | 2.57  | 6.69     | 1.28  | 5.35     | -1.17 | 7.81    | -0.31 | 6.91     | -2.63 | 7.52  | -1.74 |
| 17    | 7.31    | 1.63  | 7.12     | .78   | 6.13     | -0.95 | 8.13    | -1.15 | 7.72     | -1.93 | 7.88  | -1.69 |
| 18    | 7.28    | 1.27  | 7.03     | -0.16 | 7.51     | -0.43 | 7.89    | -1.51 | 8.06     | -1.83 | 8.47  | -1.63 |
| 19    | 7.45    | 1.14  | 7.55     | -0.21 | 7.82     | -0.50 | 8.31    | -1.56 | 8.30     | -1.33 | 7.96  | -1.80 |
| 20    | 7.67    | .88   | 7.81     | .07   | 7.79     | -0.95 | 8.10    | -1.86 | 7.80     | -1.88 | 7.14  | -2.27 |
| 21    | 7.54    | .42   | 7.74     | -0.93 | 7.65     | -1.53 | 7.99    | -1.63 | 7.05     | -1.45 | 6.98  | -1.98 |
| 22    | 8.13    | .35   | 8.11     | -0.59 | 8.23     | -1.15 | 7.57    | -1.76 | 7.01     | -0.76 | 7.43  | -0.79 |
| 23    | 8.09    | .38   | 8.19     | -0.35 | 8.14     | -1.21 | 7.04    | -1.43 | 6.95     | -0.29 | 7.29  | -0.23 |
| 24    | 8.40    | .33   | 7.88     | -0.48 | 7.93     | -0.98 | 6.88    | -0.96 | 6.57     | -0.15 | 6.45  | -0.05 |
| 25    | 8.04    | .06   | 7.54     | -0.27 | 7.43     | -1.09 | 7.10    | -0.43 | 5.87     | .72   | 6.03  | .25   |
| 26    | 8.52    | .77   | 7.53     | .00   | 6.65     | -1.09 | 5.78    | -1.18 | 5.90     | .95   | 5.93  | .60   |
| 27    | 8.02    | .68   | 7.46     | .22   | 6.44     | -0.50 | 5.91    | -0.17 | 6.49     | .21   | 5.40  | .22   |
| 28    | 7.70    | .40   | 7.51     | .60   | 7.12     | -0.14 | 6.27    | -0.30 | 6.78     | .86   | 5.98  | .38   |
| 29    | 7.46    | .57   | 7.40     | .30   | 6.24     | -1.49 | 6.13    | -0.52 | 7.02     | .45   | 6.25  | .16   |
| 30    | 7.14    | .23   | 7.35     | -0.56 | 7.25     | -0.03 | 6.32    | -0.51 | ---      | ---   | 6.34  | -0.14 |
| 31    | 7.11    | -0.16 | ---      | ---   | 7.38     | -0.52 | 6.62    | -0.49 | ---      | ---   | 6.50  | -0.43 |
| MONTH | ---     | ---   | 8.50     | -0.93 | 8.23     | -1.53 | 8.31    | -1.86 | 8.30     | -2.63 | 8.47  | -2.27 |

## SAVANNAH RIVER BASIN

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02198980 SAVANNAH RIVER AT FORT PULASKI, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX   | MIN   | MAX  | MIN   | MAX  | MIN   | MAX  | MIN   | MAX    | MIN   | MAX       | MIN   |
|-------|-------|-------|------|-------|------|-------|------|-------|--------|-------|-----------|-------|
|       | APRIL |       | MAY  |       | JUNE |       | JULY |       | AUGUST |       | SEPTEMBER |       |
| 1     | 6.84  | -0.56 | 7.92 | -0.29 | 7.93 | -0.47 | 8.45 | -0.66 | ---    | ---   | ---       | ---   |
| 2     | 6.94  | -0.81 | 7.82 | -0.32 | 8.04 | -0.65 | 8.31 | -0.40 | ---    | ---   | ---       | ---   |
| 3     | 7.27  | -0.78 | 7.67 | -0.58 | 8.56 | -0.33 | 7.94 | -0.31 | ---    | ---   | ---       | ---   |
| 4     | 7.17  | -0.71 | 7.48 | -0.68 | 8.18 | .90   | 7.88 | -0.29 | ---    | ---   | ---       | ---   |
| 5     | 7.24  | -0.70 | 7.22 | -1.05 | 8.13 | .41   | 7.86 | .02   | ---    | ---   | ---       | ---   |
| 6     | 6.08  | -0.23 | 7.06 | -0.37 | 7.62 | -0.09 | 7.59 | .21   | ---    | ---   | ---       | ---   |
| 7     | 6.50  | -0.39 | 7.18 | .02   | 7.19 | -0.37 | 7.37 | .18   | ---    | ---   | ---       | ---   |
| 8     | 7.17  | .84   | 7.21 | .23   | 7.43 | -0.54 | 7.20 | -0.50 | ---    | ---   | 7.56      | 1.19  |
| 9     | 7.28  | 1.25  | 7.49 | .18   | 7.04 | -0.76 | 7.01 | -0.73 | 7.28   | .20   | 7.28      | .46   |
| 10    | 7.31  | .69   | 7.22 | -0.38 | 7.70 | -0.96 | 7.14 | -0.63 | 6.95   | -0.12 | 7.26      | .18   |
| 11    | 7.55  | .66   | 7.28 | -0.95 | 8.11 | -0.06 | 6.98 | -0.82 | 7.28   | -0.25 | 7.35      | .28   |
| 12    | 7.24  | -0.60 | 7.64 | -1.10 | 7.99 | -0.65 | 6.81 | -1.06 | 7.22   | .03   | 7.16      | .53   |
| 13    | 7.90  | -0.68 | 7.79 | -1.38 | 7.82 | -0.50 | 6.97 | -0.86 | 7.42   | .24   | 6.92      | .07   |
| 14    | 8.48  | -0.13 | 7.94 | -1.47 | 7.56 | -0.51 | 6.93 | -0.65 | 6.84   | -0.14 | 6.82      | .11   |
| 15    | 8.72  | -0.86 | 8.20 | -1.19 | 7.48 | -0.40 | 6.75 | -0.49 | 6.47   | -0.76 | 6.99      | .28   |
| 16    | 8.73  | -1.01 | 7.95 | -0.88 | 7.47 | .12   | 6.48 | -0.51 | 6.14   | -0.16 | 7.66      | 1.51  |
| 17    | 8.53  | -1.08 | 7.77 | -0.73 | 7.09 | .30   | 6.37 | -0.42 | 6.15   | -0.08 | 7.12      | 1.18  |
| 18    | 7.85  | -1.19 | 7.53 | -0.61 | 6.77 | .20   | 6.21 | -0.24 | 6.04   | -0.01 | 6.74      | .97   |
| 19    | 7.34  | -1.28 | 7.19 | -0.03 | 6.60 | .29   | 5.86 | -0.03 | 6.10   | .02   | 7.11      | 1.32  |
| 20    | 7.37  | -0.11 | 6.80 | -0.13 | 6.46 | .69   | 5.71 | .16   | 6.09   | .42   | 7.36      | 1.13  |
| 21    | 6.83  | .12   | 6.63 | .37   | 6.54 | .80   | 5.76 | .15   | 6.51   | .17   | 7.48      | .26   |
| 22    | 6.39  | .40   | 6.64 | .53   | 6.42 | .91   | 5.84 | .05   | 7.39   | .43   | 8.22      | .32   |
| 23    | 6.42  | .91   | 6.17 | .58   | 6.46 | .84   | 5.89 | .00   | 7.70   | .75   | 8.45      | -0.31 |
| 24    | 6.42  | .43   | 5.56 | .09   | 6.69 | .68   | 6.42 | -0.20 | 7.83   | -0.21 | 8.35      | -0.89 |
| 25    | 6.17  | 1.07  | 6.17 | .27   | 7.49 | 1.34  | 7.10 | .17   | ---    | ---   | 8.45      | -1.43 |
| 26    | 7.17  | 1.11  | 7.14 | 1.84  | 7.60 | .53   | ---  | ---   | ---    | ---   | 8.64      | -1.17 |
| 27    | 6.59  | .56   | 7.31 | 1.00  | 7.82 | -0.07 | ---  | ---   | ---    | ---   | 8.94      | -0.40 |
| 28    | 6.07  | -0.38 | 7.35 | .04   | 8.27 | .26   | ---  | ---   | ---    | ---   | 8.71      | -0.48 |
| 29    | 6.89  | -0.47 | 7.61 | -0.36 | 8.12 | -0.31 | ---  | ---   | ---    | ---   | 8.79      | .40   |
| 30    | 7.31  | -0.75 | 7.93 | -0.27 | 7.93 | -0.98 | ---  | ---   | ---    | ---   | 8.07      | .48   |
| 31    | ---   | ---   | 7.93 | -0.43 | ---  | ---   | ---  | ---   | ---    | ---   | ---       | ---   |
| MONTH | 8.73  | -1.28 | 8.20 | -1.47 | 8.56 | -0.98 | ---  | ---   | ---    | ---   | ---       | ---   |

## 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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet)† | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|----------------------|-------------------------|--------------------|------------------------------------------|
|               |                      |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 1865.0               | 103000                  | -                  | -                                        |
| Oct. 31.....  | 1864.5               | 102000                  | -1000              | -16                                      |
| Nov. 30.....  | 1861.7               | 94400                   | -7600              | -128                                     |
| Dec. 31.....  | 1857.6               | 84000                   | -10400             | -169                                     |
| CAL YR 1987   | -                    | -                       | -11700             | -16                                      |
| Jan. 31.....  | 1851.8               | 70800                   | -13200             | -215                                     |
| Feb. 29.....  | 1852.0               | 71200                   | +400               | +7                                       |
| Mar. 31.....  | 1856.2               | 80700                   | +9500              | +154                                     |
| Apr. 30.....  | 1862.5               | 96500                   | +15800             | +265                                     |
| May 31.....   | 1865.2               | 104000                  | +7500              | +122                                     |
| June 30.....  | 1865.1               | 104000                  | 0                  | 0                                        |
| July 31.....  | 1865.1               | 104000                  | 0                  | 0                                        |
| Aug. 31.....  | 1864.9               | 103000                  | -1000              | -16                                      |
| Sept. 30..... | 1865.0               | 103000                  | 0                  | 0                                        |
| WTR YR 1988   | -                    | -                       | 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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet)† | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|----------------------|-------------------------|--------------------|------------------------------------------|
|               |                      |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 1687.7               | 29700                   | -                  | -                                        |
| Oct. 31.....  | 1688.0               | 29900                   | +200               | +3                                       |
| Nov. 30.....  | 1676.0               | 21700                   | -8200              | -138                                     |
| Dec. 31.....  | 1687.7               | 29700                   | +8000              | +130                                     |
| CAL YR 1987   | -                    | -                       | +100               | 0                                        |
| Jan. 31.....  | 1687.8               | 29800                   | +100               | +2                                       |
| Feb. 29.....  | 1687.5               | 29500                   | -300               | -5                                       |
| Mar. 31.....  | 1687.7               | 29700                   | +200               | +3                                       |
| Apr. 30.....  | 1687.9               | 29800                   | +100               | +2                                       |
| May 31.....   | 1687.6               | 29600                   | -200               | -3                                       |
| June 30.....  | 1688.0               | 29900                   | +300               | +5                                       |
| July 31.....  | 1687.7               | 29700                   | -200               | -3                                       |
| Aug. 31.....  | 1687.8               | 29800                   | +100               | +2                                       |
| Sept. 30..... | 1687.7               | 29700                   | -100               | -2                                       |
| WTR YR 1988   | -                    | -                       | 0                  | 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 03060103, 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 mi<sup>2</sup>.

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, 2,195,600 acre-ft, Apr. 25, elevation, 653.27 ft; minimum, 1,909,400 acre-ft, Sept. 30, elevation, 647.12 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents<br>(acre-feet) | (equivalent in cubic<br>feet per second) |
|---------------|---------------------|-------------------------|-----------------------------------|------------------------------------------|
| Sept. 30..... | 653.25              | 2194600                 | -                                 | -                                        |
| Oct. 31.....  | 650.05              | 2041400                 | -153200                           | -2492                                    |
| Nov. 30.....  | 650.46              | 2060600                 | +19200                            | +323                                     |
| Dec. 31.....  | 650.28              | 2052200                 | -8400                             | -137                                     |
| CAL YR 1987   | -                   | -                       | -112000                           | -155                                     |
| Jan. 31.....  | 652.09              | 2138000                 | +85800                            | +1395                                    |
| Feb. 29.....  | 652.57              | 2161300                 | +23300                            | +405                                     |
| Mar. 31.....  | 651.98              | 2132600                 | -28700                            | -467                                     |
| Apr. 30.....  | 653.06              | 2185200                 | +52600                            | +884                                     |
| May 31.....   | 651.89              | 2128400                 | -56800                            | -924                                     |
| June 30.....  | 650.13              | 2045200                 | -83200                            | -1398                                    |
| July 31.....  | 649.41              | 2012000                 | -33200                            | -540                                     |
| Aug. 31.....  | 648.16              | 1955400                 | -56600                            | -920                                     |
| Sept. 30..... | 647.13              | 1909800                 | -45600                            | -766                                     |
| WTR YR 1988   | -                   | -                       | -284800                           | -392                                     |

## 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 mi<sup>2</sup> (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, 993,300 acre-ft, Feb. 4, elevation, 473.75 ft; minimum, 888,800 acre-ft, Oct. 5, elevation, 469.56 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents<br>(acre-feet) | (equivalent in cubic<br>feet per second) |
|---------------|---------------------|-------------------------|-----------------------------------|------------------------------------------|
| Sept. 30..... | 469.96              | 898400                  | -                                 | -                                        |
| Oct. 31.....  | 470.65              | 915200                  | +16800                            | +273                                     |
| Nov. 30.....  | 471.27              | 930400                  | +15200                            | +255                                     |
| Dec. 31.....  | 470.66              | 915400                  | -15000                            | -244                                     |
| CAL YR 1987   | -                   | -                       | -7400                             | -10                                      |
| Jan. 31.....  | 473.34              | 982700                  | +67300                            | +1095                                    |
| Feb. 29.....  | 472.31              | 956400                  | -26300                            | -457                                     |
| Mar. 31.....  | 472.66              | 965300                  | +8900                             | +145                                     |
| Apr. 30.....  | 471.91              | 946300                  | -19000                            | -319                                     |
| May 31.....   | 470.81              | 919100                  | -27200                            | -442                                     |
| June 30.....  | 471.71              | 941300                  | +22200                            | +373                                     |
| July 31.....  | 470.21              | 904500                  | -36800                            | -598                                     |
| Aug. 31.....  | 470.46              | 910500                  | +6000                             | +98                                      |
| Sept. 30..... | 470.99              | 923500                  | +13000                            | +218                                     |
| WTR YR 1988   | -                   | -                       | +25100                            | +35                                      |



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

02194500 THURMOND LAKE NEAR CLARKS HILL, S.C.

(Formerly published as Clarks Hill Lake 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 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1703: 1953.

GAGE.--Water-stage recorder. Datum of gage is at 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, 2,106,600 acre-ft, Oct. 1, elevation, 324.11 ft; minimum, 1,633,300 acre-ft, Sept. 30, elevation, 315.64 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|---------------------|-------------------------|--------------------|------------------------------------------|
|               |                     |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 324.13              | 2107800                 | -                  | -                                        |
| Oct. 31.....  | 320.88              | 1912800                 | -195000            | -3171                                    |
| Nov. 30.....  | 318.89              | 1802300                 | -110500            | -1857                                    |
| Dec. 31.....  | 318.35              | 1774200                 | -28100             | -457                                     |
| CAL YR 1987   | -                   | -                       | -319800            | -442                                     |
| Jan. 31.....  | 319.47              | 1832400                 | +58200             | +947                                     |
| Feb. 29.....  | 320.74              | 1904400                 | +72000             | +1252                                    |
| Mar. 31.....  | 320.09              | 1865400                 | -39000             | -634                                     |
| Apr. 30.....  | 321.79              | 1967400                 | +102000            | +1714                                    |
| May 31.....   | 321.11              | 1926600                 | -40800             | -664                                     |
| June 30.....  | 319.39              | 1828300                 | -98300             | -1652                                    |
| July 31.....  | 318.16              | 1764300                 | -64000             | -1041                                    |
| Aug. 31.....  | 316.46              | 1675900                 | -88400             | -1438                                    |
| Sept. 30..... | 315.64              | 1633300                 | -42600             | -716                                     |
| WTR YR 1988   | -                   | -                       | -474500            | -654                                     |

## OGEECHEE RIVER BASIN

87

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 mi<sup>2</sup>.

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.--8 years, 88.6 ft<sup>3</sup>/s, 11.04 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 650 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Apr. 27 | 0100 | *228                              | *5.52               |

Minimum discharge, 11 ft<sup>3</sup>/s, July 22.

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     | 29   | 28   | 57   | 53   | 60   | 52   | 53   | 48   | 17   | 26   | 22   | 35   |
| 2     | 24   | 28   | 52   | 86   | 61   | 51   | 52   | 43   | 16   | 28   | 19   | 21   |
| 3     | 22   | 30   | 50   | 131  | 64   | 52   | 52   | 39   | 16   | 23   | 16   | 22   |
| 4     | 20   | 31   | 49   | 160  | 80   | 102  | 57   | 41   | 15   | 22   | 15   | 24   |
| 5     | 20   | 33   | 46   | 108  | 84   | 130  | 51   | 52   | 14   | 24   | 20   | 87   |
| 6     | 21   | 33   | 48   | 76   | 68   | 84   | 48   | 44   | 14   | 21   | 28   | 92   |
| 7     | 20   | 33   | 46   | 68   | 59   | 68   | 47   | 38   | 15   | 18   | 23   | 41   |
| 8     | 19   | 33   | 46   | 101  | 57   | 61   | 46   | 33   | 19   | 16   | 24   | 30   |
| 9     | 19   | 35   | 50   | 91   | 56   | 75   | 44   | 32   | 23   | 15   | 21   | 112  |
| 10    | 20   | 45   | 50   | 84   | 54   | 140  | 42   | 32   | 32   | 14   | 18   | 191  |
| 11    | 21   | 54   | 49   | 87   | 53   | 149  | 47   | 32   | 30   | 16   | 16   | 93   |
| 12    | 21   | 46   | 47   | 82   | 56   | 91   | 87   | 29   | 23   | 25   | 15   | 54   |
| 13    | 21   | 41   | 45   | 78   | 54   | 78   | 76   | 28   | 19   | 33   | 14   | 41   |
| 14    | 20   | 40   | 45   | 81   | 52   | 69   | 62   | 29   | 17   | 23   | 15   | 36   |
| 15    | 21   | 41   | 61   | 73   | 54   | 62   | 48   | 28   | 16   | 19   | 20   | 30   |
| 16    | 21   | 40   | 90   | 65   | 60   | 58   | 42   | 27   | 15   | 17   | 26   | 27   |
| 17    | 22   | 84   | 77   | 68   | 56   | 55   | 38   | 26   | 14   | 16   | 27   | 62   |
| 18    | 22   | 196  | 61   | 110  | 54   | 62   | 40   | 25   | 18   | 17   | 23   | 174  |
| 19    | 26   | 133  | 55   | 122  | 126  | 113  | 127  | 24   | 31   | 14   | 18   | 103  |
| 20    | 23   | 74   | 51   | 133  | 155  | 98   | 155  | 22   | 48   | 12   | 16   | 58   |
| 21    | 20   | 57   | 55   | 154  | 115  | 74   | 86   | 22   | 27   | 12   | 26   | 44   |
| 22    | 20   | 51   | 89   | 106  | 84   | 65   | 59   | 20   | 20   | 12   | 34   | 35   |
| 23    | 21   | 48   | 84   | 84   | 70   | 61   | 66   | 20   | 17   | 16   | 47   | 30   |
| 24    | 24   | 48   | 65   | 71   | 65   | 59   | 131  | 19   | 16   | 19   | 42   | 27   |
| 25    | 26   | 48   | 60   | 72   | 59   | 61   | 102  | 27   | 15   | 16   | 28   | 26   |
| 26    | 27   | 56   | 57   | 77   | 57   | 95   | 191  | 29   | 17   | 15   | 21   | 25   |
| 27    | 28   | 86   | 55   | 69   | 56   | 92   | 172  | 24   | 29   | 19   | 18   | 25   |
| 28    | 27   | 89   | 65   | 64   | 60   | 78   | 93   | 21   | 21   | 21   | 18   | 24   |
| 29    | 27   | 71   | 78   | 62   | 54   | 68   | 64   | 21   | 17   | 39   | 27   | 23   |
| 30    | 27   | 63   | 64   | 60   | ---  | 60   | 52   | 20   | 17   | 28   | 30   | 23   |
| 31    | 28   | ---  | 56   | 60   | ---  | 56   | ---  | 19   | ---  | 21   | 30   | ---  |
| TOTAL | 707  | 1695 | 1803 | 2736 | 1983 | 2419 | 2230 | 914  | 608  | 617  | 717  | 1615 |
| MEAN  | 22.8 | 56.5 | 58.2 | 88.3 | 68.4 | 78.0 | 74.3 | 29.5 | 20.3 | 19.9 | 23.1 | 53.8 |
| MAX   | 29   | 196  | 90   | 160  | 155  | 149  | 191  | 52   | 48   | 39   | 47   | 191  |
| MIN   | 19   | 28   | 45   | 53   | 52   | 51   | 38   | 19   | 14   | 12   | 14   | 21   |
| CFSM  | .21  | .52  | .53  | .81  | .63  | .72  | .68  | .27  | .19  | .18  | .21  | .49  |
| IN.   | .24  | .58  | .62  | .93  | .68  | .83  | .76  | .31  | .21  | .21  | .24  | .55  |

|             |       |       |      |      |     |      |     |    |      |      |    |       |
|-------------|-------|-------|------|------|-----|------|-----|----|------|------|----|-------|
| CAL YR 1987 | TOTAL | 41774 | MEAN | 114  | MAX | 1700 | MIN | 16 | CFSM | 1.05 | IN | 14.26 |
| WTR YR 1988 | TOTAL | 18044 | MEAN | 49.3 | MAX | 196  | MIN | 12 | CFSM | .45  | IN | 6.16  |

## 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 mi<sup>2</sup>, approximately.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 0910 | 235                                             | 150                                               | 150                                                      | 7.00                           | 7.40                                  | 16.5                                 | 13.0                               | 8.7                                 | 89                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0905 | 270                                             | --                                                | 157                                                      | 6.90                           | 7.30                                  | 15.5                                 | 20.5                               | 6.2                                 | 62                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1050 | 500                                             | 98                                                | 106                                                      | 6.90                           | 7.30                                  | 9.0                                  | 17.0                               | 9.5                                 | 81                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 0840 | 760                                             | 102                                               | 102                                                      | --                             | 7.30                                  | 8.5                                  | 2.5                                | 8.6                                 | 72                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0935 | 1050                                            | 94                                                | 89                                                       | 7.10                           | 7.00                                  | 7.0                                  | 7.0                                | 10.4                                | 85                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1000 | 1350                                            | 98                                                | 90                                                       | 7.00                           | 7.20                                  | 15.0                                 | 15.5                               | 7.4                                 | 73                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 0745 | 920                                             | 113                                               | 110                                                      | 7.30                           | 7.20                                  | 16.5                                 | 11.5                               | 6.5                                 | 67                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 0705 | 3200                                            | 73                                                | 73                                                       | 6.90                           | 6.80                                  | 17.0                                 | 14.5                               | 6.2                                 | 64                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0745 | 240                                             | 178                                               | 167                                                      | 7.50                           | 7.40                                  | 25.0                                 | 25.0                               | 3.3                                 | 40                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 0840 | 200                                             | 118                                               | 105                                                      | 7.50                           | 7.40                                  | 26.5                                 | 24.0                               | 5.6                                 | 69                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0730 | 235                                             | 177                                               | 168                                                      | 7.50                           | 7.50                                  | 28.5                                 | 27.0                               | 4.5                                 | 58                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 0735 | 1250                                            | 98                                                | 97                                                       | 6.70                           | 6.70                                  | 23.5                                 | 23.0                               | 4.9                                 | 57                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 13... | 40                                           | 4.0                          | --                                                             | 1.0                                                            | 50                                               | 45                                                              | <1                                                               |
| NOV   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 09... | 30                                           | 2.0                          | --                                                             | 2.0                                                            | 20                                               | 45                                                              | <1                                                               |
| DEC   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 08... | 60                                           | 5.0                          | --                                                             | 1.9                                                            | 80                                               | 29                                                              | 2                                                                |
| JAN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 05... | 80                                           | 5.0                          | --                                                             | 0.9                                                            | 130                                              | --                                                              | 10                                                               |
| FEB   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 09... | 80                                           | 6.0                          | --                                                             | 1.2                                                            | 100                                              | 21                                                              | 3                                                                |
| MAR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 08... | 70                                           | 9.0                          | --                                                             | 1.5                                                            | 50                                               | 24                                                              | 1                                                                |
| APR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 12... | 80                                           | 6.0                          | --                                                             | 1.1                                                            | 140                                              | 36                                                              | 4                                                                |
| MAY   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 03... | 120                                          | 5.0                          | --                                                             | 1.0                                                            | --                                               | 20                                                              | <1                                                               |
| JUN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 07... | 40                                           | 5.0                          | --                                                             | 0.8                                                            | --                                               | 48                                                              | 17                                                               |
| JUL   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 12... | 30                                           | 5.0                          | 22                                                             | 1.3                                                            | 60                                               | 37                                                              | 4                                                                |
| AUG   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 09... | 15                                           | 3.0                          | 16                                                             | 1.2                                                            | 20                                               | 50                                                              | <1                                                               |
| SEP   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 13... | 120                                          | 4.0                          | <5                                                             | 0.7                                                            | --                                               | 18                                                              | 1                                                                |

02202190 OGEECHEE RIVER NEAR OLIVER, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 13... | 0.200                                                | 0.020                                                | --                                                   | --                                                                 | --                                        | 0.130                                       | 4.8                                           |
| NOV   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 09... | 0.040                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.120                                       | 5.7                                           |
| DEC   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 08... | 0.090                                                | 0.050                                                | --                                                   | --                                                                 | --                                        | 0.080                                       | 1.7                                           |
| JAN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 05... | 0.130                                                | 0.040                                                | --                                                   | --                                                                 | --                                        | 0.080                                       | 6.4                                           |
| FEB   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 09... | 0.080                                                | 0.040                                                | --                                                   | --                                                                 | --                                        | 0.060                                       | 7.6                                           |
| MAR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 08... | 0.050                                                | 0.030                                                | --                                                   | --                                                                 | --                                        | 0.060                                       | 10                                            |
| APR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 12... | 0.180                                                | 0.380                                                | --                                                   | --                                                                 | --                                        | 0.060                                       | 11                                            |
| MAY   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 03... | 0.040                                                | 0.030                                                | --                                                   | --                                                                 | --                                        | 0.080                                       | 20                                            |
| JUN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 07... | 0.350                                                | 0.040                                                | --                                                   | --                                                                 | --                                        | 0.120                                       | 5.6                                           |
| JUL   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 12... | 0.250                                                | 0.060                                                | 0.24                                                 | 0.30                                                               | 0.55                                      | 0.090                                       | 4.5                                           |
| AUG   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 09... | 0.270                                                | 0.050                                                | 0.35                                                 | 0.40                                                               | 0.67                                      | 0.150                                       | 6.3                                           |
| SEP   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 13... | 0.240                                                | 0.030                                                | 0.77                                                 | 0.80                                                               | 1.0                                       | 0.090                                       | 19                                            |

## OGEECHEE RIVER BASIN

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

LOCATION.--Lat 32°11'29", long 81°24'58", Effingham-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 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 19.64 ft 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.--51 years, 2,301 ft<sup>3</sup>/s, 11.79 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft<sup>3</sup>/s, Mar. 19, 1980, gage height, 14.77 ft; minimum daily, 114 ft<sup>3</sup>/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 ft<sup>3</sup>/s.  
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,800 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Apr. 29 | 2300 | *3,330                            | *7.84               |

Minimum daily discharge, 120 ft<sup>3</sup>/s, July 27.

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           | 437   | 236    | 557   | 614   | 1440  | 1880  | 1460  | 3150  | 387  | 200  | 166  | 393   |
| 2           | 390   | 238    | 542   | 630   | 1470  | 1850  | 1430  | 3000  | 364  | 196  | 162  | 437   |
| 3           | 352   | 240    | 518   | 671   | 1490  | 1790  | 1380  | 2930  | 350  | 198  | 159  | 414   |
| 4           | 324   | 246    | 512   | 739   | 1500  | 1790  | 1330  | 2920  | 335  | 216  | 169  | 438   |
| 5           | 304   | 259    | 521   | 787   | 1520  | 1780  | 1270  | 3030  | 322  | 230  | 173  | 487   |
| 6           | 296   | 270    | 533   | 825   | 1540  | 1740  | 1220  | 3050  | 305  | 229  | 176  | 570   |
| 7           | 292   | 273    | 538   | 847   | 1540  | 1700  | 1190  | 3010  | 288  | 218  | 187  | 678   |
| 8           | 287   | 270    | 538   | 862   | 1490  | 1650  | 1170  | 2910  | 272  | 212  | 209  | 714   |
| 9           | 280   | 267    | 533   | 859   | 1400  | 1620  | 1150  | 2770  | 260  | 209  | 223  | 850   |
| 10          | 271   | 266    | 521   | 868   | 1270  | 1630  | 1130  | 2650  | 253  | 208  | 229  | 1010  |
| 11          | 261   | 264    | 504   | 887   | 1180  | 1730  | 1110  | 2540  | 237  | 218  | 238  | 1140  |
| 12          | 254   | 265    | 486   | 914   | 1110  | 1900  | 1070  | 2370  | 226  | 226  | 238  | 1350  |
| 13          | 248   | 266    | 474   | 944   | 1060  | 2080  | 1040  | 2130  | 217  | 219  | 226  | 1650  |
| 14          | 243   | 268    | 466   | 976   | 1030  | 2190  | 1010  | 1850  | 214  | 202  | 213  | 1930  |
| 15          | 240   | 266    | 470   | 1010  | 1020  | 2250  | 987   | 1590  | 226  | 185  | 220  | 1890  |
| 16          | 236   | 269    | 476   | 1050  | 1030  | 2260  | 974   | 1350  | 250  | 180  | 229  | 1730  |
| 17          | 234   | 278    | 474   | 1090  | 1050  | 2270  | 983   | 1140  | 279  | 166  | 229  | 1650  |
| 18          | 232   | 294    | 484   | 1130  | 1100  | 2250  | 1020  | 993   | 293  | 156  | 217  | 1740  |
| 19          | 232   | 304    | 485   | 1200  | 1280  | 2210  | 1130  | 904   | 285  | 156  | 202  | 2010  |
| 20          | 231   | 320    | 485   | 1280  | 1500  | 2140  | 1280  | 860   | 266  | 152  | 202  | 2420  |
| 21          | 230   | 327    | 487   | 1340  | 1740  | 2080  | 1490  | 833   | 244  | 143  | 194  | 2670  |
| 22          | 229   | 331    | 498   | 1380  | 1980  | 2020  | 1690  | 795   | 225  | 140  | 198  | 2560  |
| 23          | 229   | 339    | 515   | 1370  | 2130  | 1950  | 1870  | 766   | 202  | 143  | 235  | 2400  |
| 24          | 229   | 357    | 536   | 1340  | 2180  | 1880  | 1970  | 753   | 185  | 140  | 257  | 2290  |
| 25          | 228   | 387    | 558   | 1290  | 2120  | 1820  | 2070  | 780   | 183  | 127  | 251  | 2130  |
| 26          | 227   | 421    | 577   | 1270  | 2020  | 1750  | 2300  | 706   | 198  | 127  | 241  | 1900  |
| 27          | 231   | 454    | 598   | 1280  | 1930  | 1680  | 2560  | 619   | 216  | 120  | 245  | 1870  |
| 28          | 234   | 490    | 609   | 1300  | 1900  | 1610  | 2930  | 548   | 221  | 132  | 258  | 2450  |
| 29          | 238   | 519    | 615   | 1330  | 1890  | 1560  | 3250  | 492   | 213  | 137  | 278  | 2810  |
| 30          | 238   | 545    | 610   | 1360  | ---   | 1520  | 3290  | 450   | 201  | 140  | 280  | 2750  |
| 31          | 236   | ---    | 610   | 1400  | ---   | 1490  | ---   | 417   | ---  | 152  | 327  | ---   |
| TOTAL       | 8193  | 9529   | 16330 | 32843 | 43910 | 58070 | 46754 | 52306 | 7717 | 5477 | 6831 | 47331 |
| MEAN        | 264   | 318    | 527   | 1059  | 1514  | 1873  | 1558  | 1687  | 257  | 177  | 220  | 1578  |
| MAX         | 437   | 545    | 615   | 1400  | 2180  | 2270  | 3290  | 3150  | 387  | 230  | 327  | 2810  |
| MIN         | 227   | 236    | 466   | 614   | 1020  | 1490  | 974   | 417   | 183  | 120  | 159  | 393   |
| CFSM        | .10   | .12    | .20   | .40   | .57   | .71   | .59   | .64   | .10  | .07  | .08  | .60   |
| IN.         | .12   | .13    | .23   | .46   | .62   | .82   | .66   | .73   | .11  | .08  | .10  | .66   |
| CAL YR 1987 | TOTAL | 999993 | MEAN  | 2740  | MAX   | 19000 | MIN   | 215   | CFSM | 1.03 | IN   | 14.04 |
| WTR YR 1988 | TOTAL | 335291 | MEAN  | 916   | MAX   | 3290  | MIN   | 120   | CFSM | .35  | IN   | 4.71  |



## OGEECHEE RIVER BASIN

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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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>WATER<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>MG/L AS<br>HCO3 | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                              |                                                                |                                                                 |                                                                 |                                                           |
| 07... | 1300 | 292                                             | 178                                               | 178                                                      | 7.76                           | 8.00                                  | 19.5                                 | 8.0                                          | 87                                                             | 58                                                              | 48                                                              | 47                                                        |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                              |                                                                |                                                                 |                                                                 |                                                           |
| 11... | 1400 | 888                                             | 96                                                | 104                                                      | 7.13                           | 7.50                                  | 4.5                                  | 11.8                                         | 90                                                             | 26                                                              | 22                                                              | 23                                                        |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                              |                                                                |                                                                 |                                                                 |                                                           |
| 14... | 1430 | 2200                                            | 77                                                | 80                                                       | 6.95                           | 7.10                                  | 15.0                                 | 7.1                                          | 71                                                             | 19                                                              | 15                                                              | 17                                                        |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                              |                                                                |                                                                 |                                                                 |                                                           |
| 09... | 1300 | 2760                                            | 74                                                | 75                                                       | 6.90                           | 7.40                                  | 20.0                                 | 6.3                                          | 69                                                             | 24                                                              | 20                                                              | 21                                                        |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                              |                                                                |                                                                 |                                                                 |                                                           |
| 11... | 1030 | 217                                             | 103                                               | 107                                                      | 7.64                           | 7.70                                  | 28.0                                 | 6.5                                          | 82                                                             | 57                                                              | 47                                                              | 36                                                        |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                              |                                                                |                                                                 |                                                                 |                                                           |
| 16... | 1330 | 229                                             | 168                                               | 168                                                      | 7.73                           | 7.90                                  | 28.0                                 | 6.7                                          | 85                                                             | 71                                                              | 58                                                              | 55                                                        |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CACO3 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|
| OCT   |                              |                                                                |                                                                    |                                                 |                                                                   |                                              |                                                      |                                              |                   |                                         |                                                     |
| 07... | 2.6                          | 27                                                             | 23                                                                 | 39                                              | 0                                                                 | 13                                           | 1.5                                                  | 20                                           | 49                | 1                                       | 5.0                                                 |
| JAN   |                              |                                                                |                                                                    |                                                 |                                                                   |                                              |                                                      |                                              |                   |                                         |                                                     |
| 11... | 4.7                          | 190                                                            | 220                                                                | 26                                              | 3                                                                 | 8.4                                          | 1.3                                                  | 9.2                                          | 41                | 0.8                                     | 1.6                                                 |
| MAR   |                              |                                                                |                                                                    |                                                 |                                                                   |                                              |                                                      |                                              |                   |                                         |                                                     |
| 14... | 3.1                          | 200                                                            | 220                                                                | 22                                              | 5                                                                 | 6.6                                          | 1.4                                                  | 6.1                                          | 35                | 0.6                                     | 1.6                                                 |
| MAY   |                              |                                                                |                                                                    |                                                 |                                                                   |                                              |                                                      |                                              |                   |                                         |                                                     |
| 09... | 3.8                          | 100                                                            | --                                                                 | 25                                              | 4                                                                 | 7.7                                          | 1.4                                                  | 4.8                                          | 27                | 0.4                                     | 2.1                                                 |
| JUL   |                              |                                                                |                                                                    |                                                 |                                                                   |                                              |                                                      |                                              |                   |                                         |                                                     |
| 11... | 0.70                         | 68                                                             | 24                                                                 | 36                                              | 0                                                                 | 12                                           | 1.4                                                  | 7.5                                          | 31                | 0.6                                     | 1.1                                                 |
| AUG   |                              |                                                                |                                                                    |                                                 |                                                                   |                                              |                                                      |                                              |                   |                                         |                                                     |
| 16... | 1.6                          | 20                                                             | 67                                                                 | 33                                              | 0                                                                 | 11                                           | 1.4                                                  | 22                                           | 58                | 2                                       | 1.5                                                 |

| DATE  | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITU-<br>ENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) |
|-------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| OCT   |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                   |                                                     |
| 07... | 20                                            | 11                                                  | 0.10                                               | 12                                                | 155                                                                | 113                                                                 | 122                                               | 0.21                                                |
| JAN   |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                   |                                                     |
| 11... | 13                                            | 9.0                                                 | 0.10                                               | 12                                                | 76                                                                 | 70                                                                  | 182                                               | 0.10                                                |
| MAR   |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                   |                                                     |
| 14... | 12                                            | 9.3                                                 | 0.10                                               | 7.2                                               | 74                                                                 | 55                                                                  | 440                                               | 0.10                                                |
| MAY   |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                   |                                                     |
| 09... | 12                                            | 7.6                                                 | 0.10                                               | 9.4                                               | 73                                                                 | 59                                                                  | 544                                               | 0.10                                                |
| JUL   |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                   |                                                     |
| 11... | 9.0                                           | 5.3                                                 | 0.10                                               | 4.7                                               | 59                                                                 | 70                                                                  | 34.6                                              | 0.08                                                |
| AUG   |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                   |                                                     |
| 16... | 13                                            | 10                                                  | 0.10                                               | 9.5                                               | 102                                                                | 105                                                                 | 63.1                                              | 0.14                                                |

## OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE      | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) |
|-----------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
| OCT 07... | <0.010                                                        | 0.200                                                         | 0.020                                                | 0.030                                                         | 0.38                                                 | 0.40                                                               | 0.100                                       | 0.090                                                | 0.040                                                          |
| JAN 11... | 0.020                                                         | 0.120                                                         | 0.020                                                | 0.020                                                         | 0.28                                                 | 0.30                                                               | 0.050                                       | 0.060                                                | 0.030                                                          |
| MAR 14... | <0.010                                                        | <0.100                                                        | 0.050                                                | 0.060                                                         | 1.5                                                  | 1.5                                                                | 0.070                                       | 0.040                                                | 0.010                                                          |
| MAY 09... | <0.010                                                        | <0.100                                                        | 0.030                                                | 0.080                                                         | 0.77                                                 | 0.80                                                               | 0.070                                       | 0.050                                                | 0.040                                                          |
| JUL 11... | <0.010                                                        | <0.100                                                        | 0.030                                                | 0.030                                                         | --                                                   | <0.20                                                              | 0.060                                       | 0.060                                                | 0.040                                                          |
| AUG 16... | <0.010                                                        | 0.270                                                         | 0.010                                                | 0.010                                                         | 0.49                                                 | 0.50                                                               | 0.140                                       | 0.110                                                | 0.070                                                          |

| DATE      | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|-----------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| OCT 07... | 20                                                  | 1                                            | 24                                           | <0.5                                                 | <1                                          | <1                                                  | <3                                           | 2                                            | 680                                        | <5                                         |
| JAN 11... | 130                                                 | 1                                            | 22                                           | <0.5                                                 | <1                                          | <1                                                  | <3                                           | 2                                            | 660                                        | <5                                         |
| MAY 09... | 90                                                  | 1                                            | 28                                           | <0.5                                                 | <1                                          | <1                                                  | <3                                           | 2                                            | 680                                        | <5                                         |
| AUG 16... | <10                                                 | 1                                            | 20                                           | <0.5                                                 | <1                                          | 2                                                   | <3                                           | 1                                            | 140                                        | <5                                         |

| DATE      | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|-----------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| OCT 07... | 7                                            | 72                                                   | <0.1                                         | <10                                                   | 2                                            | <1                                                  | <1.0                                         | 41                                                   | <6                                                 | 6                                          |
| JAN 11... | <4                                           | 22                                                   | <0.1                                         | <10                                                   | <1                                           | <1                                                  | <1.0                                         | 26                                                   | <6                                                 | <3                                         |
| MAY 09... | <4                                           | 39                                                   | 0.8                                          | <10                                                   | 16                                           | <1                                                  | <1.0                                         | 27                                                   | <6                                                 | <3                                         |
| AUG 16... | 5                                            | 68                                                   | <0.1                                         | <10                                                   | <1                                           | <1                                                  | <1.0                                         | 41                                                   | <6                                                 | 12                                         |

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|-----------|------|-------------------------------------------------|--------------------------------------|--------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------|
| OCT 07... | 1305 | 292                                             | 19.5                                 | 11                                         | 8.7                                                            | 69                                                    |
| MAR 14... | 1435 | 2200                                            | 15.0                                 | 6                                          | 36                                                             | 76                                                    |
| MAY 09... | 1305 | 2760                                            | 20.0                                 | 5                                          | 37                                                             | 94                                                    |
| JUL 11... | 1035 | 217                                             | 28.0                                 | 6                                          | 3.5                                                            | 71                                                    |
| AUG 16... | 1335 | 229                                             | 28.0                                 | 6                                          | 3.7                                                            | 75                                                    |

## 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 mi<sup>2</sup>.

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.--8 years, 151 ft<sup>3</sup>/s, 8.84 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,480 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date     | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|----------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Sept. 20 | 1400 | *1,090                         | *8.98            | No other peak greater than base discharge. |      |                                |                  |

Minimum daily discharge, 0.56 ft<sup>3</sup>/s, July 26.

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           | 21    | 4.9       | 10    | 19   | 73   | 127  | 50     | 245    | 2.1   | 1.0   | .93    | 120   |
| 2           | 19    | 5.5       | 9.3   | 26   | 75   | 115  | 45     | 167    | 1.8   | .97   | .87    | 71    |
| 3           | 15    | 6.0       | 8.5   | 60   | 74   | 120  | 40     | 104    | 1.7   | .98   | .92    | 62    |
| 4           | 12    | 6.7       | 8.2   | 97   | 73   | 145  | 37     | 73     | 1.7   | 1.0   | .86    | 68    |
| 5           | 9.8   | 8.7       | 8.2   | 102  | 79   | 207  | 37     | 93     | 1.6   | .95   | .90    | 115   |
| 6           | 8.4   | 9.3       | 8.1   | 106  | 90   | 248  | 33     | 122    | 1.6   | .88   | .88    | 183   |
| 7           | 7.3   | 9.3       | 8.0   | 103  | 94   | 265  | 27     | 116    | 1.5   | .82   | .80    | 203   |
| 8           | 5.8   | 8.4       | 7.9   | 92   | 91   | 227  | 21     | 91     | 1.4   | .80   | .80    | 190   |
| 9           | 4.9   | 7.5       | 8.1   | 76   | 83   | 205  | 17     | 66     | 1.3   | .84   | .77    | 296   |
| 10          | 4.1   | 7.4       | 9.1   | 67   | 73   | 223  | 13     | 53     | 1.3   | .76   | .73    | 511   |
| 11          | 3.4   | 7.6       | 9.7   | 65   | 65   | 255  | 11     | 43     | 1.4   | .75   | 8.1    | 769   |
| 12          | 3.7   | 7.3       | 10    | 61   | 61   | 274  | 12     | 34     | 1.3   | .91   | 4.0    | 857   |
| 13          | 3.2   | 7.0       | 10    | 57   | 57   | 257  | 12     | 26     | 1.2   | .85   | 2.5    | 660   |
| 14          | 2.9   | 7.0       | 9.7   | 51   | 52   | 237  | 10     | 30     | 1.2   | .78   | 3.5    | 437   |
| 15          | 2.8   | 7.0       | 18    | 44   | 56   | 219  | 8.8    | 44     | 1.2   | .78   | 2.6    | 278   |
| 16          | 2.6   | 6.7       | 39    | 39   | 69   | 182  | 7.6    | 52     | 1.2   | .96   | 2.3    | 185   |
| 17          | 2.5   | 12        | 30    | 36   | 71   | 137  | 6.9    | 48     | 1.2   | .84   | 3.2    | 149   |
| 18          | 2.4   | 26        | 24    | 47   | 74   | 112  | 6.2    | 53     | 1.1   | .72   | 2.6    | 266   |
| 19          | 2.4   | 26        | 22    | 80   | 153  | 112  | 42     | 37     | 1.0   | .64   | 2.0    | 480   |
| 20          | 2.5   | 19        | 23    | 111  | 296  | 115  | 69     | 23     | 1.0   | .62   | 1.8    | 1010  |
| 21          | 2.5   | 15        | 23    | 168  | 567  | 120  | 93     | 15     | .98   | .57   | 1.6    | 877   |
| 22          | 2.3   | 13        | 24    | 225  | 754  | 120  | 126    | 11     | .95   | .57   | 6.6    | 605   |
| 23          | 2.4   | 12        | 27    | 219  | 696  | 112  | 105    | 8.1    | .85   | .66   | 9.9    | 409   |
| 24          | 2.4   | 11        | 24    | 179  | 476  | 104  | 90     | 6.8    | .79   | .68   | 6.0    | 260   |
| 25          | 2.5   | 10        | 27    | 143  | 337  | 99   | 94     | 9.4    | .76   | .62   | 5.1    | 182   |
| 26          | 2.8   | 10        | 30    | 114  | 282  | 108  | 177    | 8.0    | .73   | .56   | 5.6    | 147   |
| 27          | 3.9   | 11        | 29    | 104  | 228  | 100  | 237    | 5.3    | .82   | .60   | 4.6    | 149   |
| 28          | 3.6   | 11        | 28    | 97   | 175  | 86   | 335    | 3.8    | .87   | .76   | 16     | 138   |
| 29          | 4.2   | 11        | 29    | 85   | 142  | 74   | 396    | 3.0    | .77   | .93   | 29     | 209   |
| 30          | 4.0   | 12        | 25    | 75   | ---  | 65   | 345    | 2.6    | .79   | 1.4   | 29     | 294   |
| 31          | 4.2   | ---       | 21    | 71   | ---  | 57   | ---    | 2.3    | ---   | 1.1   | 154    | ---   |
| TOTAL       | 170.5 | 315.3     | 567.8 | 2819 | 5416 | 4827 | 2503.5 | 1595.3 | 36.11 | 25.30 | 308.46 | 10180 |
| MEAN        | 5.50  | 10.5      | 18.3  | 90.9 | 187  | 156  | 83.5   | 51.5   | 1.20  | .82   | 9.95   | 339   |
| MAX         | 21    | 26        | 39    | 225  | 754  | 274  | 396    | 245    | 2.1   | 1.4   | 154    | 1010  |
| MIN         | 2.3   | 4.9       | 7.9   | 19   | 52   | 57   | 6.2    | 2.3    | .73   | .56   | .73    | 62    |
| CFSM        | .02   | .05       | .08   | .39  | .81  | .67  | .36    | .22    | .005  | .004  | .04    | 1.46  |
| IN.         | .03   | .05       | .09   | .45  | .87  | .77  | .40    | .26    | .01   | .00   | .05    | 1.63  |
| CAL YR 1987 | TOTAL | 103940.50 | MEAN  | 285  | MAX  | 3220 | MIN    | 1.6    | CFSM  | 1.23  | IN     | 16.67 |
| WTR YR 1988 | TOTAL | 28764.27  | MEAN  | 78.6 | MAX  | 1010 | MIN    | .56    | CFSM  | .34   | IN     | 4.61  |

## OGEECHEE RIVER BASIN

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 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 80.5 ft 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.--51 years, 462 ft<sup>3</sup>/s, 11.30 in/yr.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft<sup>3</sup>/s, May 26, 1966, gage height, 16.58 ft; minimum daily discharge 0.62 ft<sup>3</sup>/s, Nov. 8, 19, 1983.EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft<sup>3</sup>/s and maximum (\*):

| Date  | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|-------|------|-----------------------------------|---------------------|
| May 1 | 0300 | *1,700                            | *9.61               |

Minimum daily discharge, 1.1 ft<sup>3</sup>/s, July 16.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     | 90    | 7.7   | 63   | 50   | 259   | 557   | 354   | 1660  | 22    | 2.9  | 4.3   | 67    |
| 2     | 82    | 8.1   | 57   | 57   | 232   | 435   | 331   | 1410  | 18    | 2.8  | 3.6   | 38    |
| 3     | 67    | 8.3   | 51   | 94   | 218   | 370   | 304   | 1070  | 15    | 2.6  | 3.3   | 26    |
| 4     | 55    | 8.7   | 46   | 153  | 253   | 411   | 275   | 750   | 13    | 2.8  | 3.5   | 37    |
| 5     | 46    | 9.2   | 41   | 168  | 388   | 598   | 251   | 575   | 11    | 2.2  | 4.4   | 126   |
| 6     | 41    | 9.2   | 36   | 171  | 423   | 691   | 227   | 531   | 8.4   | 1.9  | 9.5   | 160   |
| 7     | 40    | 11    | 33   | 177  | 397   | 742   | 202   | 481   | 7.0   | 1.7  | 5.1   | 132   |
| 8     | 40    | 10    | 30   | 191  | 352   | 762   | 178   | 436   | 6.2   | 1.6  | 3.6   | 91    |
| 9     | 36    | 10    | 28   | 211  | 291   | 744   | 162   | 333   | 5.2   | 1.6  | 3.2   | 317   |
| 10    | 31    | 10    | 28   | 203  | 245   | 871   | 147   | 265   | 9.4   | 1.7  | 3.1   | 692   |
| 11    | 28    | 10    | 28   | 195  | 218   | 1110  | 138   | 235   | 6.2   | 1.9  | 3.5   | 977   |
| 12    | 24    | 9.6   | 28   | 184  | 216   | 1370  | 201   | 211   | 5.7   | 2.1  | 6.0   | 1170  |
| 13    | 21    | 9.0   | 27   | 179  | 207   | 1500  | 237   | 175   | 5.6   | 2.1  | 3.4   | 1080  |
| 14    | 19    | 10    | 25   | 183  | 185   | 1480  | 242   | 198   | 5.5   | 1.8  | 2.6   | 802   |
| 15    | 17    | 9.6   | 31   | 183  | 174   | 1350  | 413   | 214   | 5.3   | 1.4  | 2.6   | 550   |
| 16    | 15    | 9.7   | 36   | 169  | 182   | 1180  | 513   | 199   | 5.0   | 1.1  | 3.2   | 389   |
| 17    | 13    | 14    | 40   | 156  | 183   | 1020  | 524   | 190   | 4.6   | 1.3  | 16    | 316   |
| 18    | 12    | 17    | 36   | 181  | 182   | 860   | 526   | 168   | 4.1   | 1.4  | 10    | 444   |
| 19    | 11    | 25    | 35   | 302  | 330   | 773   | 571   | 148   | 4.1   | 1.5  | 5.9   | 396   |
| 20    | 11    | 24    | 36   | 445  | 600   | 763   | 764   | 130   | 4.8   | 1.5  | 5.9   | 320   |
| 21    | 10    | 22    | 39   | 515  | 879   | 735   | 844   | 114   | 4.2   | 1.4  | 4.0   | 309   |
| 22    | 9.1   | 23    | 56   | 553  | 1140  | 659   | 971   | 99    | 4.1   | 1.4  | 5.0   | 281   |
| 23    | 8.5   | 27    | 82   | 530  | 1230  | 601   | 1060  | 82    | 3.9   | 1.5  | 3.8   | 234   |
| 24    | 8.2   | 30    | 76   | 487  | 1180  | 552   | 1070  | 64    | 3.5   | 1.4  | 3.4   | 194   |
| 25    | 8.4   | 31    | 62   | 463  | 1070  | 512   | 1030  | 58    | 3.3   | 1.4  | 3.1   | 188   |
| 26    | 8.4   | 30    | 58   | 445  | 993   | 489   | 1080  | 62    | 3.3   | 1.4  | 2.6   | 536   |
| 27    | 8.7   | 32    | 57   | 415  | 851   | 481   | 1160  | 52    | 3.3   | 1.5  | 2.2   | 814   |
| 28    | 8.1   | 50    | 57   | 387  | 707   | 457   | 1340  | 43    | 3.0   | 1.4  | 2.7   | 857   |
| 29    | 7.6   | 89    | 70   | 361  | 646   | 440   | 1460  | 37    | 2.7   | 1.3  | 3.3   | 782   |
| 30    | 7.3   | 75    | 73   | 320  | ---   | 411   | 1630  | 31    | 2.7   | 1.6  | 11    | 731   |
| 31    | 7.7   | ---   | 56   | 285  | ---   | 378   | ---   | 26    | ---   | 4.2  | 112   | ---   |
| TOTAL | 791.0 | 639.1 | 1421 | 8413 | 14231 | 23302 | 18205 | 10047 | 200.1 | 56.4 | 255.8 | 13056 |
| MEAN  | 25.5  | 21.3  | 45.8 | 271  | 491   | 752   | 607   | 324   | 6.67  | 1.82 | 8.25  | 435   |
| MAX   | 90    | 89    | 82   | 553  | 1230  | 1500  | 1630  | 1660  | 22    | 4.2  | 112   | 1170  |
| MIN   | 7.3   | 7.7   | 25   | 50   | 174   | 370   | 138   | 26    | 2.7   | 1.1  | 2.2   | 26    |
| CFSM  | .05   | .04   | .08  | .49  | .89   | 1.36  | 1.09  | .58   | .01   | .003 | .02   | .78   |
| IN.   | .05   | .04   | .10  | .56  | .95   | 1.56  | 1.22  | .67   | .01   | .00  | .02   | .88   |

|             |       |          |          |          |         |           |          |
|-------------|-------|----------|----------|----------|---------|-----------|----------|
| CAL YR 1987 | TOTAL | 233129.6 | MEAN 639 | MAX 5270 | MIN 6.1 | CFSM 1.15 | IN 15.63 |
| WTR YR 1988 | TOTAL | 90617.4  | MEAN 248 | MAX 1660 | MIN 1.1 | CFSM .45  | IN 6.07  |

## OGEECHEE RIVER BASIN

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02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.--Continued

## WATER-QUALITY RECORDS

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 0950 | 17                                              | 51                                                | 53                                                       | 6.10                           | 6.10                                  | 15.0                                 | 14.0                               | 7.2                                 | 71                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1420 | 9.4                                             | 57                                                | 52                                                       | 6.10                           | 6.70                                  | 14.0                                 | 17.5                               | 2.3                                 | 22                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 0840 | 28                                              | 48                                                | 50                                                       | 6.10                           | 6.00                                  | 13.0                                 | 15.5                               | 5.9                                 | 56                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1200 | 293                                             | 56                                                | 54                                                       | 6.10                           | 6.00                                  | 10.0                                 | 23.0                               | 9.0                                 | 80                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1430 | 285                                             | 54                                                | 52                                                       | 5.90                           | 5.60                                  | 7.5                                  | 14.5                               | 10.5                                | 87                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 0820 | 833                                             | 52                                                | 47                                                       | 5.70                           | 5.70                                  | 15.0                                 | 13.5                               | 7.1                                 | 71                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 0920 | 186                                             | 53                                                | 52                                                       | 6.00                           | 6.00                                  | 16.0                                 | 12.0                               | 7.7                                 | 79                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 0755 | 580                                             | 44                                                | 44                                                       | 5.70                           | 5.50                                  | 17.5                                 | 17.5                               | 6.9                                 | 72                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0920 | 7.0                                             | 59                                                | 52                                                       | 6.10                           | 5.90                                  | 23.0                                 | 27.5                               | 2.6                                 | 30                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1015 | 2.1                                             | 58                                                | 53                                                       | 6.50                           | 6.60                                  | 25.0                                 | 24.5                               | 6.1                                 | 74                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0850 | 3.2                                             | 51                                                | 46                                                       | 6.40                           | 6.30                                  | 27.0                                 | 28.5                               | 3.8                                 | 48                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 0610 | 595                                             | 65                                                | 63                                                       | 5.20                           | 5.20                                  | 24.0                                 | 22.0                               | 5.3                                 | 63                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 15... | 120                                          | 4.0                          | 1.1                                                            | 50                                               | 8                                                               | <1                                                               | 0.090                                                | 0.090                                                | 0.060                                       | 21                                            |
| NOV   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 12... | 120                                          | 2.0                          | 1.6                                                            | 50                                               | 7                                                               | 13                                                               | <0.020                                               | <0.020                                               | 0.070                                       | 14                                            |
| DEC   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 10... | 100                                          | 1.0                          | 1.2                                                            | 170                                              | 5                                                               | 3                                                                | 0.050                                                | 0.030                                                | 0.030                                       | 15                                            |
| JAN   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 19... | 110                                          | 7.0                          | 0.8                                                            | 7900                                             | 5                                                               | 11                                                               | 0.100                                                | 0.020                                                | 0.070                                       | 13                                            |
| FEB   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 09... | 120                                          | 5.0                          | 0.8                                                            | 230                                              | 2                                                               | 6                                                                | 0.030                                                | <0.020                                               | 0.040                                       | --                                            |
| MAR   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 10... | 130                                          | 7.0                          | 1.1                                                            | 1300                                             | 4                                                               | 1                                                                | 0.060                                                | 0.110                                                | 0.030                                       | 11                                            |
| APR   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 12... | 180                                          | 6.0                          | 1.2                                                            | 700                                              | 5                                                               | 3                                                                | 0.070                                                | 0.190                                                | 0.050                                       | 22                                            |
| MAY   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | --                                           | 8.0                          | 0.9                                                            | --                                               | 4                                                               | 1                                                                | 0.080                                                | 0.060                                                | 0.070                                       | 23                                            |
| JUN   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 50                                           | 5.0                          | 1.4                                                            | --                                               | 6                                                               | <1                                                               | 0.120                                                | 0.040                                                | 0.080                                       | 14                                            |
| JUL   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 12... | 50                                           | 5.0                          | 1.7                                                            | 110                                              | 8                                                               | 1                                                                | 0.020                                                | 0.050                                                | 0.070                                       | 6.7                                           |
| AUG   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 09... | 40                                           | 3.0                          | 1.3                                                            | 20                                               | 8                                                               | <1                                                               | 0.030                                                | 0.050                                                | 0.070                                       | 7.7                                           |
| SEP   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 15... | 400                                          | 4.0                          | 1.8                                                            | 2800                                             | 3                                                               | 13                                                               | 0.060                                                | 0.080                                                | 0.080                                       | 35                                            |



## OGEECHEE RIVER BASIN

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 0755 | 75                                                | 72                                                       | 6.80                           | 6.70                                  | 16.0                                 | 10.5                               | 7.8                                 | 78                                                             |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1305 | 120                                               | 102                                                      | 6.80                           | 7.00                                  | 18.0                                 | 28.0                               | 4.9                                 | 51                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 0930 | 75                                                | 80                                                       | 6.60                           | 6.90                                  | 13.5                                 | 23.5                               | 8.0                                 | 77                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1010 | 76                                                | 78                                                       | 6.40                           | 6.50                                  | 9.5                                  | 17.0                               | 8.9                                 | 77                                                             |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 11... | 1235 | 62                                                | 58                                                       | 6.10                           | 5.80                                  | 9.5                                  | 11.5                               | 9.2                                 | 80                                                             |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1040 | 55                                                | 51                                                       | 5.40                           | 5.40                                  | 15.0                                 | 24.0                               | 7.2                                 | 72                                                             |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 0845 | 65                                                | 64                                                       | 6.30                           | 6.30                                  | 15.0                                 | 17.5                               | 6.8                                 | 67                                                             |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 0935 | 50                                                | 48                                                       | 5.40                           | 5.20                                  | 18.0                                 | 25.0                               | 6.6                                 | 70                                                             |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0555 | 83                                                | 78                                                       | 6.80                           | 6.70                                  | 25.0                                 | 22.0                               | 4.8                                 | 59                                                             |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 0720 | 89                                                | 90                                                       | 7.00                           | 7.00                                  | 28.0                                 | 26.0                               | 3.9                                 | 50                                                             |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 11... | 0630 | 102                                               | 95                                                       | 7.10                           | 7.20                                  | 28.0                                 | 24.0                               | 5.7                                 | 73                                                             |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 0810 | 58                                                | 55                                                       | 4.70                           | 4.50                                  | 24.0                                 | 26.5                               | 5.1                                 | 60                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 15... | 110                                          | 3.0                          | 1.1                                                            | 40                                               | 13                                                              | <1                                                               | 0.750                                                | 0.100                                                | 0.240                                       | 18                                            |
| NOV   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 09... | 90                                           | 2.0                          | 1.6                                                            | 170                                              | 21                                                              | <1                                                               | 0.960                                                | 0.060                                                | 0.410                                       | 11                                            |
| DEC   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 10... | 120                                          | 1.0                          | 1.5                                                            | 70                                               | 16                                                              | 1                                                                | 0.420                                                | 0.050                                                | 0.280                                       | 12                                            |
| JAN   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 19... | 110                                          | 3.0                          | 1.0                                                            | 20                                               | 12                                                              | 6                                                                | 0.300                                                | 0.060                                                | 0.210                                       | 12                                            |
| FEB   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 11... | 100                                          | 5.0                          | 1.1                                                            | 170                                              | 3                                                               | <1                                                               | 0.110                                                | 0.040                                                | 0.090                                       | 17                                            |
| MAR   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 10... | 170                                          | 6.0                          | 1.6                                                            | 130                                              | 3                                                               | <1                                                               | 0.050                                                | 0.120                                                | 0.100                                       | 25                                            |
| APR   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 14... | 180                                          | 5.0                          | 1.3                                                            | 110                                              | 9                                                               | 3                                                                | 0.250                                                | 0.210                                                | 0.170                                       | 18                                            |
| MAY   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | --                                           | 5.0                          | 0.9                                                            | --                                               | 2                                                               | <1                                                               | 0.050                                                | 0.050                                                | 0.100                                       | 25                                            |
| JUN   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 09... | 50                                           | 5.0                          | 1.0                                                            | 50                                               | 12                                                              | 2                                                                | 0.550                                                | 0.060                                                | 0.260                                       | 14                                            |
| JUL   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 14... | 60                                           | 5.0                          | 1.5                                                            | 490                                              | 20                                                              | 1                                                                | 0.270                                                | 0.090                                                | 0.500                                       | 16                                            |
| AUG   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 11... | 40                                           | 3.0                          | 0.6                                                            | 330                                              | 18                                                              | 7                                                                | 0.590                                                | 0.070                                                | 0.680                                       | 9.3                                           |
| SEP   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 15... | 600                                          | 3.0                          | 1.2                                                            | 330                                              | <1                                                              | 12                                                               | 0.050                                                | 0.040                                                | 0.080                                       | 45                                            |

## 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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1440 | --                                                | 34100                                                    | 7.60                           | 7.60                                  | 19.0                                 | 19.5                               | 10.0                                | 107                                                            |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1150 | 45000                                             | 33700                                                    | 7.60                           | 7.50                                  | 18.5                                 | 20.5                               | 7.4                                 | 93                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1210 | 46000                                             | 42600                                                    | 7.70                           | 7.70                                  | 14.0                                 | 24.0                               | 8.0                                 | 93                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 0900 | 46000                                             | 41200                                                    | 7.70                           | 7.80                                  | 8.5                                  | 15.5                               | 9.7                                 | 100                                                            |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 11... | 1435 | 41500                                             | 37800                                                    | 7.80                           | 7.70                                  | 11.0                                 | 14.0                               | 9.9                                 | 106                                                            |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1315 | 25500                                             | 25100                                                    | 7.50                           | 7.60                                  | 16.0                                 | 18.5                               | 8.0                                 | 90                                                             |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 0710 | 37500                                             | 37400                                                    | 7.60                           | 7.60                                  | 17.0                                 | 12.0                               | 7.8                                 | 93                                                             |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1100 | 30000                                             | 31300                                                    | 7.50                           | 7.40                                  | 21.0                                 | 22.0                               | 7.2                                 | 90                                                             |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0425 | 39000                                             | 37100                                                    | 7.50                           | 7.40                                  | 25.5                                 | 22.5                               | 6.1                                 | 87                                                             |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 0945 | 43000                                             | 41800                                                    | 7.40                           | 7.50                                  | 28.0                                 | 29.5                               | 4.8                                 | 71                                                             |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 11... | 0815 | --                                                | 45400                                                    | 7.50                           | 7.70                                  | 30.0                                 | 24.0                               | 4.4                                 | 58                                                             |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1100 | 36000                                             | 36000                                                    | 7.40                           | 7.60                                  | 28.0                                 | 30.5                               | 4.5                                 | 65                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 15... | 25                                           | 4.0                          | 1.1                                                            | <20                                              | 106 13000                                                       |                                                     | 30                                                                | 0.030                                                | 0.120                                                | 0.080                                       | 7.1                                           |
| NOV   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 09... | 15                                           | 6.0                          | 2.6                                                            | 20                                               | 105 16000                                                       |                                                     | 52                                                                | <0.020                                               | <0.020                                               | 0.080                                       | 8.4                                           |
| DEC   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 10... | 20                                           | 5.0                          | 1.9                                                            | <20                                              | 115 16000                                                       |                                                     | 50                                                                | 0.030                                                | 0.090                                                | 0.090                                       | 7.1                                           |
| JAN   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 19... | 10                                           | 14                           | 1.2                                                            | <20                                              | 106 16000                                                       |                                                     | 49                                                                | 0.020                                                | 0.090                                                | 0.120                                       | 4.4                                           |
| FEB   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 11... | 15                                           | 6.0                          | 0.9                                                            | <20                                              | 100 16000                                                       |                                                     | 48                                                                | 0.020                                                | 0.040                                                | 0.100                                       | 5.7                                           |
| MAR   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 10... | 60                                           | 12                           | 0.9                                                            | 120                                              | 72 9200                                                         |                                                     | 32                                                                | 0.030                                                | 0.170                                                | 0.090                                       | 11                                            |
| APR   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 14... | 25                                           | 16                           | 1.3                                                            | <20                                              | 91 --                                                           |                                                     | 32                                                                | 0.020                                                | 0.200                                                | 0.090                                       | 9.1                                           |
| MAY   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 05... | --                                           | 20                           | 1.1                                                            | --                                               | 80 12000                                                        |                                                     | 47                                                                | <0.020                                               | 0.070                                                | 0.100                                       | 11                                            |
| JUN   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 09... | 60                                           | 10                           | 0.7                                                            | 50                                               | 91 --                                                           |                                                     | 45                                                                | 0.100                                                | 0.210                                                | 0.080                                       | 8.3                                           |
| JUL   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 14... | 20                                           | 10                           | 1.9                                                            | <20                                              | 102 --                                                          |                                                     | 39                                                                | 0.050                                                | 0.270                                                | 0.120                                       | 8.8                                           |
| AUG   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 11... | 25                                           | 22                           | 1.0                                                            | <20                                              | 108 19000                                                       |                                                     | 89                                                                | <0.020                                               | 0.080                                                | 0.140                                       | 9.1                                           |
| SEP   |                                              |                              |                                                                |                                                  |                                                                 |                                                     |                                                                   |                                                      |                                                      |                                             |                                               |
| 15... | 80                                           | 28                           | 1.0                                                            | <20                                              | 92 14000                                                        |                                                     | 85                                                                | <0.020                                               | 0.030                                                | 0.170                                       | 11                                            |

## ALTAMAHA RIVER BASIN

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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1300 | 16                                              | 185                                               | 179                                                      | 7.30                           | 7.20                                  | 14.0                                 | 21.5                               | 9.0                                 | 90                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1340 | 8.6                                             | 202                                               | 202                                                      | 7.20                           | 7.30                                  | 15.0                                 | 29.0                               | 6.9                                 | 70                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1420 | 15                                              | 190                                               | 185                                                      | 7.20                           | 7.30                                  | 7.0                                  | 12.0                               | 10.0                                | 84                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1430 | 28                                              | 190                                               | 181                                                      | 7.10                           | 7.20                                  | 6.0                                  | 5.5                                | 10.9                                | 89                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1445 | 68                                              | 142                                               | 136                                                      | 6.60                           | 6.60                                  | 15.5                                 | 20.5                               | 9.2                                 | 94                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1440 | 11                                              | 188                                               | 187                                                      | 7.10                           | 7.20                                  | 12.0                                 | 25.0                               | 9.8                                 | 93                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0800 | 13                                              | 175                                               | 172                                                      | 6.70                           | 6.90                                  | 12.5                                 | 11.0                               | 9.8                                 | 95                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1330 | 28                                              | 212                                               | 220                                                      | 7.10                           | 7.20                                  | 17.0                                 | 22.5                               | 8.8                                 | 93                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0800 | 3.0                                             | 209                                               | 201                                                      | 7.10                           | 7.20                                  | 21.5                                 | 23.0                               | 5.6                                 | 66                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1530 | 1.8                                             | --                                                | 232                                                      | 7.30                           | 7.30                                  | 24.0                                 | 32.0                               | 8.8                                 | 106                                                            |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 0800 | 25                                              | 148                                               | 143                                                      | 7.00                           | 7.00                                  | 24.0                                 | 25.5                               | 5.2                                 | 63                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1320 | 19                                              | 130                                               | 129                                                      | 7.00                           | 7.30                                  | 21.5                                 | 24.5                               | 7.0                                 | 81                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 8.0                          | 1.7                                                            | 4900                                             | 42                                                              | 3                                                                | 0.590                                                | 0.320                                                | 0.090                                       | 3.1                                           |
| NOV   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 04... | 9.0                          | 4.6                                                            | 1700                                             | 58                                                              | 3                                                                | 0.230                                                | 0.580                                                | 0.370                                       | 17                                            |
| DEC   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 02... | 6.0                          | >9.8                                                           | 14000                                            | 47                                                              | 16                                                               | 0.470                                                | 0.520                                                | 0.090                                       | 6.3                                           |
| JAN   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 06... | 3.0                          | 3.3                                                            | --                                               | 43                                                              | 3                                                                | 0.500                                                | 0.520                                                | 0.070                                       | 3.7                                           |
| FEB   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 36                           | 3.4                                                            | 2900                                             | 17                                                              | 31                                                               | 0.420                                                | 0.280                                                | 0.210                                       | 6.9                                           |
| MAR   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 02... | 9.0                          | 2.5                                                            | 7000                                             | 45                                                              | 1                                                                | 0.610                                                | 0.340                                                | 0.080                                       | 3.5                                           |
| APR   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 8.0                          | 2.2                                                            | 3500000                                          | 51                                                              | 9                                                                | 0.150                                                | 0.160                                                | 0.150                                       | 10                                            |
| MAY   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | 15                           | 7.6                                                            | --                                               | --                                                              | 4                                                                | 0.280                                                | 0.950                                                | 0.130                                       | 10                                            |
| JUN   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 09... | 7.0                          | 2.3                                                            | 3300                                             | 46                                                              | 6                                                                | 0.770                                                | 0.410                                                | 0.070                                       | 4.4                                           |
| JUL   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 9.0                          | 1.7                                                            | 1100                                             | 54                                                              | <1                                                               | 0.700                                                | 0.650                                                | 0.070                                       | 4.6                                           |
| AUG   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 02... | 62                           | 6.3                                                            | 79000                                            | 30                                                              | 76                                                               | 0.430                                                | 0.520                                                | 0.150                                       | 9.9                                           |
| SEP   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 4.0                          | 1.2                                                            | 11000                                            | 22                                                              | <1                                                               | 0.210                                                | 0.360                                                | <0.020                                      | 4.4                                           |

## ALTAMAHA RIVER BASIN

99

02203965 SOUTH RIVER NEAR LITHONIA, GA.

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

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

REMARKS.--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 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1245 | 355                                               | 365                                                      | 7.80                           | 7.70                                  | 15.0                                 | 18.5                               | 9.7                                 | 97                                                             |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1530 | 322                                               | 316                                                      | 7.70                           | 7.40                                  | 18.0                                 | 26.0                               | 9.1                                 | 98                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1420 | 310                                               | 303                                                      | 7.60                           | 7.80                                  | 10.0                                 | 19.5                               | 10.8                                | 98                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1315 | 270                                               | 260                                                      | 7.30                           | 7.30                                  | 5.0                                  | 9.5                                | 12.2                                | 96                                                             |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1430 | 64                                                | 61                                                       | 6.80                           | 6.80                                  | 14.5                                 | 15.0                               | 8.7                                 | 87                                                             |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1045 | 280                                               | 276                                                      | 7.50                           | 7.60                                  | 11.5                                 | 19.5                               | 10.3                                | 96                                                             |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1330 | 240                                               | --                                                       | 7.40                           | 7.40                                  | 16.0                                 | 21.5                               | 8.9                                 | 93                                                             |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1300 | 200                                               | 203                                                      | 7.20                           | 7.30                                  | 17.0                                 | 21.0                               | 8.7                                 | 92                                                             |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1315 | 360                                               | 364                                                      | 7.70                           | 7.80                                  | 23.5                                 | 31.0                               | 7.4                                 | 90                                                             |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1500 | 330                                               | 335                                                      | 7.60                           | 7.70                                  | 24.0                                 | 32.0                               | 8.7                                 | 105                                                            |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 0830 | 151                                               | 151                                                      | 7.00                           | 6.90                                  | 25.0                                 | 26.0                               | 5.2                                 | 64                                                             |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1315 | 140                                               | 139                                                      | 7.20                           | 7.20                                  | 21.5                                 | 23.5                               | 8.0                                 | 93                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 08... | 4.0                          | 1.3                                                            | 220                                              | 62                                                            | 7                                                                | 9.75                                                 | 0.130                                                | 0.240                                       | 3.4                                           |
| NOV   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | 3.0                          | 1.5                                                            | 50                                               | 72                                                            | 13                                                               | 4.70                                                 | <0.020                                               | 0.190                                       | 15                                            |
| DEC   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 5.0                          | 2.1                                                            | <20                                              | 59                                                            | <1                                                               | 6.75                                                 | 0.110                                                | 0.230                                       | 2.5                                           |
| JAN   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 14... | 15                           | --                                                             | --                                               | 33                                                            | 11                                                               | 2.90                                                 | 0.370                                                | 0.220                                       | 6.7                                           |
| FEB   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 04... | 260                          | 1.8                                                            | 49000                                            | 13                                                            | 537                                                              | 0.560                                                | 0.150                                                | 0.700                                       | 21                                            |
| MAR   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 5.0                          | 1.0                                                            | <20                                              | 45                                                            | 1                                                                | 5.60                                                 | 0.080                                                | 0.130                                       | 3.0                                           |
| APR   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 5.0                          | 1.3                                                            | 3100                                             | 43                                                            | 13                                                               | 2.85                                                 | 0.100                                                | 0.300                                       | 3.9                                           |
| MAY   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | 15                           | 1.7                                                            | --                                               | 37                                                            | 2                                                                | 3.30                                                 | 0.060                                                | 0.180                                       | 4.7                                           |
| JUN   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 09... | 6.0                          | 1.0                                                            | 50                                               | 65                                                            | 4                                                                | 4.70                                                 | 0.070                                                | 0.360                                       | 4.0                                           |
| JUL   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 7.0                          | 1.2                                                            | 70                                               | 46                                                            | 4                                                                | 6.75                                                 | 0.070                                                | 0.450                                       | 4.0                                           |
| AUG   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 02... | 210                          | 5.1                                                            | 49000                                            | 27                                                            | 166                                                              | 2.04                                                 | 0.270                                                | 0.370                                       | 10                                            |
| SEP   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 06... | 31                           | 2.0                                                            | 130000                                           | 27                                                            | 17                                                               | 1.64                                                 | 0.230                                                | 0.270                                       | 5.8                                           |

## ALTAMAHA RIVER BASIN

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 mi<sup>2</sup>.

## 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.--No estimated daily discharges. Records good. Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply.

AVERAGE DISCHARGE.--5 years, 256 ft<sup>3</sup>/s, 19.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,650 ft<sup>3</sup>/s, Jan. 19, 1987, gage height, 9.83 ft; minimum daily discharge, 48 ft<sup>3</sup>/s, July 20, 21, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 30, 1963 reached a stage of 11.80 ft, discharge 9,630 ft<sup>3</sup>/s, revised.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Jan. 20 | 1245 | 4,240                             | 9.00                | Feb. 4 | 1645 | *4,260                            | *9.01               |

Minimum daily discharge, 48 ft<sup>3</sup>/s, July 20, 21.

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           | 110   | 67    | 85       | 132      | 136    | 118       | 129      | 144  | 79   | 59   | 60   | 105  |
| 2           | 70    | 68    | 84       | 335      | 155    | 116       | 163      | 137  | 80   | 60   | 150  | 71   |
| 3           | 62    | 68    | 85       | 331      | 565    | 118       | 135      | 131  | 79   | 79   | 111  | 71   |
| 4           | 57    | 72    | 82       | 431      | 3180   | 136       | 277      | 140  | 76   | 68   | 231  | 1120 |
| 5           | 61    | 73    | 79       | 195      | 720    | 134       | 156      | 192  | 74   | 79   | 100  | 1530 |
| 6           | 61    | 72    | 80       | 161      | 326    | 119       | 149      | 132  | 73   | 67   | 102  | 198  |
| 7           | 59    | 69    | 82       | 158      | 244    | 119       | 150      | 119  | 71   | 63   | 75   | 128  |
| 8           | 59    | 71    | 81       | 157      | 211    | 119       | 124      | 117  | 70   | 57   | 220  | 107  |
| 9           | 57    | 76    | 84       | 143      | 191    | 296       | 118      | 115  | 70   | 52   | 174  | 148  |
| 10          | 56    | 343   | 86       | 176      | 183    | 340       | 118      | 207  | 119  | 53   | 122  | 168  |
| 11          | 57    | 149   | 91       | 248      | 177    | 168       | 236      | 201  | 74   | 52   | 78   | 138  |
| 12          | 58    | 86    | 80       | 188      | 169    | 140       | 2200     | 131  | 68   | 71   | 93   | 109  |
| 13          | 59    | 81    | 80       | 188      | 151    | 329       | 391      | 124  | 68   | 62   | 67   | 97   |
| 14          | 58    | 80    | 84       | 219      | 147    | 185       | 245      | 130  | 63   | 58   | 61   | 96   |
| 15          | 56    | 78    | 725      | 156      | 160    | 144       | 200      | 119  | 63   | 153  | 70   | 81   |
| 16          | 56    | 81    | 257      | 135      | 188    | 133       | 177      | 141  | 68   | 73   | 58   | 79   |
| 17          | 54    | 649   | 126      | 449      | 141    | 129       | 154      | 183  | 96   | 57   | 55   | 756  |
| 18          | 59    | 258   | 114      | 899      | 138    | 142       | 470      | 114  | 90   | 52   | 53   | 249  |
| 19          | 62    | 118   | 104      | 380      | 187    | 261       | 508      | 104  | 201  | 51   | 54   | 134  |
| 20          | 60    | 110   | 104      | 2440     | 162    | 151       | 237      | 100  | 156  | 48   | 53   | 117  |
| 21          | 57    | 96    | 162      | 569      | 139    | 141       | 182      | 97   | 84   | 48   | 102  | 122  |
| 22          | 61    | 88    | 594      | 301      | 133    | 143       | 167      | 98   | 70   | 66   | 74   | 99   |
| 23          | 64    | 88    | 171      | 225      | 131    | 139       | 608      | 99   | 71   | 220  | 105  | 93   |
| 24          | 62    | 94    | 142      | 189      | 138    | 132       | 783      | 98   | 61   | 91   | 164  | 84   |
| 25          | 65    | 94    | 176      | 212      | 126    | 154       | 269      | 141  | 94   | 63   | 103  | 85   |
| 26          | 68    | 101   | 126      | 195      | 122    | 319       | 476      | 104  | 149  | 62   | 69   | 79   |
| 27          | 169   | 146   | 142      | 158      | 122    | 153       | 225      | 93   | 78   | 72   | 58   | 75   |
| 28          | 116   | 98    | 815      | 147      | 122    | 137       | 184      | 87   | 69   | 157  | 59   | 73   |
| 29          | 76    | 91    | 272      | 143      | 121    | 138       | 164      | 84   | 60   | 73   | 58   | 73   |
| 30          | 71    | 88    | 156      | 138      | ---    | 133       | 151      | 85   | 57   | 179  | 61   | 72   |
| 31          | 69    | ---   | 134      | 138      | ---    | 127       | ---      | 84   | ---  | 70   | 304  | ---  |
| TOTAL       | 2109  | 3653  | 5483     | 9936     | 8685   | 5113      | 9546     | 3851 | 2531 | 2415 | 3144 | 6357 |
| MEAN        | 68.0  | 122   | 177      | 321      | 299    | 165       | 318      | 124  | 84.4 | 77.9 | 101  | 212  |
| MAX         | 169   | 649   | 815      | 2440     | 3180   | 340       | 2200     | 207  | 201  | 220  | 304  | 1530 |
| MIN         | 54    | 67    | 79       | 132      | 121    | 116       | 118      | 84   | 57   | 48   | 53   | 71   |
| CFSM        | .37   | .67   | .97      | 1.76     | 1.64   | .91       | 1.75     | .68  | .46  | .43  | .56  | 1.17 |
| IN.         | .43   | .75   | 1.12     | 2.03     | 1.78   | 1.05      | 1.95     | .79  | .52  | .49  | .64  | 1.30 |
| CAL YR 1987 | TOTAL | 80011 | MEAN 219 | MAX 3960 | MIN 50 | CFSM 1.20 | IN 16.35 |      |      |      |      |      |
| WTR YR 1988 | TOTAL | 62823 | MEAN 172 | MAX 3180 | MIN 48 | CFSM .95  | IN 12.84 |      |      |      |      |      |



## 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, 13.2 mg/L Jan. 8, 1988; minimum recorded, 0.7 mg/L Mar. 13, 1986.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 29.5°C July 17; minimum 1.5°C Jan. 7, 8.

DISSOLVED OXYGEN: Maximum, 13.2 mg/L Jan. 8; minimum, 1.9 mg/L Nov. 13.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1200 | 62                                              | 310                                               | 317                                                      | 7.60                           | 7.40                                  | 14.0                                 | 18.5                               | 9.3                                 | 91                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1500 | 71                                              | 338                                               | 331                                                      | 7.60                           | 7.50                                  | 17.0                                 | 27.0                               | 8.7                                 | 92                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1345 | 86                                              | 265                                               | 276                                                      | 7.50                           | 7.60                                  | 8.0                                  | 19.5                               | 11.6                                | 100                                                            |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1245 | 195                                             | 275                                               | 276                                                      | 7.30                           | 7.30                                  | 5.0                                  | 9.0                                | 11.3                                | 89                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1345 | 4020                                            | 68                                                | 65                                                       | 6.80                           | 6.70                                  | 16.0                                 | 15.0                               | 8.9                                 | 92                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1130 | 119                                             | 250                                               | 245                                                      | 7.40                           | 7.50                                  | 11.0                                 | 20.0                               | 9.8                                 | 90                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1300 | 134                                             | 205                                               | --                                                       | 7.40                           | 7.50                                  | 16.0                                 | 21.5                               | 8.7                                 | 91                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1230 | 164                                             | 185                                               | 190                                                      | 7.20                           | 7.20                                  | 17.5                                 | 21.0                               | 8.4                                 | 90                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1250 | 71                                              | 320                                               | 321                                                      | 7.40                           | 7.50                                  | 23.5                                 | 30.0                               | 7.3                                 | 89                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1430 | 60                                              | 328                                               | 333                                                      | 7.40                           | 7.50                                  | 23.0                                 | 33.0                               | 8.1                                 | 96                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 0900 | 312                                             | 301                                               | 312                                                      | 7.50                           | 7.40                                  | 25.0                                 | 33.0                               | 6.8                                 | 84                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1250 | 168                                             | 129                                               | 125                                                      | 7.10                           | 7.00                                  | 22.0                                 | 23.5                               | 7.5                                 | 88                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 08... | 7.0                          | 1.1                                                            | 490                                              | 58                                                            | 10                                                               | 7.75                                                 | 0.070                                                | 0.440                                       | 3.6                                           |
| NOV   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | 3.0                          | 1.9                                                            | 70                                               | 71                                                            | 18                                                               | 4.95                                                 | 0.110                                                | 0.440                                       | 13                                            |
| DEC   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 5.0                          | 1.7                                                            | <20                                              | 54                                                            | 4                                                                | 5.55                                                 | 0.130                                                | 0.350                                       | 2.5                                           |
| JAN   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 14... | 15                           | --                                                             | --                                               | 35                                                            | 13                                                               | 2.60                                                 | 0.410                                                | 0.240                                       | 3.6                                           |
| FEB   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 04... | 250                          | 1.6                                                            | 49000                                            | 13                                                            | 512                                                              | 0.550                                                | 0.120                                                | 0.760                                       | 17                                            |
| MAR   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 6.0                          | 1.4                                                            | <20                                              | 44                                                            | 4                                                                | 4.00                                                 | 0.160                                                | 0.250                                       | 2.6                                           |
| APR   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 4.0                          | 1.8                                                            | 3300                                             | 46                                                            | 5                                                                | 5.00                                                 | 0.080                                                | 0.210                                       | 3.9                                           |
| MAY   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | 21                           | 2.8                                                            | --                                               | 37                                                            | 19                                                               | 3.15                                                 | 0.270                                                | 0.330                                       | 4.6                                           |
| JUN   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 09... | 8.0                          | 1.0                                                            | 260                                              | 58                                                            | 6                                                                | 4.10                                                 | 0.080                                                | 0.620                                       | 3.9                                           |
| JUL   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 9.0                          | 0.8                                                            | 40                                               | 45                                                            | 9                                                                | 5.80                                                 | 0.080                                                | 0.680                                       | 3.8                                           |
| AUG   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 02... | 95                           | 1.8                                                            | 11000                                            | 52                                                            | 142                                                              | 6.00                                                 | 0.100                                                | 0.480                                       | 6.1                                           |
| SEP   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 06... | 50                           | 1.6                                                            | 2200                                             | 21                                                            | 35                                                               | 1.72                                                 | 0.190                                                | 0.290                                       | 5.8                                           |

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
|-------|---------|-----|----------|-----|----------|------|---------|------|----------|------|-----------|------|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
| 1     | 7.5     | 6.8 | 9.7      | 8.0 | 10.2     | 9.8  | 11.0    | 10.3 | 10.7     | 8.2  | 10.5      | 9.7  |
| 2     | 8.3     | 7.3 | 9.8      | 7.9 | 10.9     | 10.0 | 10.9    | 10.4 | 10.2     | 8.7  | 10.6      | 9.7  |
| 3     | 8.6     | 7.7 | 9.8      | 7.9 | 11.6     | 10.7 | 11.7    | 10.8 | 9.0      | 7.5  | 9.9       | 9.3  |
| 4     | 9.0     | 8.0 | 9.2      | 7.6 | 11.0     | 10.5 | 11.7    | 11.3 | 9.6      | 7.9  | 9.5       | 9.1  |
| 5     | 9.2     | 8.1 | 9.2      | 7.4 | 11.5     | 10.6 | 12.0    | 11.4 | ---      | ---  | 9.7       | 9.1  |
| 6     | 9.2     | 8.2 | 9.9      | 7.8 | 11.6     | 11.0 | 12.4    | 12.1 | ---      | ---  | 10.1      | 9.1  |
| 7     | 9.3     | 8.3 | 10.4     | 8.5 | 11.4     | 10.3 | 13.1    | 12.2 | 11.8     | 10.8 | 10.4      | 9.1  |
| 8     | 10.1    | 8.4 | 10.3     | 8.7 | 10.9     | 6.6  | 13.2    | 11.9 | 11.3     | 10.8 | 10.4      | 9.2  |
| 9     | 10.2    | 8.8 | 9.9      | 8.3 | 10.1     | 9.3  | 12.3    | 11.6 | 11.2     | 10.5 | 9.7       | 8.2  |
| 10    | 9.5     | 8.3 | 8.3      | 3.7 | 9.4      | 8.7  | 12.0    | 11.7 | 11.1     | 10.5 | 9.0       | 8.4  |
| 11    | 9.3     | 7.9 | 8.2      | 5.5 | 9.8      | 8.7  | 12.1    | 11.8 | 10.9     | 10.5 | 10.3      | 9.1  |
| 12    | 8.8     | 7.8 | 9.5      | 8.2 | 10.1     | 9.0  | 12.1    | 11.8 | 10.6     | 10.2 | 10.2      | 9.5  |
| 13    | 9.0     | 7.9 | 9.8      | 1.9 | 10.6     | 9.2  | 11.6    | 10.9 | 11.1     | 10.5 | 9.6       | 9.0  |
| 14    | 9.2     | 8.0 | 8.0      | 2.4 | 10.3     | 9.4  | 11.4    | 10.9 | 11.3     | 10.5 | 9.9       | 9.1  |
| 15    | 9.7     | 8.4 | 8.7      | 5.1 | 9.5      | 8.4  | 11.7    | 11.4 | 10.9     | 10.3 | 10.9      | 9.8  |
| 16    | 9.7     | 8.5 | 9.1      | 5.5 | 10.3     | 9.0  | 11.6    | 11.4 | 10.7     | 10.4 | 10.9      | 10.0 |
| 17    | 9.7     | 8.5 | 8.2      | 5.4 | 10.9     | 10.3 | 11.5    | 10.5 | 10.9     | 10.4 | 11.0      | 10.2 |
| 18    | 9.5     | 8.3 | 8.5      | 7.4 | 11.1     | 10.7 | 11.2    | 10.6 | 10.9     | 10.6 | 10.3      | 10.0 |
| 19    | 9.5     | 8.1 | 9.3      | 8.6 | 11.1     | 10.3 | 10.8    | 9.6  | 10.7     | 10.2 | 10.3      | 9.7  |
| 20    | 9.2     | 7.8 | 10.1     | 9.3 | 10.3     | 9.5  | 9.6     | 7.0  | 10.3     | 10.0 | 10.6      | 9.6  |
| 21    | 9.1     | 7.7 | 10.9     | 9.5 | 10.1     | 9.5  | 10.1    | 9.0  | 10.6     | 10.2 | 10.2      | 9.2  |
| 22    | 10.0    | 8.1 | 11.0     | 9.3 | 10.2     | 9.7  | 10.5    | 9.9  | 10.9     | 10.2 | 9.9       | 9.0  |
| 23    | 10.6    | 8.9 | 10.3     | 8.6 | 10.6     | 9.9  | 11.1    | 10.4 | 10.6     | 10.1 | 9.7       | 8.9  |
| 24    | 10.6    | 9.1 | 9.5      | 8.9 | 10.8     | 10.5 | 11.2    | 10.9 | 10.5     | 9.0  | 9.6       | 8.7  |
| 25    | 10.1    | 8.5 | 9.2      | 7.2 | 10.7     | 9.8  | 11.0    | 10.5 | 10.9     | 10.2 | 9.1       | 8.6  |
| 26    | 10.0    | 8.1 | 8.8      | 8.2 | 9.8      | 9.1  | 11.4    | 10.6 | 11.1     | 10.4 | 8.7       | 7.4  |
| 27    | 9.0     | 6.8 | 8.7      | 7.9 | 9.3      | 9.1  | 12.0    | 11.4 | 10.9     | 10.1 | 9.3       | 8.1  |
| 28    | 8.3     | 7.1 | 8.9      | 8.1 | 9.7      | 9.1  | 12.1    | 11.7 | 10.5     | 9.8  | 9.8       | 8.6  |
| 29    | 9.0     | 8.0 | 9.4      | 8.9 | 10.6     | 9.7  | 11.8    | 11.3 | 10.6     | 9.8  | 9.8       | 8.5  |
| 30    | 9.2     | 8.0 | 9.8      | 9.2 | 11.3     | 10.7 | 11.5    | 10.6 | ---      | ---  | 9.3       | 8.3  |
| 31    | 9.6     | 8.0 | ---      | --- | 11.5     | 10.9 | 11.3    | 8.8  | ---      | ---  | 9.6       | 8.2  |
| MONTH | 10.6    | 6.8 | 11.0     | 1.9 | 11.6     | 6.6  | 13.2    | 7.0  | 11.8     | 7.5  | 11.0      | 7.4  |
|       | APRIL   |     | MAY      |     | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
| 1     | 8.9     | 8.0 | 9.1      | 8.2 | 9.1      | 6.9  | 8.6     | 6.3  | 7.3      | 5.9  | 7.0       | 6.8  |
| 2     | 9.1     | 8.3 | 8.7      | 8.0 | 8.9      | 6.7  | 7.6     | 6.3  | 6.9      | 4.8  | 7.3       | 6.7  |
| 3     | 9.1     | 8.2 | 8.6      | 7.8 | 8.7      | 6.6  | 7.6     | 6.8  | 6.9      | 5.6  | 7.4</     |      |

## ALTAMAHA RIVER BASIN

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.

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

DRAINAGE AREA.--465 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 08... | 1000 | 115                                             | 250                                               | 264                                                      | 7.60                           | 7.30                                  | 14.0                                 | 15.5                               | 9.1                                 | 89                                                             |
| NOV 05... | 1145 | 210                                             | 258                                               | 251                                                      | 7.40                           | 7.20                                  | 16.0                                 | 25.0                               | 8.2                                 | 85                                                             |
| DEC 03... | 1100 | 290                                             | 195                                               | 191                                                      | 7.20                           | 7.60                                  | 7.5                                  | 15.0                               | 10.6                                | 90                                                             |
| JAN 14... | 0930 | 550                                             | 190                                               | 183                                                      | --                             | 7.20                                  | 4.0                                  | 2.0                                | 12.0                                | 92                                                             |
| FEB 04... | 1115 | 10000                                           | 68                                                | 65                                                       | 6.90                           | 6.70                                  | 14.0                                 | 17.0                               | 9.8                                 | 96                                                             |
| MAR 03... | 1315 | 260                                             | 146                                               | 144                                                      | 7.30                           | 7.40                                  | 10.5                                 | 19.0                               | 10.0                                | 91                                                             |
| APR 07... | 1015 | 255                                             | 139                                               | 139                                                      | 7.20                           | 7.30                                  | 16.5                                 | 15.0                               | 8.0                                 | 84                                                             |
| MAY 05... | 0945 | 240                                             | 145                                               | 148                                                      | 7.20                           | 7.10                                  | 17.0                                 | 20.5                               | 8.1                                 | 85                                                             |
| JUN 09... | 1015 | 70                                              | 228                                               | 220                                                      | 7.40                           | 7.50                                  | 25.5                                 | 30.0                               | 7.0                                 | 88                                                             |
| JUL 07... | 1245 | 80                                              | 220                                               | 224                                                      | 7.30                           | 7.40                                  | 25.0                                 | 30.0                               | 6.9                                 | 84                                                             |
| AUG 02... | 1100 | 65                                              | 168                                               | 167                                                      | 7.10                           | 7.00                                  | 28.0                                 | 33.0                               | 6.0                                 | 77                                                             |
| SEP 06... | 1010 | --                                              | 60                                                | 58                                                       | 6.80                           | 6.60                                  | 21.0                                 | 21.0                               | 7.2                                 | 83                                                             |

| DATE      | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-----------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|
| OCT 08... | 30                           | 8                                                              | 1.2                                                            | 230                                              | 48                                                            | 31                                                                |
| NOV 05... | 33                           | 9                                                              | 1.9                                                            | 40                                               | 59                                                            | 36                                                                |
| DEC 03... | 6.0                          | 9                                                              | 2.0                                                            | 230                                              | 40                                                            | 2                                                                 |
| JAN 14... | 9.0                          | 10                                                             | --                                                             | --                                               | 24                                                            | 8                                                                 |
| FEB 04... | 290                          | 14                                                             | 1.7                                                            | 14000                                            | 11                                                            | 680                                                               |
| MAR 03... | 10                           | 9                                                              | 1.7                                                            | 230                                              | 26                                                            | 7                                                                 |
| APR 07... | 7.0                          | 23                                                             | 2.0                                                            | 490                                              | 29                                                            | 9                                                                 |
| MAY 05... | 18                           | 11                                                             | 1.2                                                            | --                                               | 30                                                            | 14                                                                |
| JUN 09... | 12                           | 18                                                             | 1.3                                                            | 120                                              | 43                                                            | 8                                                                 |
| JUL 07... | 26                           | 12                                                             | 1.1                                                            | 130                                              | 38                                                            | 18                                                                |
| AUG 02... | 74                           | <5                                                             | 0.7                                                            | <20                                              | 28                                                            | 20                                                                |
| SEP 06... | 160                          | 12                                                             | 2.6                                                            | 3300                                             | 10                                                            | 117                                                               |

## ALTAMAHA RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 08... | 5.25                                                 | 0.120                                                | 0.28                                                 | 0.40                                                               | 5.6                                       | 0.320                                       | 5.2                                           |
| NOV   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 05... | 3.05                                                 | 0.100                                                | 0.10                                                 | 0.20                                                               | 3.2                                       | 0.030                                       | 12                                            |
| DEC   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 03... | 2.80                                                 | 0.100                                                | 0.30                                                 | 0.40                                                               | 3.2                                       | 0.250                                       | 3.0                                           |
| JAN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 14... | 1.46                                                 | 0.380                                                | 0.12                                                 | 0.50                                                               | 2.0                                       | 0.150                                       | 2.2                                           |
| FEB   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 04... | 0.490                                                | 0.070                                                | 3.4                                                  | 3.5                                                                | 4.0                                       | 1.09                                        | 32                                            |
| MAR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 03... | 1.85                                                 | 0.100                                                | 0.30                                                 | 0.40                                                               | 2.2                                       | 0.130                                       | 2.5                                           |
| APR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 07... | 1.75                                                 | 0.060                                                | 0.24                                                 | 0.30                                                               | 2.0                                       | 0.140                                       | 2.0                                           |
| MAY   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 05... | 2.40                                                 | 0.080                                                | 0.22                                                 | 0.30                                                               | 2.7                                       | 0.220                                       | 2.9                                           |
| JUN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 09... | 2.38                                                 | 0.090                                                | 0.41                                                 | 0.50                                                               | 2.9                                       | 0.280                                       | 3.2                                           |
| JUL   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 07... | 6.20                                                 | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.270                                       | 3.9                                           |
| AUG   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 02... | 1.84                                                 | 0.070                                                | 0.43                                                 | 0.50                                                               | 2.3                                       | 0.290                                       | 4.9                                           |
| SEP   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 06... | 0.450                                                | 0.050                                                | 0.45                                                 | 0.50                                                               | 0.95                                      | 0.340                                       | 7.7                                           |



## ALTAMAHA RIVER BASIN

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 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to September 1971. October 1987 to current year.

REVISED RECORDS.--WSP 1032: 1943(M), WSP 1112: 1944-45(M), WSP 1384: 1949(M), 1952(M), drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 810 ft (by barometer). Prior to Nov. 4, 1952, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 1-6, Jan. 23-26, and Feb. 5-24. Records good, except for Oct. 1-6, Jan. 23-26, and Feb. 5-24, which are fair to poor.

AVERAGE DISCHARGE.--30 years (1942-1971, 1988), 167 ft<sup>3</sup>/s, 16.92 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,500 ft<sup>3</sup>/s, Nov. 29, 1948, gage height, 19.4, from floodmark; minimum discharge, 1.5 ft<sup>3</sup>/s, Oct. 9, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 2,100 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Jan. 20 | 2130 | *2,660                            | *9.47               | Feb. 5 | 0130 | 2,190                             | 8.12                |

Minimum daily discharge, 19 ft<sup>3</sup>/s, July 10.

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     | 45   | 35   | 61   | 119  | 118  | 93   | 115  | 90   | 35   | 23   | 28   | 38   |
| 2     | 42   | 33   | 57   | 186  | 133  | 90   | 141  | 88   | 34   | 21   | 86   | 32   |
| 3     | 39   | 34   | 54   | 180  | 412  | 90   | 119  | 86   | 33   | 24   | 39   | 46   |
| 4     | 36   | 39   | 54   | 225  | 1360 | 104  | 192  | 95   | 30   | 29   | 36   | 357  |
| 5     | 33   | 39   | 52   | 147  | 1200 | 100  | 133  | 107  | 29   | 30   | 80   | 388  |
| 6     | 31   | 38   | 53   | 119  | 330  | 94   | 147  | 91   | 30   | 27   | 79   | 143  |
| 7     | 30   | 37   | 52   | 112  | 230  | 92   | 126  | 80   | 28   | 24   | 131  | 87   |
| 8     | 28   | 38   | 56   | 117  | 190  | 89   | 106  | 72   | 27   | 21   | 103  | 66   |
| 9     | 29   | 41   | 54   | 110  | 165  | 159  | 97   | 69   | 29   | 20   | 53   | 82   |
| 10    | 29   | 150  | 61   | 123  | 145  | 254  | 91   | 81   | 30   | 19   | 40   | 88   |
| 11    | 28   | 132  | 71   | 147  | 135  | 153  | 221  | 79   | 27   | 27   | 63   | 364  |
| 12    | 28   | 72   | 63   | 127  | 135  | 123  | 954  | 68   | 26   | 39   | 59   | 384  |
| 13    | 26   | 57   | 59   | 147  | 125  | 253  | 366  | 63   | 25   | 27   | 42   | 255  |
| 14    | 24   | 50   | 62   | 154  | 120  | 158  | 200  | 64   | 23   | 32   | 35   | 132  |
| 15    | 24   | 51   | 311  | 120  | 125  | 123  | 168  | 64   | 22   | 49   | 41   | 97   |
| 16    | 24   | 51   | 217  | 108  | 135  | 111  | 143  | 72   | 21   | 47   | 29   | 83   |
| 17    | 22   | 233  | 111  | 283  | 125  | 108  | 126  | 78   | 31   | 73   | 24   | 360  |
| 18    | 23   | 207  | 86   | 555  | 125  | 122  | 274  | 58   | 35   | 32   | 22   | 235  |
| 19    | 24   | 100  | 78   | 300  | 170  | 164  | 501  | 56   | 113  | 25   | 21   | 138  |
| 20    | 24   | 83   | 81   | 1850 | 140  | 122  | 266  | 54   | 81   | 22   | 39   | 109  |
| 21    | 25   | 67   | 120  | 1140 | 125  | 111  | 174  | 51   | 59   | 20   | 283  | 95   |
| 22    | 25   | 62   | 197  | 388  | 115  | 105  | 145  | 48   | 40   | 43   | 159  | 76   |
| 23    | 26   | 58   | 119  | 280  | 105  | 101  | 164  | 48   | 34   | 65   | 79   | 67   |
| 24    | 27   | 57   | 102  | 230  | 105  | 99   | 178  | 52   | 30   | 45   | 359  | 62   |
| 25    | 29   | 56   | 129  | 185  | 105  | 154  | 136  | 66   | 27   | 28   | 121  | 59   |
| 26    | 31   | 80   | 102  | 150  | 126  | 205  | 151  | 52   | 27   | 25   | 65   | 56   |
| 27    | 61   | 118  | 98   | 131  | 118  | 135  | 123  | 46   | 29   | 47   | 49   | 53   |
| 28    | 58   | 79   | 409  | 126  | 111  | 118  | 110  | 42   | 24   | 124  | 41   | 49   |
| 29    | 39   | 69   | 248  | 124  | 106  | 108  | 100  | 41   | 23   | 67   | 38   | 45   |
| 30    | 38   | 66   | 141  | 123  | ---  | 100  | 95   | 40   | 22   | 56   | 49   | 43   |
| 31    | 34   | ---  | 115  | 126  | ---  | 99   | ---  | 39   | ---  | 33   | 70   | ---  |
| TOTAL | 982  | 2232 | 3473 | 8232 | 6634 | 3937 | 5862 | 2040 | 1024 | 1164 | 2363 | 4089 |
| MEAN  | 31.7 | 74.4 | 112  | 266  | 229  | 127  | 195  | 65.8 | 34.1 | 37.5 | 76.2 | 136  |
| MAX   | 61   | 233  | 409  | 1850 | 1360 | 254  | 954  | 107  | 113  | 124  | 359  | 388  |
| MIN   | 22   | 33   | 52   | 108  | 105  | 89   | 91   | 39   | 21   | 19   | 21   | 32   |
| CFSM  | .24  | .56  | .84  | 1.99 | 1.71 | .95  | 1.46 | .49  | .25  | .28  | .57  | 1.02 |
| IN.   | .27  | .62  | .96  | 2.29 | 1.84 | 1.09 | 1.63 | .57  | .28  | .32  | .66  | 1.14 |

WTR YR 1988 TOTAL 42032 MEAN 115 MAX 1850 MIN 19 CFSM .86 IN 11.67

ALTAMAHA RIVER BASIN

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02206500 YELLOW RIVER NEAR SNELLVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV<br>05... | 0930 | 41                                              | 292                                               | 282                                                      | 7.20                           | 7.10                                  | 15.5                                 | 17.5                               | 7.2                                 | 74                                                             |
| MAR<br>03... | 0830 | 91                                              | 169                                               | 162                                                      | 7.40                           | 7.70                                  | 10.0                                 | 16.0                               | 10.2                                | 92                                                             |
| MAY<br>05... | 0800 | 109                                             | 128                                               | 130                                                      | 7.00                           | 7.10                                  | 15.5                                 | 16.0                               | 8.6                                 | 89                                                             |
| SEP<br>06... | 0830 | 146                                             | 96                                                | 95                                                       | 7.10                           | 7.10                                  | 20.5                                 | 19.0                               | 7.5                                 | 86                                                             |

| DATE         | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LILITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| NOV<br>05... | 1.0                          | 1.0                                                            | 80                                               | 53                                                              | 4.20                                                 | 0.480                                                | 0.190                                       | 13                                            |
| MAR<br>03... | 12                           | 1.9                                                            | 1100                                             | 37                                                              | 1.44                                                 | 0.810                                                | 0.050                                       | 2.8                                           |
| MAY<br>05... | 19                           | 1.7                                                            | --                                               | 30                                                              | 1.39                                                 | 0.330                                                | 0.040                                       | 3.6                                           |
| SEP<br>06... | 48                           | 0.9                                                            | 2300                                             | 22                                                              | 0.800                                                | 0.050                                                | 0.080                                       | 3.8                                           |

## 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 mi<sup>2</sup>, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1100 | 49                                              | 229                                               | 234                                                      | 7.40                           | 7.20                                  | 13.0                                 | 19.0                               | 8.1                                 | 78                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1055 | 71                                              | 225                                               | 215                                                      | 7.20                           | 7.00                                  | 15.0                                 | 23.0                               | 7.0                                 | 71                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 0945 | 93                                              | 175                                               | 169                                                      | 7.10                           | 7.40                                  | 6.0                                  | 7.5                                | 10.2                                | 84                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 0830 | 278                                             | 132                                               | 126                                                      | 7.20                           | 7.20                                  | 2.5                                  | 1.0                                | 9.8                                 | 72                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1030 | 1000                                            | 69                                                | 66                                                       | 7.10                           | 6.90                                  | 13.5                                 | 17.0                               | 9.7                                 | 95                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1230 | 143                                             | 128                                               | 118                                                      | 7.30                           | 7.50                                  | 10.0                                 | 19.0                               | 10.6                                | 95                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0915 | 260                                             | 113                                               | 115                                                      | 7.20                           | 7.20                                  | 16.0                                 | 13.0                               | 8.6                                 | 90                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 0900 | 168                                             | 125                                               | 127                                                      | 6.80                           | 7.10                                  | 16.5                                 | 18.0                               | 8.3                                 | 87                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0900 | 47                                              | 210                                               | 194                                                      | 7.10                           | 7.30                                  | 23.5                                 | 25.0                               | 5.3                                 | 64                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1330 | 46                                              | 248                                               | 244                                                      | 7.30                           | 7.60                                  | 24.0                                 | 29.0                               | 6.2                                 | 75                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1015 | 37                                              | 165                                               | 163                                                      | 7.20                           | 7.10                                  | 26.5                                 | 32.5                               | 5.7                                 | 72                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0930 | --                                              | 84                                                | 81                                                       | 7.20                           | 7.10                                  | 21.0                                 | 20.0                               | 7.1                                 | 82                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 08... | 10                           | 1.1                                                            | 330                                              | 40                                                              | 4.75                                                 | 0.070                                                | 0.110                                       | 3.7                                           |
| NOV   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 05... | 6.0                          | 1.0                                                            | 40                                               | 42                                                              | 3.30                                                 | 0.100                                                | 0.050                                       | 12                                            |
| DEC   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 03... | 10                           | 1.8                                                            | 150                                              | 38                                                              | 2.30                                                 | 0.120                                                | 0.070                                       | 2.4                                           |
| JAN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 14... | 15                           | --                                                             | --                                               | 25                                                              | 1.43                                                 | 0.170                                                | 0.040                                       | 2.2                                           |
| FEB   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 04... | 220                          | 1.6                                                            | 7900                                             | 17                                                              | 0.630                                                | 0.030                                                | 0.310                                       | 11                                            |
| MAR   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 03... | 10                           | 1.1                                                            | 110                                              | 27                                                              | 1.38                                                 | 0.120                                                | 0.030                                       | 2.3                                           |
| APR   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 07... | 15                           | 1.1                                                            | 790                                              | 27                                                              | 1.12                                                 | 0.140                                                | 0.040                                       | 2.6                                           |
| MAY   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 05... | 15                           | 1.4                                                            | --                                               | 29                                                              | 1.45                                                 | 0.070                                                | 0.040                                       | 2.9                                           |
| JUN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 09... | 9.0                          | 1.0                                                            | --                                               | 37                                                              | 1.50                                                 | 0.160                                                | 0.090                                       | 2.9                                           |
| JUL   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 07... | 9.0                          | 0.3                                                            | 110                                              | 43                                                              | 2.40                                                 | 0.100                                                | 0.100                                       | 4.0                                           |
| AUG   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 02... | 32                           | 1.1                                                            | 230                                              | 30                                                              | 1.57                                                 | 0.090                                                | 0.090                                       | 5.4                                           |
| SEP   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 06... | 100                          | 1.5                                                            | 1700                                             | 21                                                              | 0.470                                                | 0.050                                                | 0.130                                       | 4.1                                           |

## ALTAMAHA RIVER BASIN

109

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 mi<sup>2</sup>, approximately.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 0945 | 42                                              | 145                                               | 149                                                      | 7.30                           | 7.20                                  | 12.0                                 | 15.5                               | 8.9                                 | 83                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1215 | 60                                              | 150                                               | 146                                                      | 7.40                           | 7.20                                  | 16.0                                 | 27.0                               | 9.2                                 | 95                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1120 | 190                                             | 121                                               | 119                                                      | 7.30                           | 7.50                                  | 6.0                                  | 15.0                               | 11.2                                | 91                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1015 | 450                                             | 105                                               | 100                                                      | 7.20                           | 7.20                                  | 3.5                                  | 5.5                                | --                                  | --                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1145 | 2650                                            | 50                                                | 47                                                       | 6.80                           | 6.50                                  | 14.0                                 | 17.5                               | 9.7                                 | 95                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1340 | 310                                             | 105                                               | 99                                                       | 7.30                           | 7.20                                  | 10.5                                 | 19.0                               | 10.5                                | 95                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1040 | 340                                             | 86                                                | 88                                                       | 7.20                           | 7.20                                  | 16.0                                 | 19.0                               | 8.6                                 | 89                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1020 | 240                                             | 94                                                | 97                                                       | 7.20                           | 7.20                                  | 16.0                                 | 21.0                               | 8.6                                 | 88                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1045 | 45                                              | 137                                               | 134                                                      | 7.30                           | 7.20                                  | 24.0                                 | 31.0                               | 6.7                                 | 82                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1220 | 47                                              | 160                                               | 156                                                      | 7.30                           | 7.50                                  | 23.0                                 | 28.5                               | 7.5                                 | 88                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1130 | 44                                              | 125                                               | 123                                                      | 7.30                           | 7.30                                  | 27.0                                 | 33.5                               | 6.4                                 | 81                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1030 | --                                              | 67                                                | 66                                                       | 7.00                           | 7.00                                  | 21.5                                 | 22.5                               | 7.7                                 | 90                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 08... | 11                           | 8                                                              | 1.2                                                            | 330                                              | 33                                                              | 7                                                                 |
| NOV   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 05... | 4.0                          | 7                                                              | 0.9                                                            | 450                                              | 38                                                              | 17                                                                |
| DEC   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 03... | 9.0                          | 1                                                              | 1.4                                                            | 330                                              | 28                                                              | 5                                                                 |
| JAN   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 14... | 13                           | 6                                                              | --                                                             | --                                               | 21                                                              | 12                                                                |
| FEB   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 04... | 470                          | 9                                                              | 2.8                                                            | 7900                                             | 10                                                              | 770                                                               |
| MAR   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 03... | 9.0                          | 10                                                             | 1.6                                                            | 50                                               | 16                                                              | 6                                                                 |
| APR   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 07... | 10                           | 6                                                              | 1.3                                                            | 80                                               | 25                                                              | 12                                                                |
| MAY   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 05... | 15                           | 15                                                             | 1.1                                                            | --                                               | 25                                                              | 12                                                                |
| JUN   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 09... | 10                           | 22                                                             | 1.0                                                            | --                                               | 33                                                              | 5                                                                 |
| JUL   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 07... | 10                           | --                                                             | 0.4                                                            | 130                                              | 34                                                              | 11                                                                |
| AUG   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 02... | 23                           | --                                                             | 0.3                                                            | 50                                               | 28                                                              | 4                                                                 |
| SEP   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 06... | 180                          | --                                                             | 2.1                                                            | 2300                                             | 14                                                              | 166                                                               |

## ALTAMAHA RIVER BASIN

02208005 YELLOW RIVER NEAR STEWART, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 08... | 1.72                                                 | 0.140                                                | 0.26                                                 | 0.40                                                               | 2.1                                       | 0.050                                       | 2.8                                           |
| NOV   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 05... | 0.990                                                | 0.030                                                | --                                                   | <0.10                                                              | --                                        | 0.040                                       | 7.9                                           |
| DEC   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 03... | 1.14                                                 | 0.080                                                | 0.42                                                 | 0.50                                                               | 1.6                                       | 0.090                                       | 2.7                                           |
| JAN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 14... | 1.03                                                 | 0.140                                                | 0.26                                                 | 0.40                                                               | 1.4                                       | 0.060                                       | 2.1                                           |
| FEB   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 04... | 0.420                                                | 0.040                                                | 2.6                                                  | 2.6                                                                | 3.0                                       | 0.670                                       | 24                                            |
| MAR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 03... | 0.940                                                | 0.140                                                | 0.06                                                 | 0.20                                                               | 1.1                                       | 0.030                                       | 1.9                                           |
| APR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 07... | 0.630                                                | 0.070                                                | 0.23                                                 | 0.30                                                               | 0.93                                      | 0.060                                       | 3.7                                           |
| MAY   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 05... | 1.01                                                 | 0.030                                                | 0.77                                                 | 0.80                                                               | 1.8                                       | 0.040                                       | 2.8                                           |
| JUN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 09... | 0.880                                                | 0.070                                                | 0.33                                                 | 0.40                                                               | 1.3                                       | 0.030                                       | 2.0                                           |
| JUL   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 07... | 1.30                                                 | 0.050                                                | --                                                   | --                                                                 | --                                        | 0.030                                       | 2.2                                           |
| AUG   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 02... | 0.860                                                | 0.050                                                | --                                                   | --                                                                 | --                                        | 0.050                                       | 3.8                                           |
| SEP   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 06... | 0.420                                                | <0.030                                               | --                                                   | --                                                                 | --                                        | 0.290                                       | 6.9                                           |



## ALTAMAHA RIVER BASIN

111

## 02208450 ALCOVY RIVER ABOVE COVINGTON, GA.

LOCATION.--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 mi<sup>2</sup>, 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 due to irrigation and by the city of Covington.

AVERAGE DISCHARGE.--16 years, 240 ft<sup>3</sup>/s, 17.62 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,530 ft<sup>3</sup>/s, Mar. 16, 1976, gage height, 14.79 ft; minimum daily discharge, 0.56 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date     | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|----------|------|-----------------------------------|---------------------|
| Sept. 12 | 0900 | *1,480                            | *9.25               |

Minimum daily discharge, 1.6 ft<sup>3</sup>/s, July 28, Aug. 4.

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     | 7.2   | 19   | 62   | 111  | 134  | 101  | 93   | 85   | 18    | 2.4   | 2.9   | 18   |
| 2     | 8.0   | 19   | 58   | 131  | 133  | 99   | 95   | 80   | 15    | 2.6   | 1.8   | 20   |
| 3     | 6.8   | 18   | 52   | 163  | 178  | 98   | 99   | 74   | 14    | 2.6   | 2.0   | 17   |
| 4     | 5.1   | 18   | 47   | 210  | 485  | 101  | 103  | 73   | 11    | 2.8   | 1.6   | 91   |
| 5     | 4.3   | 20   | 45   | 209  | 747  | 104  | 99   | 75   | 10    | 6.2   | 1.7   | 283  |
| 6     | 3.8   | 20   | 45   | 174  | 794  | 104  | 95   | 76   | 10    | 7.6   | 13    | 292  |
| 7     | 3.9   | 19   | 44   | 147  | 607  | 98   | 88   | 69   | 8.6   | 5.4   | 52    | 174  |
| 8     | 3.3   | 20   | 43   | 144  | 339  | 95   | 86   | 62   | 7.8   | 3.9   | 100   | 81   |
| 9     | 3.3   | 21   | 44   | 137  | 265  | 98   | 81   | 58   | 8.0   | 3.0   | 75    | 72   |
| 10    | 3.8   | 44   | 48   | 124  | 227  | 124  | 77   | 61   | 8.3   | 38    | 37    | 99   |
| 11    | 4.2   | 62   | 59   | 119  | 198  | 158  | 86   | 64   | 6.8   | 36    | 32    | 274  |
| 12    | 4.3   | 64   | 61   | 114  | 179  | 147  | 224  | 58   | 6.6   | 33    | 29    | 1150 |
| 13    | 4.5   | 55   | 56   | 118  | 165  | 141  | 320  | 53   | 6.0   | 27    | 27    | 1110 |
| 14    | 3.9   | 44   | 52   | 135  | 154  | 153  | 341  | 50   | 4.4   | 20    | 24    | 1010 |
| 15    | 4.3   | 40   | 74   | 140  | 151  | 152  | 228  | 49   | 3.3   | 16    | 20    | 653  |
| 16    | 4.1   | 37   | 115  | 129  | 152  | 127  | 165  | 48   | 2.2   | 11    | 16    | 265  |
| 17    | 4.8   | 62   | 131  | 138  | 146  | 114  | 133  | 47   | 2.2   | 8.7   | 11    | 189  |
| 18    | 5.7   | 87   | 103  | 258  | 137  | 113  | 132  | 44   | 3.3   | 6.7   | 8.7   | 221  |
| 19    | 6.9   | 95   | 81   | 325  | 150  | 138  | 182  | 41   | 2.9   | 7.1   | 6.3   | 284  |
| 20    | 7.1   | 85   | 76   | 499  | 160  | 146  | 213  | 38   | 9.4   | 5.0   | 8.2   | 225  |
| 21    | 6.1   | 70   | 79   | 646  | 155  | 131  | 204  | 35   | 18    | 3.5   | 10    | 160  |
| 22    | 5.6   | 61   | 113  | 815  | 137  | 115  | 155  | 34   | 13    | 3.0   | 9.3   | 127  |
| 23    | 6.5   | 55   | 128  | 651  | 125  | 107  | 160  | 33   | 11    | 4.4   | 13    | 97   |
| 24    | 8.0   | 52   | 119  | 348  | 121  | 103  | 202  | 31   | 7.8   | 4.4   | 16    | 82   |
| 25    | 10    | 50   | 99   | 263  | 118  | 105  | 166  | 39   | 5.8   | 3.9   | 51    | 73   |
| 26    | 12    | 57   | 92   | 223  | 112  | 126  | 156  | 38   | 5.0   | 2.6   | 65    | 67   |
| 27    | 13    | 72   | 93   | 192  | 108  | 129  | 138  | 32   | 6.5   | 1.8   | 34    | 62   |
| 28    | 18    | 81   | 113  | 167  | 107  | 120  | 119  | 28   | 5.6   | 1.6   | 21    | 56   |
| 29    | 20    | 80   | 143  | 151  | 106  | 104  | 101  | 26   | 3.5   | 2.0   | 16    | 53   |
| 30    | 20    | 70   | 166  | 143  | ---  | 98   | 90   | 23   | 2.6   | 2.5   | 13    | 50   |
| 31    | 19    | ---  | 134  | 139  | ---  | 95   | ---  | 20   | ---   | 2.2   | 14    | ---  |
| TOTAL | 237.5 | 1497 | 2575 | 7263 | 6590 | 3644 | 4431 | 1544 | 236.6 | 276.9 | 731.5 | 7355 |
| MEAN  | 7.66  | 49.9 | 83.1 | 234  | 227  | 118  | 148  | 49.8 | 7.89  | 8.93  | 23.6  | 245  |
| MAX   | 20    | 95   | 166  | 815  | 794  | 158  | 341  | 85   | 18    | 38    | 100   | 1150 |
| MIN   | 3.3   | 18   | 43   | 111  | 106  | 95   | 77   | 20   | 2.2   | 1.6   | 1.6   | 17   |
| CFSM  | .04   | .27  | .45  | 1.27 | 1.23 | .64  | .80  | .27  | .04   | .05   | .13   | 1.32 |
| IN.   | .05   | .30  | .52  | 1.46 | 1.33 | .73  | .89  | .31  | .05   | .06   | .15   | 1.48 |

|             |       |         |      |      |     |      |     |     |      |     |    |       |
|-------------|-------|---------|------|------|-----|------|-----|-----|------|-----|----|-------|
| CAL YR 1987 | TOTAL | 55160.7 | MEAN | 151  | MAX | 1910 | MIN | 3.3 | CFSM | .82 | IN | 11.09 |
| WTR YR 1988 | TOTAL | 36381.5 | MEAN | 99.4 | MAX | 1150 | MIN | 1.6 | CFSM | .54 | IN | 7.32  |

## ALTAMAHA RIVER BASIN

02209260 ALCOVY RIVER ABOVE STEWART, GA.

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

DRAINAGE AREA.--250 mi<sup>2</sup>, approximately.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 0915 | 65                                                | 62                                                       | 7.30                           | 7.10                                  | 13.0                                 | 15.5                               | 8.8                                 | 84                                                             |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1300 | 72                                                | 68                                                       | 7.10                           | 7.00                                  | 17.5                                 | 28.0                               | 8.2                                 | 87                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1150 | 60                                                | 58                                                       | 7.20                           | 7.20                                  | 8.0                                  | 18.0                               | 11.2                                | 96                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1045 | 55                                                | 52                                                       | 7.20                           | 7.10                                  | 3.0                                  | 5.5                                | --                                  | --                                                             |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1220 | 38                                                | 35                                                       | 6.60                           | 6.40                                  | 14.0                                 | 17.5                               | 9.5                                 | 94                                                             |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1400 | 42                                                | 50                                                       | 7.30                           | 7.30                                  | 10.0                                 | 23.0                               | 11.3                                | 101                                                            |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1115 | 56                                                | 56                                                       | 7.30                           | 7.40                                  | 17.0                                 | 19.0                               | 9.0                                 | 96                                                             |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1045 | 55                                                | 56                                                       | 7.10                           | 7.10                                  | 16.5                                 | 22.0                               | 9.1                                 | 95                                                             |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1110 | 63                                                | 61                                                       | 7.30                           | 7.30                                  | 26.0                                 | 32.0                               | 7.7                                 | 98                                                             |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1200 | 68                                                | 67                                                       | 7.20                           | 7.40                                  | 26.0                                 | 28.5                               | 7.6                                 | 95                                                             |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1200 | 63                                                | 61                                                       | 7.30                           | 7.40                                  | 29.5                                 | 34.0                               | 7.3                                 | 97                                                             |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1050 | 58                                                | 47                                                       | 7.00                           | 6.80                                  | 21.0                                 | 23.0                               | 7.9                                 | 91                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 08... | 10                           | --                                                             | 1.2                                                            | 50                                               | 23                                                              | 6                                                                 |
| NOV   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 05... | 5.0                          | --                                                             | 0.7                                                            | 20                                               | 25                                                              | 16                                                                |
| DEC   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 03... | 7.0                          | --                                                             | 1.6                                                            | <20                                              | 18                                                              | 2                                                                 |
| JAN   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 14... | 7.0                          | --                                                             | --                                                             | --                                               | 13                                                              | 2                                                                 |
| FEB   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 04... | 250                          | --                                                             | 1.5                                                            | 23000                                            | 7                                                               | 360                                                               |
| MAR   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 03... | 6.0                          | --                                                             | 1.6                                                            | 130                                              | 17                                                              | 3                                                                 |
| APR   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 07... | 5.0                          | --                                                             | 1.0                                                            | 50                                               | 20                                                              | 5                                                                 |
| MAY   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 05... | 10                           | --                                                             | 1.1                                                            | --                                               | 21                                                              | 1                                                                 |
| JUN   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 09... | 9.0                          | --                                                             | 0.9                                                            | --                                               | 22                                                              | 4                                                                 |
| JUL   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 07... | 6.0                          | 34                                                             | 0.9                                                            | 20                                               | 28                                                              | 2                                                                 |
| AUG   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 02... | 3.0                          | 11                                                             | 0.5                                                            | 80                                               | 23                                                              | <1                                                                |
| SEP   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 06... | 150                          | 14                                                             | 1.8                                                            | 1300                                             | 12                                                              | 72                                                                |

ALTAMAHA RIVER BASIN

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02209260 ALCOVY RIVER ABOVE STEWART, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT<br>08... | 0.090                                                | 0.020                                                | --                                                   | --                                                                 | --                                        | 0.030                                       | 3.0                                           |
| NOV<br>05... | <0.020                                               | 0.030                                                | --                                                   | --                                                                 | --                                        | 0.030                                       | 11                                            |
| DEC<br>03... | 0.190                                                | 0.040                                                | --                                                   | --                                                                 | --                                        | 0.050                                       | 3.2                                           |
| JAN<br>14... | 0.430                                                | 0.150                                                | --                                                   | --                                                                 | --                                        | 0.040                                       | 1.6                                           |
| FEB<br>04... | 0.270                                                | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.390                                       | 19                                            |
| MAR<br>03... | 0.280                                                | 0.100                                                | --                                                   | --                                                                 | --                                        | 0.030                                       | 1.8                                           |
| APR<br>07... | 0.230                                                | 0.090                                                | --                                                   | --                                                                 | --                                        | 0.030                                       | 2.7                                           |
| MAY<br>05... | 0.300                                                | 0.040                                                | --                                                   | --                                                                 | --                                        | 0.030                                       | 2.4                                           |
| JUN<br>09... | 0.270                                                | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.030                                       | 2.3                                           |
| JUL<br>07... | 0.180                                                | 0.070                                                | 0.43                                                 | 0.50                                                               | 0.68                                      | <0.020                                      | 2.3                                           |
| AUG<br>02... | 0.090                                                | 0.030                                                | 0.27                                                 | 0.30                                                               | 0.39                                      | <0.020                                      | 3.8                                           |
| SEP<br>06... | 0.390                                                | 0.040                                                | 0.66                                                 | 0.70                                                               | 1.1                                       | 0.130                                       | 6.6                                           |

## 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 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1906 to September 1915, August 1939 to September 1960, October 1975 to September 1982, March 1987 to current year.

GAGE.--Water stage recorder. Datum of gage is 419.29 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1913, staff gages; Jan. 1 to Dec. 31, 1913, water-stage recorder; Jan. 1, 1914 to Dec. 31, 1915, staff gage; and Aug. 1, 1939 to Sept. 30, 1960 and Oct. 1, 1975 to Sept. 30, 1982, water-stage recorder, all at present site and datum.

REMARKS.--Estimated daily discharges: Mar. 1-11, 1987 and May 14 to June 13, 1988. Records good, except those for the period Mar. 1 to Sept. 30, 1987, which are fair and those for the period May 14 to June 13, 1988, which are poor. Flow regulated by Lloyd Shoals Reservoir (see "Lakes and Reservoirs in the Altamaha River Basin," station 02210000).

AVERAGE DISCHARGE.--38 years (1906-15, 1939-60, 1975-82, 1988), 1,699 ft<sup>3</sup>/s, 16.25 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,600 ft<sup>3</sup>/s, Nov. 28, 1948, gage height, 23.9; minimum daily discharge, 18 ft<sup>3</sup>/s, Nov. 20, 1910.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 26.8 ft, Dec. 11, 1919, from graph based on gage readings, discharge, 69,000 ft<sup>3</sup>/s, by computation of flow over dam.

EXTREMES FOR CURRENT PERIOD.--March to September 1987: Maximum recorded discharge during period, 4,660 ft<sup>3</sup>/s, Mar. 28, gage height, 6.47 ft, but peak of March 2 was higher; minimum daily discharge 160 ft<sup>3</sup>/s, Sept. 13.

Water year 1988: Maximum discharge, 13,100 ft<sup>3</sup>/s, Feb. 5; gage height, 9.85 ft; minimum daily discharge, 121 ft<sup>3</sup>/s, July 9, 13, 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     |     |     |     |     |     | 9200   | 4470  | 878   | 688   | 977   | 523   | 459   |
| 2     |     |     |     |     |     | 14000  | 3170  | 1270  | 652   | 1140  | 520   | 463   |
| 3     |     |     |     |     |     | 10000  | 3130  | 1070  | 562   | 868   | 502   | 454   |
| 4     |     |     |     |     |     | 5000   | 3130  | 1490  | 531   | 1330  | 521   | 489   |
| 5     |     |     |     |     |     | 4600   | 2640  | 965   | 902   | 1100  | 513   | 510   |
| 6     |     |     |     |     |     | 3200   | 1750  | 1710  | 480   | 1220  | 935   | 501   |
| 7     |     |     |     |     |     | 3100   | 1470  | 1390  | 862   | 1530  | 541   | 499   |
| 8     |     |     |     |     |     | 3300   | 1530  | 984   | 883   | 1450  | 858   | 489   |
| 9     |     |     |     |     |     | 3500   | 1860  | 902   | 774   | 1140  | 775   | 489   |
| 10    |     |     |     |     |     | 3300   | 1950  | 811   | 513   | 1050  | 935   | 483   |
| 11    |     |     |     |     |     | 3150   | 1290  | 1340  | 781   | 695   | 748   | 295   |
| 12    |     |     |     |     |     | 3120   | 1300  | 656   | 703   | 645   | 812   | 162   |
| 13    |     |     |     |     |     | 3090   | 1290  | 1530  | 1040  | 649   | 709   | 160   |
| 14    |     |     |     |     |     | 3060   | 2010  | 1460  | 1960  | 728   | 474   | 263   |
| 15    |     |     |     |     |     | 2980   | 1950  | 2110  | 2500  | 685   | 490   | 282   |
| 16    |     |     |     |     |     | 2180   | 2020  | 1430  | 1650  | 654   | 466   | 307   |
| 17    |     |     |     |     |     | 1960   | 898   | 1220  | 2060  | 570   | 474   | 300   |
| 18    |     |     |     |     |     | 2160   | 630   | 1900  | 1980  | 578   | 484   | 319   |
| 19    |     |     |     |     |     | 2630   | 1030  | 1100  | 1480  | 556   | 471   | 332   |
| 20    |     |     |     |     |     | 2170   | 1210  | 1150  | 993   | 557   | 474   | 326   |
| 21    |     |     |     |     |     | 1070   | 1130  | 1430  | 1100  | 542   | 472   | 290   |
| 22    |     |     |     |     |     | 1560   | 1450  | 1150  | 1690  | 551   | 454   | 297   |
| 23    |     |     |     |     |     | 1520   | 1870  | 966   | 1020  | 522   | 472   | 290   |
| 24    |     |     |     |     |     | 1330   | 1040  | 887   | 1010  | 537   | 456   | 259   |
| 25    |     |     |     |     |     | 2020   | 668   | 1060  | 1420  | 525   | 457   | 259   |
| 26    |     |     |     |     |     | 1650   | 686   | 898   | 1600  | 539   | 465   | 278   |
| 27    |     |     |     |     |     | 2190   | 1500  | 823   | 1870  | 503   | 465   | 276   |
| 28    |     |     |     |     |     | 3470   | 1190  | 669   | 917   | 536   | 482   | 286   |
| 29    |     |     |     |     |     | 4390   | 937   | 672   | 1090  | 522   | 489   | 263   |
| 30    |     |     |     |     |     | 3480   | 1040  | 693   | 970   | 521   | 489   | 266   |
| 31    |     |     |     |     |     | 4530   | ---   | 707   | ---   | 520   | 467   | ---   |
| TOTAL |     |     |     |     |     | 112910 | 50239 | 35321 | 34681 | 23940 | 17393 | 10346 |
| MEAN  |     |     |     |     |     | 3642   | 1675  | 1139  | 1156  | 772   | 561   | 345   |
| MAX   |     |     |     |     |     | 14000  | 4470  | 2110  | 2500  | 1530  | 935   | 510   |
| MIN   |     |     |     |     |     | 1070   | 630   | 656   | 480   | 503   | 454   | 160   |

ALTAMAHA RIVER BASIN

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02210500 OCMULGEE RIVER NEAR JACKSON, GA.--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     | 278  | 223  | 303   | 1770  | 1620  | 501   | 711   | 1020  | 400  | 208  | 191  | 408   |
| 2     | 307  | 227  | 503   | 833   | 1800  | 486   | 916   | 785   | 380  | 130  | 186  | 710   |
| 3     | 270  | 234  | 680   | 1500  | 2460  | 968   | 830   | 783   | 370  | 130  | 182  | 879   |
| 4     | 261  | 250  | 466   | 1930  | 2930  | 1040  | 755   | 1000  | 360  | 130  | 177  | 1530  |
| 5     | 254  | 243  | 310   | 1990  | 9470  | 973   | 743   | 579   | 350  | 130  | 196  | 4520  |
| 6     | 240  | 241  | 272   | 920   | 7160  | 795   | 875   | 582   | 350  | 149  | 508  | 6730  |
| 7     | 244  | 245  | 269   | 1740  | 4190  | 828   | 996   | 584   | 350  | 163  | 366  | 2480  |
| 8     | 255  | 244  | 548   | 565   | 3200  | 804   | 761   | 885   | 360  | 146  | 205  | 1320  |
| 9     | 251  | 240  | 534   | 1170  | 2560  | 831   | 523   | 786   | 400  | 121  | 205  | 1160  |
| 10    | 227  | 244  | 274   | 960   | 2540  | 841   | 531   | 777   | 360  | 122  | 219  | 667   |
| 11    | 223  | 249  | 280   | 1120  | 2520  | 1600  | 1270  | 889   | 340  | 160  | 183  | 1150  |
| 12    | 228  | 240  | 280   | 911   | 2280  | 1180  | 1860  | 757   | 250  | 140  | 196  | 2020  |
| 13    | 229  | 236  | 280   | 967   | 1650  | 1060  | 2390  | 741   | 230  | 121  | 478  | 3100  |
| 14    | 235  | 230  | 617   | 1020  | 1450  | 1260  | 2400  | 660   | 286  | 134  | 212  | 3080  |
| 15    | 234  | 227  | 857   | 743   | 1480  | 1140  | 1680  | 640   | 298  | 134  | 208  | 2940  |
| 16    | 232  | 227  | 1690  | 1280  | 1670  | 1090  | 800   | 840   | 280  | 129  | 208  | 1890  |
| 17    | 232  | 305  | 1200  | 1380  | 1810  | 882   | 1010  | 760   | 272  | 130  | 210  | 2650  |
| 18    | 222  | 281  | 360   | 1910  | 1970  | 857   | 1850  | 720   | 277  | 133  | 215  | 2950  |
| 19    | 226  | 262  | 360   | 2410  | 2260  | 1110  | 2510  | 660   | 276  | 121  | 221  | 1350  |
| 20    | 232  | 253  | 360   | 2570  | 1360  | 969   | 2500  | 600   | 272  | 162  | 227  | 1230  |
| 21    | 225  | 287  | 1230  | 2550  | 1260  | 1010  | 1810  | 560   | 275  | 155  | 227  | 493   |
| 22    | 226  | 461  | 1550  | 2520  | 977   | 995   | 1030  | 500   | 280  | 195  | 230  | 1210  |
| 23    | 220  | 476  | 1360  | 3230  | 984   | 758   | 1710  | 500   | 280  | 165  | 228  | 995   |
| 24    | 228  | 279  | 1710  | 3550  | 803   | 663   | 2430  | 600   | 274  | 166  | 231  | 609   |
| 25    | 229  | 305  | 1850  | 2480  | 1610  | 832   | 2530  | 500   | 278  | 186  | 223  | 612   |
| 26    | 231  | 554  | 618   | 2420  | 890   | 776   | 2520  | 480   | 280  | 190  | 265  | 580   |
| 27    | 251  | 553  | 842   | 1680  | 657   | 849   | 1660  | 460   | 280  | 185  | 227  | 538   |
| 28    | 232  | 564  | 1520  | 1710  | 812   | 745   | 536   | 440   | 280  | 189  | 231  | 450   |
| 29    | 232  | 474  | 1630  | 1530  | 729   | 739   | 767   | 420   | 280  | 189  | 344  | 351   |
| 30    | 232  | 448  | 1640  | 1330  | ---   | 993   | 837   | 410   | 284  | 192  | 418  | 379   |
| 31    | 235  | ---  | 1790  | 1550  | ---   | 518   | ---   | 400   | ---  | 192  | 415  | ---   |
| TOTAL | 7421 | 9302 | 26183 | 52239 | 65102 | 28093 | 41741 | 20318 | 9252 | 4797 | 7832 | 48981 |
| MEAN  | 239  | 310  | 845   | 1685  | 2245  | 906   | 1391  | 655   | 308  | 155  | 253  | 1633  |
| MAX   | 307  | 564  | 1850  | 3550  | 9470  | 1600  | 2530  | 1020  | 400  | 208  | 508  | 6730  |
| MIN   | 220  | 223  | 269   | 565   | 657   | 486   | 523   | 400   | 230  | 121  | 177  | 351   |

WTR YR 1988 TOTAL 321261 MEAN 878 MAX 9470 MIN 121 MEAN† 903 CFSM† .64 INT 8.66

†ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.



## ALTAMAHA RIVER BASIN

02210500 OCMULGEE RIVER NEAR JACKSON, GA.--Continued

## WATER-QUALITY RECORDS

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 08... | 0800 | 289                                             | 128                                               | 114                                                      | 7.10                           | 7.00                                  | 20.5                                 | 8.0                                | 4.8                                 | 53                                                             |
| NOV 05... | 1345 | 216                                             | 134                                               | 127                                                      | 7.10                           | 6.90                                  | 17.5                                 | 29.0                               | 5.6                                 | 59                                                             |
| DEC 03... | 1230 | 324                                             | 132                                               | 128                                                      | 7.10                           | 7.20                                  | 12.0                                 | 18.0                               | 7.0                                 | 66                                                             |
| JAN 14... | 1120 | 598                                             | 105                                               | 98                                                       | 7.10                           | 7.20                                  | 5.0                                  | 6.0                                | --                                  | --                                                             |
| FEB 04... | 1300 | 2720                                            | 77                                                | 77                                                       | 6.90                           | 6.90                                  | 14.0                                 | 17.0                               | 7.6                                 | 74                                                             |
| MAR 03... | 1445 | 499                                             | 77                                                | 74                                                       | 7.00                           | 7.00                                  | 10.0                                 | 20.0                               | 9.0                                 | 80                                                             |
| APR 07... | 1150 | 521                                             | 87                                                | 89                                                       | 7.40                           | 7.40                                  | 16.5                                 | 20.0                               | 9.5                                 | 99                                                             |
| MAY 05... | 1130 | 586                                             | 80                                                | 82                                                       | 6.90                           | 6.80                                  | 18.5                                 | 22.0                               | 5.5                                 | 59                                                             |
| JUN 09... | 1145 | --                                              | 95                                                | 92                                                       | 6.70                           | 6.70                                  | 22.0                                 | 32.0                               | 2.2                                 | 26                                                             |
| JUL 07... | 1115 | 166                                             | 108                                               | 103                                                      | 6.80                           | 7.10                                  | 23.5                                 | 26.0                               | 2.6                                 | 31                                                             |
| AUG 02... | 1230 | 177                                             | 112                                               | 112                                                      | 6.80                           | 6.70                                  | 25.0                                 | 39.0                               | 0.8                                 | 10                                                             |
| SEP 06... | 1130 | 7270                                            | 115                                               | 111                                                      | 7.10                           | 6.80                                  | 25.0                                 | 23.0                               | 5.8                                 | 72                                                             |

| DATE      | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 08... | 2.0                          | 0.9                                                            | <20                                              | 30                                                            | 8                                                                | 0.400                                                | 0.160                                                | 0.030                                       | 3.1                                           |
| NOV 05... | 1.0                          | 1.1                                                            | <20                                              | 45                                                            | 15                                                               | 0.700                                                | 0.170                                                | 0.070                                       | 9.8                                           |
| DEC 03... | 5.0                          | 1.9                                                            | 70                                               | 31                                                            | 5                                                                | 0.670                                                | 0.170                                                | 0.050                                       | 2.9                                           |
| JAN 14... | 7.0                          | --                                                             | --                                               | 23                                                            | 5                                                                | 0.700                                                | 0.130                                                | 0.070                                       | 2.0                                           |
| FEB 04... | 35                           | 1.0                                                            | 20                                               | 14                                                            | 10                                                               | 0.720                                                | 0.090                                                | 0.060                                       | 3.9                                           |
| MAR 03... | 18                           | 1.5                                                            | <20                                              | 16                                                            | 5                                                                | 0.700                                                | 0.120                                                | 0.060                                       | 2.2                                           |
| APR 07... | 3.0                          | 1.6                                                            | <20                                              | 22                                                            | 7                                                                | --                                                   | --                                                   | --                                          | --                                            |
| MAY 05... | 10                           | 1.2                                                            | --                                               | 20                                                            | 2                                                                | 0.510                                                | 0.130                                                | 0.050                                       | 5.4                                           |
| JUN 09... | 4.0                          | 1.3                                                            | --                                               | 23                                                            | <1                                                               | 0.480                                                | 0.160                                                | <0.020                                      | 2.7                                           |
| JUL 07... | 5.0                          | 0.8                                                            | <20                                              | 30                                                            | <1                                                               | 0.080                                                | 0.250                                                | 0.030                                       | 2.5                                           |
| AUG 02... | 9.0                          | 1.0                                                            | 50                                               | 34                                                            | 1                                                                | 0.040                                                | 0.330                                                | 0.050                                       | 3.5                                           |
| SEP 06... | 44                           | 2.1                                                            | 490                                              | 24                                                            | 37                                                               | 0.320                                                | 0.200                                                | 0.070                                       | 2.8                                           |

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 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1916 to September 1921, July 1974 to May 1988 (discontinued).

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 ft<sup>3</sup>/s, 17.18 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,400 ft<sup>3</sup>/s, Dec. 11, 1919, gage height, 30.8 ft; minimum daily discharge 153 ft<sup>3</sup>/s, Sept. 14, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 32 ft in May 1886, from floodmarks, discharge, 73,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT PERIOD: October 1987 to May 1988.--Maximum discharge 12,900 ft<sup>3</sup>/s, Feb. 5, gage height 12.79 ft, no peaks above base of 13,000 ft<sup>3</sup>/s; minimum daily discharge, 215 ft<sup>3</sup>/s, Oct. 14.

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           | 399   | 325    | 506   | 2140  | 1890  | 826   | 839   | 954  |     |     |     |     |
| 2           | 330   | 347    | 614   | 1700  | 1980  | 787   | 1080  | 1230 |     |     |     |     |
| 3           | 387   | 323    | 697   | 1400  | 2790  | 801   | 1240  | 1080 |     |     |     |     |
| 4           | 340   | 315    | 747   | 2420  | 3600  | 1400  | 1180  | 1020 |     |     |     |     |
| 5           | 291   | 409    | 507   | 2450  | 8320  | 1390  | 1110  | 1190 |     |     |     |     |
| 6           | 274   | 250    | 461   | 1930  | 10500 | 1290  | 1070  | 783  |     |     |     |     |
| 7           | 395   | 323    | 454   | 1490  | 4840  | 1130  | 1400  | 762  |     |     |     |     |
| 8           | 327   | 335    | 601   | 1620  | 4300  | 1140  | 1070  | 776  |     |     |     |     |
| 9           | 244   | 345    | 710   | 1120  | 3070  | 1160  | 1020  | 1060 |     |     |     |     |
| 10          | 360   | 349    | 494   | 1280  | 2970  | 1560  | 784   | 987  |     |     |     |     |
| 11          | 234   | 451    | 454   | 1520  | 2910  | 1540  | 1060  | 1080 |     |     |     |     |
| 12          | 265   | 309    | 453   | 1400  | 2850  | 1650  | 3740  | 1120 |     |     |     |     |
| 13          | 390   | 435    | 452   | 1300  | 2110  | 1390  | 3350  | 986  |     |     |     |     |
| 14          | 215   | 270    | 454   | 1410  | 2040  | 1630  | 2980  | 932  |     |     |     |     |
| 15          | 380   | 350    | 824   | 1370  | 1900  | 1600  | 2530  | 893  |     |     |     |     |
| 16          | 223   | 345    | 1700  | 1140  | 1920  | 1410  | 1290  | ---  |     |     |     |     |
| 17          | 373   | 591    | 1880  | 1740  | 2050  | 1360  | 1280  | ---  |     |     |     |     |
| 18          | 256   | 882    | 736   | 2480  | 2280  | 1080  | 2070  | ---  |     |     |     |     |
| 19          | 286   | 607    | 534   | 3150  | 2880  | 1560  | 3610  | ---  |     |     |     |     |
| 20          | 288   | 489    | 528   | 4910  | 1960  | 1290  | 3540  | ---  |     |     |     |     |
| 21          | 242   | 453    | 862   | 4980  | 1720  | 1410  | 2890  | ---  |     |     |     |     |
| 22          | 341   | 524    | 1700  | 3920  | 1590  | 1490  | 1640  | ---  |     |     |     |     |
| 23          | 328   | 627    | 1720  | 3510  | 1300  | 1340  | 1780  | ---  |     |     |     |     |
| 24          | 272   | 492    | 1880  | 4560  | 1400  | 1000  | 2790  | ---  |     |     |     |     |
| 25          | 225   | 453    | 2060  | 3090  | 1360  | 845   | 2920  | ---  |     |     |     |     |
| 26          | 348   | 465    | 1350  | 2930  | 1650  | 1350  | 3070  | ---  |     |     |     |     |
| 27          | 271   | 728    | 862   | 2270  | 1160  | 1260  | 2650  | ---  |     |     |     |     |
| 28          | 325   | 733    | 1690  | 2130  | 840   | 1250  | 1270  | ---  |     |     |     |     |
| 29          | 320   | 738    | 1900  | 2050  | 1350  | 1320  | 917   | ---  |     |     |     |     |
| 30          | 318   | 754    | 1930  | 1730  | ---   | 935   | 1350  | ---  |     |     |     |     |
| 31          | 323   | ---    | 1910  | 1850  | ---   | 1290  | ---   | ---  |     |     |     |     |
| TOTAL       | 9570  | 14017  | 31670 | 70990 | 79530 | 39484 | 57520 | ---  |     |     |     |     |
| MEAN        | 309   | 467    | 1022  | 2290  | 2742  | 1274  | 1917  | ---  |     |     |     |     |
| MAX         | 399   | 882    | 2060  | 4980  | 10500 | 1650  | 3740  | ---  |     |     |     |     |
| MIN         | 215   | 250    | 452   | 1120  | 840   | 787   | 784   | ---  |     |     |     |     |
| CAL YR 1987 | TOTAL | 637622 | MEAN  | 1747  | MAX   | 17600 | MIN   | 153  |     |     |     |     |

## 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 300 ft upstream from bridge on County Road 1432 (revised), 4 mi upstream from Caney Creek, and 5.1 mi east of Juliette.  
DRAINAGE AREA.--72.2 mi<sup>2</sup>.

## 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.--24 years, 61.7 ft<sup>3</sup>/s, 11.61 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,700 ft<sup>3</sup>/s, Mar. 2, 1971, gage height, 23.0 ft, from floodmark; minimum daily discharge, 0.01 ft<sup>3</sup>/s, Aug. 9-22, 29, 30, and Sept. 1, 2, 1988.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Jan. 20 | 1645 | *804                              | *8.42               |

Minimum daily discharge, 0.01 ft<sup>3</sup>/s, Aug. 9-22, 29, 30, and Sept. 1, 2.

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     | .33   | 2.4   | 4.9   | 15   | 27   | 18   | 28   | 23    | 2.8   | .74   | .16  | .01    |
| 2     | .29   | 2.9   | 4.1   | 32   | 25   | 17   | 27   | 20    | 2.6   | .76   | .13  | .01    |
| 3     | .33   | 3.1   | 3.7   | 53   | 30   | 17   | 26   | 17    | 2.6   | .84   | .09  | .02    |
| 4     | .26   | 3.3   | 4.0   | 85   | 143  | 26   | 26   | 15    | 2.4   | .91   | .05  | .40    |
| 5     | .21   | 3.5   | 4.2   | 58   | 155  | 28   | 23   | 19    | 2.2   | .88   | .03  | 11     |
| 6     | .18   | 3.5   | 4.1   | 34   | 83   | 23   | 23   | 16    | 2.1   | 1.0   | .02  | 6.8    |
| 7     | .17   | 3.4   | 4.6   | 30   | 59   | 21   | 24   | 13    | 1.9   | .85   | .02  | 2.4    |
| 8     | .15   | 3.4   | 5.0   | 42   | 48   | 19   | 20   | 11    | 2.1   | .64   | .03  | 1.1    |
| 9     | .11   | 4.2   | 4.8   | 31   | 40   | 22   | 17   | 11    | 1.9   | .51   | .01  | 2.2    |
| 10    | .06   | 5.6   | 4.6   | 29   | 34   | 48   | 16   | 11    | 1.6   | .52   | .01  | 8.1    |
| 11    | .06   | 6.5   | 4.5   | 33   | 30   | 46   | 16   | 13    | 1.5   | 1.4   | .01  | 4.8    |
| 12    | .06   | 4.6   | 4.7   | 35   | 28   | 33   | 60   | 11    | 1.4   | 4.5   | .01  | 2.8    |
| 13    | .09   | 3.3   | 4.7   | 40   | 26   | 47   | 52   | 12    | 1.3   | 7.9   | .01  | 2.1    |
| 14    | .09   | 3.1   | 5.3   | 55   | 25   | 48   | 34   | 15    | 1.1   | 3.9   | .01  | 2.4    |
| 15    | .08   | 3.2   | 8.3   | 45   | 25   | 34   | 25   | 12    | .99   | 3.5   | .01  | 1.7    |
| 16    | .07   | 3.9   | 13    | 34   | 26   | 28   | 20   | 10    | .87   | 2.3   | .01  | 1.3    |
| 17    | .09   | 28    | 9.6   | 37   | 24   | 25   | 17   | 9.2   | .81   | 1.8   | .01  | 35     |
| 18    | .12   | 52    | 7.4   | 119  | 23   | 26   | 32   | 8.7   | .81   | 1.1   | .01  | 56     |
| 19    | .13   | 18    | 6.8   | 142  | 43   | 59   | 229  | 7.5   | .80   | .79   | .01  | 24     |
| 20    | .13   | 9.5   | 6.9   | 551  | 54   | 50   | 137  | 6.5   | .71   | .63   | .01  | 12     |
| 21    | .12   | 6.6   | 8.9   | 326  | 40   | 36   | 71   | 5.7   | .66   | .56   | .01  | 7.5    |
| 22    | .17   | 5.4   | 31    | 124  | 32   | 29   | 48   | 5.4   | .65   | .46   | .01  | 4.5    |
| 23    | .20   | 5.0   | 24    | 79   | 27   | 26   | 37   | 4.9   | .69   | .43   | .05  | 3.2    |
| 24    | .45   | 4.6   | 14    | 62   | 25   | 24   | 43   | 4.7   | .42   | .40   | .09  | 2.5    |
| 25    | .99   | 4.1   | 11    | 56   | 23   | 26   | 36   | 6.3   | .42   | .33   | .09  | 2.6    |
| 26    | .66   | 4.5   | 10    | 52   | 22   | 103  | 99   | 6.4   | .47   | .27   | .05  | 2.6    |
| 27    | .90   | 6.4   | 9.6   | 43   | 21   | 74   | 70   | 5.2   | .65   | .37   | .03  | 2.8    |
| 28    | 1.7   | 6.9   | 21    | 36   | 20   | 50   | 45   | 4.3   | .80   | 1.1   | .02  | 2.2    |
| 29    | 2.7   | 7.2   | 35    | 33   | 19   | 39   | 32   | 3.8   | .42   | .75   | .01  | 2.0    |
| 30    | 2.5   | 5.9   | 19    | 30   | ---  | 34   | 26   | 3.3   | .47   | .36   | .01  | 1.8    |
| 31    | 2.4   | ---   | 15    | 28   | ---  | 31   | ---  | 3.0   | ---   | .24   | .02  | ---    |
| TOTAL | 15.80 | 224.0 | 313.7 | 2369 | 1177 | 1107 | 1359 | 313.9 | 38.14 | 40.74 | 1.04 | 205.84 |
| MEAN  | .51   | 7.47  | 10.1  | 76.4 | 40.6 | 35.7 | 45.3 | 10.1  | 1.27  | 1.31  | .034 | 6.86   |
| MAX   | 2.7   | 52    | 35    | 551  | 155  | 103  | 229  | 23    | 2.8   | 7.9   | .16  | 56     |
| MIN   | .06   | 2.4   | 3.7   | 15   | 19   | 17   | 16   | 3.0   | .42   | .24   | .01  | .01    |
| CFSM  | .007  | .10   | .14   | 1.06 | .56  | .49  | .63  | .14   | .02   | .02   | .000 | .10    |
| IN.   | .01   | .12   | .16   | 1.22 | .61  | .57  | .70  | .16   | .02   | .02   | .00  | .11    |

CAL YR 1987 TOTAL 18594.58 MEAN 50.9 MAX 1100 MIN .06 CFSM .71 IN 9.58  
WTR YR 1988 TOTAL 7165.16 MEAN 19.6 MAX 551 MIN .01 CFSM .27 IN 3.69

## 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 1987 TO SEPTEMBER 1988

| DATE | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>MG/L AS<br>HCO3 | ALKA-<br>LITY<br>TOT IT<br>MG/L AS<br>CACO3 | ALKA-<br>LITY<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------|------------------------------------------------|
|------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------|------------------------------------------------|

|       |      |      |     |     |      |      |      |      |    |    |    |    |
|-------|------|------|-----|-----|------|------|------|------|----|----|----|----|
| OCT   |      |      |     |     |      |      |      |      |    |    |    |    |
| 07... | 0630 | 0.17 | 155 | 162 | 7.81 | 8.00 | 12.5 | 8.3  | 79 | 84 | 69 | 68 |
| JAN   |      |      |     |     |      |      |      |      |    |    |    |    |
| 11... | 0830 | 33   | 102 | 113 | 7.56 | 7.80 | 1.0  | 13.7 | 95 | 37 | 30 | 26 |
| MAY   |      |      |     |     |      |      |      |      |    |    |    |    |
| 09... | 0700 | 11   | 130 | 132 | 7.38 | 7.80 | 16.5 | 8.5  | 87 | 69 | 57 | 57 |

| DATE | TUR-<br>BID-<br>ITY<br>(FTU) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CACO3 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) |
|------|------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|
|------|------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|

|       |     |      |      |    |   |     |     |     |    |     |     |
|-------|-----|------|------|----|---|-----|-----|-----|----|-----|-----|
| OCT   |     |      |      |    |   |     |     |     |    |     |     |
| 07... | 3.5 | 1500 | 1900 | 54 | 0 | 12  | 5.7 | 11  | 27 | 0.7 | 8.7 |
| JAN   |     |      |      |    |   |     |     |     |    |     |     |
| 11... | 9.5 | 120  | 450  | 33 | 7 | 7.2 | 3.6 | 8.3 | 34 | 0.6 | 1.6 |
| MAY   |     |      |      |    |   |     |     |     |    |     |     |
| 09... | 5.4 | 320  | --   | 49 | 0 | 11  | 5.2 | 8.3 | 26 | 0.5 | 1.5 |

| DATE | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) |
|------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
|------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|

|       |     |     |      |    |     |     |      |      |
|-------|-----|-----|------|----|-----|-----|------|------|
| OCT   |     |     |      |    |     |     |      |      |
| 07... | 5.0 | 5.0 | 1.0  | 20 | 113 | 111 | 0.05 | 0.15 |
| JAN   |     |     |      |    |     |     |      |      |
| 11... | 18  | 5.6 | 0.70 | 20 | 84  | 84  | 7.48 | 0.11 |
| MAY   |     |     |      |    |     |     |      |      |
| 09... | 7.9 | 3.3 | 0.70 | 20 | 91  | 93  | 2.70 | 0.12 |

| DATE | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) |
|------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
|------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|

|       |        |        |       |       |      |       |       |        |
|-------|--------|--------|-------|-------|------|-------|-------|--------|
| OCT   |        |        |       |       |      |       |       |        |
| 07... | <0.010 | <0.100 | 0.010 | 0.020 | --   | <0.20 | 0.020 | 0.010  |
| JAN   |        |        |       |       |      |       |       |        |
| 11... | 0.010  | <0.100 | 0.010 | --    | 0.59 | 0.60  | 0.010 | <0.010 |
| MAY   |        |        |       |       |      |       |       |        |
| 09... | <0.010 | 0.130  | 0.100 | 0.030 | --   | <0.20 | 0.020 | 0.010  |

## ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| OCT<br>07... | 10                                                  | <1                                           | 26                                           | <0.5                                                 | 1                                            | <1                                                  | <3                                           | 1                                            | 450                                        | <5                                         |
| JAN<br>11... | 220                                                 | 1                                            | 22                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 3                                            | 380                                        | <5                                         |
| MAY<br>09... | 30                                                  | <1                                           | 27                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 1                                            | 410                                        | <5                                         |

| DATE         | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| OCT<br>07... | 6                                            | 710                                                  | 0.1                                          | <10                                                   | 2                                            | <1                                                  | <1.0                                         | 100                                                  | <6                                                 | 5                                          |
| JAN<br>11... | <4                                           | 62                                                   | <0.1                                         | <10                                                   | 1                                            | <1                                                  | <1.0                                         | 59                                                   | <6                                                 | 5                                          |
| MAY<br>09... | <4                                           | 110                                                  | 0.1                                          | <10                                                   | 5                                            | <1                                                  | 1.0                                          | 93                                                   | <6                                                 | <3                                         |

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|------|-------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| OCT<br>07... | 0635 | 0.17                                            | 12.5                                 | 13                                        | 0.01                                                          | 66                                                            |
| JAN<br>11... | 0835 | 33                                              | 1.0                                  | 6                                         | 0.53                                                          | 81                                                            |
| MAY<br>09... | 0705 | 11                                              | 16.5                                 | 1                                         | 0.03                                                          | 78                                                            |

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | GROSS<br>ALPHA,<br>DIS-<br>SOLVED<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>ALPHA,<br>SUSP.<br>TOTAL<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>SR/ | GROSS<br>BETA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS<br>SR/ | RADIUM<br>226,<br>DIS-<br>SOLVED,<br>RADON<br>METHOD<br>(PCI/L) | URANIUM<br>NATURAL<br>DIS-<br>SOLVED<br>(UG/L<br>AS U) |
|--------------|------|-------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|
| OCT<br>07... | 0630 | 0.17                                            | <0.4                                                       | <0.4                                                       | 2.2                                                         | <0.4                                                        | 1.8                                                     | <0.4                                                    | 0.03                                                            | 0.02                                                   |
| MAY<br>09... | 0700 | 11                                              | <0.4                                                       | <0.4                                                       | 1.6                                                         | <0.4                                                        | 1.3                                                     | <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 mi<sup>2</sup>, approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1515 | 755                                             | 113                                               | 104                                                      | 7.20                           | 7.20                                  | 18.5                                 | 20.0                               | 8.4                                 | 90                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 0815 | 3450                                            | 95                                                | 87                                                       | 7.30                           | 7.30                                  | 6.5                                  | 17.5                               | 11.2                                | 91                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1500 | 1940                                            | 91                                                | 80                                                       | 7.50                           | 7.10                                  | 12.0                                 | 10.5                               | 10.9                                | 101                                                            |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1315 | 1280                                            | 91                                                | 90                                                       | 7.40                           | 7.50                                  | 24.0                                 | 29.0                               | 7.7                                 | 93                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1430 | 147                                             | 129                                               | --                                                       | 8.00                           | 7.90                                  | 36.0                                 | 34.5                               | 6.8                                 | 100                                                            |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1530 | 781                                             | 99                                                | 97                                                       | 7.30                           | 7.10                                  | 28.0                                 | 31.5                               | 7.0                                 | 90                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
| NOV   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 17... | 60                           | 14                                                             | 3.5                                                            | 23000                                            | 30                                                              | 108                                                              |
| JAN   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 19... | 24                           | 9                                                              | 1.0                                                            | 330                                              | 18                                                              | 38                                                               |
| MAR   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 15... | 10                           | <1                                                             | 1.0                                                            | 40                                               | 22                                                              | 5                                                                |
| MAY   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 17... | 7.0                          | 15                                                             | 0.8                                                            | 170                                              | 24                                                              | 6                                                                |
| JUL   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 19... | 5.0                          | --                                                             | 0.3                                                            | 70                                               | 42                                                              | <1                                                               |
| SEP   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 22... | 10                           | --                                                             | --                                                             | --                                               | 18                                                              | 5                                                                |

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| NOV   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 17... | 0.280                                                | 0.070                                                | 0.13                                                 | 0.20                                                               | 0.48                                      | 0.170                                       | 9.3                                           |
| JAN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 19... | 0.460                                                | 0.030                                                | 0.47                                                 | 0.50                                                               | 0.96                                      | 0.090                                       | 3.7                                           |
| MAR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 15... | 0.590                                                | 0.040                                                | 0.06                                                 | 0.10                                                               | 0.69                                      | 0.040                                       | 3.2                                           |
| MAY   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 17... | 0.440                                                | 0.030                                                | 0.37                                                 | 0.40                                                               | 0.84                                      | 0.040                                       | 3.1                                           |
| JUL   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 19... | 0.080                                                | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.030                                       | 2.9                                           |
| SEP   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 22... | 0.700                                                | 0.040                                                | --                                                   | --                                                                 | --                                        | 0.110                                       | 4.3                                           |

## ALTAMAHA RIVER BASIN

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 mi<sup>2</sup>, 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.--78 years (water years 1894-1911, 1929-88), 2,681 ft<sup>3</sup>/s, 16.25 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,500 ft<sup>3</sup>/s, Nov. 29, 1948, gage height, 28.0 ft; maximum gage height, 29.45 ft, from floodmark, Mar. 4, 1971; minimum daily discharge, 128 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

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

| Date                                                      | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|-----------------------------------------------------------|------|-----------------------------------|---------------------|
| Feb. 6                                                    | 1000 | *13,200                           | *17.86              |
| Minimum daily discharge, 145 ft <sup>3</sup> /s, Oct. 26. |      |                                   |                     |

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                 | 199    | 254   | 651   | 1970  | 1940  | 1070    | 918   | 1200  | 443   | 272  | 195  | 506   |
| 2                 | 372    | 256   | 489   | 2040  | 1980  | 818     | 959   | 1270  | 420   | 275  | 204  | 520   |
| 3                 | 258    | 284   | 628   | 1440  | 2560  | 796     | 1090  | 1080  | 408   | 234  | 198  | 664   |
| 4                 | 356    | 248   | 761   | 2270  | 3450  | 1380    | 1060  | 1030  | 398   | 250  | 215  | 1060  |
| 5                 | 265    | 240   | 625   | 2550  | 6690  | 1510    | 1010  | 1190  | 392   | 195  | 212  | 2810  |
| 6                 | 229    | 346   | 426   | 2230  | 12300 | 1400    | 942   | 859   | 378   | 180  | 244  | 7920  |
| 7                 | 214    | 170   | 382   | 1370  | 6260  | 1190    | 969   | 770   | 368   | 187  | 434  | 6490  |
| 8                 | 357    | 236   | 374   | 2160  | 5290  | 1180    | 1050  | 742   | 379   | 198  | 484  | 2030  |
| 9                 | 246    | 269   | 558   | 1120  | 3640  | 1190    | 837   | 970   | 383   | 202  | 369  | 1680  |
| 10                | 177    | 289   | 656   | 1510  | 3160  | 1350    | 752   | 987   | 388   | 195  | 293  | 1340  |
| 11                | 321    | 279   | 416   | 1400  | 3060  | 1420    | 732   | 983   | 360   | 258  | 312  | 983   |
| 12                | 163    | 395   | 382   | 1380  | 3000  | 1990    | 2950  | 1090  | 246   | 226  | 355  | 1320  |
| 13                | 188    | 223   | 380   | 1240  | 2420  | 1630    | 3490  | 1050  | 194   | 297  | 323  | 2650  |
| 14                | 339    | 382   | 387   | 1400  | 2130  | 1490    | 2960  | 975   | 174   | 287  | 448  | 3060  |
| 15                | 151    | 191   | 718   | 1370  | 1950  | 1610    | 2670  | 883   | 200   | 236  | 411  | 2950  |
| 16                | 313    | 284   | 1020  | 1120  | 1960  | 1480    | 1770  | 854   | 266   | 226  | 288  | 2350  |
| 17                | 153    | 682   | 1760  | 1580  | 2080  | 1390    | 1210  | 1000  | 248   | 218  | 259  | 2360  |
| 18                | 324    | 911   | 1410  | 2450  | 2270  | 1260    | 1370  | 983   | 249   | 196  | 256  | 4560  |
| 19                | 181    | 813   | 595   | 3410  | 2950  | 1300    | 4710  | 929   | 262   | 196  | 244  | 4070  |
| 20                | 217    | 582   | 534   | 6420  | 2610  | 1580    | 4530  | 910   | 251   | 181  | 236  | 1440  |
| 21                | 223    | 480   | 558   | 7080  | 1960  | 1390    | 3600  | 677   | 233   | 164  | 259  | 1500  |
| 22                | 160    | 450   | 1330  | 5150  | 1750  | 1370    | 2180  | 633   | 227   | 190  | 264  | 849   |
| 23                | 280    | 545   | 1820  | 3860  | 1460  | 1360    | 1620  | 628   | 221   | 215  | 287  | 1350  |
| 24                | 262    | 604   | 1600  | 4590  | 1420  | 1130    | 2630  | 639   | 236   | 219  | 299  | 1200  |
| 25                | 213    | 442   | 1960  | 3970  | 1250  | 1040    | 3560  | 651   | 243   | 182  | 297  | 807   |
| 26                | 145    | 469   | 1940  | 3130  | 1890  | 1280    | 4370  | 649   | 258   | 164  | 292  | 751   |
| 27                | 295    | 619   | 936   | 2590  | 1250  | 1380    | 3590  | 603   | 331   | 183  | 297  | 687   |
| 28                | 196    | 710   | 1160  | 2150  | 1020  | 1320    | 1860  | 540   | 310   | 200  | 289  | 648   |
| 29                | 250    | 720   | 1840  | 2110  | 1090  | 1170    | 1100  | 480   | 279   | 207  | 284  | 582   |
| 30                | 246    | 671   | 1840  | 1950  | ---   | 1130    | 1150  | 479   | 277   | 212  | 301  | 465   |
| 31                | 246    | ---   | 1800  | 1760  | ---   | 1280    | ---   | 453   | ---   | 202  | 407  | ---   |
| TOTAL             | 7539   | 13044 | 29936 | 78770 | 84790 | 40884   | 61639 | 26187 | 9022  | 6647 | 9256 | 59602 |
| MEAN              | 243    | 435   | 966   | 2541  | 2924  | 1319    | 2055  | 845   | 301   | 214  | 299  | 1987  |
| MAX               | 372    | 911   | 1960  | 7080  | 12300 | 1990    | 4710  | 1270  | 443   | 297  | 484  | 7920  |
| MIN               | 145    | 170   | 374   | 1120  | 1020  | 796     | 732   | 453   | 174   | 164  | 195  | 465   |
| CAL YR 1987 TOTAL | 734927 |       |       | 2013  | 17400 | MIN 145 | MEAN† | 2014  | CFSM† | .90  | INT  | 12.20 |
| WTR YR 1988 TOTAL | 427316 |       |       | 1168  | 12300 | MIN 145 | MEAN† | 1193  | CFSM† | .53  | INT  | 7.25  |

†ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

## ALTAMAHA RIVER BASIN

123

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 mi<sup>2</sup>, 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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--27 years, 31.3 ft<sup>3</sup>/s, 14.66 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft<sup>3</sup>/s, Dec. 26, 1964, gage height, 23.8 ft, from floodmark, from rating curve extended above 5,000 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Jan. 20 | 0915 | *799                              | *3.97               |

Minimum daily discharge, 0.42 ft<sup>3</sup>/s, Aug. 20.

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     | 1.8   | 12    | 4.6   | 7.8    | 13   | 11   | 11    | 15    | 3.7  | 2.1   | 1.6   | 1.3   |
| 2     | 1.4   | 12    | 4.3   | 23     | 13   | 11   | 10    | 13    | 3.5  | 2.0   | 1.5   | 2.1   |
| 3     | 1.3   | 13    | 4.6   | 29     | 16   | 11   | 10    | 11    | 3.2  | 2.1   | 1.0   | 2.3   |
| 4     | 1.4   | 13    | 4.4   | 30     | 38   | 28   | 10    | 11    | 3.1  | 2.6   | 1.6   | 5.1   |
| 5     | 1.5   | 13    | 4.2   | 16     | 28   | 19   | 9.2   | 11    | 2.8  | 2.2   | 1.9   | 26    |
| 6     | 1.5   | 13    | 4.2   | 12     | 20   | 16   | 10    | 9.5   | 2.7  | 1.6   | 1.2   | 5.2   |
| 7     | 1.4   | 13    | 4.4   | 13     | 17   | 14   | 9.5   | 8.6   | 2.7  | 1.3   | .88   | 3.0   |
| 8     | 1.3   | 14    | 5.3   | 30     | 17   | 13   | 8.6   | 8.1   | 2.8  | 1.2   | .81   | 3.0   |
| 9     | 1.3   | 14    | 4.9   | 22     | 15   | 16   | 8.1   | 8.0   | 2.7  | 1.1   | .63   | 16    |
| 10    | 1.5   | 16    | 5.9   | 18     | 15   | 23   | 8.1   | 8.9   | 3.8  | 2.5   | .50   | 9.0   |
| 11    | 1.6   | 16    | 6.1   | 24     | 14   | 19   | 18    | 8.7   | 2.6  | 7.6   | .50   | 5.4   |
| 12    | 1.6   | 15    | 5.9   | 20     | 13   | 16   | 36    | 7.1   | 2.2  | 3.2   | .84   | 3.7   |
| 13    | 1.6   | 15    | 5.8   | 21     | 12   | 16   | 17    | 8.8   | 2.0  | 3.8   | .54   | 2.7   |
| 14    | 1.5   | 16    | 6.6   | 21     | 12   | 14   | 13    | 8.8   | 1.8  | 3.0   | .54   | 2.3   |
| 15    | 1.6   | 16    | 21    | 17     | 13   | 13   | 11    | 7.2   | 1.8  | 2.9   | 2.7   | 2.0   |
| 16    | 1.8   | 16    | 11    | 14     | 12   | 12   | 9.7   | 11    | 1.7  | 1.9   | 1.8   | 1.9   |
| 17    | 1.9   | 40    | 7.1   | 23     | 11   | 12   | 9.1   | 9.0   | 1.6  | 1.5   | .75   | 27    |
| 18    | 2.2   | 13    | 5.9   | 67     | 12   | 15   | 17    | 7.7   | 1.5  | 1.2   | .60   | 19    |
| 19    | 2.4   | 6.0   | 5.8   | 54     | 36   | 22   | 186   | 7.0   | 5.2  | 1.0   | .47   | 7.9   |
| 20    | 2.4   | 4.8   | 5.9   | 299    | 26   | 15   | 49    | 6.5   | 2.3  | .91   | .42   | 5.4   |
| 21    | 2.2   | 4.1   | 7.8   | 82     | 20   | 14   | 28    | 6.2   | 1.8  | 1.1   | 1.1   | 4.4   |
| 22    | 2.8   | 3.9   | 15    | 43     | 17   | 13   | 20    | 5.9   | 1.5  | 1.4   | 11    | 3.2   |
| 23    | 4.5   | 3.9   | 9.3   | 29     | 17   | 12   | 50    | 5.4   | 1.3  | 2.3   | 2.2   | 2.5   |
| 24    | 5.2   | 3.9   | 7.7   | 24     | 15   | 12   | 48    | 5.6   | 1.3  | 1.3   | 1.3   | 2.4   |
| 25    | 5.8   | 4.1   | 7.5   | 22     | 14   | 13   | 35    | 6.6   | 1.2  | .95   | 1.0   | 2.3   |
| 26    | 6.2   | 6.1   | 7.3   | 18     | 13   | 18   | 84    | 5.6   | 5.2  | .82   | .76   | 2.1   |
| 27    | 8.6   | 7.5   | 7.1   | 16     | 12   | 14   | 42    | 5.1   | 14   | .79   | .76   | 2.0   |
| 28    | 10    | 5.8   | 20    | 15     | 12   | 12   | 26    | 4.9   | 3.3  | 2.9   | .80   | 2.0   |
| 29    | 11    | 5.2   | 14    | 15     | 11   | 12   | 20    | 4.7   | 2.2  | 1.1   | 1.4   | 1.8   |
| 30    | 12    | 4.7   | 9.0   | 14     | ---  | 11   | 17    | 4.4   | 1.9  | .82   | 1.2   | 1.7   |
| 31    | 12    | ---   | 7.8   | 14     | ---  | 11   | ---   | 3.9   | ---  | .71   | 1.5   | ---   |
| TOTAL | 113.3 | 340.0 | 240.4 | 1052.8 | 484  | 458  | 830.3 | 244.2 | 87.4 | 59.90 | 43.80 | 174.7 |
| MEAN  | 3.65  | 11.3  | 7.75  | 34.0   | 16.7 | 14.8 | 27.7  | 7.88  | 2.91 | 1.93  | 1.41  | 5.82  |
| MAX   | 12    | 40    | 21    | 299    | 38   | 28   | 186   | 15    | 14   | 7.6   | 11    | 27    |
| MIN   | 1.3   | 3.9   | 4.2   | 7.8    | 11   | 11   | 8.1   | 3.9   | 1.2  | .71   | .42   | 1.3   |
| CFSM  | .13   | .39   | .27   | 1.17   | .58  | .51  | .96   | .27   | .10  | .07   | .05   | .20   |
| IN.   | .15   | .44   | .31   | 1.35   | .62  | .59  | 1.07  | .31   | .11  | .08   | .06   | .22   |

|             |       |          |           |         |         |           |          |
|-------------|-------|----------|-----------|---------|---------|-----------|----------|
| CAL YR 1987 | TOTAL | 11110.60 | MEAN 30.4 | MAX 762 | MIN 1.1 | CFSM 1.05 | IN 14.25 |
| WTR YR 1988 | TOTAL | 4128.80  | MEAN 11.3 | MAX 299 | MIN .42 | CFSM .39  | IN 5.30  |

## ALTAHAHA RIVER BASIN

02213500 TOBESOFKEE CREEK NEAR MACON, GA.

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

DRAINAGE AREA.--182 mi<sup>2</sup>.

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.--51 years, 191 ft<sup>3</sup>/s, 14.25 in/yr.

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

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

| Date                                                     | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|----------------------------------------------------------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 25                                                  | 2100 | *3,500                            | *13.58              | No other peak greater than base discharge. |      |                                   |                     |
| Minimum daily discharge, 16 ft <sup>3</sup> /s, Nov. 20. |      |                                   |                     |                                            |      |                                   |                     |

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     | 20   | 18   | 19   | 56   | 87   | 73   | 82   | 135  | 43   | 24   | 24   | 23   |
| 2     | 20   | 18   | 19   | 99   | 89   | 73   | 82   | 124  | 41   | 25   | 24   | 23   |
| 3     | 19   | 19   | 19   | 157  | 115  | 72   | 83   | 122  | 40   | 24   | 23   | 22   |
| 4     | 19   | 19   | 19   | 188  | 330  | 215  | 84   | 112  | 40   | 24   | 24   | 23   |
| 5     | 19   | 19   | 19   | 126  | 247  | 146  | 81   | 111  | 38   | 23   | 23   | 23   |
| 6     | 18   | 19   | 19   | 97   | 165  | 108  | 98   | 107  | 37   | 23   | 23   | 22   |
| 7     | 18   | 20   | 20   | 98   | 120  | 86   | 94   | 102  | 36   | 24   | 23   | 22   |
| 8     | 18   | 18   | 19   | 118  | 110  | 85   | 77   | 95   | 36   | 24   | 23   | 23   |
| 9     | 18   | 18   | 19   | 116  | 113  | 105  | 69   | 90   | 35   | 23   | 22   | 23   |
| 10    | 19   | 18   | 19   | 100  | 109  | 277  | 66   | 89   | 36   | 24   | 22   | 23   |
| 11    | 18   | 18   | 20   | 99   | 101  | 124  | 72   | 89   | 35   | 24   | 22   | 25   |
| 12    | 18   | 18   | 20   | 101  | 111  | 108  | 438  | 86   | 33   | 23   | 23   | 29   |
| 13    | 17   | 18   | 20   | 104  | 97   | 129  | 200  | 89   | 32   | 23   | 22   | 30   |
| 14    | 17   | 18   | 20   | 102  | 79   | 125  | 109  | 88   | 31   | 23   | 23   | 31   |
| 15    | 17   | 18   | 22   | 92   | 75   | 102  | 121  | 88   | 30   | 23   | 23   | 32   |
| 16    | 18   | 18   | 24   | 89   | 78   | 89   | 105  | 88   | 29   | 23   | 23   | 32   |
| 17    | 18   | 21   | 25   | 98   | 72   | 82   | 91   | 87   | 29   | 23   | 23   | 34   |
| 18    | 18   | 17   | 26   | 357  | 78   | 91   | 105  | 87   | 29   | 23   | 23   | 378  |
| 19    | 18   | 17   | 26   | 359  | 227  | 139  | 982  | 84   | 28   | 23   | 23   | 255  |
| 20    | 18   | 16   | 26   | 1220 | 188  | 116  | 333  | 80   | 28   | 23   | 23   | 114  |
| 21    | 17   | 17   | 27   | 878  | 134  | 99   | 209  | 74   | 26   | 23   | 23   | 72   |
| 22    | 17   | 17   | 29   | 344  | 90   | 92   | 177  | 69   | 26   | 23   | 23   | 60   |
| 23    | 17   | 17   | 43   | 197  | 97   | 89   | 135  | 65   | 26   | 23   | 22   | 47   |
| 24    | 17   | 18   | 56   | 143  | 109  | 87   | 133  | 65   | 26   | 23   | 22   | 38   |
| 25    | 18   | 18   | 52   | 163  | 93   | 101  | 760  | 63   | 26   | 23   | 23   | 36   |
| 26    | 18   | 19   | 48   | 147  | 84   | 129  | 1550 | 62   | 25   | 23   | 23   | 38   |
| 27    | 18   | 18   | 47   | 127  | 77   | 124  | 230  | 58   | 25   | 23   | 23   | 39   |
| 28    | 18   | 18   | 86   | 102  | 78   | 99   | 120  | 53   | 25   | 23   | 23   | 36   |
| 29    | 18   | 19   | 116  | 81   | 74   | 87   | 139  | 49   | 24   | 23   | 23   | 33   |
| 30    | 18   | 19   | 74   | 74   | ---  | 87   | 148  | 46   | 24   | 23   | 23   | 32   |
| 31    | 18   | ---  | 59   | 79   | ---  | 85   | ---  | 45   | ---  | 24   | 23   | ---  |
| TOTAL | 559  | 545  | 1057 | 6111 | 3427 | 3424 | 6973 | 2602 | 939  | 723  | 710  | 1618 |
| MEAN  | 18.0 | 18.2 | 34.1 | 197  | 118  | 110  | 232  | 83.9 | 31.3 | 23.3 | 22.9 | 53.9 |
| MAX   | 20   | 21   | 116  | 1220 | 330  | 277  | 1550 | 135  | 43   | 25   | 24   | 378  |
| MIN   | 17   | 16   | 19   | 56   | 72   | 72   | 66   | 45   | 24   | 23   | 22   | 22   |
| CFSM  | .10  | .10  | .19  | 1.08 | .65  | .60  | 1.28 | .46  | .17  | .13  | .13  | .30  |
| IN.   | .11  | .11  | .22  | 1.25 | .70  | .70  | 1.43 | .53  | .19  | .15  | .15  | .33  |

|             |       |       |      |      |     |      |     |    |      |     |    |       |
|-------------|-------|-------|------|------|-----|------|-----|----|------|-----|----|-------|
| CAL YR 1987 | TOTAL | 63495 | MEAN | 174  | MAX | 2530 | MIN | 16 | CFSM | .96 | IN | 12.98 |
| WTR YR 1988 | TOTAL | 28688 | MEAN | 78.4 | MAX | 1550 | MIN | 16 | CFSM | .43 | IN | 5.86  |

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 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year, discharge below 3,600 ft<sup>3</sup>/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, Oct. 30 to Nov. 4, Sept. 5. 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, 227 ft<sup>3</sup>/s, Oct. 18, and July 27, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.13 ft, Jan. 22; minimum daily discharge, 227 ft<sup>3</sup>/s, Oct. 18, July 27.

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     | 318  | 285   | 726   | 1840 | 2140 | 1520  | 1430 | 1810  | 583   | 345  | 264   | 450  |
| 2     | 276  | 290   | 661   | 2120 | 2180 | 1260  | 1150 | 1570  | 567   | 337  | 258   | 549  |
| 3     | 379  | 290   | 579   | 1940 | 2300 | 1150  | 1200 | 1590  | 539   | 336  | 259   | 559  |
| 4     | 311  | 350   | 684   | 2000 | 3040 | 1330  | 1320 | 1410  | 520   | 325  | 257   | 747  |
| 5     | 367  | 311   | 775   | 2730 | ---  | 1940  | 1250 | 1360  | 504   | 352  | 270   | 1750 |
| 6     | 307  | 309   | 638   | 2740 | ---  | 2010  | 1190 | 1420  | 492   | 305  | 278   | 3000 |
| 7     | 279  | 368   | 522   | 2190 | ---  | 1830  | 1140 | 1110  | 482   | 271  | 290   | ---  |
| 8     | 276  | 275   | 493   | 1950 | ---  | 1610  | 1240 | 1030  | 474   | 261  | 468   | ---  |
| 9     | 368  | 296   | 507   | 2010 | ---  | 1550  | 1140 | 1020  | 493   | 258  | 494   | 2850 |
| 10    | 299  | 325   | 673   | 1580 | ---  | 1680  | 1050 | 1210  | 497   | 253  | 392   | 2060 |
| 11    | 247  | 332   | 661   | 1740 | ---  | 2010  | 948  | 1220  | 501   | 274  | 348   | 1700 |
| 12    | 330  | 346   | 519   | 1770 | 3380 | 2190  | 1440 | 1250  | 455   | 335  | 365   | 1370 |
| 13    | 241  | 404   | 492   | 1670 | 3240 | 2220  | 3110 | 1300  | 367   | 315  | 399   | 1730 |
| 14    | 245  | 318   | 488   | 1640 | 2740 | 1920  | 3360 | 1290  | 308   | 358  | 364   | 2740 |
| 15    | 342  | 393   | 540   | 1710 | 2460 | 1930  | 3220 | 1230  | 292   | 344  | 475   | 2920 |
| 16    | 237  | 289   | 955   | 1600 | 2280 | 1880  | 2780 | 1140  | 311   | 304  | 417   | 2840 |
| 17    | 330  | 422   | 1460  | 1480 | 2250 | 1720  | 1770 | 1100  | 353   | 288  | 353   | 2250 |
| 18    | 227  | 903   | 1720  | 2210 | 2350 | 1630  | 1500 | 1230  | 344   | 278  | 323   | 2770 |
| 19    | 331  | 1100  | 1090  | 3110 | 2780 | 1660  | 2520 | 1160  | 341   | 261  | 311   | ---  |
| 20    | 246  | 909   | 692   | ---  | 3360 | 1950  | ---  | 1090  | 346   | 253  | 296   | ---  |
| 21    | 258  | 682   | 644   | ---  | 3080 | 1850  | ---  | 1040  | 339   | 241  | 300   | 2070 |
| 22    | 255  | 571   | 852   | ---  | 2640 | 1750  | ---  | 844   | 323   | 234  | 324   | 1670 |
| 23    | 244  | 532   | 1610  | ---  | 2230 | 1740  | 2850 | 814   | 315   | 257  | 322   | 1180 |
| 24    | 293  | 611   | 1720  | ---  | 1880 | 1610  | 2570 | 792   | 313   | 283  | 353   | 1460 |
| 25    | 301  | 615   | 1790  | ---  | 1790 | 1360  | 3140 | 853   | 318   | 277  | 374   | 1200 |
| 26    | 264  | 521   | 1950  | ---  | 1770 | 1360  | ---  | 864   | 329   | 242  | 350   | 932  |
| 27    | 242  | 586   | 1580  | ---  | 1940 | 1740  | ---  | 816   | 358   | 227  | 330   | 870  |
| 28    | 301  | 729   | 1070  | 3070 | 1550 | 1710  | ---  | 755   | 403   | 238  | 327   | 807  |
| 29    | 273  | 768   | 1630  | 2720 | 1320 | 1590  | ---  | 680   | 387   | 249  | 333   | 762  |
| 30    | 290  | 774   | 1890  | 2500 | ---  | 1530  | 1980 | 630   | 352   | 256  | 341   | 673  |
| 31    | 290  | ---   | 1880  | 2170 | ---  | 1330  | ---  | 613   | ---   | 261  | 388   | ---  |
| TOTAL | 8967 | 14904 | 31491 | ---  | ---  | 52560 | ---  | 34241 | 12206 | 8818 | 10623 | ---  |
| MEAN  | 289  | 497   | 1016  | ---  | ---  | 1695  | ---  | 1105  | 407   | 284  | 343   | ---  |
| MAX   | 379  | 1100  | 1950  | ---  | ---  | 2220  | ---  | 1810  | 583   | 358  | 494   | ---  |
| MIN   | 227  | 275   | 488   | ---  | ---  | 1150  | ---  | 613   | 292   | 227  | 257   | ---  |
| CFSM  | .11  | .19   | .38   | ---  | ---  | .63   | ---  | .41   | .15   | .11  | .13   | ---  |
| IN.   | .12  | .21   | .44   | ---  | ---  | .73   | ---  | .47   | .17   | .12  | .15   | ---  |



## ALTAMAHA RIVER BASIN

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, 377 microsiemens Oct. 27, 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 recorded, 377 microsiemens Oct. 27; minimum, 81 microsiemens Apr. 19.

pH: Maximum, 7.69 units Aug. 21; minimum, 6.71 units Jan. 21, 22.

WATER TEMPERATURE: Maximum, 33.0°C July 17, Aug. 8, 10; minimum, 3.5°C Jan. 8.

DISSOLVED OXYGEN: Maximum, 12.3 mg/L Jan. 8; minimum, 3.7 mg/L June 10.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV<br>17... | 1645 | 406                                             | 247                                               | 227                                                      | 7.40                           | 7.60                                  | 18.5                                 | 18.5                               | 7.0                                 | 75                                                             |
| JAN<br>19... | 1015 | 3020                                            | 110                                               | 100                                                      | 7.20                           | 7.30                                  | 8.0                                  | 22.0                               | 10.8                                | 91                                                             |
| MAR<br>15... | 1600 | 1860                                            | 115                                               | 105                                                      | 7.20                           | 7.10                                  | 13.0                                 | 12.5                               | 9.2                                 | 87                                                             |
| MAY<br>17... | 1430 | 1070                                            | 136                                               | 133                                                      | 7.20                           | 7.20                                  | 25.5                                 | 30.0                               | 5.8                                 | 72                                                             |
| JUL<br>19... | 1645 | 234                                             | 267                                               | 255                                                      | 7.50                           | 7.50                                  | 32.5                                 | 32.5                               | 5.3                                 | 73                                                             |
| SEP<br>22... | 1815 | 1420                                            | 148                                               | 145                                                      | 7.00                           | 7.00                                  | 25.5                                 | 27.5                               | 5.9                                 | 72                                                             |

ALTAMAHA RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| NOV<br>17... | 95                                           | 6.0                          | 14                                                             | 1.7                                                            | 2500                                             | 58                                                              | 7                                                                 |
| JAN<br>19... | 110                                          | 30                           | 16                                                             | 1.2                                                            | 3300                                             | 23                                                              | 41                                                                |
| MAR<br>15... | 45                                           | 15                           | 4                                                              | 1.2                                                            | 11000                                            | 28                                                              | 11                                                                |
| MAY<br>17... | 50                                           | 10                           | 14                                                             | 1.8                                                            | 7000                                             | 34                                                              | 1                                                                 |
| JUL<br>19... | 100                                          | 6.0                          | 22                                                             | 0.8                                                            | 940                                              | 70                                                              | <1                                                                |
| SEP<br>22... | 100                                          | 17                           | 14                                                             | --                                                             | --                                               | 30                                                              | 16                                                                |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| NOV<br>17... | 0.590                                                | 0.110                                                | 0.09                                                 | 0.20                                                               | 0.79                                      | 0.350                                       | 9.0                                           |
| JAN<br>19... | 0.490                                                | 0.090                                                | --                                                   | --                                                                 | --                                        | 0.120                                       | 4.0                                           |
| MAR<br>15... | 0.600                                                | 0.220                                                | 0.28                                                 | 0.50                                                               | 1.1                                       | 0.120                                       | 4.9                                           |
| MAY<br>17... | 0.710                                                | 0.230                                                | 0.37                                                 | 0.60                                                               | 1.3                                       | 0.190                                       | 4.6                                           |
| JUL<br>19... | 0.910                                                | 0.060                                                | 0.54                                                 | 0.60                                                               | 1.5                                       | 0.310                                       | 7.7                                           |
| SEP<br>22... | 0.840                                                | 0.160                                                | 0.34                                                 | 0.50                                                               | 1.3                                       | 0.210                                       | 7.1                                           |

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
| 1     | 273     | 229 | ---      | --- | 210      | 189 | 156     | 143 | 113      | 103 | 110       | 104 |
| 2     | 286     | 269 | ---      | --- | 231      | 203 | 145     | 138 | 115      | 104 | 130       | 108 |
| 3     | 277     | 228 | ---      | --- | 236      | 222 | 145     | 138 | 117      | 103 | 140       | 125 |
| 4     | 290     | 233 | ---      | --- | 230      | 209 | 140     | 126 | 107      | 100 | 143       | 120 |
| 5     | 291     | 217 | 300      | 272 | 218      | 204 | 126     | 119 | 100      | 91  | 118       | 105 |
| 6     | 274     | 221 | 315      | 288 | 235      | 213 | 129     | 123 | 99       | 96  | 113       | 102 |
| 7     | 296     | 259 | 311      | 256 | 243      | 224 | 142     | 130 | 96       | 90  | 120       | 106 |
| 8     | 307     | 277 | 317      | 273 | 242      | 224 | 153     | 130 | 89       | 87  | 128       | 115 |
| 9     | 293     | 244 | 325      | 260 | 241      | 226 | 149     | 130 | 90       | 88  | 131       | 119 |
| 10    | 316     | 245 | 257      | 232 | 222      | 188 | 154     | 138 | 93       | 91  | 125       | 119 |
| 11    | 335     | 303 | 278      | 242 | 202      | 176 | 149     | 137 | 94       | 90  | 119       | 107 |
| 12    | 332     | 216 | 285      | 256 | 240      | 204 | 150     | 139 | 94       | 91  | 116       | 100 |
| 13    | 296     | 222 | 255      | 238 | 250      | 223 | 151     | 144 | 96       | 93  | 119       | 105 |
| 14    | 313     | 273 | 298      | 256 | 247      | 224 | 151     | 141 | 107      | 92  | 122       | 111 |
| 15    | 281     | 228 | 295      | 237 | 236      | 213 | 144     | 138 | 103      | 92  | 116       | 109 |
| 16    | 335     | 243 | 291      | 255 | 222      | 164 | 142     | 138 | 115      | 97  | 121       | 110 |
| 17    | 349     | 234 | 275      | 237 | 171      | 147 | 151     | 127 | 112      | 93  | 127       | 116 |
| 18    | 324     | 247 | 227      | 169 | 162      | 148 | 129     | 105 | 108      | 93  | 128       | 120 |
| 19    | 347     | 232 | 179      | 167 | 205      | 161 | 112     | 106 | 104      | 92  | 131       | 123 |
| 20    | 310     | 245 | 187      | 168 | 215      | 200 | 107     | 98  | 97       | 87  | 123       | 108 |
| 21    | 322     | 283 | 227      | 189 | 210      | 193 | 98      | 92  | 100      | 94  | 117       | 107 |
| 22    | 303     | 263 | 245      | 226 | 202      | 155 | 95      | 93  | 104      | 96  | 128       | 109 |
| 23    | 303     | 268 | 248      | 229 | 156      | 146 | 103     | 95  | 107      | 99  | 126       | 117 |
| 24    | 276     | 235 | 247      | 226 | 158      | 147 | 105     | 102 | 116      | 103 | 130       | 121 |
| 25    | 311     | 259 | 231      | 214 | 156      | 143 | 108     | 105 | 113      | 107 | 143       | 128 |
| 26    | 331     | 301 | 245      | 228 | 148      | 141 | 109     | 107 | 124      | 98  | 143       | 128 |
| 27    | 377     | 296 | 240      | 211 | 166      | 142 | 110     | 106 | 114      | 101 | 129       | 115 |
| 28    | 297     | 264 | 210      | 178 | 168      | 158 | 114     | 107 | 120      | 111 | 116       | 113 |
| 29    | 330     | 293 | 185      | 172 | 157      | 139 | 117     | 107 | 118      | 111 | 124       | 112 |
| 30    | 300     | 270 | 189      | 173 | 147      | 139 | 115     | 106 | ---      | --- | 130       | 122 |
| 31    | ---     | --- | ---      | --- | 152      | 141 | 117     | 104 | ---      | --- | 141       | 123 |
| MONTH | 377     | 216 | 325      | 167 | 250      | 139 | 156     | 92  | 124      | 87  | 143       | 100 |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| 1     | 130     | 120 | 124      | 114 | 180      | 159 | 285     | 243 | 280      | 240 | 257       | 232 |
| 2     | 139     | 128 | 124      | 113 | 196      | 169 | 283     | 257 | 305      | 272 | 251       | 223 |
| 3     | 136     | 126 | 126      | 109 | 201      | 174 | 293     | 254 | 325      | 287 | 234       | 218 |
| 4     | 130     | 116 | 130      | 120 | 202      | 180 | 298     | 258 | 328      | 301 | 230       | 202 |
| 5     | 147     | 120 | 137      | 126 | 206      | 184 | 302     | 261 | 328      | 286 | 200       | 131 |
| 6     | 148     | 135 | 137      | 123 | 203      | 181 | 288     | 271 | 323      | 299 | 129       | 114 |
| 7     | 151     | 138 | 146      | 133 | 200      | 178 | 312     | 283 | 316      | 279 | 139       | 120 |
| 8     | 142     | 126 | 152      | 136 | 211      | 185 | 324     | 289 | 315      | 225 | 138       | 129 |
| 9     | 145     | 124 | 145      | 135 | 209      | 184 | 321     | 300 | 233      | 229 | 145       | 131 |
| 10    | 142     | 133 | 134      | 119 | 199      | 171 | 323     | 300 | 271      | 230 | 148       | 135 |
| 11    | 144     | 135 | 139      | 123 | 198      | 164 | 318     | 294 | 293      | 264 | 148       | 133 |
| 12    | 144     | 102 | 138      | 128 | 195      | 169 | 310     | 262 | 290      | 264 | 147       | 135 |
| 13    | 106     | 82  | 139      | 123 | 210      | 187 | 285     | 260 | 278      | 245 | 135       | 114 |
| 14    | 101     | 83  | 133      | 125 | 228      | 197 | 283     | 240 | 264      | 239 | 114       | 108 |
| 15    | 105     | 102 | 136      | 122 | 242      | 224 | 271     | 235 | 262      | 203 | 121       | 114 |
| 16    | 114     | 106 | 133      | 126 | 246      | 218 | 295     | 253 | 246      | 213 | 123       | 119 |
| 17    | 129     | 115 | 143      | 126 | 236      | 194 | 295     | 266 | 285      | 241 | 131       | 116 |
| 18    | 129     | 118 | 141      | 129 | 240      | 211 | 293     | 260 | 291      | 258 | 122       | 89  |
| 19    | 117     | 81  | 149      | 128 | 263      | 221 | 296     | 266 | 295      | 266 | 103       | 87  |
| 20    | 95      | 84  | 145      | 134 | 250      | 211 | 303     | 279 | 314      | 278 | 124       | 104 |
| 21    | 90      | 87  | 149      | 133 | 237      | 208 | 317     | 289 | 313      | 288 | 133       | 124 |
| 22    | 104     | 91  | 164      | 145 | 251      | 219 | 332     | 317 | 306      | 259 | 154       | 126 |
| 23    | 115     | 106 | 155      | 144 | 282      | 242 | 356     | 311 | 283      | 261 | 174       | 141 |
| 24    | 115     | 98  | 158      | 142 | 287      | 255 | 360     | 309 | 275      | 247 | 148       | 137 |
| 25    | 99      | 97  | 164      | 147 | 301      | 268 | 332     | 297 | 249      | 232 | 169       | 136 |
| 26    | 98      | 81  | 163      | 148 | 299      | 264 | 344     | 314 | 262      | 238 | 168       | 160 |
| 27    | 101     | 83  | 171      | 149 | 290      | 237 | 346     | 323 | 276      | 248 | 175       | 163 |
| 28    | 93      | 83  | 180      | 159 | 245      | 209 | 361     | 329 | 275      | 255 | 177       | 167 |
| 29    | 118     | 95  | 178      | 155 | 256      | 226 | 355     | 316 | 278      | 251 | 177       | 166 |
| 30    | 130     | 118 | 176      | 160 | 258      | 234 | 357     | 304 | 276      | 251 | 189       | 168 |
| 31    | ---     | --- | 172      | 155 | ---      | --- | 324     | 262 | 286      | 259 | ---       | --- |
| MONTH | 151     | 81  | 180      | 109 | 301      | 159 | 361     | 235 | 328      | 203 | 257       | 87  |
| YEAR  | 377     | 81  |          |     |          |     |         |     |          |     |           |     |

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-----------|------|
|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
| 1     | 7.26    | 7.20 | ---      | ---  | 7.33     | 7.30 | 7.25    | 7.21 | 7.08     | 7.03 | 7.13      | 7.09 |
| 2     | 7.36    | 7.25 | ---      | ---  | 7.35     | 7.30 | 7.28    | 7.19 | 7.07     | 7.01 | 7.13      | 7.08 |
| 3     | 7.40    | 7.32 | ---      | ---  | 7.34     | 7.31 | 7.19    | 7.12 | 7.07     | 7.02 | 7.14      | 7.10 |
| 4     | 7.40    | 7.36 | ---      | ---  | 7.38     | 7.34 | 7.13    | 7.04 | 7.09     | 7.07 | 7.14      | 7.09 |
| 5     | 7.46    | 7.39 | 7.23     | 7.19 | 7.43     | 7.37 | 7.15    | 7.11 | 7.11     | 7.01 | 7.13      | 7.08 |
| 6     | 7.47    | 7.37 | 7.31     | 7.24 | 7.45     | 7.39 | 7.15    | 7.09 | 7.00     | 6.89 | 7.12      | 7.04 |
| 7     | 7.42    | 7.32 | 7.31     | 7.23 | 7.42     | 7.37 | 7.16    | 7.10 | 6.91     | 6.86 | 7.10      | 7.07 |
| 8     | 7.42    | 7.31 | 7.30     | 7.23 | 7.42     | 7.35 | 7.23    | 7.13 | 6.92     | 6.87 | 7.12      | 7.10 |
| 9     | 7.44    | 7.38 | 7.31     | 7.25 | 7.38     | 7.29 | 7.22    | 7.12 | 6.92     | 6.89 | 7.15      | 7.08 |
| 10    | 7.40    | 7.32 | 7.25     | 7.22 | 7.34     | 7.28 | 7.19    | 7.10 | 6.95     | 6.90 | 7.12      | 7.08 |
| 11    | 7.36    | 7.22 | 7.29     | 7.22 | 7.32     | 7.24 | 7.19    | 7.12 | 6.97     | 6.95 | 7.18      | 7.12 |
| 12    | 7.32    | 7.26 | 7.33     | 7.29 | 7.26     | 7.19 | 7.21    | 7.16 | 7.01     | 6.96 | 7.17      | 7.08 |
| 13    | 7.33    | 7.23 | 7.37     | 7.28 | 7.30     | 7.25 | 7.22    | 7.18 | 7.03     | 7.00 | 7.16      | 7.06 |
| 14    | 7.38    | 7.23 | 7.35     | 7.32 | 7.30     | 7.27 | 7.27    | 7.20 | 7.05     | 6.96 | 7.15      | 7.08 |
| 15    | 7.30    | 7.27 | 7.37     | 7.29 | 7.29     | 7.21 | 7.29    | 7.26 | 7.04     | 6.97 | 7.25      | 7.15 |
| 16    | 7.35    | 7.27 | 7.37     | 7.33 | 7.22     | 7.11 | 7.29    | 7.27 | 7.10     | 7.00 | 7.26      | 7.21 |
| 17    | 7.39    | 7.27 | 7.42     | 7.27 | 7.22     | 7.17 | 7.33    | 7.25 | 7.11     | 7.05 | 7.25      | 7.20 |
| 18    | 7.33    | 7.27 | 7.26     | 6.93 | 7.26     | 7.21 | 7.33    | 7.17 | 7.12     | 7.07 | 7.23      | 7.18 |
| 19    | 7.40    | 7.30 | 7.11     | 7.03 | 7.27     | 7.21 | 7.21    | 7.15 | 7.13     | 7.07 | 7.21      | 7.12 |
| 20    | 7.38    | 7.31 | 7.15     | 7.09 | 7.22     | 7.16 | 7.21    | 6.94 | 7.08     | 6.96 | 7.26      | 7.18 |
| 21    | 7.37    | 7.25 | 7.30     | 7.16 | 7.19     | 7.15 | 6.92    | 6.71 | 6.99     | 6.93 | 7.26      | 7.13 |
| 22    | 7.31    | 7.24 | 7.38     | 7.31 | 7.20     | 7.11 | 6.84    | 6.71 | 7.02     | 6.96 | 7.20      | 7.07 |
| 23    | 7.33    | 7.27 | 7.41     | 7.35 | 7.24     | 7.17 | 6.92    | 6.85 | 7.02     | 6.99 | 7.14      | 7.09 |
| 24    | 7.33    | 7.28 | 7.43     | 7.35 | 7.25     | 7.22 | 7.04    | 6.92 | 7.07     | 7.00 | 7.14      | 7.05 |
| 25    | 7.31    | 7.28 | 7.38     | 7.33 | 7.24     | 7.19 | 7.01    | 6.95 | 7.08     | 7.05 | 7.09      | 7.00 |
| 26    | 7.34    | 7.31 | 7.34     | 7.27 | 7.20     | 7.16 | 7.02    | 6.96 | 7.19     | 7.07 | 7.06      | 6.99 |
| 27    | 7.38    | 7.31 | 7.30     | 7.19 | 7.18     | 7.07 | 7.04    | 7.01 | 7.19     | 7.10 | 7.10      | 7.03 |
| 28    | 7.32    | 7.27 | 7.26     | 7.20 | 7.15     | 7.07 | 7.08    | 6.98 | 7.10     | 7.07 | 7.15      | 7.10 |
| 29    | 7.37    | 7.29 | 7.27     | 7.24 | 7.22     | 7.10 | 7.12    | 7.03 | 7.09     | 7.05 | 7.12      | 7.03 |
| 30    | 7.37    | 7.31 | 7.31     | 7.26 | 7.24     | 7.18 | 7.12    | 7.05 | ---      | ---  | 7.17      | 7.10 |
| 31    | ---     | ---  | ---      | ---  | 7.25     | 7.20 | 7.09    | 7.03 | ---      | ---  | 7.17      | 7.08 |
| MONTH | 7.47    | 7.20 | 7.43     | 6.93 | 7.45     | 7.07 | 7.33    | 6.71 | 7.19     | 6.86 | 7.26      | 6.99 |
|       | APRIL   |      | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
| 1     | 7.16    | 7.09 | 7.14     | 7.08 | 7.37     | 7.21 | 7.37    | 7.30 | 7.40     | 7.35 | 7.54      | 7.52 |
| 2     | 7.09    | 7.06 | 7.15     | 7.07 | 7.30     | 7.17 | 7.41    | 7.33 | 7.46     | 7.38 | 7.54      | 7.50 |
| 3     | 7.11    | 7.09 | 7.18     | 7.10 | 7.30     | 7.13 | 7.45    | 7.39 | 7.50     | 7.44 | 7.53      | 7.51 |
| 4     | 7.13    | 7.11 | 7.14     | 7.09 | 7.28     | 7.14 | 7.46    | 7.41 | 7.50     | 7.47 | 7.53      | 7.49 |
| 5     | 7.15    | 7.06 | 7.17     | 7.13 | 7.28     | 7.18 | 7.43    | 7.29 | 7.49     | 7.46 | 7.52      | 7.16 |
| 6     | 7.11    | 7.06 | 7.21     | 7.13 | 7.34     | 7.22 | 7.35    | 7.29 | 7.52     | 7.48 | 7.15      | 7.09 |
| 7     | 7.11    | 7.07 | 7.18     | 7.07 | 7.38     | 7.26 | 7.40    | 7.34 | 7.52     | 7.48 | 7.11      | 7.04 |
| 8     | 7.13    | 7.10 | 7.15     | 7.11 | 7.34     | 7.20 | 7.44    | 7.40 | 7.52     | 7.40 | 7.03      | 6.88 |
| 9     | 7.14    | 7.05 | 7.18     | 7.14 | 7.27     | 7.13 | 7.44    | 7.41 | 7.43     | 7.41 | 6.99      | 6.87 |
| 10    | 7.08    | 7.06 | 7.22     | 7.14 | 7.25     | 7.14 | 7.45    | 7.39 | 7.51     | 7.42 | 7.03      | 6.98 |
| 11    | 7.10    | 7.07 | 7.18     | 7.07 | 7.24     | 7.11 | 7.48    | 7.40 | 7.56     | 7.51 | 7.04      | 7.01 |
| 12    | 7.12    | 7.04 | 7.15     | 7.09 | 7.26     | 7.10 | 7.48    | 7.38 | 7.62     | 7.56 | 7.11      | 7.01 |
| 13    | 7.13    | 6.93 | 7.14     | 7.12 | 7.26     | 7.17 | 7.39    | 7.37 | 7.60     | 7.56 | 7.15      | 7.09 |
| 14    | 6.95    | 6.90 | 7.15     | 7.04 | 7.34     | 7.24 | 7.39    | 7.33 | 7.62     | 7.55 | 7.14      | 7.11 |
| 15    | 7.03    | 6.94 | 7.12     | 7.00 | 7.38     | 7.13 | 7.40    | 7.35 | 7.64     | 7.59 | 7.18      | 7.11 |
| 16    | 7.07    | 7.03 | 7.20     | 7.07 | 7.27     | 7.12 | 7.39    | 7.36 | 7.66     | 7.61 | 7.19      | 7.18 |
| 17    | 7.14    | 7.05 | 7.22     | 7.14 | 7.32     | 7.17 | 7.41    | 7.35 | 7.63     | 7.60 | 7.19      | 7.10 |
| 18    | 7.20    | 7.14 | 7.23     | 7.19 | 7.34     | 7.20 | 7.46    | 7.36 | 7.65     | 7.60 | 7.19      | 7.12 |
| 19    | 7.21    | 7.02 | 7.25     | 7.18 | 7.36     | 7.21 | 7.52    | 7.45 | 7.66     | 7.62 | 7.12      | 6.99 |
| 20    | 7.07    | 6.90 | 7.22     | 7.15 | 7.41     | 7.24 | 7.52    | 7.44 | 7.68     | 7.62 | 7.00      | 6.83 |
| 21    | 6.96    | 6.87 | 7.22     | 7.16 | 7.44     | 7.25 | 7.49    | 7.42 | 7.69     | 7.64 | 6.98      | 6.82 |
| 22    | 7.02    | 6.94 | 7.20     | 7.12 | 7.39     | 7.19 | 7.47    | 7.44 | 7.66     | 7.60 | 7.03      | 6.97 |
| 23    | 7.06    | 6.99 | 7.20     | 7.16 | 7.35     | 7.21 | 7.44    | 7.35 | 7.66     | 7.60 | 7.16      | 7.04 |
| 24    | 7.15    | 7.05 | 7.27     | 7.19 | ---      | ---  | 7.43    | 7.37 | 7.61     | 7.57 | 7.20      | 7.17 |
| 25    | 7.19    | 7.15 | 7.27     | 7.11 | ---      | ---  | 7.49    | 7.43 | 7.58     | 7.53 | 7.23      | 7.18 |
| 26    | 7.17    | 6.94 | 7.26     | 7.19 | ---      | ---  | 7.52    | 7.49 | 7.64     | 7.57 | 7.27      | 7.21 |
| 27    | 7.00    | 6.85 | 7.28     | 7.17 | ---      | ---  | 7.55    | 7.51 | 7.65     | 7.57 | 7.29      | 7.26 |
| 28    | 6.91    | 6.87 | 7.26     | 7.09 | 7.34     | 7.30 | 7.52    | 7.46 | 7.67     | 7.61 | 7.29      | 7.26 |
| 29    | 6.96    | 6.91 | 7.20     | 7.10 | 7.36     | 7.29 | 7.50    | 7.47 | 7.68     | 7.62 | 7.30      | 7.27 |
| 30    | 7.08    | 6.97 | 7.28     | 7.15 | 7.34     | 7.28 | 7.48    | 7.42 | 7.63     | 7.58 | 7.30      | 7.25 |
| 31    | ---     | ---  | 7.35     | 7.27 | ---      | ---  | 7.41    | 7.36 | 7.57     | 7.51 | ---       | ---  |
| MONTH | 7.21    | 6.85 | 7.35     | 7.00 | 7.44     | 7.10 | 7.55    | 7.29 | 7.69     | 7.35 | 7.54      | 6.82 |

## ALTAHAMA RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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



OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN |
|-------|---------|-----|----------|-----|----------|------|---------|------|----------|------|-----------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |     |
| 1     | 5.2     | 4.4 | ---      | --- | 8.4      | 8.0  | 10.8    | 10.4 | 10.6     | 10.0 | 9.8       | 9.6 |
| 2     | 5.3     | 4.5 | ---      | --- | 8.2      | 8.1  | 10.6    | 10.4 | 10.2     | 9.5  | 9.7       | 8.9 |
| 3     | 6.3     | 5.2 | ---      | --- | 8.5      | 8.0  | 10.4    | 10.2 | 9.9      | 9.4  | 9.2       | 8.4 |
| 4     | 6.6     | 6.1 | ---      | --- | 8.7      | 8.4  | 10.8    | 10.3 | 10.1     | 9.9  | 8.7       | 8.1 |
| 5     | 7.6     | 6.1 | 5.8      | 5.4 | 9.2      | 8.5  | 11.0    | 10.6 | 10.1     | 10.0 | 8.9       | 8.3 |
| 6     | 7.6     | 6.9 | 6.3      | 5.4 | 9.4      | 8.9  | 11.2    | 10.8 | 10.3     | 10.1 | 9.1       | 8.7 |
| 7     | 6.8     | 6.2 | 6.8      | 6.1 | 9.2      | 8.7  | 11.2    | 11.0 | 10.4     | 10.3 | 9.3       | 9.0 |
| 8     | 6.7     | 6.2 | 6.6      | 6.4 | 9.0      | 8.4  | 12.3    | 11.2 | 10.6     | 10.4 | 9.3       | 8.7 |
| 9     | 7.6     | 6.8 | 6.9      | 6.1 | 8.4      | 7.6  | 12.2    | 11.7 | 10.3     | 10.0 | 8.9       | 8.1 |
| 10    | 7.2     | 6.2 | 6.7      | 6.2 | 8.0      | 7.8  | 11.9    | 11.5 | 10.2     | 10.0 | 8.3       | 8.0 |
| 11    | 6.2     | 5.5 | 6.3      | 5.7 | 8.1      | 7.8  | 11.9    | 11.4 | 10.2     | 10.1 | 9.4       | 8.4 |
| 12    | 7.1     | 5.8 | 7.2      | 6.1 | 7.9      | 7.2  | 11.6    | 11.4 | 10.1     | 9.9  | 9.7       | 8.5 |
| 13    | 6.9     | 6.4 | 7.5      | 7.0 | 7.9      | 7.5  | 11.5    | 11.1 | 10.4     | 10.1 | 9.5       | 8.5 |
| 14    | 6.8     | 6.0 | 7.2      | 6.5 | 8.3      | 7.9  | 11.5    | 11.0 | 10.6     | 10.0 | 9.1       | 8.5 |
| 15    | 7.3     | 6.4 | 7.2      | 6.6 | 8.2      | 7.4  | 11.5    | 11.3 | 10.5     | 10.1 | 9.7       | 9.0 |
| 16    | 7.1     | 6.4 | 7.0      | 6.8 | 9.0      | 7.3  | 11.5    | 11.3 | 10.5     | 9.8  | 9.9       | 9.6 |
| 17    | 7.0     | 6.2 | 7.4      | 6.2 | 10.1     | 9.1  | 11.5    | 10.8 | 10.7     | 10.1 | 10.0      | 9.6 |
| 18    | 6.8     | 6.3 | 6.4      | 5.1 | 10.3     | 10.1 | 11.4    | 10.9 | 10.7     | 10.3 | 9.8       | 9.3 |
| 19    | 7.4     | 6.4 | 7.5      | 6.4 | 10.3     | 9.3  | 10.9    | 10.8 | 10.7     | 10.5 | 9.4       | 9.1 |
| 20    | 7.3     | 6.6 | 7.7      | 7.5 | 9.3      | 8.4  | 10.7    | 9.5  | 10.6     | 10.1 | 10.1      | 9.5 |
| 21    | 6.7     | 6.3 | 7.8      | 7.4 | 8.6      | 8.3  | 9.5     | 8.9  | 10.4     | 9.9  | 10.1      | 9.3 |
| 22    | 6.8     | 6.2 | 8.3      | 7.8 | 9.4      | 8.5  | 9.8     | 8.9  | 10.5     | 10.2 | 9.5       | 8.3 |
| 23    | 7.1     | 6.9 | 8.7      | 8.2 | 9.7      | 9.4  | 10.2    | 9.8  | 10.5     | 9.9  | 8.8       | 7.9 |
| 24    | 7.6     | 6.9 | 8.7      | 8.3 | 9.9      | 9.5  | 10.7    | 10.2 | 10.1     | 9.6  | 8.7       | 8.0 |
| 25    | 7.1     | 6.4 | 8.6      | 8.1 | 10.0     | 9.7  | 10.7    | 10.4 | 10.1     | 9.8  | 8.5       | 7.1 |
| 26    | 6.8     | 6.4 | 8.2      | 7.5 | 10.0     | 9.6  | 10.6    | 10.3 | 10.7     | 9.6  | 8.0       | 6.9 |
| 27    | 6.7     | 6.2 | 7.9      | 7.3 | 9.7      | 8.7  | 11.0    | 10.6 | 10.7     | 10.1 | 8.4       | 7.5 |
| 28    | 6.7     | 6.0 | 8.0      | 7.5 | 8.7      | 8.5  | 11.2    | 10.8 | 10.2     | 9.5  | 8.7       | 7.8 |
| 29    | 6.6     | 6.3 | 8.1      | 7.9 | 9.6      | 8.3  | 11.3    | 10.9 | 9.8      | 9.2  | 8.7       | 7.9 |
| 30    | 7.2     | 6.1 | 8.3      | 8.0 | 10.6     | 9.6  | 11.2    | 10.8 | ---      | ---  | 8.3       | 7.7 |
| 31    | ---     | --- | ---      | --- | 10.8     | 10.4 | 10.9    | 10.3 | ---      | ---  | 8.0       | 6.9 |
| MONTH | 7.6     | 4.4 | 8.7      | 5.1 | 10.8     | 7.2  | 12.3    | 8.9  | 10.7     | 9.2  | 10.1      | 6.9 |
|       | APRIL   |     | MAY      |     | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |     |
| 1     | 7.7     | 7.3 | 7.3      | 6.9 | 6.2      | 5.0  | 5.2     | 4.1  | 5.6      | 4.9  | 6.2       | 5.8 |
| 2     | 7.4     | 6.8 | 7.3      | 6.8 | 5.4      | 4.0  | 5.5     | 4.3  | 5.5      | 5.1  | 6.4       | 6.2 |
| 3     | 7.5     | 7.3 | 7.3      | 6.6 | 5.0      | 4.2  | 5.9     | 5.0  | 5.8      | 5.1  | 6.5       | 6.3 |
| 4     | 7.8     | 7.5 | 6.7      | 6.4 | 4.9      | 4.2  | 6.4     | 5.5  | 5.6      | 5.1  | 6.4       | 6.3 |
| 5     | 7.7     | 6.8 | 6.6      | 6.3 | 5.3      | 4.4  | 5.9     | 4.7  | 5.4      | 5.0  | 6.6       | 6.2 |
| 6     | 7.2     | 6.5 | 6.7      | 6.4 | 5.7      | 4.9  | 5.5     | 4.7  | 5.4      | 5.1  | 6.2       | 6.0 |
| 7     | 6.7     | 6.3 | 6.6      | 5.9 | 6.1      | 4.9  | 5.6     | 5.3  | 5.4      | 5.2  | 6.1       | 5.9 |
| 8     | 7.3     | 6.7 | 6.4      | 5.8 | 5.4      | 4.2  | 5.9     | 5.3  | 5.5      | 5.3  | 6.1       | 5.9 |
| 9     | 7.3     | 6.5 | 6.7      | 6.1 | 4.8      | 3.8  | 5.4     | 5.0  | 5.5      | 5.4  | 6.4       | 5.8 |
| 10    | 6.8     | 6.4 | 7.0      | 6.2 | 5.1      | 3.7  | 5.2     | 4.9  | 5.5      | 5.0  | 6.4       | 6.0 |
| 11    | 6.9     | 6.4 | 6.6      | 5.7 | 5.5      | 3.8  | 5.5     | 4.8  | 5.3      | 5.0  | 6.5       | 6.1 |
| 12    | 7.6     | 6.1 | 6.3      | 5.8 | 5.9      | 4.8  | 5.5     | 5.1  | 5.6      | 5.1  | 6.3       | 6.0 |
| 13    | 8.6     | 7.7 | 6.1      | 5.9 | 5.7      | 5.1  | 5.3     | 4.9  | 5.6      | 5.2  | 6.3       | 6.0 |
| 14    | 8.5     | 8.0 | 6.2      | 5.7 | 6.1      | 5.5  | 5.1     | 4.7  | 5.7      | 5.2  | 6.5       | 6.3 |
| 15    | 7.9     | 7.7 | 6.4      | 5.8 | 5.8      | 4.6  | 5.2     | 4.5  | 6.0      | 5.7  | 6.6       | 6.2 |
| 16    | 7.7     | 7.5 | 6.2      | 5.9 | 5.6      | 4.5  | 4.9     | 4.2  | 6.1      | 5.8  | 6.7       | 6.6 |
| 17    | 7.5     | 7.1 | 6.3      | 5.5 | 5.9      | 4.7  | 4.8     | 4.1  | 5.8      | 4.9  | 6.9       | 6.3 |
| 18    | 7.5     | 7.1 | 5.8      | 5.6 | 5.7      | 4.7  | 5.0     | 4.1  | 5.7      | 4.9  | 7.2       | 6.8 |
| 19    | 7.6     | 7.1 | 6.0      | 5.1 | 5.5      | 3.9  | 5.4     | 4.7  | 5.7      | 5.1  | 7.2       | 6.8 |
| 20    | 7.6     | 7.3 | 5.7      | 5.2 | 6.1      | 4.1  | 5.2     | 4.6  | 5.5      | 5.2  | 6.8       | 5.9 |
| 21    | 7.5     | 7.2 | 5.8      | 5.4 | 6.4      | 5.1  | 5.5     | 4.6  | 5.6      | 5.2  | 6.2       | 5.7 |
| 22    | 7.5     | 6.9 | 5.7      | 4.8 | 5.9      | 4.5  | 5.3     | 4.8  | 6.0      | 5.4  | 6.3       | 5.9 |
| 23    | 6.8     | 6.4 | 5.9      | 5.3 | 5.4      | 4.1  | 5.1     | 4.4  | 6.1      | 5.6  | 6.2       | 5.6 |
| 24    | 7.3     | 6.3 | 6.3      | 5.2 | 5.4      | 4.2  | 4.9     | 4.3  | 5.8      | 5.5  | 6.4       | 6.2 |
| 25    | 7.6     | 7.3 | 5.8      | 4.6 | 4.7      | 4.2  | 5.7     | 4.8  | 5.8      | 5.5  | 6.5       | 6.1 |
| 26    | 7.5     | 7.0 | 5.8      | 5.2 | 5.2      | 4.4  | 5.8     | 5.3  | 6.0      | 5.1  | 6.3       | 6.1 |
| 27    | 7.2     | 7.0 | 6.1      | 5.3 | 5.2      | 4.4  | 5.8     | 5.2  | 6.0      | 5.3  | 6.4       | 6.3 |
| 28    | 7.1     | 6.8 | 6.2      | 5.1 | 5.3      | 4.6  | 5.2     | 4.8  | 6.0      | 5.6  | 6.6       | 6.2 |
| 29    | 6.7     | 6.6 | 6.1      | 5.3 | 5.3      | 4.1  | 5.3     | 4.9  | 6.0      | 5.5  | 6.7       | 6.3 |
| 30    | 6.9     | 6.3 | 6.1      | 5.5 | 4.9      | 4.1  | 5.3     | 4.8  | 5.7      | 5.5  | 6.6       | 6.0 |
| 31    | ---     | --- | 6.3      | 5.8 | ---      | ---  | 5.3     | 4.7  | 5.9      | 5.7  | ---       | --- |
| MONTH | 8.6     | 6.1 | 7.3      | 4.6 | 6.4      | 3.7  | 6.4     | 4.1  | 6.1      | 4.9  | 7.2       | 5.6 |
| YEAR  | 12.3    | 3.7 |          |     |          |      |         |      |          |      |           |     |

## ALTAMAHA RIVER BASIN

02214265 OCMULGEE RIVER NEAR BONAIRE, GA.

LOCATION.--Lat 32°32'33", long 83°32'13", Houston-Twigg 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 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 20... | 1300 | 535                                             | 225                                               | 217                                                      | 6.90                           | 7.10                                  | 18.0                                 | 26.5                               | 7.6                                 | 81                                                             |
| JAN 18... | 1410 | 2320                                            | 116                                               | 109                                                      | 7.10                           | 7.20                                  | 6.5                                  | 16.0                               | 11.7                                | 97                                                             |
| MAR 15... | 1420 | 2410                                            | 107                                               | 99                                                       | 6.90                           | 7.10                                  | 13.5                                 | 9.0                                | 9.4                                 | 92                                                             |
| MAY 17... | 1250 | 1460                                            | 118                                               | 118                                                      | 6.70                           | 7.10                                  | 24.0                                 | 33.0                               | 6.8                                 | 83                                                             |
| JUL 19... | 1235 | 440                                             | 205                                               | 198                                                      | 6.90                           | 7.30                                  | 29.5                                 | 34.0                               | 6.0                                 | 80                                                             |
| SEP 20... | 1325 | 3590                                            | 93                                                | 110                                                      | 6.60                           | 7.00                                  | 26.0                                 | 32.0                               | 7.1                                 | 89                                                             |

| DATE      | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 20... | 50                                           | 4.0                          | 2.0                                                            | --                                               | 48                                                              | 0.910                                                | 0.140                                                | 0.320                                       | 5.8                                           |
| JAN 18... | 55                                           | 14                           | 1.2                                                            | 4900                                             | 24                                                              | 0.540                                                | 0.210                                                | 0.130                                       | 3.0                                           |
| MAR 15... | 45                                           | 17                           | 1.5                                                            | 2300                                             | 26                                                              | 0.570                                                | 0.090                                                | 0.140                                       | 5.5                                           |
| MAY 17... | 60                                           | 15                           | 0.8                                                            | 480                                              | 29                                                              | 0.690                                                | 0.120                                                | 0.180                                       | 3.1                                           |
| JUL 19... | 70                                           | 7.0                          | 0.5                                                            | 20                                               | 51                                                              | 1.39                                                 | 0.060                                                | 0.310                                       | 5.3                                           |
| SEP 20... | 50                                           | 45                           | 0.7                                                            | --                                               | 20                                                              | 0.450                                                | <0.030                                               | 0.190                                       | 12                                            |

## ALTAMAHA RIVER BASIN

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02215100 TUCSAWHATCHEE CREEK NEAR HAWKINSVILLE, GA.

LOCATION (REVISED).--Lat 32°14'22", Long 83°30'06", Pulaski County, Hydrologic Unit 03070104, in left bank 90 ft upstream from State Highways 27 and 257, 0.6 mi upstream from Cedar Creek, 0.6 mi downstream from Long Branch, and 3.5 mi south-west of Hawkinsville.

DRAINAGE AREA.--163 mi<sup>2</sup>.

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: Sept. 28-30. Records good, except those greater than 50 ft<sup>3</sup>/s but less than 300 ft<sup>3</sup>/s, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft<sup>3</sup>/s, Jan. 20, 1987; gage height, 11.94 ft, minimum daily discharge, 1.1 ft<sup>3</sup>/s, July 23, 24, 1986.

EXTREMES FOR CURRENT PERIOD.--Peak discharges greater than base discharge of 1,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Mar. 11 | 2200 | *358                              | *5.49               |

Minimum discharge, 3.9 ft<sup>3</sup>/s, July 10, 11.

 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           | 16    | 15      | 30   | 29   | 84   | 87   | 88   | 75   | 14    | 6.4   | 14   | 13    |
| 2           | 14    | 15      | 28   | 38   | 84   | 84   | 87   | 66   | 13    | 6.1   | 13   | 14    |
| 3           | 14    | 16      | 27   | 62   | 83   | 84   | 85   | 59   | 12    | 6.2   | 11   | 18    |
| 4           | 13    | 17      | 27   | 98   | 91   | 199  | 89   | 53   | 11    | 7.2   | 15   | 20    |
| 5           | 12    | 18      | 26   | 93   | 97   | 286  | 82   | 53   | 11    | 7.4   | 47   | 46    |
| 6           | 13    | 20      | 26   | 71   | 96   | 299  | 75   | 48   | 11    | 6.1   | 113  | 64    |
| 7           | 13    | 20      | 25   | 56   | 86   | 225  | 69   | 44   | 12    | 5.2   | 76   | 49    |
| 8           | 12    | 20      | 26   | 60   | 80   | 152  | 62   | 42   | 28    | 4.5   | 78   | 29    |
| 9           | 12    | 20      | 27   | 61   | 77   | 144  | 59   | 38   | 24    | 4.3   | 50   | 60    |
| 10          | 12    | 22      | 28   | 62   | 75   | 297  | 56   | 36   | 21    | 4.0   | 33   | 77    |
| 11          | 12    | 27      | 29   | 63   | 74   | 341  | 57   | 38   | 19    | 6.3   | 22   | 115   |
| 12          | 12    | 26      | 28   | 61   | 74   | 332  | 69   | 38   | 16    | 8.4   | 17   | 72    |
| 13          | 12    | 24      | 27   | 57   | 74   | 255  | 79   | 38   | 14    | 10    | 15   | 48    |
| 14          | 12    | 23      | 27   | 52   | 72   | 200  | 78   | 36   | 13    | 9.8   | 16   | 36    |
| 15          | 12    | 23      | 30   | 49   | 74   | 156  | 68   | 35   | 12    | 8.9   | 32   | 30    |
| 16          | 12    | 22      | 32   | 48   | 83   | 125  | 60   | 41   | 11    | 8.4   | 33   | 27    |
| 17          | 12    | 36      | 32   | 48   | 82   | 108  | 54   | 38   | 10    | 7.8   | 27   | 29    |
| 18          | 12    | 80      | 31   | 67   | 80   | 111  | 50   | 32   | 10    | 8.0   | 21   | 37    |
| 19          | 12    | 73      | 29   | 110  | 158  | 152  | 195  | 29   | 9.8   | 6.4   | 18   | 41    |
| 20          | 12    | 53      | 28   | 225  | 257  | 167  | 223  | 26   | 9.0   | 5.5   | 15   | 36    |
| 21          | 12    | 36      | 30   | 295  | 321  | 158  | 186  | 23   | 8.1   | 4.6   | 14   | 29    |
| 22          | 11    | 30      | 36   | 265  | 295  | 129  | 75   | 21   | 7.3   | 5.7   | 14   | 41    |
| 23          | 11    | 28      | 44   | 173  | 229  | 115  | 52   | 20   | 7.2   | 10    | 15   | 49    |
| 24          | 12    | 27      | 43   | 112  | 155  | 108  | 49   | 19   | 6.5   | 53    | 25   | 31    |
| 25          | 13    | 27      | 38   | 106  | 125  | 106  | 52   | 21   | 6.4   | 55    | 23   | 24    |
| 26          | 13    | 30      | 35   | 110  | 105  | 115  | 134  | 22   | 6.4   | 72    | 17   | 21    |
| 27          | 13    | 37      | 33   | 106  | 97   | 124  | 219  | 22   | 7.2   | 34    | 15   | 19    |
| 28          | 14    | 36      | 33   | 96   | 93   | 117  | 323  | 21   | 7.9   | 58    | 14   | 19    |
| 29          | 14    | 33      | 32   | 89   | 90   | 105  | 198  | 18   | 7.6   | 51    | 13   | 19    |
| 30          | 14    | 32      | 30   | 86   | ---  | 97   | 91   | 17   | 6.8   | 22    | 11   | 19    |
| 31          | 15    | ---     | 29   | 85   | ---  | 91   | ---  | 15   | ---   | 16    | 12   | ---   |
| TOTAL       | 393   | 886     | 946  | 2933 | 3391 | 5069 | 3064 | 1084 | 352.2 | 518.2 | 839  | 1132  |
| MEAN        | 12.7  | 29.5    | 30.5 | 94.6 | 117  | 164  | 102  | 35.0 | 11.7  | 16.7  | 27.1 | 37.7  |
| MAX         | 16    | 80      | 44   | 295  | 321  | 341  | 323  | 75   | 28    | 72    | 113  | 115   |
| MIN         | 11    | 15      | 25   | 29   | 72   | 84   | 49   | 15   | 6.4   | 4.0   | 11   | 13    |
| CFSM        | .08   | .18     | .19  | .58  | .72  | 1.01 | .63  | .22  | .07   | .10   | .17  | .23   |
| IN.         | .09   | .20     | .22  | .67  | .77  | 1.16 | .70  | .25  | .08   | .12   | .19  | .26   |
| CAL YR 1987 | TOTAL | 70634.4 | MEAN | 194  | MAX  | 2510 | MIN  | 7.1  | CFSM  | 1.19  | IN   | 16.12 |
| WTR YR 1988 | TOTAL | 20607.4 | MEAN | 56.3 | MAX  | 341  | MIN  | 4.0  | CFSM  | .35   | IN   | 4.70  |

## 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 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1504: 1937.

GAGE.--Water-stage recorder. Datum of gage is 87.48 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1937, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: May 21 to June 3. Records good. Flow regulated by Lloyds Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--52 years, 5,490 ft<sup>3</sup>/s, 14.39 in/yr.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1841, 98,400 ft<sup>3</sup>/s, Jan. 21, 1925, from rating extended above 67,000 ft<sup>3</sup>/s on basis of records of peak flow for stations on Ocmulgee, Oconee, and Altamaha Rivers; maximum stage known, 26.3 ft, Jan. 21, 1925, backwater from Oconee River.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Mar. 12 | 2100 | *9,880                            | *10.16              |

Minimum discharge, 879 ft<sup>3</sup>/s, Aug. 7, gage height, -0.38 ft.

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           | 1140  | 944     | 1500  | 2220   | 6180   | 4910   | 3840   | 6380  | 1620  | 1030  | 960   | 980   |
| 2           | 1100  | 951     | 1530  | 2250   | 6300   | 4470   | 3710   | 5990  | 1570  | 1040  | 936   | 981   |
| 3           | 1080  | 952     | 1580  | 2490   | 6170   | 4150   | 3530   | 5760  | 1510  | 1030  | 898   | 983   |
| 4           | 1070  | 976     | 1590  | 2710   | 5700   | 4220   | 3400   | 5650  | 1450  | 1020  | 897   | 1050  |
| 5           | 1080  | 1000    | 1570  | 2820   | 4930   | 5220   | 3460   | 5650  | 1420  | 1000  | 921   | 1140  |
| 6           | 1060  | 989     | 1530  | 2930   | 4360   | 5860   | 3560   | 5320  | 1380  | 990   | 893   | 1190  |
| 7           | 1050  | 977     | 1490  | 3040   | 4160   | 6120   | 3420   | 4290  | 1360  | 984   | 879   | 1200  |
| 8           | 1050  | 979     | 1480  | 3130   | 4130   | 6180   | 3230   | 3480  | 1330  | 986   | 889   | 1300  |
| 9           | 1040  | 979     | 1510  | 3290   | 4190   | 6260   | 3040   | 3080  | 1340  | 997   | 930   | 2140  |
| 10          | 1040  | 977     | 1510  | 3430   | 4290   | 6890   | 2860   | 2830  | 1410  | 989   | 989   | 3100  |
| 11          | 1030  | 979     | 1460  | 3430   | 4420   | 8370   | 2700   | 2620  | 1470  | 975   | 1000  | 3270  |
| 12          | 1020  | 988     | 1410  | 3280   | 4590   | 9620   | 2620   | 2450  | 1470  | 1010  | 1020  | 3400  |
| 13          | 1010  | 980     | 1400  | 3150   | 4820   | 9620   | 2580   | 2370  | 1420  | 951   | 1050  | 3580  |
| 14          | 1020  | 986     | 1430  | 2990   | 5140   | 8800   | 2520   | 2390  | 1370  | 934   | 1040  | 3800  |
| 15          | 1010  | 998     | 1480  | 2900   | 5590   | 7850   | 2470   | 2390  | 1330  | 943   | 1020  | 3940  |
| 16          | 992   | 1020    | 1480  | 2850   | 6050   | 6980   | 2620   | 2370  | 1290  | 977   | 1070  | 3610  |
| 17          | 993   | 1080    | 1450  | 2810   | 6370   | 6340   | 3040   | 2390  | 1250  | 995   | 1090  | 3140  |
| 18          | 982   | 1130    | 1420  | 2840   | 6430   | 5840   | 3410   | 2360  | 1200  | 978   | 1040  | 3150  |
| 19          | 977   | 1170    | 1440  | 3190   | 6500   | 5550   | 3830   | 2330  | 1150  | 987   | 1020  | 3410  |
| 20          | 990   | 1220    | 1580  | 3660   | 6710   | 5440   | 5030   | 2270  | 1120  | 991   | 1030  | 3480  |
| 21          | 982   | 1310    | 1820  | 4080   | 7170   | 5310   | 6160   | 2170  | 1100  | 959   | 1000  | 3410  |
| 22          | 980   | 1500    | 2070  | 4430   | 7600   | 5100   | 6700   | 2120  | 1090  | 953   | 976   | 3330  |
| 23          | 966   | 1700    | 2050  | 4700   | 7860   | 4890   | 6500   | 2060  | 1080  | 933   | 954   | 3350  |
| 24          | 971   | 1760    | 1860  | 4880   | 7920   | 4740   | 5970   | 2020  | 1070  | 927   | 941   | 3420  |
| 25          | 964   | 1680    | 1730  | 5050   | 7830   | 4620   | 5590   | 1960  | 1070  | 919   | 943   | 3450  |
| 26          | 954   | 1600    | 1770  | 5180   | 7590   | 4510   | 5850   | 1910  | 1060  | 923   | 962   | 3150  |
| 27          | 948   | 1560    | 2040  | 5250   | 7160   | 4410   | 6520   | 1860  | 1060  | 967   | 992   | 2700  |
| 28          | 946   | 1510    | 2280  | 5330   | 6560   | 4270   | 7030   | 1800  | 1060  | 999   | 996   | 2420  |
| 29          | 957   | 1510    | 2400  | 5470   | 5730   | 4090   | 7190   | 1760  | 1060  | 1000  | 982   | 2270  |
| 30          | 960   | 1500    | 2480  | 5680   | ---    | 3930   | 6860   | 1710  | 1040  | 992   | 974   | 2090  |
| 31          | 949   | ---     | 2410  | 5950   | ---    | 3890   | ---    | 1660  | ---   | 979   | 962   | ---   |
| TOTAL       | 31311 | 35905   | 52750 | 115410 | 172450 | 178450 | 129240 | 93400 | 38150 | 30358 | 30254 | 78434 |
| MEAN        | 1010  | 1197    | 1702  | 3723   | 5947   | 5756   | 4308   | 3013  | 1272  | 979   | 976   | 2614  |
| MAX         | 1140  | 1760    | 2480  | 5950   | 7920   | 9620   | 7190   | 6380  | 1620  | 1040  | 1090  | 3940  |
| MIN         | 946   | 944     | 1400  | 2220   | 4130   | 3890   | 2470   | 1660  | 1040  | 919   | 879   | 980   |
| CFSM        | .20   | .23     | .33   | .72    | 1.15   | 1.11   | .83    | .58   | .25   | .19   | .19   | .51   |
| IN.         | .22   | .26     | .38   | .83    | 1.24   | 1.28   | .93    | .67   | .27   | .22   | .22   | .56   |
| CAL YR 1987 | TOTAL | 1993926 | MEAN  | 5463   | MAX    | 25200  | MIN    | 944   | CFSM  | 1.05  | IN    | 14.32 |
| WTR YR 1988 | TOTAL | 986112  | MEAN  | 2694   | MAX    | 9620   | MIN    | 879   | CFSM  | .52   | IN    | 7.08  |

## 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 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 13... | 1350 | 1010                                            | 182                                               | 188                                                      | 8.00                           | 7.90                                  | 20.5                                 | 19.0                               | 10.8                                | 120                                                            |
| NOV 11... | 1355 | 977                                             | 185                                               | 189                                                      | 7.40                           | 7.80                                  | 17.5                                 | 12.0                               | 7.4                                 | 77                                                             |
| DEC 08... | 1530 | 1480                                            | 144                                               | 165                                                      | 7.30                           | 7.80                                  | 13.0                                 | 21.5                               | 9.1                                 | 86                                                             |
| JAN 05... | 1640 | 2840                                            | 125                                               | 126                                                      | --                             | 7.50                                  | 10.5                                 | 8.5                                | 9.3                                 | 82                                                             |
| FEB 10... | 0840 | 4280                                            | 100                                               | 96                                                       | 7.20                           | 7.30                                  | 8.5                                  | 2.0                                | 10.4                                | 88                                                             |
| MAR 08... | 1725 | 6190                                            | 87                                                | 82                                                       | 7.10                           | 7.30                                  | 17.0                                 | 21.0                               | 8.2                                 | 84                                                             |
| APR 12... | 1340 | 2630                                            | 133                                               | 131                                                      | 7.60                           | 7.60                                  | 19.0                                 | 11.0                               | 8.0                                 | 88                                                             |
| MAY 03... | 1335 | 5740                                            | 92                                                | 93                                                       | 7.20                           | 7.20                                  | 19.5                                 | 26.5                               | 7.5                                 | 82                                                             |
| JUN 07... | 1335 | 1360                                            | 180                                               | 158                                                      | 8.00                           | 7.80                                  | 27.0                                 | 32.0                               | 4.5                                 | 57                                                             |
| JUL 12... | 1415 | 1000                                            | 194                                               | 186                                                      | 8.10                           | 8.00                                  | 28.0                                 | 35.0                               | 7.0                                 | 89                                                             |
| AUG 09... | 1300 | 936                                             | 218                                               | 207                                                      | 8.20                           | 8.10                                  | 31.0                                 | 33.5                               | 7.7                                 | 104                                                            |
| SEP 14... | 0625 | 3740                                            | 120                                               | 119                                                      | 7.10                           | 7.40                                  | 25.0                                 | 22.5                               | 6.5                                 | 79                                                             |

| DATE      | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 13... | 20                                           | 4.0                          | 0.6                                                            | 50                                               | 65                                                              | <1                                                               | 0.390                                                | 0.060                                                | 0.080                                       | 3.1                                           |
| NOV 11... | 20                                           | 4.0                          | 0.9                                                            | 40                                               | 65                                                              | 6                                                                | 0.630                                                | 0.370                                                | 0.130                                       | 3.6                                           |
| DEC 08... | 30                                           | 7.0                          | 1.2                                                            | <20                                              | 50                                                              | 12                                                               | 0.540                                                | 0.040                                                | 0.080                                       | 3.6                                           |
| JAN 05... | 45                                           | 13                           | 1.1                                                            | 460                                              | 33                                                              | 25                                                               | 0.650                                                | 0.180                                                | 0.110                                       | 4.0                                           |
| FEB 10... | 65                                           | 25                           | 1.0                                                            | 330                                              | 22                                                              | 23                                                               | 0.620                                                | 0.090                                                | 0.260                                       | 5.1                                           |
| MAR 08... | 60                                           | 18                           | 1.4                                                            | 330                                              | 21                                                              | 4                                                                | 0.380                                                | 0.040                                                | 0.070                                       | 9.4                                           |
| APR 12... | 40                                           | 14                           | 1.3                                                            | <20                                              | 43                                                              | 21                                                               | 0.600                                                | <0.020                                               | 0.080                                       | 6.9                                           |
| MAY 03... | 110                                          | 20                           | 0.4                                                            | --                                               | 28                                                              | 13                                                               | 0.280                                                | 0.030                                                | 0.100                                       | 8.9                                           |
| JUN 07... | 20                                           | 9.0                          | 1.0                                                            | --                                               | 56                                                              | 6                                                                | 0.500                                                | 0.030                                                | 0.060                                       | 1.5                                           |
| JUL 12... | 25                                           | 10                           | 1.3                                                            | 50                                               | 66                                                              | 5                                                                | 0.600                                                | 0.050                                                | 0.100                                       | 3.4                                           |
| AUG 09... | 20                                           | 4.0                          | 1.4                                                            | --                                               | 72                                                              | <1                                                               | 0.430                                                | 0.050                                                | 0.090                                       | 4.2                                           |
| SEP 14... | 70                                           | 27                           | 0.7                                                            | 70                                               | 26                                                              | 21                                                               | 0.500                                                | <0.030                                               | 0.250                                       | 7.4                                           |



## ALTAMAHA RIVER BASIN

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 mi<sup>2</sup>.

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 less than 10 ft<sup>3</sup>/s but greater than 1.0 ft<sup>3</sup>/s, which are fair, and those less than 1.0 ft<sup>3</sup>/s, which are poor.

AVERAGE DISCHARGE.--5 years, 45.5 ft<sup>3</sup>/s, 12.56 in/yr.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Mar. 10 | 1500 | 616                               | 8.18                | Apr. 19 | 1545 | *836                              | *8.68               |

Minimum discharge, no flow on many days.

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           | .00   | .00      | .93       | 1.3     | 24      | 46        | 33       | 26     | .07  | 9.6   | .00  | 3.0   |
| 2           | .00   | .00      | .48       | 2.9     | 23      | 41        | 31       | 20     | .03  | 3.6   | .00  | 1.9   |
| 3           | .00   | .00      | .29       | 13      | 23      | 40        | 27       | 15     | .00  | 1.7   | .00  | 1.3   |
| 4           | .00   | .00      | .22       | 19      | 25      | 145       | 28       | 13     | .00  | 2.5   | .00  | 1.2   |
| 5           | .00   | .00      | .19       | 11      | 31      | 246       | 28       | 34     | .00  | 1.7   | .00  | 9.3   |
| 6           | .00   | .00      | .15       | 7.0     | 29      | 226       | 25       | 55     | .00  | .51   | .00  | 5.8   |
| 7           | .00   | .00      | .13       | 6.0     | 25      | 187       | 25       | 63     | .00  | .03   | .00  | 2.4   |
| 8           | .00   | .00      | .08       | 17      | 22      | 113       | 25       | 35     | .00  | .00   | .00  | 2.3   |
| 9           | .00   | .00      | .11       | 17      | 20      | 209       | 21       | 16     | 2.3  | .00   | .00  | 106   |
| 10          | .00   | .00      | .17       | 16      | 17      | 563       | 15       | 15     | 1.7  | .00   | .00  | 68    |
| 11          | .00   | .00      | .25       | 12      | 15      | 439       | 13       | 19     | 1.1  | .01   | .00  | 65    |
| 12          | .00   | .00      | .26       | 9.2     | 16      | 278       | 19       | 11     | .19  | .57   | .00  | 81    |
| 13          | .00   | .00      | .13       | 7.7     | 17      | 179       | 19       | 12     | .05  | .47   | .00  | 31    |
| 14          | .00   | .00      | .06       | 7.1     | 15      | 125       | 16       | 16     | .02  | .02   | .00  | 16    |
| 15          | .00   | .00      | .64       | 6.0     | 17      | 93        | 13       | 11     | .01  | .00   | .00  | 11    |
| 16          | .00   | .00      | 2.3       | 5.5     | 23      | 76        | 9.7      | 7.6    | .00  | .00   | .03  | 8.4   |
| 17          | .00   | .00      | 1.7       | 7.1     | 20      | 66        | 7.6      | 5.9    | .00  | .00   | 2.4  | 7.5   |
| 18          | .00   | 1.6      | 1.3       | 34      | 19      | 71        | 6.4      | 4.7    | .00  | .00   | 1.1  | 15    |
| 19          | .00   | .62      | 1.0       | 96      | 123     | 119       | 516      | 3.6    | .00  | .00   | .29  | 21    |
| 20          | .00   | .12      | .92       | 131     | 281     | 113       | 495      | 2.7    | .00  | .00   | .01  | 14    |
| 21          | .00   | .03      | .93       | 113     | 389     | 91        | 312      | 2.0    | .00  | .00   | .00  | 11    |
| 22          | .00   | .01      | 2.6       | 62      | 305     | 73        | 151      | 1.5    | .00  | .07   | .00  | 7.5   |
| 23          | .00   | .00      | 3.4       | 42      | 216     | 61        | 68       | 1.0    | .00  | 1.3   | .00  | 4.6   |
| 24          | .00   | .00      | 2.7       | 34      | 138     | 56        | 47       | 1.1    | .00  | .89   | .01  | 3.4   |
| 25          | .00   | .00      | 2.3       | 37      | 94      | 53        | 43       | 7.2    | .00  | .10   | .02  | 3.7   |
| 26          | .00   | 1.0      | 2.0       | 48      | 72      | 69        | 136      | 4.4    | .00  | .00   | .00  | 3.9   |
| 27          | .00   | 4.4      | 1.9       | 38      | 61      | 73        | 138      | 2.4    | .00  | .00   | .00  | 3.7   |
| 28          | .00   | 2.5      | 1.8       | 29      | 57      | 66        | 101      | 1.6    | .00  | .00   | .00  | 3.4   |
| 29          | .00   | 1.7      | 1.8       | 26      | 52      | 55        | 68       | .78    | .00  | .00   | .00  | 3.0   |
| 30          | .00   | 1.4      | 1.6       | 24      | ---     | 45        | 37       | .27    | .04  | .00   | .05  | 2.5   |
| 31          | .00   | ---      | 1.3       | 24      | ---     | 38        | ---      | .12    | ---  | .00   | 3.1  | ---   |
| TOTAL       | .00   | 13.38    | 33.64     | 902.8   | 2169    | 4055      | 2473.7   | 407.87 | 5.51 | 23.07 | 7.01 | 517.8 |
| MEAN        | .000  | .45      | 1.09      | 29.1    | 74.8    | 131       | 82.5     | 13.2   | .18  | .74   | .23  | 17.3  |
| MAX         | .00   | 4.4      | 3.4       | 131     | 389     | 563       | 516      | 63     | 2.3  | 9.6   | 3.1  | 106   |
| MIN         | .00   | .00      | .06       | 1.3     | 15      | 38        | 6.4      | .12    | .00  | .00   | .00  | 1.2   |
| CFSM        | .000  | .009     | .02       | .59     | 1.52    | 2.66      | 1.68     | .27    | .004 | .02   | .005 | .35   |
| IN.         | .00   | .01      | .03       | .68     | 1.64    | 3.06      | 1.87     | .31    | .00  | .02   | .01  | .39   |
| CAL YR 1987 | TOTAL | 24587.85 | MEAN 67.4 | MAX 962 | MIN .00 | CFSM 1.37 | IN 18.58 |        |      |       |      |       |
| WTR YR 1988 | TOTAL | 10608.78 | MEAN 29.0 | MAX 563 | MIN .00 | CFSM .59  | IN 8.02  |        |      |       |      |       |

## ALTAMAHA RIVER BASIN

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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 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1987 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,410 ft<sup>3</sup>/s, March 1, 1987, gage height 19.66 ft; minimum daily discharge, 16 ft<sup>3</sup>/s, July 20-21, 1988.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 21 | 0600 | *4,250                            | *14.49              | No other peak greater than base discharge. |      |                                   |                     |

Minimum daily discharge, 16 ft<sup>3</sup>/s, July 20, 21.

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           | 70    | 68    | 124  | 213   | 253   | 212  | 220  | 206  | 80   | 37   | 34   | 28   |
| 2           | 53    | 88    | 118  | 260   | 259   | 214  | 249  | 201  | 77   | 32   | 34   | 24   |
| 3           | 46    | 74    | 110  | 271   | 780   | 214  | 256  | 189  | 73   | 33   | 26   | 22   |
| 4           | 43    | 72    | 109  | 313   | 2130  | 233  | 259  | 188  | 71   | 37   | 22   | 65   |
| 5           | 43    | 73    | 110  | 275   | 2020  | 235  | 251  | 226  | 66   | 48   | 36   | 167  |
| 6           | 44    | 70    | 108  | 232   | 799   | 220  | 228  | 194  | 64   | 51   | 56   | 128  |
| 7           | 45    | 69    | 108  | 218   | 570   | 212  | 231  | 180  | 63   | 43   | 122  | 78   |
| 8           | 43    | 69    | 107  | 226   | 479   | 213  | 209  | 170  | 61   | 37   | 92   | 62   |
| 9           | 43    | 70    | 110  | 235   | 418   | 243  | 200  | 159  | 60   | 31   | 74   | 72   |
| 10          | 44    | 105   | 119  | 210   | 377   | 357  | 196  | 164  | 58   | 29   | 51   | 81   |
| 11          | 45    | 193   | 138  | 197   | 351   | 305  | 201  | 164  | 55   | 26   | 71   | 104  |
| 12          | 45    | 117   | 125  | 190   | 339   | 269  | 727  | 151  | 55   | 28   | 91   | 332  |
| 13          | 45    | 95    | 120  | 204   | 316   | 312  | 694  | 142  | 54   | 26   | 63   | 393  |
| 14          | 46    | 90    | 112  | 258   | 297   | 306  | 433  | 143  | 52   | 24   | 49   | 167  |
| 15          | 45    | 87    | 177  | 235   | 294   | 266  | 356  | 145  | 48   | 22   | 39   | 117  |
| 16          | 48    | 89    | 264  | 214   | 300   | 250  | 314  | 138  | 45   | 21   | 35   | 99   |
| 17          | 49    | 133   | 180  | 255   | 276   | 242  | 281  | 134  | 43   | 33   | 30   | 181  |
| 18          | 48    | 272   | 149  | 781   | 266   | 251  | 299  | 123  | 49   | 24   | 26   | 344  |
| 19          | 46    | 162   | 141  | 623   | 294   | 293  | 486  | 118  | 54   | 19   | 21   | 206  |
| 20          | 46    | 136   | 140  | 1890  | 297   | 263  | 447  | 114  | 56   | 16   | 33   | 158  |
| 21          | 46    | 125   | 151  | 3130  | 274   | 240  | 342  | 110  | 62   | 16   | 47   | 137  |
| 22          | 46    | 112   | 200  | 896   | 253   | 233  | 302  | 107  | 57   | 23   | 84   | 120  |
| 23          | 48    | 108   | 184  | 600   | 248   | 223  | 292  | 104  | 47   | 38   | 70   | 103  |
| 24          | 53    | 109   | 166  | 478   | 247   | 223  | 341  | 111  | 42   | 77   | 65   | 95   |
| 25          | 57    | 108   | 251  | 403   | 237   | 223  | 296  | 126  | 43   | 44   | 61   | 89   |
| 26          | 58    | 122   | 231  | 362   | 228   | 289  | 289  | 116  | 44   | 34   | 48   | 83   |
| 27          | 65    | 208   | 198  | 316   | 229   | 261  | 262  | 102  | 38   | 34   | 38   | 77   |
| 28          | 82    | 172   | 364  | 294   | 234   | 228  | 238  | 96   | 34   | 37   | 33   | 75   |
| 29          | 76    | 149   | 450  | 284   | 222   | 223  | 215  | 97   | 31   | 38   | 28   | 72   |
| 30          | 68    | 132   | 278  | 271   | ---   | 220  | 210  | 91   | 31   | 32   | 26   | 70   |
| 31          | 67    | ---   | 228  | 263   | ---   | 224  | ---  | 84   | ---  | 29   | 25   | ---  |
| TOTAL       | 1603  | 3477  | 5370 | 14597 | 13287 | 7697 | 9324 | 4393 | 1613 | 1019 | 1530 | 3749 |
| MEAN        | 51.7  | 116   | 173  | 471   | 458   | 248  | 311  | 142  | 53.8 | 32.9 | 49.4 | 125  |
| MAX         | 82    | 272   | 450  | 3130  | 2130  | 357  | 727  | 226  | 80   | 77   | 122  | 393  |
| MIN         | 43    | 68    | 107  | 190   | 222   | 212  | 196  | 84   | 31   | 16   | 21   | 22   |
| CFSM        | .15   | .34   | .51  | 1.39  | 1.35  | .73  | .92  | .42  | .16  | .10  | .15  | .37  |
| IN.         | .18   | .38   | .59  | 1.60  | 1.45  | .84  | 1.02 | .48  | .18  | .11  | .17  | .41  |
| WTR YR 1988 | TOTAL | 67659 | MEAN | 185   | MAX   | 3130 | MIN  | 16   | CFSM | .54  | IN   | 7.40 |

## ALTAMAHA RIVER BASIN

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 mi<sup>2</sup>.

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.--54 years (water years 1902, 1930-31, 1938-88), 514 ft<sup>3</sup>/s, 17.54 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 19,600 ft<sup>3</sup>/s, Feb. 28, 1902, gage height, 25.5 ft, site and datum then in use; minimum daily, 8.2 ft<sup>3</sup>/s, Aug. 8, 1986.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Jan. 21 | 1230 | *3,640                            | *9.34               |

Minimum daily discharge, 8.7 ft<sup>3</sup>/s, July 20.

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                 | 72       | 101  | 146  | 231      | 300      | 243     | 250      | 232      | 73   | 40     | 21   | 26   |
| 2                 | 72       | 120  | 134  | 279      | 303      | 240     | 267      | 223      | 73   | 47     | 38   | 24   |
| 3                 | 56       | 106  | 136  | 324      | 669      | 243     | 306      | 197      | 76   | 50     | 45   | 27   |
| 4                 | 54       | 109  | 119  | 355      | 2070     | 255     | 279      | 223      | 80   | 53     | 43   | 114  |
| 5                 | 50       | 94   | 139  | 333      | 2430     | 279     | 289      | 242      | 84   | 74     | 28   | 189  |
| 6                 | 42       | 95   | 133  | 277      | 1010     | 267     | 260      | 235      | 71   | 69     | 37   | 178  |
| 7                 | 42       | 94   | 111  | 260      | 714      | 247     | 265      | 238      | 57   | 58     | 91   | 105  |
| 8                 | 40       | 111  | 133  | 246      | 587      | 235     | 247      | 212      | 46   | 55     | 133  | 74   |
| 9                 | 46       | 99   | 111  | 274      | 512      | 266     | 237      | 200      | 59   | 54     | 90   | 80   |
| 10                | 36       | 140  | 149  | 242      | 454      | 381     | 212      | 175      | 64   | 40     | 91   | 88   |
| 11                | 54       | 236  | 153  | 218      | 421      | 382     | 253      | 200      | 56   | 37     | 79   | 118  |
| 12                | 54       | 184  | 150  | 214      | 394      | 319     | 623      | 196      | 63   | 30     | 86   | 176  |
| 13                | 48       | 125  | 164  | 208      | 390      | 343     | 850      | 173      | 54   | 32     | 84   | 488  |
| 14                | 48       | 131  | 141  | 268      | 369      | 381     | 494      | 173      | 42   | 40     | 59   | 225  |
| 15                | 50       | 104  | 186  | 283      | 364      | 306     | 392      | 167      | 41   | 27     | 46   | 143  |
| 16                | 43       | 124  | 307  | 244      | 367      | 294     | 349      | 159      | 41   | 20     | 35   | 110  |
| 17                | 50       | 148  | 253  | 281      | 343      | 280     | 313      | 154      | 54   | 18     | 25   | 148  |
| 18                | 53       | 296  | 184  | 712      | 326      | 285     | 309      | 138      | 67   | 16     | 19   | 347  |
| 19                | 53       | 246  | 160  | 721      | 351      | 324     | 436      | 126      | 71   | 11     | 20   | 260  |
| 20                | 54       | 169  | 171  | 1460     | 365      | 317     | 504      | 117      | 76   | 8.7    | 18   | 175  |
| 21                | 54       | 179  | 177  | 3190     | 341      | 282     | 380      | 114      | 51   | 10     | 34   | 157  |
| 22                | 53       | 142  | 215  | 1170     | 307      | 273     | 327      | 114      | 48   | 22     | 115  | 144  |
| 23                | 55       | 127  | 231  | 723      | 295      | 259     | 320      | 109      | 69   | 18     | 72   | 122  |
| 24                | 56       | 130  | 193  | 583      | 284      | 256     | 353      | 111      | 62   | 72     | 70   | 104  |
| 25                | 73       | 125  | 234  | 495      | 277      | 262     | 341      | 123      | 101  | 62     | 65   | 104  |
| 26                | 71       | 165  | 291  | 431      | 268      | 311     | 305      | 148      | 105  | 53     | 58   | 91   |
| 27                | 91       | 220  | 243  | 389      | 273      | 322     | 293      | 128      | 70   | 27     | 41   | 91   |
| 28                | 82       | 247  | 304  | 359      | 271      | 268     | 261      | 109      | 58   | 24     | 29   | 90   |
| 29                | 103      | 182  | 517  | 345      | 268      | 247     | 233      | 103      | 51   | 59     | 29   | 89   |
| 30                | 98       | 160  | 335  | 332      | ---      | 235     | 236      | 102      | 44   | 37     | 41   | 81   |
| 31                | 87       | ---  | 256  | 316      | ---      | 245     | ---      | 92       | ---  | 31     | 43   | ---  |
| TOTAL             | 1840     | 4509 | 6176 | 15763    | 15323    | 8847    | 10184    | 5033     | 1907 | 1194.7 | 1685 | 4168 |
| MEAN              | 59.4     | 150  | 199  | 508      | 528      | 285     | 339      | 162      | 63.6 | 38.5   | 54.4 | 139  |
| MAX               | 103      | 296  | 517  | 3190     | 2430     | 382     | 850      | 242      | 105  | 74     | 133  | 488  |
| MIN               | 36       | 94   | 111  | 208      | 268      | 235     | 212      | 92       | 41   | 8.7    | 18   | 24   |
| CFSM              | .15      | .38  | .50  | 1.28     | 1.33     | .72     | .85      | .41      | .16  | .10    | .14  | .35  |
| IN.               | .17      | .42  | .58  | 1.47     | 1.43     | .83     | .95      | .47      | .18  | .11    | .16  | .39  |
| CAL YR 1987 TOTAL | 130639.0 |      |      | MEAN 358 | MAX 6890 | MIN 28  | CFSM .90 | IN 12.21 |      |        |      |      |
| WTR YR 1988 TOTAL | 76629.7  |      |      | MEAN 209 | MAX 3190 | MIN 8.7 | CFSM .53 | IN 7.16  |      |        |      |      |

ALTAMAHA RIVER BASIN

139

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 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT<br>13... | 1330 | 59                                              | 69                                                | 67                                                       | 7.40                           | 7.20                                  | 15.0                                 | 22.0                               | 9.4                                 | 95                                                             |
| NOV<br>09... | 1315 | 103                                             | 72                                                | 68                                                       | 7.30                           | 7.10                                  | 14.0                                 | 25.5                               | 10.1                                | 99                                                             |
| DEC<br>09... | 1000 | 108                                             | 66                                                | 66                                                       | 7.20                           | 7.20                                  | 9.5                                  | 14.0                               | 9.1                                 | 81                                                             |
| JAN<br>12... | 1450 | 194                                             | 64                                                | 64                                                       | 7.20                           | 7.20                                  | 3.0                                  | 13.0                               | 10.0                                | 75                                                             |
| FEB<br>09... | 1515 | 283                                             | 53                                                | 54                                                       | 7.10                           | 6.90                                  | 7.0                                  | 15.0                               | 10.3                                | 86                                                             |
| MAR<br>08... | 1545 | 191                                             | 61                                                | 57                                                       | 7.30                           | 7.30                                  | 12.5                                 | 22.0                               | 9.9                                 | 94                                                             |
| APR<br>19... | 1545 | 353                                             | 60                                                | 60                                                       | 7.10                           | 7.10                                  | 18.5                                 | 25.5                               | 8.3                                 | 91                                                             |
| MAY<br>11... | 1430 | 107                                             | 62                                                | 65                                                       | 7.40                           | 7.30                                  | 20.5                                 | 29.5                               | 8.0                                 | 90                                                             |
| JUN<br>15... | 1610 | 31                                              | 69                                                | 67                                                       | 7.30                           | 7.40                                  | 23.0                                 | 31.0                               | 8.4                                 | 99                                                             |
| AUG<br>09... | 1340 | --                                              | 65                                                | 62                                                       | 7.00                           | 7.20                                  | 27.0                                 | 31.0                               | 6.7                                 | 84                                                             |
| SEP<br>13... | 1400 | 206                                             | 65                                                | 60                                                       | 7.20                           | 7.00                                  | 24.0                                 | 28.0                               | 7.3                                 | 88                                                             |

| DATE         | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT<br>13... | 10                           | 1.4                                                            | 130                                              | 26                                                            | 2                                                                 | 0.200                                                | 0.080                                                | 0.030                                       | 2.1                                           |
| NOV<br>09... | 4.0                          | 1.2                                                            | 70                                               | 27                                                            | 5                                                                 | <0.020                                               | 0.190                                                | --                                          | 2.7                                           |
| DEC<br>09... | 7.0                          | 2.1                                                            | 80                                               | 25                                                            | 2                                                                 | 0.270                                                | 0.090                                                | 0.060                                       | 2.6                                           |
| JAN<br>12... | 7.0                          | 1.0                                                            | 490                                              | 23                                                            | 3                                                                 | 0.440                                                | 0.360                                                | 0.030                                       | 1.6                                           |
| FEB<br>09... | 22                           | 0.8                                                            | 490                                              | 16                                                            | 11                                                                | 0.540                                                | 0.060                                                | 0.040                                       | 3.2                                           |
| MAR<br>08... | 12                           | 0.8                                                            | --                                               | 23                                                            | 5                                                                 | 0.310                                                | 0.100                                                | <0.020                                      | 2.0                                           |
| APR<br>19... | 25                           | 1.2                                                            | 6300                                             | 21                                                            | 24                                                                | 0.320                                                | 0.020                                                | 0.060                                       | 3.8                                           |
| MAY<br>11... | 14                           | 0.1                                                            | 50                                               | 26                                                            | 11                                                                | 0.390                                                | 0.060                                                | 0.030                                       | 1.7                                           |
| JUN<br>15... | 15                           | 1.3                                                            | 70                                               | 27                                                            | 3                                                                 | 0.260                                                | 0.120                                                | <0.020                                      | 1.4                                           |
| AUG<br>09... | 38                           | 1.7                                                            | 110                                              | 24                                                            | 10                                                                | 0.240                                                | 0.070                                                | 0.040                                       | 4.8                                           |
| SEP<br>13... | 25                           | 1.2                                                            | --                                               | 20                                                            | 20                                                                | 0.260                                                | 0.050                                                | 0.120                                       | 4.1                                           |

## 02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.

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

DRAINAGE AREA.--783 mi<sup>2</sup>.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1245 | 120                                             | 109                                               | 104                                                      | 7.20                           | 7.00                                  | 14.5                                 | 21.0                               | 9.2                                 | 91                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1215 | 265                                             | 105                                               | 100                                                      | 7.20                           | 7.00                                  | 13.0                                 | 28.5                               | 10.2                                | 98                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0915 | 267                                             | 100                                               | 97                                                       | 7.20                           | 7.10                                  | 9.0                                  | 14.0                               | 9.4                                 | 82                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1400 | 405                                             | 82                                                | 80                                                       | 7.20                           | 7.10                                  | 2.5                                  | 13.5                               | 12.9                                | 95                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1430 | 1030                                            | 61                                                | 61                                                       | 7.10                           | 6.90                                  | 5.5                                  | 15.0                               | 12.1                                | 97                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1645 | 290                                             | 81                                                | 76                                                       | 7.20                           | 7.30                                  | 13.0                                 | 21.5                               | 9.8                                 | 94                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1500 | 800                                             | 68                                                | 68                                                       | 6.90                           | 7.10                                  | 18.5                                 | 25.0                               | 8.3                                 | 91                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 11... | 1330 | 245                                             | 91                                                | 95                                                       | 7.20                           | 7.20                                  | 20.5                                 | 29.5                               | 7.8                                 | 88                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1410 | 105                                             | 135                                               | 134                                                      | 7.20                           | 7.20                                  | 24.0                                 | 30.0                               | 8.1                                 | 97                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1240 | --                                              | 135                                               | 134                                                      | 7.10                           | 7.30                                  | 26.5                                 | 30.0                               | 6.7                                 | 84                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1240 | --                                              | 133                                               | 128                                                      | 6.80                           | 7.10                                  | 28.0                                 | 30.0                               | 6.0                                 | 77                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1315 | 720                                             | 94                                                | 85                                                       | 7.10                           | 7.00                                  | 27.0                                 | 27.5                               | 6.9                                 | 88                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>5 DAY<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
| OCT   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 13... | 10                           | --                                                             | 2.4                                                            | 490                                                       | 24                                                              | 1                                                                |
| NOV   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 09... | 7.0                          | --                                                             | 1.7                                                            | 330                                                       | 28                                                              | 9                                                                |
| DEC   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 09... | 14                           | --                                                             | 3.0                                                            | 4900                                                      | 22                                                              | 12                                                               |
| JAN   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 12... | 10                           | --                                                             | 1.2                                                            | 80                                                        | 23                                                              | 7                                                                |
| FEB   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 09... | 30                           | --                                                             | 1.2                                                            | 700                                                       | 17                                                              | 23                                                               |
| MAR   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 08... | 12                           | --                                                             | 1.2                                                            | --                                                        | 20                                                              | 7                                                                |
| APR   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 19... | 30                           | --                                                             | 1.3                                                            | 2300                                                      | 19                                                              | 42                                                               |
| MAY   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 11... | 11                           | --                                                             | 1.0                                                            | 80                                                        | 23                                                              | 2                                                                |
| JUN   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 15... | 6.0                          | --                                                             | 1.3                                                            | 70                                                        | 24                                                              | 1                                                                |
| JUL   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 13... | 6.0                          | 9                                                              | 1.3                                                            | 3300                                                      | 26                                                              | 3                                                                |
| AUG   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 09... | 32                           | 14                                                             | 1.6                                                            | 170                                                       | 25                                                              | 16                                                               |
| SEP   |                              |                                                                |                                                                |                                                           |                                                                 |                                                                  |
| 13... | 140                          | 27                                                             | 1.7                                                            | --                                                        | 22                                                              | 196                                                              |



02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT<br>13... | 1.88                                                 | 0.200                                                | --                                                   | --                                                                 | --                                        | 0.450                                       | 3.3                                           |
| NOV<br>09... | 1.14                                                 | <0.020                                               | --                                                   | --                                                                 | --                                        | 0.320                                       | 3.7                                           |
| DEC<br>09... | 1.41                                                 | 0.340                                                | --                                                   | --                                                                 | --                                        | 0.300                                       | 3.1                                           |
| JAN<br>12... | 0.860                                                | 0.580                                                | --                                                   | --                                                                 | --                                        | 0.190                                       | 2.7                                           |
| FEB<br>09... | 0.810                                                | 0.220                                                | --                                                   | --                                                                 | --                                        | 0.260                                       | 3.3                                           |
| MAR<br>08... | 1.12                                                 | 0.450                                                | --                                                   | --                                                                 | --                                        | 0.200                                       | 2.4                                           |
| APR<br>19... | 0.700                                                | 0.020                                                | --                                                   | --                                                                 | --                                        | 0.150                                       | 3.1                                           |
| MAY<br>11... | 1.38                                                 | 0.260                                                | --                                                   | --                                                                 | --                                        | 0.190                                       | 1.9                                           |
| JUN<br>15... | 2.94                                                 | 0.270                                                | --                                                   | --                                                                 | --                                        | 0.500                                       | 2.2                                           |
| JUL<br>13... | 1.10                                                 | 0.150                                                | 0.35                                                 | 0.50                                                               | 1.6                                       | 0.480                                       | 3.2                                           |
| AUG<br>09... | 2.35                                                 | 0.220                                                | 0.58                                                 | 0.80                                                               | 3.1                                       | 0.480                                       | --                                            |
| SEP<br>13... | 0.990                                                | 0.080                                                | 0.92                                                 | 1.0                                                                | 2.0                                       | 0.530                                       | 7.5                                           |

## ALTAMAHA RIVER BASIN

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 mi<sup>2</sup>.

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.--11 years, 1,136 ft<sup>3</sup>/s, 16.41 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft<sup>3</sup>/s, Mar. 16, 1976, gage height, 22.11 ft; minimum daily discharge, 33 ft<sup>3</sup>/s, Aug. 26, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1936, reached a stage of 26.7 ft, discharge, 41,500 ft<sup>3</sup>/s, from rating curve extended above 21,000 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Jan. 22 | 0900 | 5,680                             | 13.29               | Feb. 5 | 0700 | *6,190                            | *13.76              |

Minimum daily discharge, 48 ft<sup>3</sup>/s, July 22.

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           | 158   | 216    | 364      | 608   | 765   | 643    | 609      | 519      | 205  | 117  | 79   | 159  |
| 2           | 174   | 218    | 336      | 697   | 752   | 615    | 607      | 503      | 193  | 98   | 80   | 95   |
| 3           | 181   | 240    | 311      | 810   | 948   | 616    | 640      | 485      | 181  | 103  | 128  | 93   |
| 4           | 155   | 235    | 316      | 1030  | 3640  | 629    | 695      | 485      | 171  | 108  | 116  | 215  |
| 5           | 152   | 246    | 300      | 914   | 6000  | 641    | 670      | 509      | 175  | 116  | 113  | 826  |
| 6           | 146   | 231    | 301      | 780   | 4020  | 639    | 669      | 527      | 162  | 135  | 170  | 548  |
| 7           | 139   | 233    | 292      | 695   | 2030  | 617    | 628      | 487      | 154  | 138  | 121  | 410  |
| 8           | 132   | 225    | 294      | 691   | 1520  | 599    | 599      | 442      | 144  | 129  | 178  | 248  |
| 9           | 132   | 236    | 295      | 662   | 1290  | 617    | 568      | 424      | 137  | 110  | 207  | 227  |
| 10          | 139   | 391    | 315      | 662   | 1150  | 756    | 549      | 418      | 133  | 105  | 175  | 262  |
| 11          | 131   | 490    | 354      | 628   | 1050  | 901    | 550      | 400      | 131  | 90   | 170  | 257  |
| 12          | 148   | 462    | 374      | 597   | 989   | 799    | 1310     | 403      | 133  | 93   | 185  | 303  |
| 13          | 154   | 389    | 354      | 601   | 936   | 801    | 1690     | 389      | 131  | 89   | 214  | 581  |
| 14          | 155   | 310    | 333      | 668   | 885   | 853    | 1460     | 366      | 118  | 84   | 189  | 660  |
| 15          | 148   | 279    | 410      | 708   | 892   | 778    | 1070     | 357      | 107  | 84   | 152  | 404  |
| 16          | 154   | 275    | 562      | 685   | 872   | 691    | 865      | 351      | 104  | 72   | 111  | 273  |
| 17          | 144   | 380    | 615      | 673   | 854   | 656    | 761      | 349      | 107  | 62   | 118  | 266  |
| 18          | 149   | 537    | 497      | 1400  | 793   | 656    | 765      | 338      | 146  | 57   | 74   | 428  |
| 19          | 158   | 612    | 411      | 1840  | 855   | 746    | 955      | 315      | 178  | 74   | 73   | 641  |
| 20          | 164   | 488    | 381      | 3210  | 886   | 759    | 1110     | 297      | 151  | 64   | 53   | 482  |
| 21          | 153   | 379    | 397      | 4580  | 843   | 707    | 998      | 280      | 144  | 55   | 58   | 349  |
| 22          | 161   | 343    | 564      | 5250  | 781   | 647    | 807      | 276      | 123  | 48   | 124  | 290  |
| 23          | 158   | 316    | 575      | 2690  | 749   | 620    | 760      | 282      | 113  | 78   | 214  | 257  |
| 24          | 159   | 305    | 521      | 1560  | 740   | 609    | 854      | 272      | 125  | 91   | 185  | 227  |
| 25          | 164   | 300    | 468      | 1280  | 711   | 632    | 806      | 294      | 139  | 174  | 161  | 192  |
| 26          | 180   | 309    | 560      | 1100  | 685   | 804    | 776      | 314      | 307  | 161  | 135  | 178  |
| 27          | 196   | 390    | 596      | 976   | 669   | 774    | 704      | 299      | 247  | 114  | 120  | 166  |
| 28          | 235   | 480    | 616      | 891   | 652   | 709    | 635      | 265      | 171  | 82   | 101  | 163  |
| 29          | 228   | 469    | 876      | 837   | 655   | 635    | 582      | 238      | 130  | 86   | 84   | 152  |
| 30          | 243   | 404    | 970      | 805   | ---   | 617    | 541      | 239      | 118  | 110  | 92   | 140  |
| 31          | 227   | ---    | 718      | 784   | ---   | 604    | ---      | 225      | ---  | 92   | 169  | ---  |
| TOTAL       | 5117  | 10388  | 14276    | 39312 | 37612 | 21370  | 24233    | 11348    | 4578 | 3019 | 4149 | 9492 |
| MEAN        | 165   | 346    | 461      | 1268  | 1297  | 689    | 808      | 366      | 153  | 97.4 | 134  | 316  |
| MAX         | 243   | 612    | 970      | 5250  | 6000  | 901    | 1690     | 527      | 307  | 174  | 214  | 826  |
| MIN         | 131   | 216    | 292      | 597   | 652   | 599    | 541      | 225      | 104  | 48   | 53   | 93   |
| CFSM        | .18   | .37    | .49      | 1.35  | 1.38  | .73    | .86      | .39      | .16  | .10  | .14  | .34  |
| IN.         | .20   | .41    | .56      | 1.56  | 1.49  | .85    | .96      | .45      | .18  | .12  | .16  | .38  |
| CAL YR 1987 | TOTAL | 330622 | MEAN 906 | MAX   | 12200 | MIN 85 | CFSM .96 | IN 13.08 |      |      |      |      |
| WTR YR 1988 | TOTAL | 184894 | MEAN 505 | MAX   | 6000  | MIN 48 | CFSM .54 | IN 7.32  |      |      |      |      |

## 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 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--November 1969 to June 1988 (discontinued).

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 1987 TO SEPTEMBER 1988

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| DEC<br>08... | 1330 | 93                                                | 95                                                       | 7.50                           | 7.40                                  | 9.5                                  | 15.5                               | 10.8                                | 95                                                             |
| MAR<br>08... | 1740 | 72                                                | 72                                                       | 7.50                           | 7.50                                  | 13.0                                 | 21.0                               | 9.6                                 | 92                                                             |
| JUN<br>14... | 1410 | 87                                                | 85                                                       | 8.70                           | 8.70                                  | 28.0                                 | 29.5                               | 9.9                                 | 127                                                            |

| DATE         | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| DEC<br>08... | 20                           | 4.7                                                            | 50                                               | 26                                                              | 0.770                                                | 0.090                                                | 0.090                                       | 4.5                                           |
| MAR<br>08... | 19                           | 1.6                                                            | --                                               | 20                                                              | 0.800                                                | 0.120                                                | 0.090                                       | 2.8                                           |
| JUN<br>14... | 10                           | 1.0                                                            | <20                                              | 28                                                              | 0.030                                                | 0.060                                                | 0.080                                       | 4.0                                           |

## ALTAMAHA RIVER BASIN

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 mi<sup>2</sup>.

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.--16 years (water years 1945-49, 1978-88), 232 ft<sup>3</sup>/s, 17.90 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft<sup>3</sup>/s, Jan. 6, 1946, gage height, 8.9 ft; minimum daily discharge 7.5 ft<sup>3</sup>/s, Aug. 10, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Jan. 20 | 1000 | *972                              | *3.54               |

Minimum daily discharge, 14 ft<sup>3</sup>/s, July 21.

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           | 29    | 50    | 74   | 111  | 137  | 117  | 117  | 94   | 40   | 23   | 19   | 31    |
| 2           | 28    | 47    | 70   | 141  | 139  | 116  | 121  | 91   | 39   | 21   | 18   | 28    |
| 3           | 27    | 47    | 67   | 173  | 185  | 116  | 123  | 88   | 36   | 21   | 23   | 25    |
| 4           | 26    | 48    | 65   | 214  | 647  | 120  | 130  | 86   | 32   | 22   | 18   | 56    |
| 5           | 26    | 50    | 65   | 186  | 793  | 123  | 125  | 95   | 31   | 26   | 19   | 171   |
| 6           | 25    | 50    | 62   | 151  | 576  | 118  | 116  | 92   | 30   | 31   | 21   | 128   |
| 7           | 24    | 49    | 62   | 137  | 322  | 115  | 113  | 85   | 29   | 29   | 38   | 77    |
| 8           | 24    | 48    | 62   | 136  | 242  | 112  | 111  | 79   | 27   | 26   | 42   | 47    |
| 9           | 25    | 49    | 62   | 138  | 209  | 118  | 106  | 75   | 27   | 23   | 32   | 43    |
| 10          | 26    | 96    | 66   | 121  | 188  | 152  | 102  | 75   | 27   | 20   | 25   | 54    |
| 11          | 30    | 98    | 75   | 118  | 175  | 163  | 110  | 74   | 27   | 20   | 32   | 68    |
| 12          | 27    | 87    | 75   | 114  | 168  | 145  | 350  | 70   | 27   | 21   | 31   | 125   |
| 13          | 28    | 70    | 68   | 119  | 158  | 154  | 356  | 67   | 26   | 22   | 36   | 200   |
| 14          | 28    | 63    | 66   | 141  | 151  | 170  | 264  | 65   | 25   | 21   | 33   | 142   |
| 15          | 31    | 59    | 92   | 138  | 150  | 148  | 190  | 59   | 23   | 19   | 27   | 99    |
| 16          | 31    | 59    | 133  | 127  | 153  | 133  | 160  | 63   | 18   | 18   | 24   | 73    |
| 17          | 31    | 84    | 119  | 141  | 144  | 127  | 137  | 63   | 28   | 17   | 21   | 75    |
| 18          | 32    | 107   | 92   | 317  | 137  | 128  | 145  | 60   | 34   | 16   | 19   | 121   |
| 19          | 33    | 106   | 77   | 327  | 155  | 153  | 188  | 57   | 30   | 15   | 26   | 128   |
| 20          | 32    | 85    | 80   | 733  | 163  | 148  | 203  | 53   | 47   | 15   | 17   | 102   |
| 21          | 29    | 77    | 82   | 737  | 150  | 135  | 167  | 51   | 42   | 14   | 16   | 113   |
| 22          | 31    | 70    | 128  | 622  | 138  | 128  | 140  | 50   | 33   | 15   | 22   | 98    |
| 23          | 32    | 65    | 132  | 332  | 135  | 123  | 130  | 51   | 30   | 15   | 30   | 74    |
| 24          | 34    | 64    | 110  | 239  | 147  | 121  | 137  | 52   | 27   | 15   | 48   | 61    |
| 25          | 38    | 70    | 97   | 207  | 138  | 129  | 136  | 56   | 28   | 16   | 55   | 54    |
| 26          | 39    | 77    | 99   | 185  | 123  | 155  | 129  | 55   | 31   | 18   | 43   | 51    |
| 27          | 43    | 105   | 96   | 169  | 120  | 143  | 124  | 51   | 28   | 18   | 32   | 47    |
| 28          | 49    | 105   | 121  | 157  | 120  | 129  | 113  | 47   | 25   | 19   | 27   | 44    |
| 29          | 53    | 87    | 167  | 150  | 118  | 121  | 103  | 45   | 22   | 29   | 24   | 42    |
| 30          | 52    | 79    | 150  | 145  | ---  | 118  | 97   | 44   | 22   | 28   | 22   | 39    |
| 31          | 50    | ---   | 121  | 141  | ---  | 119  | ---  | 41   | ---  | 22   | 27   | ---   |
| TOTAL       | 1013  | 2151  | 2835 | 6867 | 6181 | 4097 | 4543 | 2034 | 891  | 635  | 867  | 2416  |
| MEAN        | 32.7  | 71.7  | 91.5 | 222  | 213  | 132  | 151  | 65.6 | 29.7 | 20.5 | 28.0 | 80.5  |
| MAX         | 53    | 107   | 167  | 737  | 793  | 170  | 356  | 95   | 47   | 31   | 55   | 200   |
| MIN         | 24    | 47    | 62   | 111  | 118  | 112  | 97   | 41   | 18   | 14   | 16   | 25    |
| CFSM        | .19   | .41   | .52  | 1.26 | 1.21 | .75  | .86  | .37  | .17  | .12  | .16  | .46   |
| IN.         | .21   | .45   | .60  | 1.45 | 1.31 | .87  | .96  | .43  | .19  | .13  | .18  | .51   |
| CAL YR 1987 | TOTAL | 63517 | MEAN | 174  | MAX  | 2680 | MIN  | 24   | CFSM | .99  | IN   | 13.43 |
| WTR YR 1988 | TOTAL | 34530 | MEAN | 94.3 | MAX  | 793  | MIN  | 14   | CFSM | .54  | IN   | 7.30  |

## 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 Gladys Creek, and 3.0 mi west of Eatonton.

DRAINAGE AREA.--262 mi<sup>2</sup>.

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 and Aug. 2, 1977 to Aug. 25, 1987, water-stage recorder at same site and datum 4.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 12-18. Records good, except those for periods of estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--11 years, 210 ft<sup>3</sup>/s, 10.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft<sup>3</sup>/s, Mar. 3, 1971, gage height, 24.4 ft; minimum daily discharge, 1.9 ft<sup>3</sup>/s, Aug. 4, 1988, 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 ft<sup>3</sup>/s and maximum (\*):

| Date                                                     | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|----------------------------------------------------------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Feb. 5                                                   | 0800 | *2,760                            | *14.05              | No other peak greater than base discharge. |      |                                   |                     |
| Minimum daily discharge, 1.9 ft <sup>3</sup> /s, Aug. 4. |      |                                   |                     |                                            |      |                                   |                     |

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           | 7.1   | 12      | 46       | 71       | 128     | 121      | 122     | 159  | 36   | 42    | 4.9   | 5.5    |
| 2           | 6.7   | 12      | 42       | 95       | 125     | 120      | 119     | 142  | 34   | 25    | 4.4   | 5.0    |
| 3           | 6.6   | 13      | 39       | 147      | 218     | 119      | 119     | 127  | 32   | 22    | 2.6   | 4.3    |
| 4           | 6.0   | 13      | 38       | 228      | 1460    | 130      | 123     | 118  | 30   | 22    | 1.9   | 7.3    |
| 5           | 5.8   | 13      | 36       | 198      | 2430    | 136      | 122     | 117  | 29   | 22    | 5.4   | 36     |
| 6           | 5.8   | 14      | 36       | 144      | 1350    | 128      | 115     | 110  | 30   | 20    | 9.2   | 112    |
| 7           | 5.4   | 14      | 34       | 118      | 555     | 122      | 111     | 100  | 30   | 19    | 7.7   | 84     |
| 8           | 4.9   | 14      | 34       | 119      | 389     | 124      | 102     | 92   | 27   | 16    | 27    | 46     |
| 9           | 4.8   | 15      | 36       | 113      | 309     | 131      | 96      | 85   | 28   | 13    | 28    | 40     |
| 10          | 4.4   | 18      | 37       | 102      | 260     | 185      | 92      | 87   | 33   | 11    | 14    | 45     |
| 11          | 4.3   | 22      | 41       | 103      | 226     | 190      | 100     | 94   | 37   | 9.9   | 19    | 56     |
| 12          | 4.5   | 26      | 45       | 104      | 203     | 163      | 320     | 91   | 29   | 24    | 11    | 82     |
| 13          | 4.8   | 24      | 44       | 144      | 185     | 152      | 322     | 82   | 25   | 34    | 8.4   | 92     |
| 14          | 4.8   | 22      | 42       | 173      | 172     | 145      | 212     | 85   | 22   | 24    | 7.1   | 69     |
| 15          | 4.7   | 19      | 48       | 167      | 168     | 134      | 163     | 79   | 19   | 20    | 11    | 47     |
| 16          | 4.4   | 40      | 67       | 150      | 166     | 124      | 138     | 74   | 17   | 17    | 13    | 37     |
| 17          | 5.4   | 70      | 73       | 168      | 157     | 119      | 121     | 79   | 17   | 13    | 9.2   | 78     |
| 18          | 5.4   | 150     | 63       | 451      | 150     | 123      | 145     | 74   | 18   | 11    | 7.0   | 167    |
| 19          | 5.3   | 120     | 53       | 473      | 178     | 161      | 490     | 65   | 17   | 13    | 5.4   | 110    |
| 20          | 5.3   | 74      | 50       | 1010     | 202     | 162      | 378     | 57   | 15   | 16    | 4.5   | 76     |
| 21          | 5.2   | 53      | 54       | 1250     | 180     | 143      | 239     | 53   | 15   | 11    | 4.0   | 57     |
| 22          | 4.3   | 42      | 97       | 865      | 159     | 133      | 183     | 50   | 14   | 8.5   | 4.0   | 45     |
| 23          | 3.8   | 36      | 117      | 408      | 149     | 126      | 161     | 49   | 13   | 8.1   | 4.3   | 38     |
| 24          | 4.3   | 34      | 97       | 287      | 145     | 123      | 461     | 54   | 13   | 8.6   | 4.5   | 34     |
| 25          | 4.9   | 35      | 79       | 248      | 137     | 139      | 668     | 58   | 12   | 7.6   | 6.8   | 32     |
| 26          | 5.9   | 39      | 70       | 226      | 131     | 221      | 692     | 67   | 17   | 6.4   | 8.4   | 30     |
| 27          | 7.7   | 56      | 66       | 187      | 129     | 189      | 555     | 62   | 18   | 5.9   | 13    | 28     |
| 28          | 9.7   | 63      | 77       | 161      | 128     | 156      | 325     | 51   | 21   | 5.3   | 13    | 25     |
| 29          | 11    | 60      | 101      | 147      | 126     | 139      | 226     | 46   | 16   | 3.6   | 13    | 24     |
| 30          | 11    | 52      | 100      | 138      | ---     | 130      | 182     | 42   | 23   | 3.1   | 10    | 22     |
| 31          | 12    | ---     | 79       | 135      | ---     | 125      | ---     | 39   | ---  | 4.7   | 6.8   | ---    |
| TOTAL       | 186.2 | 1175    | 1841     | 8330     | 10315   | 4413     | 7202    | 2488 | 687  | 466.7 | 288.5 | 1534.1 |
| MEAN        | 6.01  | 39.2    | 59.4     | 269      | 356     | 142      | 240     | 80.3 | 22.9 | 15.1  | 9.31  | 51.1   |
| MAX         | 12    | 150     | 117      | 1250     | 2430    | 221      | 692     | 159  | 37   | 42    | 28    | 167    |
| MIN         | 3.8   | 12      | 34       | 71       | 125     | 119      | 92      | 39   | 12   | 3.1   | 1.9   | 4.3    |
| CFSM        | .02   | .15     | .23      | 1.03     | 1.36    | .54      | .92     | .31  | .09  | .06   | .04   | .20    |
| IN.         | .03   | .17     | .26      | 1.18     | 1.46    | .63      | 1.02    | .35  | .10  | .07   | .04   | .22    |
| CAL YR 1987 | TOTAL | 62566.9 | MEAN 171 | MAX 2720 | MIN 3.8 | CFSM .65 | IN 8.88 |      |      |       |       |        |
| WTR YR 1988 | TOTAL | 38926.5 | MEAN 106 | MAX 2430 | MIN 1.9 | CFSM .41 | IN 5.53 |      |      |       |       |        |



## ALTAHAHA RIVER BASIN

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 mi<sup>2</sup>

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.--No estimated daily discharges. Records good. Some diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--11 years, 150 ft<sup>3</sup>/s, 10.72 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,700 ft<sup>3</sup>/s, Apr. 9, 1983, gage height, 9.67 ft; minimum daily discharge 2.1 ft<sup>3</sup>/s, Aug. 6, 1986.

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

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|
| Feb. 6 | 0145 | *1,480                            | *4.24               |

Minimum daily discharge, 3.6 ft<sup>3</sup>/s, Aug. 22.

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           | 11    | 28      | 34   | 50   | 102  | 90   | 113  | 86   | 36   | 62    | 5.5   | 6.0    |
| 2           | 12    | 29      | 32   | 68   | 97   | 88   | 111  | 81   | 34   | 29    | 5.7   | 6.3    |
| 3           | 9.3   | 30      | 31   | 108  | 158  | 87   | 111  | 77   | 32   | 20    | 5.5   | 6.9    |
| 4           | 7.6   | 31      | 31   | 166  | 697  | 98   | 110  | 74   | 31   | 19    | 6.1   | 11     |
| 5           | 7.9   | 33      | 31   | 130  | 1130 | 103  | 107  | 75   | 29   | 20    | 6.4   | 59     |
| 6           | 7.0   | 35      | 30   | 99   | 983  | 93   | 101  | 70   | 27   | 18    | 9.5   | 79     |
| 7           | 7.3   | 35      | 30   | 87   | 316  | 91   | 100  | 66   | 26   | 16    | 11    | 33     |
| 8           | 6.8   | 35      | 30   | 91   | 225  | 90   | 93   | 63   | 26   | 13    | 11    | 21     |
| 9           | 6.4   | 38      | 31   | 91   | 183  | 98   | 88   | 60   | 27   | 11    | 7.3   | 24     |
| 10          | 6.2   | 40      | 32   | 81   | 158  | 151  | 87   | 62   | 26   | 9.8   | 5.7   | 46     |
| 11          | 6.1   | 42      | 34   | 87   | 143  | 162  | 90   | 69   | 31   | 9.9   | 7.9   | 40     |
| 12          | 7.5   | 46      | 35   | 87   | 133  | 130  | 188  | 62   | 24   | 17    | 8.7   | 36     |
| 13          | 7.5   | 35      | 33   | 90   | 122  | 130  | 157  | 60   | 22   | 29    | 13    | 59     |
| 14          | 7.1   | 32      | 33   | 114  | 115  | 121  | 120  | 71   | 19   | 22    | 9.2   | 39     |
| 15          | 7.2   | 32      | 39   | 104  | 114  | 110  | 105  | 63   | 17   | 18    | 8.0   | 28     |
| 16          | 8.2   | 33      | 53   | 91   | 116  | 104  | 95   | 60   | 16   | 23    | 7.6   | 23     |
| 17          | 8.6   | 73      | 46   | 95   | 108  | 101  | 89   | 67   | 16   | 16    | 7.4   | 51     |
| 18          | 9.1   | 119     | 38   | 242  | 104  | 103  | 110  | 67   | 16   | 12    | 5.9   | 158    |
| 19          | 10    | 64      | 36   | 241  | 127  | 145  | 343  | 58   | 16   | 10    | 5.0   | 90     |
| 20          | 11    | 42      | 36   | 608  | 144  | 131  | 287  | 54   | 20   | 9.0   | 4.2   | 57     |
| 21          | 10    | 35      | 41   | 914  | 122  | 115  | 174  | 51   | 15   | 8.6   | 3.7   | 44     |
| 22          | 9.9   | 31      | 73   | 513  | 110  | 110  | 137  | 50   | 13   | 7.1   | 3.6   | 35     |
| 23          | 8.9   | 29      | 81   | 236  | 105  | 107  | 120  | 50   | 11   | 8.5   | 5.0   | 29     |
| 24          | 11    | 29      | 58   | 178  | 103  | 105  | 158  | 54   | 11   | 10    | 23    | 26     |
| 25          | 13    | 29      | 52   | 160  | 98   | 117  | 136  | 56   | 10   | 8.4   | 24    | 28     |
| 26          | 17    | 32      | 49   | 153  | 95   | 285  | 154  | 60   | 18   | 7.1   | 18    | 27     |
| 27          | 20    | 44      | 48   | 126  | 93   | 180  | 155  | 52   | 25   | 6.4   | 11    | 23     |
| 28          | 23    | 44      | 60   | 114  | 93   | 142  | 119  | 46   | 22   | 8.1   | 7.5   | 22     |
| 29          | 27    | 38      | 83   | 109  | 91   | 127  | 99   | 43   | 14   | 9.4   | 6.5   | 21     |
| 30          | 28    | 36      | 63   | 104  | ---  | 120  | 90   | 40   | 26   | 6.5   | 5.7   | 19     |
| 31          | 27    | ---     | 53   | 104  | ---  | 116  | ---  | 38   | ---  | 6.7   | 5.8   | ---    |
| TOTAL       | 358.6 | 1199    | 1356 | 5441 | 6185 | 3750 | 3947 | 1885 | 656  | 470.5 | 264.4 | 1147.2 |
| MEAN        | 11.6  | 40.0    | 43.7 | 176  | 213  | 121  | 132  | 60.8 | 21.9 | 15.2  | 8.53  | 38.2   |
| MAX         | 28    | 119     | 83   | 914  | 1130 | 285  | 343  | 86   | 36   | 62    | 24    | 158    |
| MIN         | 6.1   | 28      | 30   | 50   | 91   | 87   | 87   | 38   | 10   | 6.4   | 3.6   | 6.0    |
| CFSM        | .06   | .21     | .23  | .93  | 1.12 | .64  | .70  | .32  | .12  | .08   | .05   | .20    |
| IN.         | .07   | .23     | .27  | 1.07 | 1.21 | .73  | .77  | .37  | .13  | .09   | .05   | .22    |
| CAL YR 1987 | TOTAL | 45934.2 | MEAN | 126  | MAX  | 1840 | MIN  | 6.1  | CFSM | .66   | IN    | 8.99   |
| WTR YR 1988 | TOTAL | 26659.7 | MEAN | 72.8 | MAX  | 1130 | MIN  | 3.6  | CFSM | .38   | IN    | 5.22   |

## ALTAMAHA RIVER BASIN

147

## 02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.

LOCATION.--Lat 33°05'22", long 83°12'56", Baldwin County, Hydrologic Unit 03070102 (revised), 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 mi<sup>2</sup>, 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.--Estimated daily discharges: Dec. 30 to Jan. 15, Jan. 22 to Feb. 19, and Mar. 12-31. Records good, except for periods of estimated daily discharges, which are poor. 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.--85 years, 3,280 ft<sup>3</sup>/s, 15.10 in/yr, adjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122,000 ft<sup>3</sup>/s, Feb. 25, 1961, gage height, 42.9 ft, from rating curve extended above 77,000 ft<sup>3</sup>/s; minimum daily discharge, 90 ft<sup>3</sup>/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 furnished by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,000 ft<sup>3</sup>/s, Feb. 6, gage height, 21.33 ft; minimum daily discharge, 409 ft<sup>3</sup>/s, Oct. 5-6.

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     | 443   | 550   | 480   | 570   | 1400  | 1110  | 1370  | 1470  | 434   | 466   | 493   | 509   |
| 2     | 410   | 535   | 449   | 660   | 1800  | 1240  | 1160  | 1370  | 435   | 456   | 492   | 506   |
| 3     | 412   | 575   | 453   | 770   | 2200  | 1480  | 988   | 960   | 435   | 456   | 491   | 505   |
| 4     | 410   | 573   | 448   | 940   | 2800  | 1840  | 2180  | 1150  | 437   | 470   | 491   | 546   |
| 5     | 409   | 570   | 448   | 740   | 5000  | 1390  | 1450  | 446   | 436   | 451   | 518   | 588   |
| 6     | 409   | 567   | 449   | 710   | 9000  | 937   | 1620  | 439   | 435   | 450   | 503   | 515   |
| 7     | 411   | 560   | 448   | 900   | 8500  | 1160  | 2760  | 441   | 432   | 451   | 575   | 507   |
| 8     | 411   | 562   | 439   | 1100  | 7000  | 2070  | 1430  | 442   | 440   | 451   | 547   | 516   |
| 9     | 413   | 513   | 424   | 1060  | 5500  | 2300  | 732   | 1230  | 448   | 453   | 504   | 578   |
| 10    | 440   | 524   | 453   | 1110  | 4000  | 2860  | 472   | 1930  | 445   | 452   | 462   | 522   |
| 11    | 459   | 519   | 464   | 1280  | 3000  | 2030  | 1750  | 1460  | 444   | 455   | 464   | 511   |
| 12    | 440   | 547   | 464   | 1320  | 2250  | 1740  | 4590  | 1410  | 442   | 462   | 463   | 548   |
| 13    | 424   | 515   | 462   | 1320  | 1450  | 1400  | 4360  | 1040  | 441   | 460   | 459   | 602   |
| 14    | 527   | 521   | 463   | 1150  | 1180  | 2120  | 3930  | 449   | 441   | 460   | 457   | 599   |
| 15    | 533   | 505   | 479   | 1050  | 1070  | 2050  | 3360  | 917   | 439   | 457   | 498   | 619   |
| 16    | 541   | 453   | 462   | 1150  | 1500  | 1920  | 966   | 918   | 441   | 454   | 471   | 557   |
| 17    | 543   | 536   | 459   | 1660  | 1900  | 1790  | 938   | 847   | 457   | 452   | 548   | 687   |
| 18    | 539   | 467   | 458   | 3490  | 2300  | 1420  | 2340  | 1460  | 464   | 451   | 625   | 591   |
| 19    | 583   | 585   | 456   | 5140  | 2750  | 1970  | 5780  | 1310  | 475   | 450   | 537   | 592   |
| 20    | 581   | 450   | 457   | 7630  | 2400  | 1410  | 4000  | 435   | 454   | 447   | 462   | 638   |
| 21    | 539   | 445   | 463   | 7530  | 1780  | 1670  | 2700  | 431   | 452   | 448   | 458   | 612   |
| 22    | 545   | 445   | 466   | 7400  | 1330  | 1230  | 3030  | 430   | 452   | 449   | 464   | 615   |
| 23    | 535   | 446   | 456   | 6000  | 1490  | 495   | 1740  | 458   | 451   | 451   | 462   | 651   |
| 24    | 544   | 447   | 457   | 5000  | 2250  | 917   | 4610  | 684   | 454   | 515   | 456   | 667   |
| 25    | 578   | 478   | 460   | 4000  | 2050  | 2030  | 7310  | 442   | 457   | 525   | 453   | 601   |
| 26    | 555   | 623   | 462   | 3000  | 1610  | 3040  | 6700  | 437   | 461   | 512   | 521   | 594   |
| 27    | 558   | 625   | 459   | 2100  | 1330  | 3780  | 2640  | 436   | 459   | 479   | 457   | 626   |
| 28    | 553   | 632   | 472   | 1650  | 1230  | 2460  | 473   | 436   | 456   | 481   | 452   | 612   |
| 29    | 559   | 603   | 458   | 1400  | 1440  | 1870  | 1930  | 436   | 455   | 491   | 454   | 595   |
| 30    | 567   | 523   | 450   | 1020  | ---   | 1410  | 1420  | 435   | 510   | 495   | 473   | 586   |
| 31    | 557   | ---   | 480   | 1100  | ---   | 1020  | ---   | 434   | ---   | 497   | 497   | ---   |
| TOTAL | 15428 | 15894 | 14198 | 73950 | 81510 | 54159 | 78729 | 25183 | 13482 | 14447 | 15207 | 17395 |
| MEAN  | 498   | 530   | 458   | 2385  | 2811  | 1747  | 2624  | 812   | 449   | 466   | 491   | 580   |
| MAX   | 583   | 632   | 480   | 7630  | 9000  | 3780  | 7310  | 1930  | 510   | 525   | 625   | 687   |
| MIN   | 409   | 445   | 424   | 570   | 1070  | 495   | 472   | 430   | 432   | 447   | 452   | 505   |
| MEANT | -23   | 644   | 936   | 2800  | 2764  | 1737  | 2594  | 710   | 257   | 87    | 180   | 810   |
| CFSMT | 0     | .22   | .32   | .95   | .94   | .59   | .88   | .24   | .09   | .03   | .06   | .27   |
| INT   | 0     | .24   | .37   | 1.10  | 1.01  | .68   | .98   | .28   | .10   | .04   | .07   | .30   |

CAL YR 1987 TOTAL 829602 MEAN 2273 MAX 29500 MIN 409 MEANT 2232 CFSMT .76 INT 10.27  
WTR YR 1988 TOTAL 419582 MEAN 1146 MAX 9000 MIN 409 MEANT 1121 CFSMT .38 INT 5.17

\*ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIRS.

## ALTAHAHA RIVER BASIN

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.--Continued

## WATER-QUALITY RECORDS

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1035 | 410                                             | 75                                                | 72                                                       | 7.50                           | 7.30                                  | 21.0                                 | 14.5                               | 9.2                                 | 103                                                            |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1015 | 450                                             | 78                                                | 73                                                       | 7.40                           | 7.20                                  | 18.0                                 | 23.5                               | 9.4                                 | 99                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1115 | 445                                             | 77                                                | 74                                                       | 7.40                           | 7.40                                  | 13.0                                 | 14.0                               | 9.3                                 | 88                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1145 | 1020                                            | 78                                                | 74                                                       | 7.40                           | 7.40                                  | 10.0                                 | 5.0                                | 9.5                                 | 83                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1145 | 3980                                            | 76                                                | 70                                                       | 7.10                           | 7.40                                  | 9.0                                  | 12.5                               | 10.4                                | 90                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1200 | 5610                                            | 59                                                | 72                                                       | 7.30                           | 7.50                                  | 11.0                                 | 18.0                               | 10.4                                | 95                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1315 | 7770                                            | 72                                                | 74                                                       | 6.90                           | 7.00                                  | 18.5                                 | 24.0                               | 8.0                                 | 87                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 11... | 1115 | 450                                             | 69                                                | 72                                                       | 7.10                           | 7.10                                  | 20.5                                 | 28.0                               | 6.8                                 | 76                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 0945 | 441                                             | 73                                                | 71                                                       | 6.90                           | 6.80                                  | 23.0                                 | 25.0                               | 8.1                                 | 94                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 0930 | 459                                             | 74                                                | 72                                                       | 6.80                           | 7.00                                  | 26.0                                 | 27.5                               | 7.2                                 | 89                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1015 | 563                                             | 85                                                | 72                                                       | 6.62                           | 7.00                                  | 29.0                                 | 29.0                               | 7.0                                 | 91                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1120 | 617                                             | 80                                                | 75                                                       | 7.20                           | 7.20                                  | 26.5                                 | 27.0                               | 7.6                                 | 95                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 13... | 3.0                          | 1.9                                                            | 490                                              | 22                                                              | 0.020                                                | 0.040                                                | <0.020                                      | 2.7                                           | <100                                                  | 15                                                              |
| NOV   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 09... | 2.0                          | 0.9                                                            | 50                                               | 26                                                              | <0.020                                               | 0.040                                                | <0.020                                      | 3.1                                           | --                                                    | --                                                              |
| DEC   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 08... | 4.0                          | 0.6                                                            | 330                                              | 21                                                              | 0.040                                                | 0.030                                                | <0.020                                      | 2.8                                           | --                                                    | --                                                              |
| JAN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 12... | 5.0                          | 0.5                                                            | <20                                              | 25                                                              | 0.040                                                | 0.040                                                | <0.020                                      | 2.3                                           | 440                                                   | 39                                                              |
| FEB   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 09... | 9.0                          | 0.8                                                            | 20                                               | 20                                                              | 0.120                                                | 0.050                                                | 0.030                                       | 3.3                                           | 550                                                   | 28                                                              |
| MAR   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 09... | 14                           | 0.5                                                            | 50                                               | 22                                                              | 0.190                                                | 0.090                                                | 0.030                                       | 4.2                                           | 730                                                   | 29                                                              |
| APR   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 19... | 19                           | 1.2                                                            | 110                                              | 21                                                              | 0.190                                                | 0.030                                                | 0.040                                       | 4.6                                           | --                                                    | --                                                              |
| MAY   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 11... | 15                           | 0.4                                                            | 170                                              | 19                                                              | 0.250                                                | 0.110                                                | <0.020                                      | 2.9                                           | 450                                                   | 370                                                             |
| JUN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 14... | 9.0                          | 1.1                                                            | 140                                              | 20                                                              | 0.220                                                | 0.090                                                | <0.020                                      | 2.7                                           | 1200                                                  | 130                                                             |
| JUL   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 13... | 5.0                          | 1.3                                                            | 110                                              | 21                                                              | 0.090                                                | 0.100                                                | 0.030                                       | 2.6                                           | 1600                                                  | 290                                                             |
| AUG   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 09... | 5.0                          | 0.9                                                            | 70                                               | 22                                                              | 0.080                                                | 0.090                                                | <0.020                                      | 4.3                                           | --                                                    | --                                                              |
| SEP   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 13... | 5.0                          | 0.7                                                            | --                                               | 22                                                              | 0.060                                                | <0.030                                               | 0.060                                       | 2.5                                           | 640                                                   | 240                                                             |

## ALTAMAHA RIVER BASIN

149

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 0945 | 414                                             | 82                                                | 79                                                       | 7.30                           | 7.10                                  | 20.0                                 | 12.0                               | 8.1                                 | 89                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0935 | 454                                             | 83                                                | 80                                                       | 7.00                           | 7.00                                  | 18.0                                 | 20.5                               | 9.2                                 | 97                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1045 | 450                                             | 82                                                | 81                                                       | 7.30                           | 7.20                                  | 12.5                                 | 14.0                               | 9.9                                 | 93                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1110 | --                                              | 85                                                | 84                                                       | 7.30                           | 7.20                                  | 7.0                                  | 4.5                                | 10.8                                | 88                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1100 | --                                              | 77                                                | 73                                                       | 7.00                           | 7.30                                  | 9.0                                  | 12.5                               | 11.2                                | 96                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1115 | 497                                             | 81                                                | 77                                                       | 7.20                           | 7.50                                  | 12.0                                 | 18.0                               | 10.4                                | 96                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1230 | 6450                                            | 65                                                | 66                                                       | 6.90                           | 7.00                                  | 18.0                                 | 23.5                               | 8.1                                 | 87                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 11... | 1020 | 481                                             | 75                                                | 78                                                       | 7.10                           | 7.10                                  | 20.0                                 | 28.0                               | 6.6                                 | 73                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1030 | 445                                             | 78                                                | 76                                                       | 6.90                           | 7.00                                  | 23.0                                 | 27.0                               | 7.7                                 | 89                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1010 | 468                                             | 79                                                | --                                                       | 6.90                           | 7.10                                  | 26.0                                 | 29.0                               | 6.5                                 | 80                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0930 | 468                                             | 81                                                | 78                                                       | 6.90                           | 7.00                                  | 25.0                                 | 27.0                               | 6.3                                 | 77                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1050 | 612                                             | 85                                                | 81                                                       | 7.00                           | 7.20                                  | 26.0                                 | 26.0                               | 7.0                                 | 86                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 13... | 5.0                          | 2.2                                                            | 8100                                             | 21                                                              | 0.040                                                | 0.170                                                | 0.070                                       | 3.9                                           |
| NOV   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 09... | 4.0                          | 1.8                                                            | 110                                              | 26                                                              | 0.330                                                | 0.150                                                | 0.070                                       | 4.1                                           |
| DEC   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 08... | 5.0                          | 0.8                                                            | 95                                               | 24                                                              | 0.060                                                | 0.180                                                | 0.080                                       | 3.3                                           |
| JAN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 12... | 9.0                          | 1.1                                                            | 330                                              | 27                                                              | 0.080                                                | 0.110                                                | 0.050                                       | 2.8                                           |
| FEB   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 09... | 10                           | 1.3                                                            | 130                                              | 17                                                              | 0.120                                                | 0.040                                                | 0.080                                       | 3.0                                           |
| MAR   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 09... | 15                           | 1.1                                                            | 230                                              | 22                                                              | 0.190                                                | 0.160                                                | 0.070                                       | 4.5                                           |
| APR   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 19... | 81                           | 1.3                                                            | 3300                                             | 18                                                              | 0.180                                                | <0.020                                               | 0.130                                       | 7.3                                           |
| MAY   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 11... | 14                           | 1.4                                                            | 490                                              | 22                                                              | 0.260                                                | 0.240                                                | 0.070                                       | 4.7                                           |
| JUN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 14... | 9.0                          | 1.1                                                            | 140                                              | 20                                                              | 0.260                                                | 0.160                                                | 0.070                                       | 3.0                                           |
| JUL   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 13... | 65                           | 1.7                                                            | 17800                                            | 23                                                              | 0.150                                                | 0.140                                                | 0.120                                       | 5.4                                           |
| AUG   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 09... | 17                           | 1.4                                                            | 1300                                             | 24                                                              | 0.080                                                | 0.170                                                | 0.070                                       | 4.6                                           |
| SEP   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 13... | 9.0                          | 1.0                                                            | --                                               | 24                                                              | 0.090                                                | 0.130                                                | 0.090                                       | 3.2                                           |

## ALTAMAHA RIVER BASIN

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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV<br>12... | 1035 | 600                                             | 175                                               | 178                                                      | 6.60                           | 7.10                                  | 12.5                                 | 10.0                               | 8.3                                 | 78                                                             |
| JAN<br>05... | 1255 | 1050                                            | 123                                               | 122                                                      | --                             | 7.10                                  | 9.0                                  | 7.5                                | 10.1                                | 86                                                             |
| MAR<br>08... | 1300 | 1360                                            | 110                                               | 106                                                      | 7.20                           | 7.20                                  | 15.5                                 | 23.5                               | 10.1                                | 101                                                            |
| MAY<br>03... | 1100 | 1160                                            | 103                                               | 95                                                       | 7.20                           | 7.10                                  | 19.5                                 | 24.0                               | 8.2                                 | 90                                                             |
| SEP<br>13... | 1625 | 810                                             | 152                                               | 156                                                      | 7.00                           | 7.20                                  | 28.0                                 | 29.5                               | 5.7                                 | 73                                                             |

| DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| NOV<br>12... | 15                                           | 4.0                          | 1.2                                                            | 220                                              | 22                                                              | 0.300                                                | 0.310                                                | 0.080                                       | 3.9                                           |
| JAN<br>05... | 45                                           | 20                           | 0.6                                                            | 490                                              | 16                                                              | 0.190                                                | 0.150                                                | 0.160                                       | 3.6                                           |
| MAR<br>08... | 25                                           | 16                           | 0.5                                                            | 20                                               | 19                                                              | 0.210                                                | 0.040                                                | 0.080                                       | 4.6                                           |
| MAY<br>03... | 65                                           | 12                           | 0.8                                                            | --                                               | 22                                                              | 0.240                                                | 0.030                                                | 0.080                                       | 6.5                                           |
| SEP<br>13... | 70                                           | 12                           | 0.5                                                            | --                                               | 16                                                              | 0.460                                                | 0.040                                                | 0.140                                       | 4.6                                           |



ALTAMAHA RIVER BASIN

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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 mi<sup>2</sup>, 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: June 13-30. Records good, except for those for the period of estimated daily discharges, June 13-30, 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.--91 years (water years 1898-1988), 4,920 ft<sup>3</sup>/s, 15.18 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,700 ft<sup>3</sup>/s, Apr. 12, 13, 1936, gage height, 32.97 ft; minimum, 333 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|
| Feb. 9 | 1100 | *10,600                           | *13.26              |

Minimum daily discharge, 469 ft<sup>3</sup>/s, Oct. 15.

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     | 560   | 621   | 998   | 875    | 1720   | 1940  | 2190   | 3120  | 617   | 589   | 638   | 645   |
| 2     | 583   | 615   | 899   | 921    | 2200   | 1950  | 1830   | 2650  | 600   | 637   | 658   | 663   |
| 3     | 538   | 606   | 825   | 1110   | 2960   | 1870  | 1980   | 2250  | 583   | 594   | 664   | 678   |
| 4     | 498   | 602   | 775   | 1350   | 3580   | 2180  | 1810   | 2080  | 568   | 575   | 893   | 700   |
| 5     | 482   | 676   | 750   | 1690   | 4360   | 3180  | 2030   | 1710  | 554   | 571   | 653   | 881   |
| 6     | 488   | 721   | 722   | 1370   | 7160   | 2910  | 2300   | 1680  | 550   | 566   | 663   | 1120  |
| 7     | 483   | 705   | 698   | 1250   | 9020   | 2530  | 2050   | 1150  | 550   | 537   | 691   | 1140  |
| 8     | 480   | 692   | 686   | 1320   | 10100  | 2270  | 2760   | 1010  | 546   | 525   | 683   | 989   |
| 9     | 480   | 693   | 680   | 2100   | 10500  | 2340  | 2500   | 939   | 557   | 515   | 798   | 1190  |
| 10    | 477   | 726   | 699   | 1860   | 8630   | 3630  | 1890   | 877   | 624   | 509   | 760   | 1300  |
| 11    | 479   | 717   | 695   | 1930   | 6040   | 4340  | 1340   | 1480  | 649   | 514   | 671   | 1440  |
| 12    | 481   | 703   | 705   | 2160   | 5130   | 4000  | 1440   | 2060  | 645   | 538   | 608   | 1270  |
| 13    | 476   | 686   | 711   | 2290   | 4440   | 3410  | 4240   | 1780  | 685   | 554   | 580   | 1140  |
| 14    | 470   | 691   | 706   | 2460   | 2770   | 2920  | 4870   | 1730  | 650   | 583   | 566   | 1030  |
| 15    | 469   | 662   | 732   | 2190   | 2300   | 2980  | 4960   | 1460  | 570   | 593   | 560   | 962   |
| 16    | 523   | 653   | 818   | 1810   | 1820   | 3100  | 4520   | 1010  | 530   | 561   | 586   | 904   |
| 17    | 559   | 768   | 900   | 1890   | 1980   | 2930  | 3050   | 1200  | 510   | 543   | 636   | 914   |
| 18    | 569   | 936   | 875   | 2290   | 3180   | 2660  | 1780   | 1210  | 475   | 528   | 628   | 1040  |
| 19    | 577   | 1100  | 851   | 3570   | 3830   | 2450  | 2930   | 1210  | 505   | 516   | 645   | 1330  |
| 20    | 579   | 966   | 841   | 5310   | 5370   | 2940  | 6480   | 1570  | 580   | 508   | 677   | 1250  |
| 21    | 604   | 946   | 837   | 7320   | 4490   | 2730  | 6700   | 1400  | 565   | 503   | 613   | 1160  |
| 22    | 599   | 837   | 892   | 8420   | 3510   | 2680  | 5660   | 836   | 560   | 497   | 653   | 1070  |
| 23    | 576   | 790   | 984   | 8830   | 3270   | 2420  | 4780   | 719   | 540   | 527   | 694   | 975   |
| 24    | 572   | 754   | 977   | 8980   | 2670   | 2090  | 4180   | 674   | 520   | 543   | 806   | 924   |
| 25    | 579   | 734   | 936   | 9010   | 2800   | 1630  | 4530   | 699   | 500   | 533   | 701   | 915   |
| 26    | 581   | 814   | 910   | 8960   | 3060   | 1930  | 8090   | 939   | 495   | 570   | 629   | 929   |
| 27    | 607   | 968   | 885   | 7350   | 2690   | 3440  | 9510   | 817   | 515   | 592   | 592   | 854   |
| 28    | 608   | 1120  | 878   | 4030   | 2240   | 4260  | 8520   | 732   | 525   | 576   | 619   | 819   |
| 29    | 605   | 1090  | 919   | 3050   | 2030   | 4180  | 5050   | 697   | 510   | 566   | 593   | 822   |
| 30    | 606   | 1040  | 951   | 2690   | ---    | 3320  | 2900   | 674   | 525   | 627   | 630   | 794   |
| 31    | 614   | ---   | 911   | 1920   | ---    | 2480  | ---    | 644   | ---   | 592   | 659   | ---   |
| TOTAL | 16802 | 23632 | 25646 | 110306 | 123850 | 87690 | 116870 | 41007 | 16803 | 17182 | 20447 | 29848 |
| MEAN  | 542   | 788   | 827   | 3558   | 4271   | 2829  | 3896   | 1323  | 560   | 554   | 660   | 995   |
| MAX   | 614   | 1120  | 998   | 9010   | 10500  | 4340  | 9510   | 3120  | 685   | 637   | 893   | 1440  |
| MIN   | 469   | 602   | 680   | 875    | 1720   | 1630  | 1340   | 644   | 475   | 497   | 560   | 645   |

|             |       |         |      |      |     |       |     |     |       |      |       |     |     |       |
|-------------|-------|---------|------|------|-----|-------|-----|-----|-------|------|-------|-----|-----|-------|
| CAL YR 1987 | TOTAL | 1417418 | MEAN | 3883 | MAX | 30300 | MIN | 469 | MEANT | 3842 | CFSMT | .87 | INT | 11.85 |
| WTR YR 1988 | TOTAL | 630083  | MEAN | 1722 | MAX | 10500 | MIN | 469 | MEANT | 1697 | CFSMT | .39 | INT | 5.25  |

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

## ALTAMAHA RIVER BASIN

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

LOCATION.--Lat 32°29'05", long 82°51'45", Laurens County, Hydrologic Unit 03070102, at Interstate Highway 16, 4.0 mi upstream from Pughes Creek, 4.5 mi southeast of Dublin, and at mile 69.9.

DRAINAGE AREA.--4,400 mi<sup>2</sup>, approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1130 | 476                                             | 165                                               | 170                                                      | 7.10                           | 7.20                                  | 18.0                                 | 13.5                               | 10.0                                | 106                                                            |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 0830 | 695                                             | 155                                               | 163                                                      | 6.80                           | 7.00                                  | 13.5                                 | 8.5                                | 8.3                                 | 79                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1300 | 686                                             | 138                                               | 160                                                      | 6.70                           | 7.10                                  | 10.0                                 | 20.0                               | 9.7                                 | 86                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1100 | 1800                                            | 125                                               | 128                                                      | --                             | 7.30                                  | 8.5                                  | 5.0                                | 10.6                                | 90                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1215 | 10600                                           | 78                                                | 78                                                       | 7.20                           | 7.00                                  | 8.0                                  | 17.0                               | 10.6                                | 89                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1515 | 2330                                            | 114                                               | 112                                                      | 7.30                           | 7.20                                  | 15.5                                 | 25.0                               | 8.8                                 | 88                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1125 | 1340                                            | 118                                               | 115                                                      | 7.20                           | 7.20                                  | 17.0                                 | 18.0                               | 7.8                                 | 82                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 0915 | 2400                                            | 97                                                | 99                                                       | 7.20                           | 7.10                                  | 19.0                                 | 23.5                               | 8.0                                 | 86                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1115 | 549                                             | 165                                               | 155                                                      | 7.40                           | 7.30                                  | 26.0                                 | 31.0                               | 4.3                                 | 53                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1140 | 533                                             | --                                                | 158                                                      | 7.40                           | 7.30                                  | 26.5                                 | 30.0                               | 6.9                                 | 85                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1040 | 814                                             | 225                                               | 216                                                      | 7.20                           | 7.20                                  | 29.5                                 | 32.0                               | 5.1                                 | 67                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1435 | 1120                                            | 164                                               | 164                                                      | 7.00                           | 7.20                                  | 27.0                                 | 31.5                               | 6.2                                 | 78                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 13... | 25                                           | 4.0                          | 12                                                             | 1.0                                                            | 50                                               | 23                                                              | <1                                                                |
| NOV   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 12... | 20                                           | 4.0                          | 9                                                              | 1.1                                                            | 330                                              | 22                                                              | 14                                                                |
| DEC   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 08... | 30                                           | 5.0                          | 10                                                             | 1.6                                                            | 170                                              | 24                                                              | 3                                                                 |
| JAN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 05... | 55                                           | 19                           | 11                                                             | 0.9                                                            | 330                                              | 18                                                              | 47                                                                |
| FEB   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 09... | 55                                           | 27                           | 13                                                             | 1.1                                                            | 700                                              | 19                                                              | 45                                                                |
| MAR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 08... | 35                                           | 15                           | 11                                                             | 0.8                                                            | 1300                                             | 17                                                              | 6                                                                 |
| APR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 12... | 45                                           | 14                           | 23                                                             | 1.0                                                            | 1300                                             | 30                                                              | 17                                                                |
| MAY   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 03... | 7                                            | 19                           | 15                                                             | 0.7                                                            | --                                               | 20                                                              | 17                                                                |
| JUN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 07... | 40                                           | 5.0                          | 14                                                             | 1.0                                                            | --                                               | 25                                                              | <1                                                                |
| JUL   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 12... | 10                                           | 6.0                          | --                                                             | 1.7                                                            | 50                                               | 21                                                              | 3                                                                 |
| AUG   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 09... | 30                                           | 16                           | --                                                             | 0.9                                                            | 310                                              | 19                                                              | <1                                                                |
| SEP   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 13... | 60                                           | 13                           | --                                                             | 0.5                                                            | --                                               | 16                                                              | 13                                                                |

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT<br>13... | 0.410                                                | 0.210                                                | 0.59                                                 | 0.80                                                               | 1.2                                       | 0.080                                       | 3.5                                           |
| NOV<br>12... | 0.330                                                | 0.210                                                | 0.0                                                  | 0.20                                                               | 0.53                                      | 0.100                                       | 9.7                                           |
| DEC<br>08... | 0.280                                                | 0.110                                                | 0.49                                                 | 0.60                                                               | 0.88                                      | 0.110                                       | 1.1                                           |
| JAN<br>05... | 0.230                                                | 0.080                                                | 0.52                                                 | 0.60                                                               | 0.83                                      | 0.220                                       | 5.4                                           |
| FEB<br>09... | 0.160                                                | 0.080                                                | 0.32                                                 | 0.40                                                               | 0.56                                      | 0.170                                       | --                                            |
| MAR<br>08... | 0.190                                                | 0.060                                                | 0.64                                                 | 0.70                                                               | 0.89                                      | 0.090                                       | 5.6                                           |
| APR<br>12... | 0.280                                                | 0.440                                                | 0.16                                                 | 0.60                                                               | 0.88                                      | 0.070                                       | 5.9                                           |
| MAY<br>03... | 0.250                                                | 0.040                                                | 0.36                                                 | 0.40                                                               | 0.65                                      | 0.100                                       | 6.1                                           |
| JUN<br>07... | 0.100                                                | 0.080                                                | 0.32                                                 | 0.40                                                               | 0.50                                      | 0.050                                       | 4.0                                           |
| JUL<br>12... | 0.170                                                | 0.210                                                | --                                                   | --                                                                 | --                                        | 0.060                                       | 3.6                                           |
| AUG<br>09... | 0.520                                                | 0.230                                                | --                                                   | --                                                                 | --                                        | 0.070                                       | 5.1                                           |
| SEP<br>13... | 0.540                                                | 0.140                                                | --                                                   | --                                                                 | --                                        | 0.140                                       | 5.9                                           |

## ALTAMAHA RIVER BASIN

02224000 ROCKY CREEK NEAR DUDLEY, GA.

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

DRAINAGE AREA.--62.9 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|
| MAR<br>14... | 0900 | 70                                              | 70                                                | 71                                                | 7.00                           | 7.10                                  | 13.5                                 | 8.7                                 | 84                                                             |
| AUG<br>16... | 0800 | 4.6                                             | 118                                               | 118                                               | 7.43                           | 7.70                                  | 25.0                                 | 4.8                                 | 58                                                             |

| DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CACO3 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|
| MAR<br>14... | 48                                           | 6.8                          | 23                                              | 7                                                                 | 7.1                                          | 1.3                                                  | 3.6                                          | 24                | 0.3                                     | 1.4                                                 | 16                                                          |
| AUG<br>16... | 60                                           | 3.8                          | 54                                              | 8                                                                 | 19                                           | 1.5                                                  | 2.8                                          | 10                | 0.2                                     | 1.2                                                 | 46                                                          |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>AC-FT) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
| MAR<br>14... | --                                            | 8.1                                                 | 0.10                                               | 6.1                                               | 59                                                                 | --                                                             | 11.2                                              | --                                           | 0.100                                                | 0.840                                                         | 0.040                                                | 0.040                                                         |
| AUG<br>16... | 8.4                                           | 5.8                                                 | 0.10                                               | 12                                                | 83                                                                 | 54                                                             | 1.03                                              | 0.11                                         | 0.400                                                | 0.380                                                         | 0.010                                                | 0.020                                                         |

| DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) |
|--------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|-------------------------------------|----------------------------------------------|
| MAR<br>14... | 0.56                                                 | 0.46                                                          | 0.60                                                               | 0.50                                                              | 0.70                                      | 1.3                                                | 0.040                                       | 0.040                                                | 9.9                                           | 60                                                  | <1                                  | <1                                           |
| AUG<br>16... | 0.89                                                 | 0.58                                                          | 0.90                                                               | 0.60                                                              | 1.3                                       | 0.98                                               | 0.070                                       | 0.050                                                | 9.4                                           | 20                                                  | 2                                   | 1                                            |

| DATE         | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------|
| MAR<br>14... | 1                                            | <1                                                  | 1                                            | 350                                        | <5                                                    | <5                                         | 57                                                   | <0.10                                                   | <0.1                                         | <1                                                  | 4                                          |
| AUG<br>16... | <1                                           | <1                                                  | <1                                           | 900                                        | <5                                                    | <5                                         | 140                                                  | <0.10                                                   | <0.1                                         | <1                                                  | 9                                          |

## ALTAMAHA RIVER BASIN

155

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 mi<sup>2</sup>, 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: Apr. 4-11. Records good, except for period of estimated discharges, which are fair.

AVERAGE DISCHARGE.--19 years (water years 1950, 1971-88), 11,191 ft<sup>3</sup>/s, 13.10 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,500 ft<sup>3</sup>/s, Mar. 12, 1971, gage height, 22.7 ft; minimum daily, 1,620 ft<sup>3</sup>/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 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Mar. 13 | 2400 | *17,600                           | *11.90              |

Minimum daily discharge, 1,650 ft<sup>3</sup>/s, Jul. 26.

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           | 2100  | 1860    | 2730  | 3560   | 10600  | 10400  | 8670   | 16300  | 2950  | 1980  | 1730  | 2130   |
| 2           | 2060  | 1870    | 2750  | 3450   | 10200  | 9070   | 7950   | 14300  | 2840  | 1990  | 1700  | 2040   |
| 3           | 2030  | 1880    | 2760  | 3590   | 9880   | 8360   | 7340   | 12100  | 2730  | 2010  | 1700  | 1980   |
| 4           | 2010  | 1890    | 2760  | 3870   | 9810   | 8230   | 7100   | 10800  | 2620  | 2020  | 1700  | 2010   |
| 5           | 2020  | 1920    | 2700  | 4140   | 9700   | 9090   | 7000   | 10200  | 2550  | 1990  | 1730  | 2140   |
| 6           | 1990  | 1920    | 2640  | 4400   | 9370   | 10700  | 6900   | 9730   | 2480  | 1930  | 1820  | 2370   |
| 7           | 1950  | 1910    | 2570  | 4740   | 9400   | 11700  | 6800   | 8910   | 2440  | 1890  | 1830  | 2480   |
| 8           | 1910  | 1930    | 2500  | 4900   | 10200  | 12000  | 6600   | 7450   | 2400  | 1850  | 1810  | 2500   |
| 9           | 1910  | 1960    | 2470  | 4930   | 11100  | 11800  | 6400   | 6190   | 2370  | 1830  | 1820  | 3160   |
| 10          | 1910  | 1970    | 2480  | 5090   | 12000  | 12400  | 6300   | 5450   | 2410  | 1820  | 1890  | 5520   |
| 11          | 1900  | 1950    | 2450  | 5490   | 12700  | 14100  | 6200   | 4990   | 2450  | 1820  | 1980  | 6190   |
| 12          | 1890  | 1960    | 2390  | 5580   | 13200  | 15900  | 5610   | 4630   | 2490  | 1780  | 2060  | 5920   |
| 13          | 1870  | 1980    | 2360  | 5520   | 13400  | 17300  | 5170   | 4600   | 2500  | 1760  | 2030  | 5830   |
| 14          | 1850  | 1980    | 2350  | 5470   | 12700  | 17400  | 5090   | 4910   | 2460  | 1720  | 2020  | 5850   |
| 15          | 1850  | 1980    | 2400  | 5450   | 11500  | 16300  | 6220   | 4980   | 2400  | 1720  | 1990  | 5900   |
| 16          | 1840  | 2000    | 2450  | 5480   | 10500  | 14700  | 7220   | 4930   | 2340  | 1720  | 1970  | 5860   |
| 17          | 1820  | 2060    | 2450  | 5380   | 10200  | 13300  | 7740   | 4740   | 2280  | 1760  | 1980  | 5360   |
| 18          | 1830  | 2100    | 2450  | 5260   | 10100  | 12300  | 7990   | 4460   | 2210  | 1760  | 1970  | 4830   |
| 19          | 1840  | 2120    | 2480  | 5550   | 10600  | 11600  | 7940   | 4300   | 2150  | 1750  | 1930  | 4800   |
| 20          | 1870  | 2200    | 2560  | 6370   | 11900  | 11100  | 8810   | 4240   | 2100  | 1750  | 1930  | 5030   |
| 21          | 1880  | 2330    | 2720  | 7570   | 13500  | 10700  | 10800  | 4130   | 2060  | 1720  | 1930  | 5170   |
| 22          | 1880  | 2470    | 2990  | 9010   | 14800  | 10400  | 12800  | 4180   | 2040  | 1710  | 1920  | 5150   |
| 23          | 1880  | 2650    | 3180  | 10300  | 15400  | 10100  | 14000  | 4130   | 2030  | 1680  | 1930  | 5010   |
| 24          | 1870  | 2800    | 3150  | 11200  | 15100  | 9610   | 14100  | 3820   | 2010  | 1660  | 1880  | 4920   |
| 25          | 1890  | 2810    | 3020  | 12000  | 14500  | 9200   | 13200  | 3590   | 1990  | 1660  | 1890  | 4920   |
| 26          | 1870  | 2720    | 2950  | 12500  | 13900  | 8730   | 12800  | 3390   | 1970  | 1650  | 1940  | 4910   |
| 27          | 1860  | 2650    | 3040  | 13000  | 13300  | 8260   | 13500  | 3250   | 1950  | 1670  | 1990  | 4600   |
| 28          | 1840  | 2610    | 3290  | 13400  | 12800  | 8140   | 14900  | 3190   | 1960  | 1740  | 1960  | 4150   |
| 29          | 1840  | 2620    | 3440  | 13700  | 11800  | 8640   | 15900  | 3180   | 1940  | 1790  | 1950  | 3830   |
| 30          | 1860  | 2690    | 3550  | 13400  | ---    | 9160   | 16500  | 3120   | 1940  | 1790  | 1950  | 3590   |
| 31          | 1870  | ---     | 3630  | 11400  | ---    | 9210   | ---    | 3040   | ---   | 1750  | 2040  | ---    |
| TOTAL       | 58990 | 65790   | 85660 | 225700 | 344160 | 349900 | 277550 | 187230 | 69060 | 55670 | 58970 | 128150 |
| MEAN        | 1903  | 2193    | 2763  | 7281   | 11870  | 11290  | 9252   | 6040   | 2302  | 1796  | 1902  | 4272   |
| MAX         | 2100  | 2810    | 3630  | 13700  | 15400  | 17400  | 16500  | 16300  | 2950  | 2020  | 2060  | 6190   |
| MIN         | 1820  | 1860    | 2350  | 3450   | 9370   | 8140   | 5090   | 3040   | 1940  | 1650  | 1700  | 1980   |
| CFSM        | .16   | .19     | .24   | .63    | 1.02   | .97    | .80    | .52    | .20   | .16   | .16   | .37    |
| IN.         | .19   | .21     | .27   | .72    | 1.10   | 1.12   | .89    | .60    | .22   | .18   | .19   | .41    |
| CAL YR 1987 | TOTAL | 4202360 | MEAN  | 11510  | MAX    | 52300  | MIN    | 1820   | CFSM  | .99   | IN    | 13.48  |
| WTR YR 1988 | TOTAL | 1906830 | MEAN  | 5210   | MAX    | 17400  | MIN    | 1650   | CFSM  | .45   | IN    | 6.12   |



## ALTAMAHA RIVER BASIN

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 0710 | 1520                                            | 185                                               | 179                                                      | 7.60                           | 7.80                                  | 17.0                                 | 6.0                                | 9.5                                 | 98                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 11... | 1530 | 1940                                            | 175                                               | 176                                                      | 7.30                           | 7.60                                  | 16.5                                 | 13.5                               | 6.8                                 | 70                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0800 | 2460                                            | 141                                               | 158                                                      | --                             | 7.60                                  | 12.0                                 | 12.0                               | 8.8                                 | 81                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0930 | 4360                                            | 132                                               | 133                                                      | --                             | 7.40                                  | 9.0                                  | 2.5                                | 9.9                                 | 84                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1005 | 11900                                           | 88                                                | 84                                                       | 7.20                           | 7.20                                  | 8.5                                  | 11.0                               | 10.4                                | 88                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 0945 | 11800                                           | 81                                                | 75                                                       | 7.10                           | 7.10                                  | 16.0                                 | 21.5                               | 8.5                                 | 87                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 0645 | 5210                                            | 120                                               | 115                                                      | 7.40                           | 7.60                                  | 17.0                                 | 8.0                                | 7.6                                 | 79                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 0750 | 11000                                           | 89                                                | 88                                                       | 7.20                           | 7.10                                  | 19.0                                 | 20.5                               | 7.4                                 | 80                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 0650 | 2390                                            | 164                                               | 154                                                      | 7.90                           | 7.60                                  | 26.0                                 | 24.5                               | 6.0                                 | 75                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 0645 | 1800                                            | 185                                               | 181                                                      | 7.70                           | 7.70                                  | 26.5                                 | 24.5                               | 5.3                                 | 66                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 0700 | 1870                                            | 185                                               | 174                                                      | 7.80                           | 7.80                                  | 30.0                                 | 27.0                               | 6.0                                 | 79                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 0910 | 5840                                            | 120                                               | 120                                                      | 7.20                           | 7.50                                  | 26.0                                 | 28.0                               | 6.5                                 | 80                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 14... | 20                                           | 3.0                          | 0.8                                                            | <20                                              | 56                                                              | 0.360                                                | 0.030                                                | 0.050                                       | 3.2                                           |
| NOV   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 11... | 10                                           | 3.0                          | 0.5                                                            | <20                                              | 49                                                              | 0.490                                                | 0.040                                                | 0.080                                       | 3.6                                           |
| DEC   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 09... | 30                                           | 7.0                          | --                                                             | 40                                               | 42                                                              | 0.460                                                | 0.030                                                | 0.090                                       | 3.7                                           |
| JAN   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 06... | 70                                           | 10                           | --                                                             | --                                               | 34                                                              | 0.530                                                | 0.070                                                | 0.110                                       | 7.0                                           |
| FEB   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 10... | 65                                           | 32                           | 0.7                                                            | 460                                              | 20                                                              | 0.300                                                | 0.030                                                | 0.150                                       | 4.9                                           |
| MAR   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 09... | 60                                           | 16                           | 0.9                                                            | 110                                              | 18                                                              | 0.230                                                | 0.100                                                | 0.060                                       | 8.2                                           |
| APR   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 13... | 50                                           | 15                           | 1.1                                                            | --                                               | 32                                                              | 0.410                                                | 0.030                                                | 0.070                                       | 5.7                                           |
| MAY   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 04... | 120                                          | 25                           | 0.7                                                            | --                                               | 23                                                              | 0.270                                                | 0.030                                                | 0.090                                       | 7.7                                           |
| JUN   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 08... | 40                                           | 8.0                          | 0.9                                                            | --                                               | 48                                                              | 0.370                                                | 0.030                                                | 0.050                                       | 1.9                                           |
| JUL   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 13... | 15                                           | 7.0                          | 2.0                                                            | 40                                               | 52                                                              | 0.440                                                | 0.040                                                | 0.070                                       | --                                            |
| AUG   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 10... | 40                                           | 10                           | 0.5                                                            | 20                                               | 48                                                              | 0.270                                                | 0.060                                                | 0.060                                       | 4.2                                           |
| SEP   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 14... | 110                                          | 24                           | 0.9                                                            | 80                                               | 21                                                              | 0.520                                                | 0.030                                                | 0.170                                       | 7.5                                           |

02225470 PENDLETON CREEK NEAR OHOOPEE, GA.

LOCATION.--Lat 32°09'36", Long 82°12'43", Toombs County, Hydrologic Unit 03070107, at bridge on State Route 86, 1.5 mi south of Ohoopee, and 1.6 mi upstream of Ohoopee River.

DRAINAGE AREA.--300 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1979 to May 1988 (discontinued).

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 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV<br>12... | 1300 | 5.8                                             | 44                                                | 43                                                       | 6.30                           | 6.20                                  | 13.5                                 | 21.0                               | 5.3                                 | 51                                                             |
| JAN<br>06... | 0800 | 81                                              | 87                                                | 87                                                       | 6.60                           | 6.60                                  | 7.0                                  | 4.5                                | 9.5                                 | 77                                                             |
| MAR<br>09... | 0805 | 615                                             | 50                                                | 47                                                       | 5.70                           | 5.70                                  | 15.0                                 | 15.5                               | 7.6                                 | 76                                                             |
| MAY<br>04... | 0625 | 220                                             | 41                                                | 41                                                       | 6.00                           | 5.80                                  | 17.0                                 | 15.5                               | 7.4                                 | 77                                                             |

| DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| NOV<br>12... | 50                                           | 2.0                          | 1.5                                                            | 310                                              | 8                                                               | <0.020                                               | <0.020                                               | 0.110                                       | 8.6                                           |
| JAN<br>06... | 160                                          | 4.0                          | --                                                             | --                                               | 27                                                              | 0.140                                                | 0.070                                                | 0.170                                       | 13                                            |
| MAR<br>09... | 110                                          | 7.0                          | 1.1                                                            | 170                                              | 3                                                               | 0.030                                                | 0.090                                                | 0.070                                       | 16                                            |
| MAY<br>04... | 160                                          | 6.0                          | 0.8                                                            | --                                               | 3                                                               | 0.090                                                | 0.060                                                | 0.100                                       | 16                                            |

## ALTAMAHA RIVER BASIN

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.

LOCATION.--Lat 32°04'42", long 82°10'39", Tattnall County, Hydrologic Unit 03070107, on downstream side of pier near center 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 mi<sup>2</sup>, 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.--55 years (water years, 1904-07, 1938-88), 985 ft<sup>3</sup>/s, 12.05 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft<sup>3</sup>/s, Mar. 6, 1966, gage height, 23.34 ft; minimum daily discharge, 19 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Mar. 13 | 1200 | *3,480                            | *11.91              |

Minimum daily discharge, 31 ft<sup>3</sup>/s, July 20-22, 26, 27, Aug. 5-8.

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           | 116   | 52     | 89   | 105   | 470   | 996   | 657    | 2400      | 88       | 44   | 39   | 60    |
| 2           | 115   | 51     | 84   | 107   | 455   | 886   | 613    | 2240      | 83       | 44   | 35   | 56    |
| 3           | 122   | 51     | 81   | 128   | 445   | 813   | 577    | 1940      | 79       | 41   | 33   | 48    |
| 4           | 119   | 51     | 82   | 185   | 512   | 878   | 541    | 1560      | 76       | 40   | 32   | 71    |
| 5           | 108   | 53     | 80   | 259   | 735   | 1130  | 519    | 1320      | 72       | 39   | 31   | 122   |
| 6           | 99    | 53     | 78   | 292   | 725   | 1370  | 486    | 1120      | 69       | 46   | 31   | 124   |
| 7           | 92    | 52     | 76   | 298   | 627   | 1530  | 461    | 901       | 67       | 53   | 31   | 102   |
| 8           | 85    | 52     | 74   | 311   | 540   | 1660  | 433    | 744       | 65       | 53   | 31   | 102   |
| 9           | 80    | 52     | 73   | 306   | 488   | 1770  | 402    | 630       | 65       | 49   | 33   | 272   |
| 10          | 77    | 53     | 73   | 307   | 453   | 2080  | 361    | 534       | 67       | 49   | 37   | 446   |
| 11          | 74    | 51     | 74   | 312   | 425   | 2590  | 327    | 453       | 65       | 53   | 36   | 522   |
| 12          | 72    | 51     | 72   | 315   | 404   | 3100  | 369    | 384       | 61       | 55   | 39   | 579   |
| 13          | 69    | 51     | 71   | 307   | 390   | 3440  | 618    | 339       | 60       | 48   | 45   | 629   |
| 14          | 67    | 51     | 71   | 293   | 376   | 3170  | 835    | 333       | 59       | 42   | 49   | 725   |
| 15          | 65    | 52     | 76   | 275   | 371   | 2660  | 737    | 318       | 58       | 38   | 50   | 771   |
| 16          | 63    | 52     | 83   | 257   | 384   | 2200  | 647    | 310       | 56       | 36   | 49   | 748   |
| 17          | 62    | 62     | 84   | 244   | 393   | 1850  | 581    | 303       | 56       | 35   | 47   | 672   |
| 18          | 60    | 81     | 91   | 266   | 397   | 1620  | 499    | 275       | 55       | 33   | 41   | 563   |
| 19          | 59    | 82     | 97   | 421   | 596   | 1520  | 615    | 240       | 62       | 32   | 38   | 453   |
| 20          | 58    | 87     | 97   | 684   | 1060  | 1520  | 1200   | 210       | 59       | 31   | 39   | 372   |
| 21          | 57    | 87     | 95   | 874   | 1640  | 1410  | 1710   | 185       | 52       | 31   | 36   | 386   |
| 22          | 55    | 85     | 98   | 920   | 2010  | 1250  | 1880   | 172       | 48       | 31   | 36   | 367   |
| 23          | 54    | 80     | 102  | 914   | 2170  | 1150  | 1870   | 171       | 46       | 32   | 38   | 363   |
| 24          | 54    | 76     | 105  | 889   | 2220  | 1080  | 1700   | 158       | 43       | 38   | 40   | 336   |
| 25          | 54    | 73     | 109  | 840   | 2190  | 1010  | 1520   | 155       | 44       | 34   | 39   | 317   |
| 26          | 53    | 72     | 113  | 757   | 1980  | 948   | 1900   | 155       | 45       | 31   | 36   | 507   |
| 27          | 54    | 74     | 116  | 668   | 1670  | 940   | 2290   | 136       | 45       | 31   | 34   | 623   |
| 28          | 54    | 80     | 115  | 604   | 1390  | 931   | 2360   | 123       | 42       | 32   | 33   | 561   |
| 29          | 54    | 88     | 114  | 561   | 1160  | 857   | 2330   | 113       | 40       | 36   | 37   | 421   |
| 30          | 53    | 90     | 111  | 532   | ---   | 775   | 2430   | 102       | 40       | 42   | 37   | 349   |
| 31          | 52    | ---    | 107  | 499   | ---   | 710   | ---    | 94        | ---      | 36   | 42   | ---   |
| TOTAL       | 2256  | 1945   | 2791 | 13730 | 26676 | 47844 | 31468  | 18118     | 1767     | 1235 | 1174 | 11667 |
| MEAN        | 72.8  | 64.8   | 90.0 | 443   | 920   | 1543  | 1049   | 584       | 58.9     | 39.8 | 37.9 | 389   |
| MAX         | 122   | 90     | 116  | 920   | 2220  | 3440  | 2430   | 2400      | 88       | 55   | 50   | 771   |
| MIN         | 52    | 51     | 71   | 105   | 371   | 710   | 327    | 94        | 40       | 31   | 31   | 48    |
| CFSM        | .07   | .06    | .08  | .40   | .83   | 1.39  | .95    | .53       | .05      | .04  | .03  | .35   |
| IN.         | .08   | .07    | .09  | .46   | .89   | 1.60  | 1.05   | .61       | .06      | .04  | .04  | .39   |
| CAL YR 1987 | TOTAL | 499109 | MEAN | 1367  | MAX   | 14100 | MIN 51 | CFSM 1.23 | IN 16.73 |      |      |       |
| WTR YR 1988 | TOTAL | 160671 | MEAN | 439   | MAX   | 3440  | MIN 31 | CFSM .40  | IN 5.38  |      |      |       |

## ALTAMAHA RIVER BASIN

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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 mi<sup>2</sup>, approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1030 | 2000                                            | 164                                               | 156                                                      | 7.80                           | 7.60                                  | 20.0                                 | 17.0                               | 8.5                                 | 93                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1315 | 1800                                            | 165                                               | 166                                                      | 7.50                           | 7.70                                  | 18.5                                 | 25.5                               | 11.5                                | 122                                                            |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1150 | 2770                                            | 140                                               | 150                                                      | 6.90                           | 7.60                                  | 13.5                                 | 11.5                               | 10.0                                | 95                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1130 | 5520                                            | 119                                               | 116                                                      | 7.20                           | 7.30                                  | 4.5                                  | 6.0                                | 12.0                                | 91                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 16... | 1210 | 14900                                           | 88                                                | 82                                                       | 7.00                           | 7.00                                  | 9.0                                  | 10.0                               | 10.2                                | 88                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1230 | 21900                                           | 63                                                | 61                                                       | 6.60                           | 6.70                                  | 14.0                                 | 10.5                               | 7.0                                 | 67                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1100 | 9620                                            | 97                                                | --                                                       | 7.40                           | 7.30                                  | 20.0                                 | 20.5                               | 7.4                                 | 81                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1100 | 9090                                            | 97                                                | 96                                                       | 6.80                           | 6.90                                  | 22.0                                 | 26.5                               | 6.7                                 | 76                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1050 | 2550                                            | 152                                               | 148                                                      | 8.00                           | 7.80                                  | 25.5                                 | 28.5                               | 8.0                                 | 97                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1200 | 1850                                            | 164                                               | 165                                                      | 7.70                           | 7.70                                  | 28.5                                 | 29.0                               | 7.5                                 | 96                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1115 | 1920                                            | 179                                               | 174                                                      | 7.70                           | 7.70                                  | 29.0                                 | 33.5                               | 6.7                                 | 87                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1030 | 5980                                            | 118                                               | 114                                                      | 7.00                           | 7.20                                  | 27.0                                 | 30.0                               | 6.3                                 | 79                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | TANNIN<br>AND<br>LIGNIN<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------|
| OCT   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 08... | 30                                           | 5.0                          | 1.7                                                            | 20                                               | 48                                                              | 9                                                                | 0.320                                                | 0.050                                                | 0.050                                       | 5.0                                           | <0.50                             |
| NOV   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 02... | 10                                           | 2.0                          | 1.0                                                            | 80                                               | 55                                                              | <1                                                               | 0.240                                                | 0.030                                                | 0.040                                       | --                                            | <0.50                             |
| DEC   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 02... | --                                           | 9.0                          | 0.9                                                            | 20                                               | 35                                                              | 25                                                               | 0.530                                                | 0.140                                                | 0.090                                       | 4.4                                           | 0.60                              |
| JAN   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 12... | 70                                           | 14                           | 1.2                                                            | 80                                               | 22                                                              | 23                                                               | 0.480                                                | 0.070                                                | 0.100                                       | 4.2                                           | 0.80                              |
| FEB   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 16... | 70                                           | 24                           | 1.1                                                            | 20                                               | 18                                                              | 20                                                               | 0.280                                                | 0.090                                                | 0.070                                       | 6.1                                           | 0.90                              |
| MAR   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 15... | 100                                          | 14                           | 1.3                                                            | 220                                              | 14                                                              | 9                                                                | 0.100                                                | <0.020                                               | 0.050                                       | 12                                            | 1.6                               |
| APR   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 20... | 70                                           | 20                           | 1.2                                                            | --                                               | 23                                                              | 26                                                               | 0.380                                                | <0.020                                               | 0.060                                       | 4.8                                           | <0.50                             |
| MAY   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 10... | --                                           | 17                           | 1.2                                                            | 80                                               | 27                                                              | 15                                                               | 0.360                                                | 0.110                                                | 0.080                                       | 7.2                                           | <0.50                             |
| JUN   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 14... | 20                                           | 8.0                          | 1.0                                                            | <20                                              | 45                                                              | 7                                                                | 0.200                                                | 0.050                                                | 0.040                                       | 2.3                                           | <0.50                             |
| JUL   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 12... | 10                                           | 8.0                          | 1.0                                                            | <20                                              | 47                                                              | 4                                                                | 0.260                                                | 0.030                                                | 0.060                                       | 3.0                                           | <5.0                              |
| AUG   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 17... | 15                                           | 8.0                          | 1.4                                                            | 50                                               | 42                                                              | 12                                                               | 0.470                                                | 0.060                                                | 0.070                                       | 3.3                                           | <0.50                             |
| SEP   |                                              |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |                                   |
| 20... | 90                                           | 15                           | 0.6                                                            | --                                               | 24                                                              | 17                                                               | 0.400                                                | 0.070                                                | 0.140                                       | 8.5                                           | 0.80                              |

## 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 mi<sup>2</sup>, 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.--57 years, 13,567 ft<sup>3</sup>/s, 13.55 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 178,000 ft<sup>3</sup>/s, Apr. 18, 1936, gage height, 16.03 ft, present datum; minimum 1,430 ft<sup>3</sup>/s, Oct. 27, 28, Nov. 1, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1800, 18.6 ft, present datum, Jan. 23, 1925, discharge, 300,000 ft<sup>3</sup>/s, from rating curve extended above 180,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Mar. 16 | 2400 | *23,700                           | *10.36              |

Minimum discharge, 1,660 ft<sup>3</sup>/s, July 26-29.

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     | 2240  | 1800  | 2720  | 3620   | 15300  | 17500  | 10800  | 21600  | 3290  | 1930  | 1750  | 1980   |
| 2     | 2210  | 1800  | 2770  | 3660   | 14200  | 16100  | 10600  | 22100  | 3180  | 1930  | 1740  | 2110   |
| 3     | 2180  | 1800  | 2780  | 3640   | 12800  | 14200  | 10000  | 22100  | 3060  | 1950  | 1760  | 2170   |
| 4     | 2120  | 1850  | 2790  | 3710   | 12000  | 12600  | 9240   | 21000  | 2940  | 1960  | 1730  | 2140   |
| 5     | 2080  | 1880  | 2790  | 3950   | 11700  | 11900  | 8680   | 18700  | 2810  | 1970  | 1740  | 2190   |
| 6     | 2080  | 1870  | 2770  | 4240   | 11700  | 12000  | 8200   | 16200  | 2720  | 1940  | 1810  | 2380   |
| 7     | 2040  | 1850  | 2700  | 4530   | 11600  | 12700  | 7960   | 14300  | 2650  | 1900  | 1830  | 2570   |
| 8     | 2000  | 1850  | 2630  | 4830   | 11400  | 13900  | 7810   | 12900  | 2600  | 1870  | 1840  | 2750   |
| 9     | 1970  | 1870  | 2550  | 5070   | 11500  | 15000  | 7700   | 11300  | 2540  | 1860  | 1800  | 2970   |
| 10    | 1950  | 1890  | 2500  | 5180   | 11900  | 15600  | 7360   | 9120   | 2540  | 1850  | 1770  | 3600   |
| 11    | 1940  | 1900  | 2490  | 5290   | 12500  | 15900  | 7070   | 7520   | 2510  | 1850  | 1820  | 5360   |
| 12    | 1930  | 1890  | 2480  | 5530   | 13100  | 16600  | 6980   | 6570   | 2530  | 1850  | 1920  | 6890   |
| 13    | 1900  | 1890  | 2430  | 5740   | 13900  | 17900  | 6720   | 5950   | 2540  | 1850  | 1990  | 7400   |
| 14    | 1860  | 1900  | 2380  | 5770   | 14600  | 19800  | 6380   | 5620   | 2550  | 1820  | 2000  | 7380   |
| 15    | 1830  | 1910  | 2380  | 5730   | 15000  | 21900  | 6270   | 5660   | 2520  | 1770  | 2010  | 7220   |
| 16    | 1820  | 1910  | 2430  | 5680   | 14800  | 23300  | 6750   | 5760   | 2470  | 1730  | 1990  | 7120   |
| 17    | 1800  | 1950  | 2460  | 5690   | 13800  | 23300  | 7570   | 5740   | 2400  | 1720  | 1930  | 7140   |
| 18    | 1790  | 2030  | 2490  | 5710   | 12700  | 21900  | 8220   | 5600   | 2330  | 1730  | 1920  | 7000   |
| 19    | 1780  | 2070  | 2500  | 5700   | 13100  | 20000  | 9020   | 5330   | 2260  | 1780  | 1940  | 6420   |
| 20    | 1790  | 2100  | 2520  | 5990   | 13900  | 18000  | 9650   | 5050   | 2190  | 1820  | 1910  | 5970   |
| 21    | 1800  | 2150  | 2570  | 6800   | 15000  | 16500  | 10400  | 4880   | 2120  | 1770  | 1870  | 5860   |
| 22    | 1820  | 2250  | 2690  | 7890   | 16200  | 15500  | 11500  | 4720   | 2070  | 1740  | 1860  | 5890   |
| 23    | 1810  | 2390  | 2880  | 9090   | 17600  | 14700  | 13100  | 4640   | 2030  | 1770  | 1850  | 5860   |
| 24    | 1820  | 2540  | 3100  | 10400  | 19200  | 14000  | 14800  | 4600   | 2020  | 1730  | 1860  | 5720   |
| 25    | 1830  | 2700  | 3200  | 11600  | 20400  | 13300  | 16300  | 4390   | 2010  | 1670  | 1850  | 5610   |
| 26    | 1840  | 2790  | 3150  | 12500  | 20900  | 12600  | 18500  | 4100   | 1980  | 1660  | 1800  | 5700   |
| 27    | 1840  | 2760  | 3070  | 13300  | 20600  | 11900  | 19000  | 3850   | 1960  | 1660  | 1820  | 6170   |
| 28    | 1820  | 2710  | 3090  | 14100  | 19700  | 11100  | 19100  | 3670   | 1920  | 1660  | 1900  | 6370   |
| 29    | 1790  | 2660  | 3260  | 14700  | 18600  | 10500  | 19600  | 3550   | 1910  | 1660  | 1920  | 6090   |
| 30    | 1770  | 2670  | 3400  | 15300  | ---    | 10300  | 20500  | 3480   | 1900  | 1700  | 1880  | 5560   |
| 31    | 1780  | ---   | 3530  | 15600  | ---    | 10600  | ---    | 3390   | ---   | 1760  | 1890  | ---    |
| TOTAL | 59230 | 63630 | 85500 | 230540 | 429700 | 481100 | 325780 | 273390 | 72550 | 55860 | 57700 | 151590 |
| MEAN  | 1911  | 2121  | 2758  | 7437   | 14820  | 15520  | 10860  | 8819   | 2418  | 1802  | 1861  | 5053   |
| MAX   | 2240  | 2790  | 3530  | 15600  | 20900  | 23300  | 20500  | 22100  | 3290  | 1970  | 2010  | 7400   |
| MIN   | 1770  | 1800  | 2380  | 3620   | 11400  | 10300  | 6270   | 3390   | 1900  | 1660  | 1730  | 1980   |
| CFSM  | .14   | .16   | .20   | .55    | 1.09   | 1.14   | .80    | .65    | .18   | .13   | .14   | .37    |
| IN.   | .16   | .17   | .23   | .63    | 1.18   | 1.32   | .89    | .75    | .20   | .15   | .16   | .41    |

|             |       |         |      |       |     |       |     |      |      |      |    |       |
|-------------|-------|---------|------|-------|-----|-------|-----|------|------|------|----|-------|
| CAL YR 1987 | TOTAL | 5492870 | MEAN | 15050 | MAX | 75200 | MIN | 1770 | CFSM | 1.11 | IN | 15.02 |
| WTR YR 1988 | TOTAL | 2286570 | MEAN | 6247  | MAX | 23300 | MIN | 1660 | CFSM | .46  | IN | 6.25  |



## ALTAMAHA RIVER BASIN

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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 mi<sup>2</sup>, approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1000 | 2030                                            | 263                                               | 253                                                      | 7.60                           | 7.50                                  | 21.0                                 | 17.0                               | 7.0                                 | 78                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1200 | 1800                                            | 290                                               | 303                                                      | 7.40                           | 7.50                                  | 18.5                                 | 25.5                               | 9.4                                 | 99                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1050 | 2750                                            | 245                                               | 250                                                      | 7.10                           | 7.70                                  | 14.5                                 | 17.0                               | 8.4                                 | 82                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1100 | 5370                                            | 164                                               | 163                                                      | 7.10                           | 7.30                                  | 9.0                                  | 6.0                                | 12.1                                | 102                                                            |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 16... | 1120 | 15100                                           | 110                                               | 103                                                      | 7.10                           | 7.10                                  | 9.0                                  | 11.0                               | 9.6                                 | 83                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1200 | 20800                                           | 79                                                | 74                                                       | 6.60                           | 6.60                                  | 14.0                                 | 10.5                               | 7.0                                 | 67                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1000 | 9340                                            | 127                                               | 130                                                      | 7.40                           | 7.40                                  | 20.0                                 | 20.5                               | 7.5                                 | 82                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1030 | 10400                                           | 125                                               | 124                                                      | 6.80                           | 7.00                                  | 22.0                                 | 26.5                               | 6.2                                 | 70                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 0945 | 2550                                            | 251                                               | 243                                                      | 7.70                           | 7.60                                  | 26.0                                 | 28.5                               | 6.2                                 | 76                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 12... | 1130 | 1860                                            | 275                                               | 281                                                      | 7.10                           | 7.60                                  | 29.0                                 | 29.0                               | 4.8                                 | 62                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1045 | 1970                                            | 301                                               | 292                                                      | 7.60                           | 7.70                                  | 29.5                                 | 33.5                               | 5.5                                 | 72                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 0940 | 6180                                            | 155                                               | 155                                                      | 7.00                           | 7.50                                  | 27.0                                 | 32.5                               | 5.5                                 | 69                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 08... | 90                                           | 7.0                          | --                                                             | 2.4                                                            | <20                                              | 61                                                              | 16                                                               |
| NOV   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 02... | 110                                          | 3.0                          | --                                                             | 1.2                                                            | 80                                               | 69                                                              | 3                                                                |
| DEC   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 02... | --                                           | 8.0                          | --                                                             | 2.0                                                            | <20                                              | 51                                                              | 20                                                               |
| JAN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 12... | 120                                          | 13                           | --                                                             | 1.2                                                            | 20                                               | 35                                                              | 20                                                               |
| FEB   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 16... | 95                                           | 22                           | --                                                             | 1.3                                                            | 35                                               | 21                                                              | 17                                                               |
| MAR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 15... | 100                                          | 15                           | --                                                             | 1.2                                                            | 230                                              | 21                                                              | 11                                                               |
| APR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 20... | 90                                           | 20                           | --                                                             | 1.0                                                            | --                                               | 29                                                              | 25                                                               |
| MAY   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 10... | --                                           | 16                           | --                                                             | 1.2                                                            | <20                                              | 29                                                              | 11                                                               |
| JUN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 14... | 100                                          | 10                           | --                                                             | 1.2                                                            | 20                                               | 59                                                              | 7                                                                |
| JUL   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 12... | 120                                          | 7.0                          | --                                                             | 2.0                                                            | 20                                               | 62                                                              | 3                                                                |
| AUG   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 17... | 110                                          | 9.0                          | 18                                                             | 1.6                                                            | 40                                               | 55                                                              | 11                                                               |
| SEP   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 20... | 110                                          | 15                           | 30                                                             | 0.7                                                            | --                                               | 28                                                              | 14                                                               |

## ALTAMAHA RIVER BASIN

02226010 ALTAMAHA RIVER NEAR GARDI, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | TANNIN<br>AND<br>LIGNIN<br>(MG/L) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------|
| OCT<br>08... | 0.280                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.090                                       | 7.8                                           | 1.6                               |
| NOV<br>02... | 0.240                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.100                                       | --                                            | 2.7                               |
| DEC<br>02... | 0.460                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.110                                       | 11                                            | 2.4                               |
| JAN<br>12... | 0.510                                                | 0.110                                                | --                                                   | --                                                                 | --                                        | 0.110                                       | 6.9                                           | 1.3                               |
| FEB<br>16... | 0.250                                                | 0.120                                                | --                                                   | --                                                                 | --                                        | 0.080                                       | 6.4                                           | 1.1                               |
| MAR<br>15... | 0.100                                                | 0.040                                                | --                                                   | --                                                                 | --                                        | 0.060                                       | 13                                            | 1.8                               |
| APR<br>20... | 0.370                                                | <0.020                                               | --                                                   | --                                                                 | --                                        | 0.050                                       | 5.8                                           | 0.60                              |
| MAY<br>10... | 0.290                                                | 0.100                                                | --                                                   | --                                                                 | --                                        | 0.090                                       | 8.3                                           | 1.1                               |
| JUN<br>14... | 0.170                                                | 0.130                                                | --                                                   | --                                                                 | --                                        | 0.090                                       | 10                                            | 2.1                               |
| JUL<br>12... | 0.300                                                | 0.130                                                | --                                                   | --                                                                 | --                                        | 0.110                                       | 9.4                                           | 2.2                               |
| AUG<br>17... | 0.460                                                | 0.140                                                | 0.66                                                 | 0.80                                                               | 1.3                                       | 0.110                                       | 10                                            | <0.50                             |
| SEP<br>20... | 0.360                                                | 0.060                                                | 0.54                                                 | 0.60                                                               | 0.96                                      | 0.170                                       | 13                                            | 1.7                               |

## ALTAMAHA RIVER BASIN

163

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 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 19.09 ft above National Geodetic Vertical Datum of 1929. Since May 6, 1966, auxiliary water-stage recorder at highway bridge, 2.5 mi downstream.

REMARKS.--No estimated daily discharges. Records good, except those nonzero discharges less than 20 ft<sup>3</sup>/s, which are fair, and those periods affected by beaver activity, Nov. 20 to Dec. 8, Dec. 15-30, and May 25 to June 28, which are poor.

AVERAGE DISCHARGE.--30 years, 192 ft<sup>3</sup>/s, 12.42 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Feb. 22 | 1300 | *1,500                            | *11.74              |

Minimum daily discharge, no flow on many days.

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           | 5.0   | .00      | 1.9   | 1.3    | 99    | 441  | 35   | 110     | .02   | .00  | .00  | .14     |
| 2           | 2.9   | .00      | 1.9   | 1.8    | 92    | 370  | 29   | 109     | .00   | .00  | .00  | 3.4     |
| 3           | 1.8   | .00      | 1.5   | 4.7    | 86    | 320  | 26   | 93      | .00   | .00  | .00  | 4.2     |
| 4           | 1.1   | .00      | 1.0   | 10     | 80    | 322  | 24   | 83      | .00   | .00  | .00  | 4.9     |
| 5           | .61   | .15      | .67   | 12     | 85    | 381  | 20   | 70      | .00   | .00  | .00  | 10      |
| 6           | .36   | 1.1      | .49   | 11     | 131   | 431  | 18   | 55      | .19   | .00  | .00  | 30      |
| 7           | .17   | 1.4      | .25   | 11     | 155   | 459  | 20   | 39      | .30   | .00  | .00  | 54      |
| 8           | .07   | .89      | .38   | 16     | 180   | 452  | 19   | 29      | 1.1   | .00  | .00  | 91      |
| 9           | .01   | .54      | .11   | 19     | 186   | 411  | 26   | 21      | 2.9   | .00  | .00  | 161     |
| 10          | .00   | .43      | .15   | 24     | 172   | 360  | 24   | 17      | 5.4   | .00  | .00  | 224     |
| 11          | .00   | .33      | .33   | 30     | 148   | 317  | 20   | 16      | 7.5   | .00  | .00  | 266     |
| 12          | .00   | .27      | .87   | 29     | 125   | 290  | 19   | 14      | 7.8   | .00  | .00  | 281     |
| 13          | .00   | .27      | .27   | 26     | 105   | 265  | 23   | 11      | 7.2   | .00  | .00  | 258     |
| 14          | .00   | .27      | .10   | 22     | 92    | 228  | 22   | 10      | 7.1   | .00  | .00  | 183     |
| 15          | .00   | .25      | .64   | 18     | 84    | 188  | 22   | 25      | 6.7   | .00  | .00  | 96      |
| 16          | .00   | .34      | 1.6   | 15     | 83    | 155  | 23   | 58      | 6.0   | .00  | .00  | 50      |
| 17          | .00   | 1.1      | 1.9   | 14     | 77    | 132  | 18   | 60      | 5.1   | .00  | .00  | 35      |
| 18          | .00   | 3.3      | 3.2   | 19     | 76    | 114  | 13   | 54      | 4.4   | .00  | .00  | 51      |
| 19          | .00   | 5.0      | 2.7   | 27     | 246   | 106  | 88   | 55      | 4.0   | .00  | .00  | 49      |
| 20          | .00   | 4.2      | 2.2   | 42     | 611   | 95   | 170  | 37      | 3.4   | .00  | .00  | 43      |
| 21          | .00   | 3.6      | 1.8   | 95     | 1190  | 85   | 193  | 19      | 3.0   | .00  | .00  | 36      |
| 22          | .00   | 2.6      | 2.5   | 141    | 1480  | 76   | 187  | 10      | 2.3   | .00  | .00  | 32      |
| 23          | .00   | 2.7      | 2.9   | 162    | 1420  | 66   | 178  | 6.1     | 1.6   | .00  | .00  | 25      |
| 24          | .00   | 2.2      | 3.4   | 184    | 1260  | 58   | 152  | 3.0     | .98   | .00  | .00  | 17      |
| 25          | .00   | 2.6      | 2.9   | 192    | 1100  | 60   | 110  | 3.3     | .57   | .00  | .00  | 11      |
| 26          | .00   | 2.2      | 2.6   | 175    | 947   | 64   | 151  | 5.1     | .27   | .00  | .00  | 22      |
| 27          | .00   | 2.1      | 2.2   | 154    | 791   | 65   | 223  | 3.4     | .11   | .00  | .00  | 28      |
| 28          | .00   | 1.9      | 1.9   | 138    | 653   | 65   | 165  | 2.1     | .03   | .00  | .00  | 23      |
| 29          | .00   | .89      | 2.3   | 125    | 530   | 60   | 127  | 1.1     | .02   | .00  | .00  | 16      |
| 30          | .00   | .98      | 2.3   | 115    | ---   | 51   | 106  | .32     | .00   | .00  | .00  | 17      |
| 31          | .00   | ---      | 1.2   | 106    | ---   | 42   | ---  | .05     | ---   | .00  | .00  | ---     |
| TOTAL       | 12.02 | 41.61    | 48.16 | 1939.8 | 12284 | 6529 | 2251 | 1019.47 | 77.99 | .00  | .00  | 2121.64 |
| MEAN        | .39   | 1.39     | 1.55  | 62.6   | 424   | 211  | 75.0 | 32.9    | 2.60  | .000 | .000 | 70.7    |
| MAX         | 5.0   | 5.0      | 3.4   | 192    | 1480  | 459  | 223  | 110     | 7.8   | .00  | .00  | 281     |
| MIN         | .00   | .00      | .10   | 1.3    | 76    | 42   | 13   | .05     | .00   | .00  | .00  | .14     |
| CFSM        | .002  | .007     | .007  | .30    | 2.02  | 1.01 | .36  | .16     | .01   | .000 | .000 | .34     |
| IN.         | .00   | .01      | .01   | .34    | 2.18  | 1.16 | .40  | .18     | .01   | .00  | .00  | .38     |
| CAL YR 1987 | TOTAL | 70450.06 | MEAN  | 193    | MAX   | 1600 | MIN  | .00     | CFSM  | .92  | IN   | 12.48   |
| WTR YR 1988 | TOTAL | 26324.69 | MEAN  | 71.9   | MAX   | 1480 | MIN  | .00     | CFSM  | .34  | IN   | 4.66    |

## ALTAMAHA RIVER BASIN

02226100 PENHOLWAY CREEK NEAR JESUP, GA.--Continued

## WATER-QUALITY RECORDS

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

|  |  | DATE         | TIME                                                 | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS)               | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)                  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)                    | PH<br>(STAND-<br>ARD<br>UNITS)                                     | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)                               | TEMPER-<br>ATURE<br>WATER<br>(DEG C)                 | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)                     | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |                                                               |                                                      |                                                               |
|--|--|--------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
|  |  | MAR<br>15... | 1030                                                 | 190                                                           | 82                                                                 | 77                                                                          | 4.04                                                               | 4.10                                                                | 11.0                                                 | 7.2                                                     | 65                                                             |                                                               |                                                      |                                                               |
|  |  | DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)         | TUR-<br>BID-<br>ITY<br>(FTU)                                  | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CACO3)                    | HARD-<br>NESS<br>NONCARB<br>WH TOT LAB<br>MG/L AS<br>CACO3                  | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)                       | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)                | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)         | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO                 | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)            | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L)     |                                                      |                                                               |
|  |  | MAR<br>15... | 240                                                  | 1.4                                                           | 8                                                                  | 7                                                                           | 1.6                                                                | 1.0                                                                 | 5.1                                                  | 50                                                      | 0.8                                                            | 2.4                                                           | <1.0                                                 |                                                               |
|  |  | DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)        | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)           | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)                 | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2)                           | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY)    | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT)     | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)           | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) |
|  |  | MAR<br>15... | 24                                                   | 10                                                            | 0.10                                                               | 9.4                                                                         | 114                                                                | 56                                                                  | 58.5                                                 | 0.16                                                    | <0.100                                                         | 0.140                                                         | 0.070                                                | 0.080                                                         |
|  |  | DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N)                          | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)                   | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P)          | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)    | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)                  | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL)           | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)                  | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS)                  |
|  |  | MAR<br>15... | 1.1                                                  | 1.0                                                           | 1.2                                                                | 1.1                                                                         | --                                                                 | 1.3                                                                 | 0.020                                                | 0.020                                                   | 36                                                             | 1000                                                          | <1                                                   | <1                                                            |
|  |  | DATE         | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD)         | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR)           | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU)                       | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)                                  | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)              | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB)                          | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG)                   | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE)           | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN)           |                                                               |
|  |  | MAR<br>15... | <1                                                   | 1                                                             | 2                                                                  | 940                                                                         | <5                                                                 | <5                                                                  | 21                                                   | <0.10                                                   | <0.1                                                           | <1                                                            | 13                                                   |                                                               |

## ALTAMAHA RIVER BASIN

165

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 mi<sup>2</sup>, 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 analyses with the analyzing agency codes 80020 and 84213 are provided by the U.S. Geological Survey. Laboratory 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANALYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) |
|-------|------|---------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|
| OCT   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 08... | 0700 | 80020                                             | 2050                                            | 296                                               | 304                                                      | 7.80                           | 8.00                                  |
| 08... | 0710 | 81341                                             | 2050                                            | 296                                               | 274                                                      | 7.80                           | 7.50                                  |
| NOV   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 02... | 0950 | 81341                                             | 1800                                            | 280                                               | 297                                                      | 7.50                           | 7.50                                  |
| DEC   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 02... | 0840 | 81341                                             | 2710                                            | 260                                               | 264                                                      | 7.10                           | 7.70                                  |
| JAN   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 12... | 0830 | 80020                                             | 5260                                            | 169                                               | 177                                                      | 7.31                           | 7.70                                  |
| 12... | 0835 | 81341                                             | 5260                                            | 169                                               | 164                                                      | 7.31                           | 7.60                                  |
| FEB   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 16... | 0900 | 81341                                             | 14900                                           | 108                                               | 108                                                      | 7.10                           | 7.00                                  |
| MAR   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 15... | 0830 | 80020                                             | 19400                                           | 88                                                | 91                                                       | 6.95                           | 7.00                                  |
| 15... | 0835 | 81341                                             | 19400                                           | 88                                                | 86                                                       | 7.00                           | 7.30                                  |
| APR   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 20... | 0815 | 81341                                             | 9000                                            | 114                                               | 117                                                      | 7.30                           | 7.30                                  |
| MAY   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 10... | 0730 | 80020                                             | 11700                                           | 108                                               | 108                                                      | 6.90                           | 7.30                                  |
| 10... | 0740 | 81341                                             | 11700                                           | 108                                               | 106                                                      | 6.90                           | 7.60                                  |
| JUN   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 14... | 0730 | 81341                                             | 2540                                            | 259                                               | 249                                                      | 7.60                           | 7.50                                  |
| JUL   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 12... | 0830 | 80020                                             | 1840                                            | 280                                               | 296                                                      | 7.69                           | 7.70                                  |
| 12... | 0835 | 81341                                             | 1840                                            | 280                                               | 286                                                      | 7.69                           | 7.60                                  |
| AUG   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 17... | 0730 | 80020                                             | 2000                                            | 283                                               | 286                                                      | 7.73                           | 7.80                                  |
| 17... | 0735 | 81341                                             | 2000                                            | 283                                               | 273                                                      | 7.70                           | 7.70                                  |
| SEP   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |
| 20... | 0735 | 81341                                             | 6510                                            | 155                                               | 149                                                      | 6.90                           | 7.10                                  |



## ALTAMAHA RIVER BASIN

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>MG/L AS<br>HCO3 | ALKA-<br>LINITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |
|-------|--------------------------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|
| OCT   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 08... | 80020                                                  | 21.0                                 | 14.0                               | 6.5                                 | 72                                                             | 81                                                              | 66                                                                | --                                                              | 67                                                          |
| 08... | 81341                                                  | 21.0                                 | 14.0                               | 6.5                                 | 72                                                             | --                                                              | --                                                                | 66                                                              | --                                                          |
| NOV   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 02... | 81341                                                  | 18.5                                 | 21.5                               | 8.8                                 | 93                                                             | --                                                              | --                                                                | 65                                                              | --                                                          |
| DEC   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 02... | 81341                                                  | 14.0                                 | 5.5                                | 7.4                                 | 71                                                             | --                                                              | --                                                                | 51                                                              | --                                                          |
| JAN   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 12... | 80020                                                  | 6.0                                  | 2.0                                | 11.7                                | 92                                                             | 41                                                              | 34                                                                | --                                                              | 34                                                          |
| 12... | 81341                                                  | 6.0                                  | 2.0                                | 11.7                                | 92                                                             | --                                                              | --                                                                | 35                                                              | --                                                          |
| FEB   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 16... | 81341                                                  | 9.0                                  | 5.5                                | 9.4                                 | 81                                                             | --                                                              | --                                                                | 18                                                              | --                                                          |
| MAR   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 15... | 80020                                                  | 15.0                                 | 5.0                                | 7.2                                 | 71                                                             | 19                                                              | 17                                                                | --                                                              | 17                                                          |
| 15... | 81341                                                  | 15.0                                 | 5.0                                | 7.2                                 | 71                                                             | --                                                              | --                                                                | 26                                                              | --                                                          |
| APR   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 20... | 81341                                                  | 20.0                                 | 19.0                               | 6.8                                 | 75                                                             | --                                                              | --                                                                | 28                                                              | --                                                          |
| MAY   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 10... | 80020                                                  | 21.0                                 | 21.5                               | 6.3                                 | 70                                                             | 30                                                              | 25                                                                | --                                                              | 26                                                          |
| 10... | 81341                                                  | 21.0                                 | 21.5                               | 6.3                                 | 70                                                             | --                                                              | --                                                                | 25                                                              | --                                                          |
| JUN   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 14... | 81341                                                  | 26.0                                 | 24.5                               | 5.7                                 | 70                                                             | --                                                              | --                                                                | 57                                                              | --                                                          |
| JUL   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 12... | 80020                                                  | 28.5                                 | 26.0                               | 5.0                                 | 64                                                             | 72                                                              | 59                                                                | --                                                              | 65                                                          |
| 12... | 81341                                                  | 28.5                                 | 26.0                               | 5.0                                 | 64                                                             | --                                                              | --                                                                | 61                                                              | --                                                          |
| AUG   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 17... | 80020                                                  | 29.0                                 | 27.5                               | 5.3                                 | 68                                                             | 99                                                              | 81                                                                | --                                                              | 58                                                          |
| 17... | 81341                                                  | 29.0                                 | 27.5                               | 5.3                                 | 68                                                             | --                                                              | --                                                                | 55                                                              | --                                                          |
| SEP   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 20... | 81341                                                  | 26.0                                 | 26.5                               | 5.2                                 | 64                                                             | --                                                              | --                                                                | 24                                                              | --                                                          |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>BROTH<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCHI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 |
|-------|--------------------------------------------------------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 08... | 80020                                                  | --                                           | 5.6                          | --                                                             | --                                               | 22                                                                      | 110                                                                 | 50                                              | 0                                                                 |
| 08... | 81341                                                  | 110                                          | 8.0                          | 2.5                                                            | 20                                               | --                                                                      | --                                                                  | --                                              | --                                                                |
| NOV   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 02... | 81341                                                  | --                                           | 1.0                          | 1.1                                                            | 20                                               | --                                                                      | --                                                                  | --                                              | --                                                                |
| DEC   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 02... | 81341                                                  | --                                           | 6.0                          | 1.6                                                            | 70                                               | --                                                                      | --                                                                  | --                                              | --                                                                |
| JAN   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 12... | 80020                                                  | --                                           | 13                           | --                                                             | --                                               | 67                                                                      | 58                                                                  | 33                                              | 0                                                                 |
| 12... | 81341                                                  | 120                                          | 10                           | 1.5                                                            | 60                                               | --                                                                      | --                                                                  | --                                              | --                                                                |
| FEB   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 16... | 81341                                                  | 90                                           | 17                           | 1.4                                                            | 50                                               | --                                                                      | --                                                                  | --                                              | --                                                                |
| MAR   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 15... | 80020                                                  | --                                           | 8.5                          | --                                                             | --                                               | 120                                                                     | 150                                                                 | 20                                              | 3                                                                 |
| 15... | 81341                                                  | --                                           | 11                           | 1.1                                                            | 50                                               | --                                                                      | --                                                                  | --                                              | --                                                                |
| APR   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 20... | 81341                                                  | 90                                           | 19                           | 1.6                                                            | --                                               | --                                                                      | --                                                                  | --                                              | --                                                                |
| MAY   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 10... | 80020                                                  | --                                           | 13                           | --                                                             | --                                               | 76                                                                      | --                                                                  | 27                                              | 1                                                                 |
| 10... | 81341                                                  | --                                           | 15                           | 1.3                                                            | 20                                               | --                                                                      | --                                                                  | --                                              | --                                                                |
| JUN   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 14... | 81341                                                  | 120                                          | 10                           | 1.5                                                            | <20                                              | --                                                                      | --                                                                  | --                                              | --                                                                |
| JUL   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 12... | 80020                                                  | --                                           | 3.7                          | --                                                             | --                                               | --                                                                      | --                                                                  | 49                                              | 0                                                                 |
| 12... | 81341                                                  | 140                                          | 6.0                          | 1.5                                                            | <20                                              | --                                                                      | --                                                                  | --                                              | --                                                                |
| AUG   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 17... | 80020                                                  | --                                           | 4.2                          | --                                                             | --                                               | 110                                                                     | 220                                                                 | 45                                              | 0                                                                 |
| 17... | 81341                                                  | 100                                          | 6.0                          | 0.7                                                            | <20                                              | --                                                                      | --                                                                  | --                                              | --                                                                |
| SEP   |                                                        |                                              |                              |                                                                |                                                  |                                                                         |                                                                     |                                                 |                                                                   |
| 20... | 81341                                                  | --                                           | 14                           | 0.7                                                            | --                                               | --                                                                      | --                                                                  | --                                              | --                                                                |

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) |
|-----------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|
| OCT 08... | 80020                                                  | 16                                           | 2.5                                                  | 41                                           | 63                | 3                                       | 1.0                                                 |
| JAN 12... | 80020                                                  | 10                                           | 1.9                                                  | 21                                           | 56                | 2                                       | 2.8                                                 |
| MAR 15... | 80020                                                  | 5.7                                          | 1.4                                                  | 8.8                                          | 46                | 0.9                                     | 1.8                                                 |
| MAY 10... | 80020                                                  | 7.9                                          | 1.8                                                  | 11                                           | 44                | 1                                       | 2.4                                                 |
| JUL 12... | 80020                                                  | 15                                           | 2.8                                                  | 42                                           | 63                | 3                                       | 2.8                                                 |
| AUG 17... | 80020                                                  | 14                                           | 2.5                                                  | 41                                           | 65                | 3                                       | 2.6                                                 |

| DATE      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>PER<br>DAY | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) |
|-----------|--------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|
| OCT 08... | 80020                                                  | 189                                                                | 175                                                                 | 1050                                    | 0.26                                                | 38                                            | 24                                                  | 0.20                                               | 11                                                |
| JAN 12... | 80020                                                  | 114                                                                | 109                                                                 | 1620                                    | 0.16                                                | 23                                            | 15                                                  | 0.20                                               | 12                                                |
| MAR 15... | 80020                                                  | 79                                                                 | 60                                                                  | 4140                                    | 0.11                                                | 14                                            | 9.6                                                 | 0.10                                               | 8.2                                               |
| MAY 10... | 80020                                                  | 83                                                                 | 78                                                                  | 2620                                    | 0.11                                                | 14                                            | 12                                                  | 0.20                                               | 11                                                |
| JUL 12... | 80020                                                  | 185                                                                | 180                                                                 | 919                                     | 0.25                                                | 38                                            | 25                                                  | 0.20                                               | 12                                                |
| AUG 17... | 80020                                                  | 181                                                                | 185                                                                 | 977                                     | 0.25                                                | 40                                            | 23                                                  | 0.20                                               | 12                                                |

| DATE      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|--------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| OCT 08... | 80020                                                  | <0.010                                                        | --                                                   | 0.240                                                         | 0.050                                                | 0.050                                                         | 0.65                                                 | 0.70                                                               | 0.070                                       | 0.050                                                | 0.030                                                          | --                                            |
| OCT 08... | 81341                                                  | --                                                            | 0.250                                                | --                                                            | 0.090                                                | --                                                            | --                                                   | --                                                                 | 0.090                                       | --                                                   | --                                                             | 9.8                                           |
| NOV 02... | 81341                                                  | --                                                            | 0.280                                                | --                                                            | 0.100                                                | --                                                            | --                                                   | --                                                                 | 0.110                                       | --                                                   | --                                                             | --                                            |
| DEC 02... | 81341                                                  | --                                                            | 0.510                                                | --                                                            | 0.090                                                | --                                                            | --                                                   | --                                                                 | 0.100                                       | --                                                   | --                                                             | 11                                            |
| JAN 12... | 80020                                                  | 0.030                                                         | --                                                   | 0.440                                                         | 0.110                                                | 0.040                                                         | 0.09                                                 | 0.20                                                               | 0.100                                       | 0.070                                                | 0.050                                                          | --                                            |
| JAN 12... | 81341                                                  | --                                                            | 0.450                                                | --                                                            | 0.110                                                | --                                                            | --                                                   | --                                                                 | 0.100                                       | --                                                   | --                                                             | 7.2                                           |
| FEB 16... | 81341                                                  | --                                                            | 0.200                                                | --                                                            | 0.090                                                | --                                                            | --                                                   | --                                                                 | 0.060                                       | --                                                   | --                                                             | 6.9                                           |
| MAR 15... | 80020                                                  | <0.010                                                        | --                                                   | <0.100                                                        | 0.040                                                | 0.060                                                         | 0.66                                                 | 0.70                                                               | 0.040                                       | 0.030                                                | <0.010                                                         | --                                            |
| MAR 15... | 81341                                                  | --                                                            | 0.090                                                | --                                                            | 0.030                                                | --                                                            | --                                                   | --                                                                 | 0.050                                       | --                                                   | --                                                             | 12                                            |
| APR 20... | 81341                                                  | --                                                            | 0.340                                                | --                                                            | <0.020                                               | --                                                            | --                                                   | --                                                                 | 0.060                                       | --                                                   | --                                                             | 6.2                                           |
| MAY 10... | 80020                                                  | 0.010                                                         | --                                                   | 0.320                                                         | 0.050                                                | 0.040                                                         | 0.75                                                 | 0.80                                                               | 0.060                                       | 0.060                                                | 0.030                                                          | --                                            |
| MAY 10... | 81341                                                  | --                                                            | 0.220                                                | --                                                            | 0.080                                                | --                                                            | --                                                   | --                                                                 | 0.080                                       | --                                                   | --                                                             | 10                                            |
| JUN 14... | 81341                                                  | --                                                            | 0.190                                                | --                                                            | 0.110                                                | --                                                            | --                                                   | --                                                                 | 0.080                                       | --                                                   | --                                                             | 9.4                                           |
| JUL 12... | 80020                                                  | 0.010                                                         | --                                                   | 0.670                                                         | 0.070                                                | 0.060                                                         | 0.23                                                 | 0.30                                                               | 0.070                                       | 0.060                                                | 0.040                                                          | --                                            |
| JUL 12... | 81341                                                  | --                                                            | 0.340                                                | --                                                            | 0.070                                                | --                                                            | --                                                   | --                                                                 | 0.090                                       | --                                                   | --                                                             | 9.1                                           |
| AUG 17... | 80020                                                  | 0.010                                                         | --                                                   | 0.330                                                         | <0.010                                               | 0.040                                                         | --                                                   | 0.60                                                               | 0.090                                       | 0.070                                                | 0.040                                                          | --                                            |
| AUG 17... | 81341                                                  | --                                                            | 0.410                                                | --                                                            | 0.140                                                | --                                                            | --                                                   | --                                                                 | 0.090                                       | --                                                   | --                                                             | 7.6                                           |
| SEP 20... | 81341                                                  | --                                                            | 0.300                                                | --                                                            | 0.030                                                | --                                                            | --                                                   | --                                                                 | 0.140                                       | --                                                   | --                                                             | 12                                            |

## ALTAMAHA RIVER BASIN

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|-----------|--------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| OCT 08... | 80020                                                  | 40                                                  | <1                                           | 30                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 2                                            | 210                                        | <5                                         |
| JAN 12... | 80020                                                  | 90                                                  | 1                                            | 26                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 1                                            | 320                                        | <5                                         |
| MAY 10... | 80020                                                  | 90                                                  | <1                                           | 36                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 3                                            | 620                                        | <5                                         |
| AUG 17... | 80020                                                  | 40                                                  | 1                                            | 28                                           | <0.5                                                 | <1                                           | 2                                                   | <3                                           | 3                                            | 120                                        | <5                                         |

| DATE      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|-----------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| OCT 08... | 80020                                                  | 4                                            | 85                                                   | <0.1                                         | <10                                                   | 2                                            | <1                                                  | <1.0                                         | 67                                                   | <6                                                 | 5                                          |
| JAN 12... | 80020                                                  | <4                                           | 39                                                   | <0.1                                         | <10                                                   | <1                                           | <1                                                  | <1.0                                         | 42                                                   | <6                                                 | 14                                         |
| MAY 10... | 80020                                                  | <4                                           | 34                                                   | 1.3                                          | <10                                                   | 3                                            | <1                                                  | <1.0                                         | 40                                                   | <6                                                 | 3                                          |
| AUG 17... | 80020                                                  | <4                                           | 77                                                   | <0.1                                         | <10                                                   | 1                                            | <1                                                  | <1.0                                         | 66                                                   | <6                                                 | 25                                         |

| DATE      | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|-----------|------|--------------------------------------------------------|-------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| OCT 08... | 0705 | 84213                                                  | 2050                                            | 21.0                                 | 19                                        | 105                                                           | 73                                                            |
| JAN 12... | 0840 | 84213                                                  | 5260                                            | 6.0                                  | 21                                        | 298                                                           | 88                                                            |
| MAR 15... | 0840 | 84213                                                  | 19400                                           | 15.0                                 | 11                                        | 576                                                           | 69                                                            |
| MAY 10... | 0735 | 84213                                                  | 11700                                           | 21.0                                 | 14                                        | 442                                                           | 87                                                            |
| JUL 12... | 0840 | 84213                                                  | 1840                                            | 28.5                                 | 8                                         | 40                                                            | 89                                                            |
| AUG 17... | 0740 | 84213                                                  | 2000                                            | 29.0                                 | 11                                        | 59                                                            | 76                                                            |

| DATE      | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | GROSS<br>ALPHA,<br>DIS-<br>SOLVED<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>ALPHA,<br>SUSP.<br>TOTAL<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>YT-90) | GROSS<br>BETA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS<br>YT-90) | RADIUM<br>226,<br>DIS-<br>SOLVED<br>(PCI/L<br>METHOD<br>(PCI/L) | URANIUM<br>NATURAL<br>DIS-<br>SOLVED<br>(UG/L<br>AS U) |
|-----------|------|--------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|
| OCT 08... | 0700 | 80020                                                  | 2050                                            | 1.0                                                        | <0.4                                                       | 3.7                                                         | <0.4                                                        | 2.8                                                        | <0.4                                                       | 0.02                                                            | 0.09                                                   |
| MAY 10... | 0730 | 80020                                                  | 11700                                           | <0.4                                                       | 0.7                                                        | 2.7                                                         | 0.4                                                         | 2.3                                                        | 0.4                                                        | 0.06                                                            | 0.11                                                   |

## LAKES AND RESERVOIRS IN ALTAMAHA RIVER BASIN

169

## 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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet)† | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|----------------------|-------------------------|--------------------|------------------------------------------|
|               |                      |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 523.9                | 80600                   | -                  | -                                        |
| Oct. 31.....  | 522.4                | 75400                   | -5200              | -85                                      |
| Nov. 30.....  | 525.3                | 86200                   | +10800             | +182                                     |
| Dec. 31.....  | 522.6                | 76100                   | -10100             | -164                                     |
| CAL YR 1987   | -                    | -                       | +700               | +1                                       |
| Jan. 31.....  | 527.2                | 93900                   | +17800             | +289                                     |
| Feb. 29.....  | 524.9                | 84600                   | -9300              | -162                                     |
| Mar. 31.....  | 526.5                | 91000                   | +6400              | +104                                     |
| Apr. 30.....  | 529.0                | 102000                  | +11000             | +185                                     |
| May 31.....   | 528.4                | 99300                   | -2700              | -44                                      |
| June 30.....  | 527.3                | 94400                   | -4900              | -82                                      |
| July 31.....  | 527.9                | 97000                   | +2600              | +42                                      |
| Aug. 31.....  | 528.9                | 102000                  | +5000              | +81                                      |
| Sept. 30..... | 528.3                | 98800                   | -3200              | -54                                      |
| WTR YR 1988   | -                    | -                       | +18200             | +25                                      |

## 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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet)† | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|----------------------|-------------------------|--------------------|------------------------------------------|
|               |                      |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 434.2                | 345600                  | -                  | -                                        |
| Oct. 31.....  | 432.3                | 312100                  | -33500             | -545                                     |
| Nov. 30.....  | 432.7                | 318900                  | +6800              | +114                                     |
| Dec. 31.....  | 434.1                | 343800                  | +24900             | +405                                     |
| CAL YR 1987   | -                    | -                       | -27000             | -37                                      |
| Jan. 31.....  | 435.6                | 370800                  | +27000             | +439                                     |
| Feb. 29.....  | 435.2                | 363600                  | -7200              | -125                                     |
| Mar. 31.....  | 435.5                | 369000                  | +5400              | +88                                      |
| Apr. 30.....  | 435.4                | 367200                  | -1800              | -30                                      |
| May 31.....   | 435.3                | 365400                  | -1800              | -29                                      |
| June 30.....  | 434.5                | 351000                  | -14400             | -242                                     |
| July 31.....  | 433.4                | 331200                  | -19800             | -322                                     |
| Aug. 31.....  | 432.3                | 312100                  | -19100             | -311                                     |
| Sept. 30..... | 433.1                | 325800                  | +13700             | +230                                     |
| WTR YR 1988   | -                    | -                       | -19800             | -27                                      |

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

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

## 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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet)† | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|----------------------|-------------------------|--------------------|------------------------------------------|
|               |                      |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 338.1                | 305500                  | -                  | -                                        |
| Oct. 31.....  | 338.2                | 307000                  | +1500              | +24                                      |
| Nov. 30.....  | 338.2                | 307000                  | 0                  | 0                                        |
| Dec. 31.....  | 338.5                | 311500                  | +4500              | +73                                      |
| CAL YR 1987   | -                    | -                       | -3000              | -4                                       |
| Jan. 31.....  | 338.4                | 310000                  | -1500              | -24                                      |
| Feb. 29.....  | 338.7                | 314500                  | +4500              | +78                                      |
| Mar. 31.....  | 338.3                | 308500                  | -6000              | -98                                      |
| Apr. 30.....  | 338.3                | 308500                  | 0                  | 0                                        |
| May 31.....   | 338.0                | 304000                  | -4500              | -73                                      |
| June 30.....  | 338.5                | 311500                  | +3000              | +50                                      |
| July 31.....  | 338.2                | 307000                  | -3500              | -57                                      |
| Aug. 31.....  | 338.2                | 307000                  | 0                  | 0                                        |
| Sept. 30..... | 338.2                | 307000                  | 0                  | 0                                        |
| WTR YR 1988   | -                    | -                       | +1500              | +2                                       |

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



## SATILLA RIVER BASIN

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02226475 SATILLA RIVER AT WALTERTOWN, GA.

LOCATION.--Lat 31°18'17", long 82°23'33", Ware County, Hydrologic Unit 03070201, at county highway bridge at Waltertown, and 6 mi north of Waycross.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 14... | 0920 | 12                                              | 48                                                | 46                                                       | 6.10                           | 5.80                                  | 18.0                                 | 13.0                               | 9.3                                 | 98                                                             |
| NOV 11... | 1145 | 8.0                                             | 44                                                | 42                                                       | 6.10                           | 5.80                                  | 19.0                                 | 10.5                               | 7.8                                 | 84                                                             |
| DEC 09... | 1000 | 15                                              | 125                                               | 139                                                      | 6.30                           | 6.50                                  | 14.0                                 | 20.0                               | 6.9                                 | 67                                                             |
| JAN 06... | 1120 | 70                                              | 109                                               | 113                                                      | 6.30                           | 6.50                                  | 9.0                                  | 8.5                                | 10.4                                | 89                                                             |
| FEB 10... | 1220 | 664                                             | 80                                                | 77                                                       | 5.20                           | 5.00                                  | 8.5                                  | 18.0                               | 10.4                                | 88                                                             |
| MAR 09... | 1125 | 3490                                            | 53                                                | 50                                                       | 4.90                           | 4.90                                  | 16.0                                 | 19.5                               | 6.3                                 | 64                                                             |
| APR 13... | 0850 | 222                                             | 60                                                | 60                                                       | 6.00                           | 6.00                                  | 15.0                                 | 17.0                               | 7.3                                 | 73                                                             |
| MAY 04... | 0945 | 3660                                            | 44                                                | 42                                                       | 5.00                           | 4.70                                  | 17.5                                 | 26.5                               | 5.4                                 | 56                                                             |
| JUN 08... | 0845 | 31                                              | 51                                                | 45                                                       | 5.90                           | 5.70                                  | 24.5                                 | 30.5                               | 4.4                                 | 53                                                             |
| JUL 13... | 0840 | 10                                              | 55                                                | 46                                                       | 6.10                           | 5.90                                  | 27.5                                 | 29.0                               | 5.3                                 | 67                                                             |
| AUG 10... | 0900 | 19                                              | 44                                                | 36                                                       | 6.20                           | 6.20                                  | 28.5                                 | 30.0                               | 4.8                                 | 62                                                             |
| SEP 14... | 1100 | 1730                                            | 55                                                | 54                                                       | 5.30                           | 5.00                                  | 24.0                                 | 30.5                               | 5.3                                 | 63                                                             |

| DATE      | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 14... | 100                                          | 6.0                          | 0.9                                                            | 230                                              | 3                                                             | 0.150                                                | 0.020                                                | 0.060                                       | 11                                            |
| NOV 11... | 60                                           | 4.0                          | 1.8                                                            | 85                                               | 4                                                             | 0.150                                                | <0.020                                               | 0.040                                       | 8.6                                           |
| DEC 09... | 90                                           | 5.0                          | 1.6                                                            | 20                                               | 7                                                             | 0.150                                                | 0.060                                                | 0.090                                       | 12                                            |
| JAN 06... | 260                                          | 4.0                          | --                                                             | --                                               | 9                                                             | 0.810                                                | 0.190                                                | 0.150                                       | 16                                            |
| FEB 10... | 110                                          | 5.0                          | 1.1                                                            | 330                                              | 2                                                             | 0.080                                                | <0.020                                               | 0.090                                       | 24                                            |
| MAR 09... | 160                                          | 7.0                          | 1.1                                                            | 170                                              | 1                                                             | 0.030                                                | 0.130                                                | 0.040                                       | 25                                            |
| APR 13... | 200                                          | 5.0                          | 0.6                                                            | --                                               | 6                                                             | 0.140                                                | 0.550                                                | 0.160                                       | 25                                            |
| MAY 04... | 320                                          | 5.0                          | 0.8                                                            | --                                               | 2                                                             | 0.030                                                | 0.150                                                | 0.070                                       | 30                                            |
| JUN 08... | 60                                           | 8.0                          | 1.1                                                            | --                                               | 3                                                             | 0.130                                                | 0.040                                                | 0.070                                       | 12                                            |
| JUL 13... | 50                                           | 6.0                          | 2.1                                                            | 790                                              | 5                                                             | 0.030                                                | 0.030                                                | 0.040                                       | 9.0                                           |
| AUG 10... | 70                                           | 6.0                          | 1.5                                                            | 230                                              | 4                                                             | <0.020                                               | 0.040                                                | 0.070                                       | 10                                            |
| SEP 14... | 120                                          | 6.0                          | 1.1                                                            | 220                                              | 2                                                             | 0.050                                                | 0.030                                                | 0.140                                       | 28                                            |

## SATILLA RIVER BASIN

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 mi<sup>2</sup>, 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.--51 years, 1,047 ft<sup>3</sup>/s, 11.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft<sup>3</sup>/s, Apr. 4, 1948, gage height, 22.4 ft, from floodmark; minimum 6.0 ft<sup>3</sup>/s, Nov. 3, 4, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 4, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date  | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|-------|------|-----------------------------------|---------------------|
| Feb. 24 | 2400 | *6,950                            | *16.15              | May 1 | 1100 | 6,410                             | 15.92               |
| Mar. 11 | 1800 | 4,740                             | 15.13               |       |      |                                   |                     |

Minimum discharge, 13 ft<sup>3</sup>/s, Oct. 23, 24, 26, Oct. 28 to Nov. 4, and Nov. 11-17.

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     | 30   | 13   | 30   | 46   | 350   | 3860  | 703   | 6340  | 63   | 31   | 56   | 60    |
| 2     | 28   | 13   | 33   | 47   | 319   | 3310  | 650   | 6120  | 57   | 28   | 30   | 135   |
| 3     | 25   | 13   | 31   | 55   | 291   | 2760  | 599   | 5420  | 52   | 27   | 19   | 149   |
| 4     | 23   | 22   | 29   | 66   | 268   | 2350  | 540   | 4580  | 47   | 26   | 45   | 100   |
| 5     | 22   | 24   | 26   | 66   | 276   | 2370  | 478   | 3930  | 43   | 25   | 109  | 203   |
| 6     | 22   | 19   | 25   | 71   | 352   | 2620  | 418   | 3350  | 58   | 23   | 86   | 416   |
| 7     | 21   | 16   | 24   | 84   | 427   | 2890  | 374   | 2740  | 60   | 22   | 74   | 321   |
| 8     | 20   | 15   | 24   | 110  | 515   | 3230  | 336   | 2040  | 45   | 21   | 64   | 263   |
| 9     | 20   | 14   | 23   | 115  | 590   | 3760  | 299   | 1440  | 42   | 20   | 76   | 512   |
| 10    | 19   | 14   | 25   | 119  | 621   | 4310  | 268   | 1040  | 40   | 19   | 53   | 617   |
| 11    | 19   | 14   | 24   | 111  | 620   | 4670  | 247   | 812   | 39   | 24   | 40   | 825   |
| 12    | 18   | 13   | 23   | 109  | 600   | 4590  | 239   | 672   | 46   | 24   | 33   | 1130  |
| 13    | 18   | 13   | 22   | 108  | 557   | 4230  | 229   | 582   | 45   | 21   | 30   | 1400  |
| 14    | 17   | 13   | 22   | 107  | 509   | 3840  | 220   | 507   | 39   | 21   | 28   | 1670  |
| 15    | 17   | 13   | 50   | 100  | 470   | 3450  | 212   | 451   | 45   | 22   | 28   | 1970  |
| 16    | 17   | 13   | 59   | 91   | 434   | 3120  | 201   | 403   | 83   | 22   | 26   | 2280  |
| 17    | 16   | 41   | 48   | 86   | 395   | 2870  | 187   | 369   | 131  | 20   | 24   | 2420  |
| 18    | 16   | 52   | 42   | 90   | 412   | 2640  | 173   | 364   | 141  | 18   | 24   | 2020  |
| 19    | 15   | 36   | 40   | 153  | 1120  | 2410  | 414   | 328   | 128  | 18   | 32   | 1550  |
| 20    | 15   | 28   | 38   | 252  | 2320  | 2120  | 999   | 280   | 102  | 17   | 47   | 1210  |
| 21    | 15   | 26   | 36   | 497  | 3460  | 1800  | 1660  | 239   | 82   | 18   | 49   | 966   |
| 22    | 14   | 27   | 39   | 603  | 4050  | 1530  | 2160  | 208   | 68   | 17   | 60   | 780   |
| 23    | 14   | 28   | 40   | 691  | 5320  | 1340  | 2490  | 184   | 58   | 16   | 93   | 662   |
| 24    | 14   | 28   | 39   | 713  | 6720  | 1230  | 2710  | 162   | 51   | 16   | 111  | 586   |
| 25    | 14   | 28   | 39   | 677  | 6880  | 1180  | 2840  | 163   | 44   | 15   | 99   | 503   |
| 26    | 14   | 27   | 39   | 619  | 6560  | 1200  | 4010  | 150   | 40   | 15   | 82   | 419   |
| 27    | 14   | 27   | 40   | 555  | 5970  | 1150  | 4340  | 119   | 38   | 14   | 69   | 346   |
| 28    | 14   | 26   | 42   | 501  | 5220  | 1050  | 4620  | 103   | 36   | 14   | 60   | 301   |
| 29    | 15   | 25   | 47   | 456  | 4450  | 951   | 5330  | 91    | 34   | 14   | 52   | 265   |
| 30    | 14   | 25   | 45   | 419  | ---   | 855   | 5970  | 81    | 32   | 15   | 45   | 228   |
| 31    | 13   | ---  | 44   | 383  | ---   | 769   | ---   | 70    | ---  | 40   | 46   | ---   |
| TOTAL | 553  | 666  | 1088 | 8100 | 60076 | 78455 | 43916 | 43338 | 1789 | 643  | 1690 | 24307 |
| MEAN  | 17.8 | 22.2 | 35.1 | 261  | 2072  | 2531  | 1464  | 1398  | 59.6 | 20.7 | 54.5 | 810   |
| MAX   | 30   | 52   | 59   | 713  | 6880  | 4670  | 5970  | 6340  | 141  | 40   | 111  | 2420  |
| MIN   | 13   | 13   | 22   | 46   | 268   | 769   | 173   | 70    | 32   | 14   | 19   | 60    |
| CFSM  | .02  | .02  | .03  | .22  | 1.73  | 2.11  | 1.22  | 1.17  | .05  | .02  | .05  | .68   |
| IN.   | .02  | .02  | .03  | .25  | 1.86  | 2.43  | 1.36  | 1.34  | .06  | .02  | .05  | .75   |

CAL YR 1987 TOTAL 515375 MEAN 1412 MAX 8460 MIN 13 CFSM 1.18 IN 15.98  
WTR YR 1988 TOTAL 264621 MEAN 723 MAX 6880 MIN 13 CFSM .60 IN 8.20

## SATILLA RIVER BASIN

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02226582 SATILLA RIVER NEAR HOBOKEN, GA.

LOCATION.--Lat 31°13'00", long 82°09'45", Brantley-Pierce County line, Hydrologic Unit 03070201, at bridge on State Highway 121, 3 mi northeast of Hoboken.

DRAINAGE AREA.--1,350 mi<sup>2</sup>, approximately.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1125 | 31                                              | 142                                               | 120                                                      | 6.70                           | 7.00                                  | 17.5                                 | 16.0                               | 8.0                                 | 83                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 11... | 1015 | 27                                              | 125                                               | 126                                                      | 6.60                           | 7.00                                  | 16.5                                 | 10.0                               | 6.2                                 | 63                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1215 | 35                                              | 97                                                | 111                                                      | 6.50                           | 6.90                                  | 15.0                                 | 24.5                               | 7.7                                 | 76                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1320 | 78                                              | 120                                               | 123                                                      | 6.40                           | 6.90                                  | 9.5                                  | 10.5                               | 1.7                                 | 15                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1415 | 652                                             | 80                                                | 75                                                       | 5.80                           | 5.60                                  | 9.0                                  | 17.0                               | 10.0                                | 86                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1400 | 3110                                            | 53                                                | 49                                                       | 5.10                           | 5.10                                  | 16.0                                 | 20.5                               | 6.1                                 | 62                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1045 | 309                                             | 70                                                | 68                                                       | 6.10                           | 6.20                                  | 15.5                                 | 16.0                               | 6.1                                 | 61                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1135 | 5840                                            | 44                                                | 41                                                       | 5.00                           | 4.70                                  | 18.5                                 | 30.5                               | 5.7                                 | 61                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1035 | 87                                              | 99                                                | 91                                                       | 6.60                           | 6.60                                  | 25.0                                 | 27.5                               | 5.8                                 | 71                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1030 | 36                                              | 114                                               | 108                                                      | --                             | 6.80                                  | 28.0                                 | 33.0                               | 5.3                                 | 68                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1050 | 61                                              | 130                                               | 120                                                      | 6.90                           | 6.90                                  | 29.0                                 | 32.5                               | 5.2                                 | 68                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1300 | 1270                                            | 63                                                | 60                                                       | 5.10                           | 4.90                                  | 25.0                                 | 31.5                               | 5.5                                 | 67                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 14... | 110                                          | 5.0                          | 10                                                             | 0.7                                                            | 170                                              | 18                                                              | <1                                                                |
| NOV   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 11... | 90                                           | 3.0                          | 24                                                             | 1.4                                                            | 20                                               | 20                                                              | 1                                                                 |
| DEC   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 09... | 90                                           | 6.0                          | 24                                                             | 1.6                                                            | 160                                              | 14                                                              | 4                                                                 |
| JAN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 06... | 160                                          | 7.0                          | 28                                                             | --                                                             | --                                               | 16                                                              | <1                                                                |
| FEB   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 10... | 140                                          | 7.0                          | 49                                                             | 1.6                                                            | 330                                              | 3                                                               | 8                                                                 |
| MAR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 09... | 190                                          | 7.0                          | 63                                                             | 1.3                                                            | 130                                              | 1                                                               | 1                                                                 |
| APR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 13... | 180                                          | 5.0                          | 60                                                             | 0.8                                                            | --                                               | 7                                                               | 6                                                                 |
| MAY   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 04... | 240                                          | 5.0                          | 120                                                            | 0.7                                                            | --                                               | 1                                                               | 3                                                                 |
| JUN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 08... | 50                                           | 7.0                          | 53                                                             | 1.2                                                            | --                                               | 10                                                              | 3                                                                 |
| JUL   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 13... | 90                                           | 6.0                          | --                                                             | 2.3                                                            | 130                                              | 12                                                              | 7                                                                 |
| AUG   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 10... | 100                                          | 15                           | --                                                             | 0.7                                                            | 110                                              | 12                                                              | 8                                                                 |
| SEP   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 14... | 350                                          | 7.0                          | --                                                             | 1.3                                                            | 130                                              | 2                                                               | 10                                                                |

## SATILLA RIVER BASIN

02226582 SATILLA RIVER NEAR HOBOKEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE      | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 14... | 1.00                                                 | 0.030                                                | 0.77                                                 | 0.80                                                               | 1.8                                       | 0.510                                       | 11                                            |
| NOV 11... | 0.770                                                | 0.070                                                | 0.03                                                 | 0.10                                                               | 0.87                                      | 0.420                                       | 11                                            |
| DEC 09... | 0.880                                                | 0.040                                                | 0.76                                                 | 0.80                                                               | 1.7                                       | 0.340                                       | 9.7                                           |
| JAN 06... | 0.820                                                | 0.080                                                | 0.52                                                 | 0.60                                                               | 1.4                                       | 0.290                                       | 9.7                                           |
| FEB 10... | 0.200                                                | 0.050                                                | 0.75                                                 | 0.80                                                               | 1.0                                       | 0.170                                       | 35                                            |
| MAR 09... | 0.050                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.090                                       | 25                                            |
| APR 13... | 0.260                                                | 0.760                                                | 0.14                                                 | 0.90                                                               | 1.2                                       | 0.190                                       | 20                                            |
| MAY 04... | <0.020                                               | 0.200                                                | 0.90                                                 | 1.1                                                                | --                                        | 0.060                                       | 29                                            |
| JUN 08... | 0.700                                                | 0.060                                                | 0.54                                                 | 0.60                                                               | 1.3                                       | 0.300                                       | 12                                            |
| JUL 13... | 0.640                                                | 0.050                                                | --                                                   | --                                                                 | --                                        | 0.410                                       | 10                                            |
| AUG 10... | 1.13                                                 | 0.110                                                | --                                                   | --                                                                 | --                                        | 0.630                                       | 12                                            |
| SEP 14... | 0.100                                                | 0.030                                                | --                                                   | --                                                                 | --                                        | 0.220                                       | 36                                            |

## SATILLA RIVER BASIN

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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 mi<sup>2</sup>.

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.--No estimated daily discharges. Records good except those below 50 ft<sup>3</sup>/s, which are fair.

AVERAGE DISCHARGE.--37 years, 528 ft<sup>3</sup>/s, 11.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Feb. 24 | 1000 | *3,690                            | *10.35              | No other peak greater than base discharge. |      |                                   |                     |

Minimum discharge, 0.03 ft<sup>3</sup>/s, Aug. 12, 13.

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     | 2.3   | .24   | 2.7   | 19   | 231   | 1100  | 198   | 1280   | 1.8   | .39   | .25  | .23     |
| 2     | 1.9   | .26   | 2.5   | 19   | 205   | 853   | 176   | 1300   | 1.7   | .34   | .23  | .26     |
| 3     | 1.4   | .28   | 2.3   | 44   | 186   | 686   | 160   | 1230   | 1.6   | .33   | .20  | .32     |
| 4     | 1.1   | .62   | 2.4   | 114  | 170   | 726   | 149   | 1050   | 1.5   | .35   | .18  | .48     |
| 5     | .92   | .60   | 2.2   | 127  | 193   | 976   | 138   | 794    | 1.4   | .32   | .24  | 1.2     |
| 6     | .84   | .41   | 2.2   | 107  | 355   | 1220  | 135   | 548    | 1.4   | .29   | .56  | 1.7     |
| 7     | .75   | .40   | 2.2   | 88   | 435   | 1340  | 172   | 343    | 2.2   | .28   | .29  | 1.8     |
| 8     | .66   | .45   | 2.5   | 104  | 476   | 1240  | 157   | 227    | 4.4   | .28   | .16  | 1.8     |
| 9     | .62   | .43   | 3.0   | 125  | 458   | 1220  | 139   | 156    | 4.6   | .29   | .12  | 6.2     |
| 10    | .61   | .45   | 3.6   | 143  | 411   | 1300  | 133   | 125    | 3.1   | .29   | .07  | 30      |
| 11    | .59   | .40   | 6.0   | 148  | 380   | 1370  | 132   | 147    | 2.7   | .72   | .05  | 45      |
| 12    | .53   | .36   | 6.3   | 139  | 353   | 1350  | 157   | 156    | 2.1   | 1.0   | .04  | 39      |
| 13    | .48   | .38   | 6.1   | 130  | 314   | 1200  | 207   | 132    | 1.5   | .79   | .04  | 81      |
| 14    | .45   | .44   | 5.9   | 114  | 285   | 1010  | 218   | 120    | 1.2   | .61   | .30  | 196     |
| 15    | .41   | .45   | 9.7   | 103  | 266   | 859   | 187   | 125    | .99   | .53   | .50  | 202     |
| 16    | .39   | .54   | 26    | 93   | 263   | 792   | 147   | 97     | .83   | .50   | .28  | 154     |
| 17    | .37   | 1.4   | 25    | 89   | 252   | 763   | 114   | 89     | .75   | .50   | .45  | 130     |
| 18    | .35   | 2.5   | 19    | 133  | 239   | 744   | 92    | 64     | .66   | .49   | .24  | 148     |
| 19    | .33   | 3.3   | 15    | 219  | 699   | 700   | 347   | 45     | .66   | .47   | .15  | 174     |
| 20    | .33   | 3.7   | 12    | 307  | 1440  | 627   | 838   | 31     | .58   | .46   | .20  | 152     |
| 21    | .32   | 3.9   | 11    | 481  | 2590  | 536   | 1180  | 21     | .53   | .48   | .35  | 128     |
| 22    | .29   | 2.7   | 13    | 568  | 3340  | 471   | 1270  | 14     | .48   | .43   | .49  | 133     |
| 23    | .27   | 2.8   | 16    | 546  | 3530  | 437   | 1040  | 11     | .44   | .43   | .30  | 129     |
| 24    | .30   | 2.4   | 18    | 492  | 3600  | 430   | 879   | 7.2    | .40   | .43   | .21  | 110     |
| 25    | .30   | 2.5   | 17    | 455  | 3260  | 459   | 821   | 5.5    | .39   | .37   | .16  | 84      |
| 26    | .26   | 2.4   | 15    | 427  | 2800  | 480   | 836   | 5.3    | .37   | .34   | .13  | 101     |
| 27    | .27   | 2.5   | 14    | 388  | 2240  | 455   | 847   | 3.9    | .36   | .30   | .14  | 116     |
| 28    | .24   | 2.6   | 14    | 349  | 1780  | 387   | 1070  | 2.9    | .34   | .26   | .15  | 72      |
| 29    | .21   | 2.8   | 20    | 320  | 1410  | 316   | 1210  | 2.5    | .31   | .21   | .24  | 47      |
| 30    | .22   | 2.9   | 20    | 294  | ---   | 262   | 1170  | 2.2    | .33   | .20   | .21  | 49      |
| 31    | .24   | ---   | 20    | 265  | ---   | 226   | ---   | 2.0    | ---   | .22   | .23  | ---     |
| TOTAL | 18.25 | 45.11 | 334.6 | 6950 | 32161 | 24535 | 14319 | 8136.5 | 39.62 | 12.90 | 7.16 | 2333.99 |
| MEAN  | .59   | 1.50  | 10.8  | 224  | 1109  | 791   | 477   | 262    | 1.32  | .42   | .23  | 77.8    |
| MAX   | 2.3   | 3.9   | 26    | 568  | 3600  | 1370  | 1270  | 1300   | 4.6   | 1.0   | .56  | 202     |
| MIN   | .21   | .24   | 2.2   | 19   | 170   | 226   | 92    | 2.0    | .31   | .20   | .04  | .23     |
| CFSM  | .001  | .002  | .02   | .35  | 1.72  | 1.22  | .74   | .41    | .002  | .001  | .000 | .12     |
| IN.   | .00   | .00   | .02   | .40  | 1.85  | 1.41  | .82   | .47    | .00   | .00   | .00  | .13     |

|             |       |           |          |           |         |           |          |
|-------------|-------|-----------|----------|-----------|---------|-----------|----------|
| CAL YR 1987 | TOTAL | 265449.46 | MEAN 727 | MAX 10200 | MIN .21 | CFSM 1.13 | IN 15.29 |
| WTR YR 1988 | TOTAL | 88893.13  | MEAN 243 | MAX 3600  | MIN .04 | CFSM .38  | IN 5.12  |



## SATILLA RIVER BASIN

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

LOCATION.--Lat 31°13'16", long 81°52'03", Brantley County, Hydrologic Unit 03070201, on left bank piling 25 ft upstream from bridge on U.S. Highway 84, 400 ft downstream from Seaboard Coast Line Railroad bridge, and 1 mi west of Atkinson.  
DRAINAGE AREA.--2,790 mi<sup>2</sup>, 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.--58 years, 2,281 ft<sup>3</sup>/s, 11.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft<sup>3</sup>/s, Apr. 6, 1948, gage height, 23.9 ft; minimum daily, 21 ft<sup>3</sup>/s, Nov. 2-5, 7-13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, 27.2 ft in September 1929, from information by Georgia Department of Transportation; discharge, 110,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,800 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date  | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|-------|------|-----------------------------------|---------------------|
| Feb. 29 | 0100 | *11,700                           | *15.63              | May 6 | 1300 | 8,360                             | 14.43               |

Minimum daily discharge, 38 ft<sup>3</sup>/s, Aug. 3.

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           | 139   | 44      | 70   | 130   | 1530  | 11200  | 2120  | 6270   | 245  | 96   | 51   | 163   |
| 2           | 126   | 42      | 68   | 134   | 1400  | 10500  | 1940  | 6920   | 225  | 90   | 41   | 170   |
| 3           | 119   | 40      | 67   | 145   | 1270  | 9660   | 1770  | 7390   | 210  | 85   | 38   | 203   |
| 4           | 111   | 46      | 73   | 157   | 1150  | 8950   | 1610  | 7830   | 195  | 81   | 39   | 262   |
| 5           | 104   | 50      | 84   | 162   | 1050  | 8190   | 1460  | 8190   | 184  | 77   | 53   | 320   |
| 6           | 100   | 51      | 91   | 195   | 1020  | 7390   | 1330  | 8300   | 175  | 75   | 58   | 376   |
| 7           | 94    | 49      | 91   | 240   | 1040  | 6620   | 1220  | 8050   | 168  | 72   | 68   | 424   |
| 8           | 89    | 51      | 88   | 283   | 1130  | 6020   | 1100  | 7510   | 163  | 69   | 69   | 485   |
| 9           | 85    | 56      | 84   | 294   | 1240  | 5700   | 1020  | 6680   | 160  | 68   | 78   | 626   |
| 10          | 81    | 59      | 81   | 316   | 1340  | 5600   | 926   | 5690   | 155  | 65   | 90   | 767   |
| 11          | 78    | 53      | 78   | 349   | 1420  | 5670   | 838   | 4820   | 149  | 70   | 86   | 908   |
| 12          | 74    | 47      | 74   | 380   | 1480  | 5810   | 783   | 4030   | 143  | 77   | 82   | 1030  |
| 13          | 71    | 45      | 73   | 400   | 1500  | 6010   | 740   | 3350   | 137  | 75   | 83   | 1180  |
| 14          | 67    | 43      | 73   | 403   | 1500  | 6300   | 707   | 2740   | 131  | 73   | 87   | 1290  |
| 15          | 64    | 42      | 79   | 392   | 1480  | 6650   | 702   | 2240   | 127  | 76   | 88   | 1380  |
| 16          | 62    | 42      | 85   | 375   | 1440  | 6920   | 694   | 1830   | 126  | 76   | 77   | 1510  |
| 17          | 61    | 49      | 85   | 360   | 1380  | 6940   | 659   | 1490   | 124  | 69   | 69   | 1640  |
| 18          | 58    | 61      | 90   | 348   | 1350  | 6680   | 609   | 1260   | 121  | 63   | 73   | 1740  |
| 19          | 56    | 59      | 114  | 351   | 1780  | 6220   | 609   | 1060   | 117  | 58   | 65   | 1820  |
| 20          | 54    | 64      | 132  | 394   | 2510  | 5690   | 700   | 891    | 124  | 55   | 61   | 1950  |
| 21          | 53    | 88      | 131  | 589   | 3330  | 5230   | 862   | 773    | 139  | 54   | 61   | 2130  |
| 22          | 50    | 101     | 126  | 841   | 4040  | 4830   | 1120  | 679    | 147  | 54   | 64   | 2300  |
| 23          | 48    | 97      | 122  | 1080  | 4840  | 4440   | 1420  | 594    | 147  | 51   | 74   | 2350  |
| 24          | 48    | 89      | 119  | 1280  | 6050  | 4060   | 1780  | 522    | 139  | 50   | 86   | 2250  |
| 25          | 48    | 82      | 119  | 1460  | 7730  | 3690   | 2190  | 461    | 129  | 48   | 115  | 2020  |
| 26          | 47    | 78      | 123  | 1610  | 9530  | 3360   | 2860  | 412    | 119  | 47   | 140  | 1730  |
| 27          | 46    | 76      | 125  | 1720  | 10800 | 3070   | 3500  | 373    | 113  | 45   | 155  | 1430  |
| 28          | 45    | 74      | 128  | 1780  | 11500 | 2810   | 4050  | 345    | 109  | 43   | 170  | 1200  |
| 29          | 43    | 72      | 130  | 1780  | 11600 | 2590   | 4590  | 322    | 105  | 42   | 173  | 1050  |
| 30          | 43    | 71      | 127  | 1740  | ---   | 2430   | 5360  | 295    | 100  | 43   | 167  | 924   |
| 31          | 43    | ---     | 127  | 1650  | ---   | 2280   | ---   | 268    | ---  | 59   | 159  | ---   |
| TOTAL       | 2207  | 1821    | 3057 | 21338 | 97430 | 181510 | 49269 | 101585 | 4426 | 2006 | 2720 | 35628 |
| MEAN        | 71.2  | 60.7    | 98.6 | 688   | 3360  | 5855   | 1642  | 3277   | 148  | 64.7 | 87.7 | 1188  |
| MAX         | 139   | 101     | 132  | 1780  | 11600 | 11200  | 5360  | 8300   | 245  | 96   | 173  | 2350  |
| MIN         | 43    | 40      | 67   | 130   | 1020  | 2280   | 609   | 268    | 100  | 42   | 38   | 163   |
| CFSM        | .03   | .02     | .04  | .25   | 1.20  | 2.10   | .59   | 1.18   | .05  | .02  | .03  | .43   |
| IN.         | .03   | .02     | .04  | .28   | 1.30  | 2.42   | .66   | 1.35   | .06  | .03  | .04  | .48   |
| CAL YR 1987 | TOTAL | 1179132 | MEAN | 3230  | MAX   | 20200  | MIN   | 40     | CFSM | 1.16 | IN   | 15.72 |
| WTR YR 1988 | TOTAL | 502997  | MEAN | 1374  | MAX   | 11600  | MIN   | 38     | CFSM | .49  | IN   | 6.71  |

## SATILLA RIVER BASIN

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02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

## WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981.

WATER TEMPERATURES: November 1974 to September 1981.

REMARKS.--Laboratory analyses with the analyzing agency codes 80020 and 84213 are performed by the U.S. Geological Survey. Laboratory 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|
| OCT   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 08... | 1330 | 80020                                                  | 89                                              | 72                                                | 76                                                       | 6.74                           | 7.40                                  |
| 08... | 1340 | 81341                                                  | 89                                              | 72                                                | 67                                                       | 6.70                           | 6.30                                  |
| JAN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 12... | 1430 | 80020                                                  | 383                                             | 87                                                | 94                                                       | 6.53                           | 6.80                                  |
| 12... | 1440 | 81341                                                  | 383                                             | 87                                                | 86                                                       | 6.50                           | 6.30                                  |
| MAY   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 10... | 1330 | 80020                                                  | 5600                                            | 45                                                | 44                                                       | 5.22                           | 5.10                                  |
| 10... | 1340 | 81341                                                  | 5600                                            | 45                                                | 44                                                       | 5.20                           | 4.70                                  |
| AUG   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |
| 17... | 1400 | 80020                                                  | 68                                              | 90                                                | 94                                                       | 6.72                           | 7.40                                  |
| 17... | 1410 | 81341                                                  | 68                                              | 90                                                | 77                                                       | 6.70                           | 6.50                                  |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>MG/L AS<br>HCO3 | ALKA-<br>LINITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | ALKA-<br>LINITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|-------|--------------------------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|
| OCT   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 08... | 80020                                                  | 20.0                                 | 23.0                               | 7.6                                 | 83                                                             | 10                                                              | 8                                                                 | --                                                              | 9.0                                                         |
| 08... | 81341                                                  | 20.0                                 | 23.0                               | 7.6                                 | 83                                                             | --                                                              | --                                                                | 8                                                               | --                                                          |
| JAN   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 12... | 80020                                                  | 6.0                                  | 15.0                               | 11.8                                | 93                                                             | 6                                                               | 5                                                                 | --                                                              | 6.0                                                         |
| 12... | 81341                                                  | 6.0                                  | 15.0                               | 11.8                                | 93                                                             | --                                                              | --                                                                | 8                                                               | --                                                          |
| MAY   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 10... | 80020                                                  | 20.5                                 | 27.5                               | 5.5                                 | 61                                                             | <1                                                              | <1                                                                | --                                                              | 1.0                                                         |
| 10... | 81341                                                  | 20.5                                 | 27.5                               | 5.5                                 | 61                                                             | --                                                              | --                                                                | 1                                                               | --                                                          |
| AUG   |                                                        |                                      |                                    |                                     |                                                                |                                                                 |                                                                   |                                                                 |                                                             |
| 17... | 80020                                                  | 29.0                                 | 34.0                               | 7.1                                 | 92                                                             | 24                                                              | 20                                                                | --                                                              | 9.0                                                         |
| 17... | 81341                                                  | 29.0                                 | 34.0                               | 7.1                                 | 92                                                             | --                                                              | --                                                                | 7                                                               | --                                                          |

## SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 |
|-------|--------------------------------------------------------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                    |                                                 |                                                                   |
| 08... | 80020                                                  | --                                           | 4.1                          | --                                                             | --                                               | 38                                                             | 63                                                                 | 14                                              | 5                                                                 |
| 08... | 81341                                                  | 140                                          | 5.0                          | 2.4                                                            | 20                                               | --                                                             | --                                                                 | --                                              | --                                                                |
| JAN   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                    |                                                 |                                                                   |
| 12... | 80020                                                  | --                                           | 3.2                          | --                                                             | --                                               | 140                                                            | 150                                                                | 18                                              | 12                                                                |
| 12... | 81341                                                  | 180                                          | 4.0                          | 1.7                                                            | 130                                              | --                                                             | --                                                                 | --                                              | --                                                                |
| MAY   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                    |                                                 |                                                                   |
| 10... | 80020                                                  | --                                           | 2.7                          | --                                                             | --                                               | 56                                                             | --                                                                 | 9                                               | 8                                                                 |
| 10... | 81341                                                  | --                                           | 5.0                          | 1.5                                                            | 220                                              | --                                                             | --                                                                 | --                                              | --                                                                |
| AUG   |                                                        |                                              |                              |                                                                |                                                  |                                                                |                                                                    |                                                 |                                                                   |
| 17... | 80020                                                  | --                                           | 3.0                          | --                                                             | --                                               | 19                                                             | 7                                                                  | 19                                              | 10                                                                |
| 17... | 81341                                                  | 50                                           | 5.0                          | 2.4                                                            | 50                                               | --                                                             | --                                                                 | --                                              | --                                                                |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) |
|-------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|
| OCT   |                                                        |                                              |                                                      |                                              |                   |                                         |                                                     |
| 08... | 80020                                                  | 2.8                                          | 1.8                                                  | 7.4                                          | 50                | 0.9                                     | 1.5                                                 |
| JAN   |                                                        |                                              |                                                      |                                              |                   |                                         |                                                     |
| 12... | 80020                                                  | 3.3                                          | 2.4                                                  | 8.9                                          | 47                | 0.9                                     | 2.9                                                 |
| MAY   |                                                        |                                              |                                                      |                                              |                   |                                         |                                                     |
| 10... | 80020                                                  | 1.8                                          | 1.1                                                  | 3.2                                          | 38                | 0.5                                     | 2.0                                                 |
| AUG   |                                                        |                                              |                                                      |                                              |                   |                                         |                                                     |
| 17... | 80020                                                  | 3.6                                          | 2.5                                                  | 9.3                                          | 47                | 0.9                                     | 2.5                                                 |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) |
|-------|--------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| OCT   |                                                        |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                   |                                                     |
| 08... | 80020                                                  | 11                                            | 11                                                  | 0.10                                               | 8.0                                               | 66                                                                 | 52                                                                  | 15.9                                              | 0.09                                                |
| JAN   |                                                        |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                   |                                                     |
| 12... | 80020                                                  | 14                                            | 14                                                  | 0.10                                               | 11                                                | 85                                                                 | 62                                                                  | 87.9                                              | 0.12                                                |
| MAY   |                                                        |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                   |                                                     |
| 10... | 80020                                                  | 15                                            | 11                                                  | 0.10                                               | 5.9                                               | 84                                                                 | 44                                                                  | 1270                                              | 0.11                                                |
| AUG   |                                                        |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                   |                                                     |
| 17... | 80020                                                  | 15                                            | 11                                                  | 0.10                                               | 3.6                                               | 55                                                                 | 64                                                                  | 10.1                                              | 0.07                                                |

## SATILLA RIVER BASIN

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02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| OCT   |                                                        |                                                               |                                                      |                                                               |                                                      |                                                               |                                                      |                                                                    |                                             |                                                      |                                                                |                                               |
| 08... | 80020                                                  | <0.010                                                        | --                                                   | 0.430                                                         | 0.020                                                | 0.020                                                         | 0.78                                                 | 0.80                                                               | 0.120                                       | 0.080                                                | 0.040                                                          | --                                            |
| 08... | 81341                                                  | --                                                            | 0.080                                                | --                                                            | 0.050                                                | --                                                            | --                                                   | --                                                                 | 0.150                                       | --                                                   | --                                                             | 14                                            |
| JAN   |                                                        |                                                               |                                                      |                                                               |                                                      |                                                               |                                                      |                                                                    |                                             |                                                      |                                                                |                                               |
| 12... | 80020                                                  | 0.020                                                         | --                                                   | 0.250                                                         | 0.040                                                | 0.040                                                         | 1.2                                                  | 1.2                                                                | 0.070                                       | 0.100                                                | 0.060                                                          | --                                            |
| 12... | 81341                                                  | --                                                            | 0.250                                                | --                                                            | 0.090                                                | --                                                            | --                                                   | --                                                                 | 0.110                                       | --                                                   | --                                                             | 15                                            |
| MAY   |                                                        |                                                               |                                                      |                                                               |                                                      |                                                               |                                                      |                                                                    |                                             |                                                      |                                                                |                                               |
| 10... | 80020                                                  | <0.010                                                        | --                                                   | <0.100                                                        | 0.070                                                | 0.060                                                         | 0.83                                                 | 0.90                                                               | 0.040                                       | 0.040                                                | <0.010                                                         | --                                            |
| 10... | 81341                                                  | --                                                            | 0.030                                                | --                                                            | 0.090                                                | --                                                            | --                                                   | --                                                                 | 0.050                                       | --                                                   | --                                                             | 26                                            |
| AUG   |                                                        |                                                               |                                                      |                                                               |                                                      |                                                               |                                                      |                                                                    |                                             |                                                      |                                                                |                                               |
| 17... | 80020                                                  | 0.010                                                         | --                                                   | 0.650                                                         | 0.020                                                | 0.010                                                         | 0.48                                                 | 0.50                                                               | 0.430                                       | 0.370                                                | 0.320                                                          | --                                            |
| 17... | 81341                                                  | --                                                            | 0.690                                                | --                                                            | 0.080                                                | --                                                            | --                                                   | --                                                                 | 0.430                                       | --                                                   | --                                                             | 7.3                                           |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|-------|--------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| OCT   |                                                        |                                                     |                                              |                                              |                                                      |                                              |                                                     |                                              |                                              |                                            |                                            |
| 08... | 80020                                                  | 160                                                 | <1                                           | 19                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 1                                            | 530                                        | <5                                         |
| JAN   |                                                        |                                                     |                                              |                                              |                                                      |                                              |                                                     |                                              |                                              |                                            |                                            |
| 12... | 80020                                                  | 400                                                 | <1                                           | 21                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 2                                            | 430                                        | <5                                         |
| MAY   |                                                        |                                                     |                                              |                                              |                                                      |                                              |                                                     |                                              |                                              |                                            |                                            |
| 10... | 80020                                                  | 770                                                 | 1                                            | 23                                           | <0.5                                                 | <1                                           | 1                                                   | <3                                           | 1                                            | 1100                                       | <5                                         |
| AUG   |                                                        |                                                     |                                              |                                              |                                                      |                                              |                                                     |                                              |                                              |                                            |                                            |
| 17... | 80020                                                  | 60                                                  | 1                                            | 21                                           | <0.5                                                 | <1                                           | 2                                                   | <3                                           | 1                                            | 220                                        | <5                                         |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|-------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| OCT   |                                                        |                                              |                                                      |                                              |                                                       |                                              |                                                     |                                              |                                                      |                                                    |                                            |
| 08... | 80020                                                  | 4                                            | 13                                                   | <0.1                                         | <10                                                   | 5                                            | <1                                                  | <1.0                                         | 22                                                   | <6                                                 | 5                                          |
| JAN   |                                                        |                                              |                                                      |                                              |                                                       |                                              |                                                     |                                              |                                                      |                                                    |                                            |
| 12... | 80020                                                  | <4                                           | 41                                                   | <0.1                                         | <10                                                   | <1                                           | <1                                                  | <1.0                                         | 21                                                   | <6                                                 | 10                                         |
| MAY   |                                                        |                                              |                                                      |                                              |                                                       |                                              |                                                     |                                              |                                                      |                                                    |                                            |
| 10... | 80020                                                  | 58                                           | 37                                                   | 0.5                                          | <10                                                   | 4                                            | <1                                                  | <1.0                                         | 14                                                   | <6                                                 | 9                                          |
| AUG   |                                                        |                                              |                                                      |                                              |                                                       |                                              |                                                     |                                              |                                                      |                                                    |                                            |
| 17... | 80020                                                  | <4                                           | 9                                                    | <0.1                                         | <10                                                   | <1                                           | <1                                                  | <1.0                                         | 33                                                   | <6                                                 | 17                                         |

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|-------|------|--------------------------------------------------------|-------------------------------------------------|--------------------------------------|--------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                      |                                            |                                                                |                                                       |
| 08... | 1335 | 84213                                                  | 89                                              | 20.0                                 | 14                                         | 3.4                                                            | 68                                                    |
| JAN   |      |                                                        |                                                 |                                      |                                            |                                                                |                                                       |
| 12... | 1435 | 84213                                                  | 383                                             | 6.0                                  | 6                                          | 6.2                                                            | 80                                                    |
| MAY   |      |                                                        |                                                 |                                      |                                            |                                                                |                                                       |
| 10... | 1335 | 84213                                                  | 5600                                            | 20.5                                 | 7                                          | 106                                                            | 97                                                    |
| AUG   |      |                                                        |                                                 |                                      |                                            |                                                                |                                                       |
| 17... | 1405 | 84213                                                  | 68                                              | 29.0                                 | 4                                          | 0.73                                                           | 78                                                    |

## ST MARYS RIVER BASIN

02228500 NORTH PRONG ST MARYS RIVER AT MONIAC, GA.

LOCATION.--Lat 30°31'03", long 82°13'50", in NW sec. 8, T.1 N., R. 21 E., Baker County, Fla.--Charlton County, Ga., Hydrologic Unit 03070204, near right bank at upstream side of bridge on 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 mi<sup>2</sup>, approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

PERIOD OF RECORD.--January 1921 to December 1923 (published as St Marys River at Moniac), January 1927 to June 1930, July 1932 to June 1934, October 1950 to current year.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 89.40 ft 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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--43 years (water years 1922-23, 1928-29, 1933, 1951-88), 159 ft<sup>3</sup>/s, 13.50 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft<sup>3</sup>/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, 2,020 ft<sup>3</sup>/s, Feb. 21, gage height, 14.52 ft, no flow, July 5-17, 21; minimum gage height, 4.19 ft, July 16, 17.

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     | 21    | 1.5   | 12    | 15   | 122   | 499  | 81   | 80    | 1.3    | .57  | .79    | 16   |
| 2     | 19    | 1.5   | 11    | 15   | 109   | 448  | 75   | 124   | 1.1    | .50  | .68    | 22   |
| 3     | 17    | 1.7   | 10    | 15   | 98    | 408  | 70   | 101   | .93    | .12  | .84    | 23   |
| 4     | 14    | 3.2   | 9.8   | 17   | 88    | 413  | 66   | 77    | .87    | .06  | .98    | 23   |
| 5     | 12    | 6.8   | 8.9   | 17   | 81    | 550  | 62   | 61    | .96    | .00  | 1.6    | 41   |
| 6     | 11    | 5.4   | 8.3   | 16   | 100   | 597  | 57   | 51    | 4.0    | .00  | 1.0    | 80   |
| 7     | 9.5   | 4.4   | 8.0   | 16   | 116   | 560  | 55   | 43    | 10     | .00  | 1.0    | 106  |
| 8     | 8.0   | 3.9   | 7.8   | 31   | 105   | 496  | 50   | 37    | 17     | .00  | 11     | 132  |
| 9     | 7.0   | 3.4   | 7.8   | 39   | 98    | 453  | 45   | 33    | 21     | .00  | 7.2    | 368  |
| 10    | 6.3   | 3.2   | 7.8   | 47   | 90    | 476  | 42   | 31    | 19     | .00  | 5.5    | 408  |
| 11    | 6.0   | 3.1   | 8.2   | 48   | 81    | 490  | 39   | 31    | 23     | .00  | 4.3    | 331  |
| 12    | 5.8   | 2.8   | 8.4   | 44   | 75    | 444  | 41   | 29    | 18     | .00  | 6.6    | 248  |
| 13    | 5.5   | 2.4   | 8.0   | 41   | 67    | 403  | 44   | 26    | 14     | .00  | 4.3    | 171  |
| 14    | 4.6   | 2.3   | 7.8   | 38   | 60    | 365  | 40   | 25    | 12     | .00  | 14     | 121  |
| 15    | 4.2   | 2.0   | 9.5   | 36   | 58    | 322  | 37   | 24    | 9.3    | .00  | 28     | 90   |
| 16    | 3.7   | 1.9   | 28    | 33   | 67    | 280  | 35   | 22    | 7.3    | .00  | 23     | 72   |
| 17    | 3.3   | 2.8   | 32    | 32   | 65    | 246  | 32   | 20    | 5.7    | .00  | 29     | 76   |
| 18    | 2.9   | 16    | 31    | 33   | 64    | 219  | 31   | 17    | 4.4    | .52  | 20     | 76   |
| 19    | 2.7   | 18    | 30    | 33   | 334   | 229  | 31   | 15    | 3.3    | .27  | 13     | 109  |
| 20    | 2.4   | 18    | 29    | 34   | 1270  | 224  | 32   | 13    | 2.5    | .05  | 8.8    | 100  |
| 21    | 2.3   | 17    | 28    | 112  | 1980  | 189  | 30   | 11    | 1.8    | .00  | 6.1    | 78   |
| 22    | 2.0   | 15    | 26    | 322  | 1860  | 165  | 27   | 9.7   | 1.1    | .15  | 4.1    | 61   |
| 23    | 1.9   | 15    | 25    | 357  | 1630  | 148  | 25   | 8.3   | .82    | .42  | 2.8    | 49   |
| 24    | 1.8   | 14    | 23    | 299  | 1400  | 134  | 23   | 7.2   | .64    | .66  | 2.0    | 41   |
| 25    | 1.8   | 14    | 22    | 277  | 1170  | 124  | 22   | 6.3   | .52    | .91  | 1.6    | 35   |
| 26    | 1.8   | 14    | 21    | 296  | 956   | 126  | 21   | 5.8   | .23    | .75  | 2.2    | 31   |
| 27    | 1.9   | 14    | 20    | 269  | 789   | 134  | 19   | 4.8   | .14    | .45  | 9.5    | 29   |
| 28    | 2.0   | 13    | 20    | 222  | 668   | 122  | 17   | 3.7   | .08    | .23  | 20     | 24   |
| 29    | 1.9   | 13    | 19    | 181  | 573   | 108  | 15   | 2.5   | .04    | .08  | 16     | 19   |
| 30    | 1.9   | 12    | 17    | 155  | ---   | 97   | 14   | 1.9   | .56    | .00  | 13     | 17   |
| 31    | 1.6   | ---   | 16    | 137  | ---   | 88   | ---  | 1.4   | ---    | .27  | 16     | ---  |
| TOTAL | 186.8 | 245.3 | 520.3 | 3227 | 14174 | 9557 | 1178 | 922.6 | 181.59 | 6.01 | 274.89 | 2997 |
| MEAN  | 6.03  | 8.18  | 16.8  | 104  | 489   | 308  | 39.3 | 29.8  | 6.05   | .19  | 8.87   | 99.9 |
| MAX   | 21    | 18    | 32    | 357  | 1980  | 597  | 81   | 124   | 23     | .91  | 29     | 408  |
| MIN   | 1.6   | 1.5   | 7.8   | 15   | 58    | 88   | 14   | 1.4   | .04    | .00  | .68    | 16   |
| CFSM  | .04   | .05   | .10   | .65  | 3.05  | 1.93 | .25  | .19   | .04    | .00  | .06    | .62  |
| IN.   | .04   | .06   | .12   | .75  | 3.30  | 2.22 | .27  | .21   | .04    | .00  | .06    | .70  |

CAL YR 1987 TOTAL 69064.20 MEAN 189 MAX 1150 MIN .80 CFSM 1.18 IN. 16.06  
WTR YR 1988 TOTAL 33470.49 MEAN 91.4 MAX 1980 MIN .00 CFSM .57 IN. 7.78

02231000 ST MARYS RIVER NEAR MACCLENNEY, FLA.

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., Hydro-logic 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 mi<sup>2</sup>, approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1926 to current year.

REVISED RECORDS.--WSP 1082: 1928(M), 1945(M). WSP 1142: 1928, 1945. WSP 1434: 1927. WSP 1905: Drainage area. GAGE.--Water-stage recorder. Datum of gage is 40.00 ft 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.--62 years, 677 ft<sup>3</sup>/s, 13.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft<sup>3</sup>/s, Sept. 25, 1947; maximum gage height, 23.25 ft, Sept. 13, 1964, from floodmark; minimum discharge observed, 12 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time    | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|---------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Feb. 22 | unknown | 7,900                             | unknown             | Sept. 9 | 2000 | *9,260                            | *17.43              |
| Mar. 7  | 1500    | 2,690                             | 12.08               |         |      |                                   |                     |

Minimum discharge, 20 ft<sup>3</sup>/s, July 22, gage height, 0.86 ft.

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     | 184  | 39   | 105  | 65    | 875   | 2400  | 372  | 375  | 40   | 32   | 74    | 1100  |
| 2     | 169  | 39   | 99   | 64    | 767   | 2110  | 338  | 1090 | 38   | 30   | 92    | 1740  |
| 3     | 153  | 40   | 94   | 63    | 673   | 1830  | 309  | 1130 | 37   | 28   | 79    | 2440  |
| 4     | 139  | 67   | 89   | 63    | 590   | 1680  | 285  | 804  | 40   | 27   | 87    | 2450  |
| 5     | 127  | 255  | 84   | 64    | 541   | 2030  | 264  | 558  | 39   | 26   | 88    | 2400  |
| 6     | 116  | 191  | 81   | 66    | 538   | 2440  | 242  | 418  | 55   | 26   | 103   | 4270  |
| 7     | 106  | 127  | 77   | 70    | 542   | 2670  | 219  | 324  | 118  | 25   | 122   | 6990  |
| 8     | 97   | 99   | 75   | 180   | 543   | 2590  | 203  | 260  | 116  | 24   | 112   | 7230  |
| 9     | 89   | 83   | 73   | 304   | 538   | 2360  | 188  | 214  | 85   | 23   | 331   | 8700  |
| 10    | 83   | 76   | 71   | 288   | 527   | 2260  | 174  | 183  | 73   | 22   | 481   | 8510  |
| 11    | 78   | 72   | 72   | 289   | 516   | 2320  | 162  | 162  | 85   | 21   | 344   | 7180  |
| 12    | 74   | 68   | 71   | 254   | 477   | 2290  | 155  | 148  | 90   | 22   | 266   | 5570  |
| 13    | 70   | 64   | 72   | 225   | 439   | 2120  | 157  | 139  | 75   | 24   | 196   | 4190  |
| 14    | 68   | 60   | 71   | 204   | 400   | 1910  | 161  | 129  | 63   | 28   | 305   | 3280  |
| 15    | 65   | 59   | 71   | 188   | 360   | 1710  | 152  | 141  | 54   | 37   | 1190  | 2670  |
| 16    | 62   | 57   | 70   | 175   | 334   | 1520  | 142  | 140  | 48   | 38   | 1630  | 2280  |
| 17    | 58   | 62   | 72   | 165   | 309   | 1330  | 132  | 121  | 44   | 30   | 1320  | 2010  |
| 18    | 55   | 148  | 86   | 162   | 222   | 1160  | 124  | 105  | 40   | 25   | 1430  | 1750  |
| 19    | 52   | 238  | 91   | 168   | 1050  | 1090  | 120  | 91   | 38   | 23   | 1360  | 1570  |
| 20    | 50   | 222  | 90   | 172   | 1850  | 1080  | 129  | 81   | 35   | 22   | 1000  | 1450  |
| 21    | 50   | 212  | 88   | 646   | 3760  | 981   | 132  | 73   | 34   | 21   | 681   | 1290  |
| 22    | 47   | 186  | 86   | 1640  | 7460  | 868   | 120  | 67   | 33   | 23   | 498   | 1070  |
| 23    | 45   | 162  | 83   | 1900  | 7030  | 770   | 110  | 61   | 32   | 29   | 367   | 863   |
| 24    | 44   | 144  | 82   | 1750  | 6530  | 687   | 102  | 57   | 30   | 46   | 338   | 710   |
| 25    | 43   | 135  | 80   | 1660  | 5480  | 618   | 96   | 55   | 29   | 88   | 293   | 590   |
| 26    | 43   | 128  | 78   | 1670  | 4490  | 582   | 93   | 54   | 28   | 100  | 368   | 528   |
| 27    | 43   | 123  | 75   | 1650  | 3810  | 599   | 186  | 52   | 30   | 79   | 491   | 520   |
| 28    | 42   | 119  | 73   | 1520  | 3290  | 581   | 302  | 49   | 51   | 62   | 1060  | 484   |
| 29    | 41   | 115  | 71   | 1360  | 2820  | 518   | 207  | 47   | 46   | 53   | 1020  | 423   |
| 30    | 41   | 110  | 68   | 1190  | ---   | 459   | 152  | 44   | 37   | 48   | 672   | 375   |
| 31    | 40   | ---  | 67   | 1010  | ---   | 412   | ---  | 42   | ---  | 51   | 752   | ---   |
| TOTAL | 2374 | 3500 | 2465 | 19225 | 56761 | 45975 | 5528 | 7214 | 1563 | 1133 | 17150 | 84633 |
| MEAN  | 76.6 | 117  | 79.5 | 620   | 1957  | 1483  | 184  | 233  | 52.1 | 36.5 | 553   | 2821  |
| MAX   | 184  | 255  | 105  | 1900  | 7460  | 2670  | 372  | 1130 | 118  | 100  | 1630  | 8700  |
| MIN   | 40   | 39   | 67   | 63    | 222   | 412   | 93   | 42   | 28   | 21   | 74    | 375   |
| CFSM  | .11  | .17  | .11  | .89   | 2.80  | 2.12  | .26  | .33  | .07  | .05  | .79   | 4.03  |
| IN.   | .13  | .19  | .13  | 1.02  | 3.02  | 2.44  | .29  | .38  | .08  | .06  | .91   | 4.50  |

CAL YR 1987 TOTAL 307851 MEAN 843 MAX 5960 MIN 39 CFSM 1.20 IN. 16.36  
WTR YR 1988 TOTAL 247521 MEAN 676 MAX 8700 MIN 21 CFSM .97 IN. 13.15



02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT       | NOV       | DEC      | JAN   | FEB   | MAR   | APR  | MAY  | JUN  | JUL  | AUG  | SEP   |
|-------------|-----------|-----------|----------|-------|-------|-------|------|------|------|------|------|-------|
| 1           | 2.77      | 1.13      | 1.98     | 1.51  | 6.83  | 11.61 | 4.35 | 4.22 | 1.25 | 1.10 | 1.76 | 7.70  |
| 2           | 2.63      | 1.13      | 1.92     | 1.49  | 6.37  | 10.90 | 4.13 | 7.62 | 1.22 | 1.06 | 1.99 | 9.83  |
| 3           | 2.48      | 1.14      | 1.86     | 1.48  | 5.95  | 10.14 | 3.94 | 7.80 | 1.20 | 1.02 | 1.83 | 11.64 |
| 4           | 2.34      | 1.50      | 1.80     | 1.49  | 5.20  | 9.68  | 3.78 | 6.56 | 1.24 | 1.01 | 1.93 | 11.69 |
| 5           | 2.21      | 3.32      | 1.75     | 1.50  | 5.34  | 10.69 | 3.63 | 5.44 | 1.22 | .99  | 1.94 | 11.55 |
| 6           | 2.10      | 2.82      | 1.71     | 1.52  | 5.33  | 11.67 | 3.46 | 4.63 | 1.45 | .98  | 2.11 | 13.96 |
| 7           | 1.99      | 2.22      | 1.67     | 1.57  | 5.35  | 12.05 | 3.28 | 4.04 | 2.28 | .96  | 2.33 | 16.10 |
| 8           | 1.89      | 1.91      | 1.64     | 2.88  | 5.36  | 11.92 | 3.14 | 3.59 | 2.26 | .93  | 2.22 | 16.28 |
| 9           | 1.81      | 1.73      | 1.61     | 4.05  | 5.33  | 11.53 | 3.01 | 3.24 | 1.90 | .91  | 3.97 | 17.13 |
| 10          | 1.73      | 1.65      | 1.59     | 3.97  | 5.28  | 11.30 | 2.88 | 2.96 | 1.74 | .90  | 5.01 | 17.02 |
| 11          | 1.67      | 1.60      | 1.60     | 3.98  | 5.20  | 11.45 | 2.76 | 2.76 | 1.90 | .89  | 4.17 | 16.24 |
| 12          | 1.62      | 1.55      | 1.59     | 3.75  | 5.00  | 11.38 | 2.68 | 2.61 | 1.96 | .90  | 3.64 | 15.13 |
| 13          | 1.58      | 1.50      | 1.60     | 3.48  | 4.80  | 10.93 | 2.71 | 2.51 | 1.78 | .95  | 3.08 | 13.95 |
| 14          | 1.55      | 1.45      | 1.59     | 3.25  | 4.60  | 10.37 | 2.75 | 2.41 | 1.61 | 1.01 | 3.78 | 12.89 |
| 15          | 1.51      | 1.42      | 1.58     | 3.07  | 4.40  | 9.78  | 2.66 | 2.54 | 1.48 | 1.19 | 7.98 | 12.05 |
| 16          | 1.46      | 1.41      | 1.58     | 2.92  | 4.25  | 9.15  | 2.55 | 2.53 | 1.38 | 1.20 | 9.54 | 11.35 |
| 17          | 1.41      | 1.46      | 1.60     | 2.79  | 4.10  | 8.50  | 2.44 | 2.32 | 1.31 | 1.06 | 8.47 | 10.64 |
| 18          | 1.36      | 2.40      | 1.77     | 2.75  | 3.48  | 7.89  | 2.35 | 2.13 | 1.25 | .97  | 8.85 | 9.90  |
| 19          | 1.33      | 3.21      | 1.82     | 2.82  | 7.50  | 7.66  | 2.31 | 1.98 | 1.20 | .93  | 8.62 | 9.33  |
| 20          | 1.30      | 3.09      | 1.82     | 2.87  | 10.20 | 7.61  | 2.41 | 1.85 | 1.16 | .91  | 7.32 | 8.94  |
| 21          | 1.29      | 3.01      | 1.79     | 5.66  | 13.50 | 7.27  | 2.44 | 1.75 | 1.14 | .88  | 6.03 | 8.35  |
| 22          | 1.25      | 2.79      | 1.77     | 9.53  | 16.42 | 6.83  | 2.30 | 1.66 | 1.12 | .91  | 5.11 | 7.57  |
| 23          | 1.22      | 2.56      | 1.74     | 10.33 | 16.15 | 6.42  | 2.19 | 1.59 | 1.10 | 1.05 | 4.32 | 6.81  |
| 24          | 1.20      | 2.39      | 1.72     | 9.89  | 15.82 | 6.06  | 2.10 | 1.52 | 1.07 | 1.33 | 4.13 | 6.16  |
| 25          | 1.19      | 2.30      | 1.70     | 9.62  | 15.06 | 5.75  | 2.03 | 1.49 | 1.05 | 1.93 | 3.83 | 5.62  |
| 26          | 1.18      | 2.23      | 1.67     | 9.65  | 14.25 | 5.59  | 2.00 | 1.48 | 1.02 | 2.07 | 4.32 | 5.29  |
| 27          | 1.18      | 2.17      | 1.64     | 9.58  | 13.56 | 5.67  | 2.93 | 1.45 | 1.05 | 1.82 | 5.00 | 5.24  |
| 28          | 1.17      | 2.13      | 1.62     | 9.17  | 12.91 | 5.58  | 3.89 | 1.41 | 1.43 | 1.60 | 7.52 | 5.03  |
| 29          | 1.16      | 2.09      | 1.59     | 8.61  | 12.26 | 5.23  | 3.17 | 1.36 | 1.34 | 1.46 | 7.38 | 4.66  |
| 30          | 1.15      | 2.03      | 1.56     | 7.98  | ---   | 4.88  | 2.65 | 1.32 | 1.19 | 1.38 | 5.99 | 4.37  |
| 31          | 1.13      | ---       | 1.53     | 7.37  | ---   | 4.59  | ---  | 1.28 | ---  | 1.43 | 6.33 | ---   |
| MEAN        | 1.61      | 2.04      | 1.69     | 4.86  | 8.27  | 8.71  | 2.90 | 2.90 | 1.41 | 1.15 | 4.85 | 10.41 |
| MAX         | 2.77      | 3.32      | 1.98     | 10.33 | 16.42 | 12.05 | 4.35 | 7.80 | 2.28 | 2.07 | 9.54 | 17.13 |
| MIN         | 1.13      | 1.13      | 1.53     | 1.48  | 3.48  | 4.59  | 2.00 | 1.28 | 1.02 | .88  | 1.76 | 4.37  |
| CAL YR 1987 | MEAN 5.25 | MAX 15.31 | MIN 1.13 |       |       |       |      |      |      |      |      |       |
| WTR YR 1988 | MEAN 4.21 | MAX 17.13 | MIN .88  |       |       |       |      |      |      |      |      |       |

## ST MARYS RIVER BASIN

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02231220 ST MARYS RIVER AT BOULOGNE, FLA.

LOCATION.--Lat 30°46'35", long 81°58'44", Nassau County, Fla.--Charlton County, Ga., Hydrologic Unit 03070204, at bridge on U.S. Highways 1, 23, and 301, at Boulogne.

DRAINAGE AREA.--1,180 mi<sup>2</sup>, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1255 | 66                                                | 61                                                       | 6.60                           | 6.40                                  | 20.0                                 | 18.5                               | 7.7                                 | 84                                                             |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 11... | 0730 | 71                                                | 69                                                       | 6.70                           | 6.60                                  | 19.0                                 | 10.5                               | 6.1                                 | 66                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1335 | 68                                                | 76                                                       | 6.50                           | 6.70                                  | 14.0                                 | 25.5                               | 6.5                                 | 63                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1450 | 80                                                | 79                                                       | 6.60                           | 7.00                                  | 12.0                                 | 12.5                               | 7.0                                 | 64                                                             |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1530 | 58                                                | 55                                                       | 5.00                           | 4.80                                  | 11.0                                 | 14.5                               | 9.3                                 | 84                                                             |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 09... | 1530 | 48                                                | 45                                                       | 4.60                           | 4.60                                  | 16.5                                 | 19.5                               | 6.9                                 | 71                                                             |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1215 | 55                                                | 52                                                       | 6.20                           | 6.20                                  | 19.0                                 | 17.5                               | 6.5                                 | 70                                                             |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1255 | 51                                                | 48                                                       | 5.50                           | 5.40                                  | 19.0                                 | 27.5                               | 7.7                                 | 83                                                             |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1230 | 93                                                | 82                                                       | 7.00                           | 7.00                                  | 26.5                                 | 30.0                               | 5.2                                 | 65                                                             |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 13... | 1240 | 102                                               | 97                                                       | --                             | 7.10                                  | 29.0                                 | 36.5                               | 5.6                                 | 72                                                             |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 10... | 1220 | 83                                                | 72                                                       | 6.40                           | 6.20                                  | 28.5                                 | 27.5                               | 4.0                                 | 51                                                             |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1425 | 40                                                | 39                                                       | 4.60                           | 4.40                                  | 25.0                                 | 31.5                               | 3.9                                 | 47                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | TANNIN<br>AND<br>LIGNIN<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------|
| OCT   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 14... | 280                                          | 1.0                          | 0.6                                                            | 110                                              | 14                                                              | 0.100                                                | 0.060                                                | 0.050                                       | 31                                            | 5.9                               |
| NOV   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 11... | 120                                          | 4.0                          | 2.2                                                            | <20                                              | 12                                                              | 0.050                                                | 0.050                                                | 0.060                                       | 19                                            | 3.1                               |
| DEC   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 09... | 200                                          | 2.0                          | 1.1                                                            | 70                                               | 13                                                              | 0.070                                                | 0.070                                                | 0.050                                       | 23                                            | 6.2                               |
| JAN   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 06... | 200                                          | 2.0                          | --                                                             | --                                               | 19                                                              | 0.140                                                | 0.060                                                | 0.070                                       | 18                                            | 3.2                               |
| FEB   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 10... | 200                                          | 4.0                          | 1.3                                                            | <20                                              | 1                                                               | 0.040                                                | 0.040                                                | 0.060                                       | 31                                            | --                                |
| MAR   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 09... | 200                                          | 6.0                          | 1.2                                                            | 80                                               | 1                                                               | <0.020                                               | 0.120                                                | 0.040                                       | 2.0                                           | 5.2                               |
| APR   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 13... | 260                                          | 2.0                          | 0.8                                                            | 20                                               | 8                                                               | 0.090                                                | 0.180                                                | 0.050                                       | 24                                            | 4.4                               |
| MAY   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 04... | 280                                          | 7.0                          | 0.8                                                            | --                                               | 3                                                               | 0.060                                                | 0.110                                                | 0.050                                       | 23                                            | --                                |
| JUN   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 08... | 110                                          | 5.0                          | 1.2                                                            | --                                               | 23                                                              | 0.110                                                | 0.060                                                | 0.050                                       | 17                                            | --                                |
| JUL   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 13... | 120                                          | 5.0                          | 2.5                                                            | 490                                              | 27                                                              | 0.040                                                | 0.040                                                | 0.050                                       | 12                                            | --                                |
| AUG   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 10... | 100                                          | 7.0                          | 1.3                                                            | 110                                              | 9                                                               | 0.090                                                | 0.070                                                | 0.060                                       | 29                                            | 3.5                               |
| SEP   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |                                   |
| 14... | 500                                          | 2.0                          | 0.9                                                            | 80                                               | <1                                                              | 0.020                                                | <0.030                                               | 0.090                                       | 1.0                                           | 6.0                               |

## ST MARYS RIVER BASIN

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 mi<sup>2</sup>, 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, Aug. 1 to Sept. 18. 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. Velocity probe and structure damaged from February to August.

AVERAGE DISCHARGE.--9 years (1967-72, 1981-82, 1987), 1,484 ft<sup>3</sup>/s, 1,075,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,300 ft<sup>3</sup>/s, Nov. 2, 1969; maximum gage height, 14.60 ft, Nov. 1, 1969; maximum daily reverse flow, 5,780 ft<sup>3</sup>/s, Aug. 28, 1982; minimum gage height, 5.63 ft, Feb. 13, 1971.

EXTREMES FOR CURRENT YEARS.--Maximum daily discharge, 14,200 ft<sup>3</sup>/s, Sept. 18; maximum gage height, 13.95 ft, Sept. 27; maximum daily reverse flow, 727 ft<sup>3</sup>/s, Dec. 29, but may have been higher during period of missing record; minimum gage height, 7.27, July 12.

DISCHARGE, 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     | -166  | 338   | 1710  | 3640  | --- | --- | --- | --- | --- | --- | 1600  | 4000   |
| 2     | 946   | 503   | 1140  | 2580  | --- | --- | --- | --- | --- | --- | 2000  | 3950   |
| 3     | 3030  | 2200  | 1000  | 202   | --- | --- | --- | --- | --- | --- | 1600  | 3690   |
| 4     | 2700  | 2120  | 1780  | 735   | --- | --- | --- | --- | --- | --- | 1200  | 4190   |
| 5     | 2400  | 2520  | -20   | 2910  | --- | --- | --- | --- | --- | --- | 1000  | 4500   |
| 6     | 1300  | 1700  | 1530  | 2900  | --- | --- | --- | --- | --- | --- | 1600  | 3380   |
| 7     | 1000  | 2920  | 1450  | 2450  | --- | --- | --- | --- | --- | --- | 2400  | 2540   |
| 8     | 1820  | 2700  | 2020  | 2280  | --- | --- | --- | --- | --- | --- | 2000  | 6630   |
| 9     | 1750  | 2200  | 2270  | 3150  | --- | --- | --- | --- | --- | --- | 1600  | 9250   |
| 10    | 2090  | 2600  | 2110  | 2910  | --- | --- | --- | --- | --- | --- | 1300  | 10100  |
| 11    | 2150  | 2190  | 2010  | 2880  | --- | --- | --- | --- | --- | --- | 1700  | 10800  |
| 12    | 2140  | 1290  | 2160  | 2510  | --- | --- | --- | --- | --- | --- | 2200  | 12000  |
| 13    | 1100  | 1390  | 1400  | 3790  | --- | --- | --- | --- | --- | --- | 2800  | 11900  |
| 14    | 2100  | 1370  | 1630  | 1120  | --- | --- | --- | --- | --- | --- | 3500  | 12000  |
| 15    | 1450  | 1490  | 2030  | 1010  | --- | --- | --- | --- | --- | --- | 3400  | 11600  |
| 16    | 1610  | 958   | 1570  | 1040  | --- | --- | --- | --- | --- | --- | 3000  | 11200  |
| 17    | 2040  | 1900  | 269   | 1180  | --- | --- | --- | --- | --- | --- | 1700  | 12800  |
| 18    | 2240  | 1420  | 218   | 1070  | --- | --- | --- | --- | --- | --- | 2500  | 14200  |
| 19    | 1560  | 943   | 880   | 1010  | --- | --- | --- | --- | --- | --- | 2200  | 11300  |
| 20    | 1790  | 2510  | 4360  | 1950  | --- | --- | --- | --- | --- | --- | 2790  | 8700   |
| 21    | 2400  | 1810  | 4240  | 2470  | --- | --- | --- | --- | --- | --- | 2360  | 6650   |
| 22    | 1410  | 2020  | 1440  | 3670  | --- | --- | --- | --- | --- | --- | 1390  | 3750   |
| 23    | 2400  | 2350  | 2080  | 2180  | --- | --- | --- | --- | --- | --- | 1090  | 3910   |
| 24    | 2110  | 2440  | 1020  | 333   | --- | --- | --- | --- | --- | --- | 2180  | 4170   |
| 25    | 2390  | 2420  | 5800  | 4370  | --- | --- | --- | --- | --- | --- | 1960  | 3920   |
| 26    | 1860  | 1840  | 1190  | 499   | --- | --- | --- | --- | --- | --- | 2610  | 3210   |
| 27    | 2830  | 1620  | 3020  | 3900  | --- | --- | --- | --- | --- | --- | 2770  | 3720   |
| 28    | 2310  | 822   | 3400  | 5350  | --- | --- | --- | --- | --- | --- | 2850  | 3970   |
| 29    | 1530  | 1880  | -727  | 5910  | --- | --- | --- | --- | --- | --- | 2840  | 4010   |
| 30    | 1480  | 1810  | 6410  | 2910  | --- | --- | --- | --- | --- | --- | 3460  | 4750   |
| 31    | 681   | ---   | 2200  | 5050  | --- | --- | --- | --- | --- | --- | 3240  | ---    |
| TOTAL | 56451 | 54274 | 61590 | 77959 | --- | --- | --- | --- | --- | --- | 68840 | 210790 |
| MEAN  | 1821  | 1809  | 1987  | 2515  | --- | --- | --- | --- | --- | --- | 2221  | 7026   |
| MAX   | 3030  | 2920  | 6410  | 5910  | --- | --- | --- | --- | --- | --- | 3500  | 14200  |
| MIN   | -166  | 338   | -727  | 202   | --- | --- | --- | --- | --- | --- | 1000  | 2540   |

CAL YR 1987 TOTAL 1144310 MEAN 3135 MAX 12000 MIN -727 CFSM 2.31 IN 31.30

NOTE.--Negative figures indicate reverse flow.

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GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
TIDAL HIGH VALUES

| DAY         | OCT        | NOV       | DEC   | JAN       | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-----------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 13.08      | 13.07     | 12.89 | 12.84     | 12.68 | 13.26 | 12.71 | 13.35 | 13.18 | 13.04 | 13.19 | 13.46 |
| 2           | 12.93      | 13.32     | 12.75 | 12.77     | 12.63 | 13.40 | 12.72 | 13.26 | 13.16 | 13.40 | 13.04 | 13.33 |
| 3           | 12.79      | 13.43     | 12.79 | 13.31     | 12.60 | 13.18 | 12.82 | 13.23 | 13.05 | 13.29 | 13.16 | 13.15 |
| 4           | 13.08      | 13.44     | 12.33 | 12.99     | 12.65 | 13.01 | 12.84 | 13.06 | 13.32 | 13.17 | 13.16 | 12.87 |
| 5           | 13.15      | 13.41     | 12.84 | 12.80     | 12.85 | 12.81 | 12.84 | 12.92 | 13.51 | 13.18 | 13.12 | 12.54 |
| 6           | 13.15      | 13.64     | 12.83 | 12.77     | 12.70 | 13.04 | 12.86 | 12.85 | 13.14 | 13.76 | 12.93 | 12.95 |
| 7           | 13.00      | 13.36     | 12.97 | 13.09     | 12.91 | 13.22 | 12.55 | 12.93 | 12.79 | 13.65 | 12.88 | 13.83 |
| 8           | 12.95      | 13.07     | 12.95 | 12.79     | 12.82 | 12.98 | 12.72 | 12.94 | 12.86 | 13.15 | 12.92 | 13.70 |
| 9           | 13.06      | 12.95     | 12.74 | 12.56     | 12.75 | 12.91 | 12.90 | 12.99 | 12.63 | 12.82 | 13.02 | 13.49 |
| 10          | 13.20      | 12.64     | 12.56 | 12.59     | 12.74 | 12.75 | 13.02 | 12.85 | 12.94 | 12.79 | 12.95 | 13.49 |
| 11          | 13.15      | 12.20     | 12.37 | 12.69     | 12.96 | 12.69 | 13.11 | 12.92 | 13.23 | 12.89 | 12.96 | 13.60 |
| 12          | 13.06      | 12.69     | 11.98 | 12.71     | 12.76 | 13.06 | 13.01 | 13.09 | 13.21 | 12.74 | 12.96 | 13.69 |
| 13          | 13.40      | 12.76     | 12.26 | 12.59     | 11.76 | 12.77 | 13.13 | 13.05 | 13.13 | 12.70 | 12.99 | 13.75 |
| 14          | 13.27      | 12.83     | 12.29 | 12.54     | 12.67 | 12.81 | 13.41 | 13.10 | 13.11 | 12.68 | 13.16 | 13.60 |
| 15          | 13.29      | 12.79     | 12.37 | 13.05     | 13.03 | 12.77 | 13.40 | 13.17 | 12.98 | 12.69 | 12.82 | 13.64 |
| 16          | 13.31      | 12.87     | 11.97 | 13.19     | 12.55 | 13.02 | 13.53 | 13.18 | 12.95 | 12.58 | 12.56 | 13.90 |
| 17          | 13.27      | 12.92     | 12.34 | 13.19     | 12.93 | 13.21 | 13.48 | 13.04 | 12.92 | 12.55 | 12.61 | 13.67 |
| 18          | 13.12      | 12.86     | 12.80 | 13.05     | 13.20 | 13.35 | 13.34 | 13.02 | 12.77 | 12.51 | 12.57 | 13.36 |
| 19          | 13.12      | 13.07     | 13.00 | 13.20     | 13.61 | 13.35 | 13.09 | 12.99 | 12.62 | 12.38 | 12.51 | 13.42 |
| 20          | 13.16      | 13.20     | 12.97 | 13.14     | 13.71 | 12.96 | 12.72 | 12.76 | 12.60 | 12.33 | 12.54 | 13.45 |
| 21          | 13.09      | 13.15     | 12.93 | 13.24     | 13.75 | 12.71 | 12.95 | 12.63 | 12.58 | 12.24 | 12.69 | 13.38 |
| 22          | 13.48      | 13.28     | 13.17 | 12.95     | 13.46 | 12.61 | 12.55 | 12.60 | 12.56 | 12.26 | 13.00 | 13.69 |
| 23          | 13.36      | 13.33     | 13.20 | 12.82     | 13.34 | 13.05 | 12.47 | 12.37 | 12.54 | 12.24 | 13.33 | 13.71 |
| 24          | 13.44      | 13.21     | 13.14 | 12.78     | 13.11 | 12.67 | 12.39 | 12.07 | 12.59 | 12.53 | 13.30 | 13.55 |
| 25          | 13.35      | 13.11     | 12.89 | 12.94     | 12.85 | 12.39 | 12.29 | 12.10 | 13.02 | 12.83 | 13.30 | 13.45 |
| 26          | 13.51      | 13.06     | 12.56 | 12.30     | 12.85 | 12.18 | 12.85 | 13.14 | 13.07 | 13.06 | 13.32 | 13.57 |
| 27          | 13.33      | 12.98     | 12.44 | 12.20     | 13.00 | 11.87 | 12.80 | 13.10 | 13.31 | 13.18 | 13.32 | 13.95 |
| 28          | 13.13      | 13.14     | 12.66 | 12.53     | 13.19 | 12.22 | 12.47 | 12.95 | 13.41 | 13.24 | 13.42 | 13.76 |
| 29          | 13.06      | 13.05     | 12.30 | 12.44     | 13.39 | 12.50 | 12.69 | 12.95 | 13.34 | 13.23 | 13.18 | 13.85 |
| 30          | 12.90      | 12.98     | 12.91 | 12.52     | ---   | 12.47 | 13.05 | 13.17 | 13.24 | 13.29 | 13.18 | 13.63 |
| 31          | 12.92      | ---       | 12.89 | 12.58     | ---   | 12.60 | ---   | 13.15 | ---   | 13.27 | 13.35 | ---   |
| MEAN        | 13.16      | 13.06     | 12.68 | 12.81     | 12.95 | 12.83 | 12.89 | 12.93 | 12.99 | 12.89 | 13.01 | 13.51 |
| MAX         | 13.51      | 13.64     | 13.20 | 13.31     | 13.75 | 13.40 | 13.53 | 13.35 | 13.51 | 13.76 | 13.42 | 13.95 |
| MIN         | 12.79      | 12.20     | 11.97 | 12.20     | 11.76 | 11.87 | 12.29 | 12.07 | 12.54 | 12.24 | 12.51 | 12.54 |
| CAL YR 1987 | MEAN 13.10 | MAX 14.13 |       | MIN 11.97 |       |       |       |       |       |       |       |       |
| WTR YR 1988 | MEAN 12.98 | MAX 13.95 |       | MIN 11.76 |       |       |       |       |       |       |       |       |

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
TIDAL LOW VALUES

| DAY         | OCT       | NOV       | DEC      | JAN  | FEB   | MAR   | APR  | MAY  | JUN   | JUL   | AUG  | SEP   |
|-------------|-----------|-----------|----------|------|-------|-------|------|------|-------|-------|------|-------|
| 1           | 8.63      | 8.82      | 8.17     | 7.85 | 7.74  | 9.65  | 8.01 | 9.13 | 8.19  | 8.61  | 8.48 | 9.26  |
| 2           | 8.41      | 9.20      | 7.64     | 7.68 | 7.80  | 10.05 | 8.06 | 8.98 | 7.82  | 8.73  | 8.23 | 9.21  |
| 3           | 7.90      | 9.86      | 7.55     | 9.24 | 7.73  | 9.46  | 7.94 | 8.25 | 8.26  | 8.73  | 8.39 | 8.82  |
| 4           | 8.54      | 9.35      | 7.53     | 8.79 | 7.86  | 8.76  | 7.80 | 7.96 | 10.12 | 9.06  | 8.65 | 8.58  |
| 5           | 8.64      | 9.35      | 7.54     | 7.78 | 7.90  | 8.26  | 7.91 | 7.54 | 9.17  | 9.30  | 8.56 | 8.02  |
| 6           | 8.80      | 8.86      | 7.80     | 8.00 | 8.59  | 9.01  | 7.82 | 7.90 | 8.56  | 10.12 | 8.19 | 8.25  |
| 7           | 8.16      | 9.53      | 8.10     | 9.21 | 9.11  | 8.87  | 7.52 | 8.48 | 8.23  | 9.71  | 7.96 | 9.66  |
| 8           | 7.62      | 8.84      | 8.62     | 8.77 | 8.77  | 8.60  | 8.80 | 8.61 | 7.95  | 8.33  | 8.18 | 10.73 |
| 9           | 8.24      | 8.63      | 8.46     | 8.51 | 9.04  | 8.37  | 9.19 | 8.72 | 7.53  | 7.67  | 8.43 | 10.18 |
| 10          | 8.83      | 8.63      | 8.26     | 8.72 | 9.34  | 7.53  | 9.05 | 8.40 | 7.52  | 7.41  | 8.39 | 10.06 |
| 11          | 9.03      | 7.99      | 7.88     | 9.21 | 9.12  | 9.16  | 9.30 | 8.21 | 8.73  | 7.52  | 8.09 | 10.42 |
| 12          | 8.96      | 8.95      | 7.79     | 8.64 | 7.53  | 8.57  | 8.77 | 8.24 | 8.43  | 7.27  | 8.62 | 10.90 |
| 13          | 10.42     | 9.03      | 8.09     | 7.74 | 7.52  | 7.69  | 8.17 | 7.81 | 8.33  | 7.30  | 8.83 | 10.91 |
| 14          | 10.71     | 9.36      | 8.38     | 8.34 | 7.53  | 7.60  | 8.96 | 7.74 | 8.07  | 7.46  | 8.64 | 10.60 |
| 15          | 10.84     | 9.53      | 7.54     | 8.85 | 7.56  | 7.54  | 8.85 | 7.96 | 8.07  | 7.54  | 8.37 | 10.60 |
| 16          | 10.53     | 9.46      | 7.53     | 8.72 | 7.51  | 7.68  | 8.99 | 7.74 | 8.34  | 7.75  | 8.19 | 11.07 |
| 17          | 10.50     | 9.27      | 7.56     | 8.27 | 7.52  | 8.27  | 8.57 | 7.96 | 8.37  | 7.82  | 8.36 | 11.03 |
| 18          | 9.88      | 8.93      | 7.55     | 7.55 | 7.58  | 8.76  | 8.03 | 8.13 | 8.21  | 7.87  | 8.42 | 9.82  |
| 19          | 9.80      | 8.46      | 7.89     | 7.62 | 9.84  | 7.72  | 7.52 | 8.16 | 8.54  | 8.00  | 8.09 | 9.79  |
| 20          | 9.71      | 8.80      | 7.56     | 7.92 | 10.47 | 7.52  | 8.43 | 8.16 | 8.79  | 7.98  | 8.14 | 9.63  |
| 21          | 9.32      | 7.81      | 7.53     | 7.62 | 9.89  | 7.52  | 8.08 | 8.36 | 8.76  | 7.89  | 7.98 | 9.16  |
| 22          | 8.97      | 8.35      | 7.53     | 8.10 | 9.64  | 7.78  | 8.10 | 8.32 | 8.64  | 7.58  | 8.20 | 9.51  |
| 23          | 9.51      | 8.75      | 8.01     | 7.93 | 9.22  | 8.34  | 8.32 | 8.13 | 8.30  | 7.57  | 9.17 | 9.94  |
| 24          | 9.53      | 8.43      | 8.37     | 8.10 | 8.75  | 7.98  | 7.91 | 7.70 | 8.20  | 7.32  | 8.62 | 9.47  |
| 25          | 9.30      | 8.42      | 8.16     | 8.27 | 8.99  | 8.04  | 8.11 | 7.51 | 8.73  | 7.64  | 8.34 | 9.04  |
| 26          | 9.34      | 8.43      | 7.59     | 7.53 | 9.16  | 7.60  | 9.14 | 8.06 | 8.83  | 7.81  | 8.14 | 9.35  |
| 27          | 9.60      | 8.53      | 7.66     | 7.57 | 9.09  | 7.88  | 9.05 | 9.54 | 8.40  | 7.66  | 8.19 | 10.32 |
| 28          | 8.72      | 9.38      | 7.91     | 7.72 | 8.62  | 7.75  | 8.15 | 8.45 | 9.32  | 7.75  | 8.84 | 9.94  |
| 29          | 8.75      | 9.39      | 7.53     | 7.56 | 10.29 | 8.36  | 7.91 | 7.79 | 8.40  | 7.84  | 8.37 | 10.10 |
| 30          | 8.49      | 8.94      | 7.55     | 7.64 | ---   | 8.23  | 7.79 | 8.17 | 7.68  | 8.20  | 8.32 | 10.08 |
| 31          | 8.45      | ---       | 8.21     | 7.68 | ---   | 7.96  | ---  | 8.26 | ---   | 8.30  | 8.82 | ---   |
| MEAN        | 9.17      | 8.91      | 7.85     | 8.17 | 8.61  | 8.27  | 8.34 | 8.21 | 8.42  | 8.06  | 8.39 | 9.81  |
| MAX         | 10.84     | 9.86      | 8.62     | 9.24 | 10.47 | 10.05 | 9.30 | 9.54 | 10.12 | 10.12 | 9.17 | 11.07 |
| MIN         | 7.62      | 7.81      | 7.53     | 7.53 | 7.51  | 7.52  | 7.52 | 7.51 | 7.52  | 7.27  | 7.96 | 8.02  |
| CAL YR 1987 | MEAN 8.77 | MAX 12.10 | MIN 7.14 |      |       |       |      |      |       |       |      |       |
| WTR YR 1988 | MEAN 8.51 | MAX 11.07 | MIN 7.27 |      |       |       |      |      |       |       |      |       |

## 02314500 SUWANNEE RIVER AT FARGO, GA.

LOCATION.--Lat 30°40'50", long 82°33'38", Clinch County, Hydrologic Unit, 03110201, on downstream side of right bank pier of bridge on U.S. Highway 441 at Fargo, 4 mi upstream from Suwannee Creek, and 12 mi downstream from Mixons Ferry damsite.

DRAINAGE AREA.--About 1,260 mi<sup>2</sup>, includes part of watershed in Okefenokee Swamp, which is indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1921 to September 1923 (gage heights only), January 1927 to December 1931, April 1937 to current year. Monthly discharge only for 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.--55 years (water years 1928-31, 1938-88), 1,069 ft<sup>3</sup>/s, 11.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Feb. 27 | 1200 | *4,190                            | *13.21              |

Minimum discharge, 21 ft<sup>3</sup>/s, July 27-30.

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     | 107  | 33   | 39   | 39   | 132   | 3910  | 1500  | 256  | 102  | 38   | 29   | 76    |
| 2     | 101  | 30   | 39   | 39   | 133   | 3760  | 1400  | 292  | 100  | 39   | 26   | 155   |
| 3     | 97   | 28   | 39   | 39   | 133   | 3590  | 1300  | 286  | 100  | 38   | 24   | 153   |
| 4     | 93   | 29   | 39   | 40   | 134   | 3530  | 1210  | 272  | 98   | 38   | 24   | 121   |
| 5     | 91   | 29   | 39   | 40   | 138   | 3550  | 1120  | 259  | 99   | 37   | 48   | 182   |
| 6     | 89   | 28   | 39   | 40   | 163   | 3540  | 1040  | 247  | 99   | 35   | 49   | 373   |
| 7     | 87   | 27   | 39   | 41   | 180   | 3490  | 970   | 234  | 100  | 33   | 44   | 411   |
| 8     | 85   | 28   | 39   | 51   | 182   | 3390  | 888   | 224  | 98   | 31   | 40   | 400   |
| 9     | 84   | 28   | 38   | 56   | 187   | 3290  | 812   | 215  | 97   | 29   | 37   | 792   |
| 10    | 83   | 28   | 38   | 57   | 186   | 3220  | 742   | 209  | 96   | 27   | 34   | 996   |
| 11    | 82   | 27   | 40   | 56   | 183   | 3130  | 677   | 213  | 95   | 27   | 32   | 1050  |
| 12    | 81   | 26   | 40   | 55   | 180   | 3030  | 630   | 213  | 94   | 27   | 33   | 1060  |
| 13    | 81   | 26   | 39   | 54   | 173   | 2930  | 604   | 208  | 93   | 26   | 32   | 1060  |
| 14    | 80   | 26   | 39   | 53   | 166   | 2820  | 578   | 205  | 92   | 25   | 33   | 1050  |
| 15    | 79   | 26   | 40   | 52   | 166   | 2700  | 547   | 205  | 90   | 27   | 35   | 1020  |
| 16    | 79   | 26   | 42   | 52   | 186   | 2590  | 513   | 200  | 89   | 28   | 40   | 989   |
| 17    | 78   | 30   | 42   | 53   | 190   | 2480  | 479   | 193  | 88   | 29   | 49   | 945   |
| 18    | 77   | 47   | 41   | 55   | 206   | 2390  | 447   | 187  | 87   | 30   | 47   | 897   |
| 19    | 77   | 48   | 41   | 58   | 1150  | 2320  | 422   | 183  | 86   | 40   | 42   | 859   |
| 20    | 75   | 45   | 41   | 64   | 2090  | 2250  | 401   | 176  | 84   | 35   | 39   | 817   |
| 21    | 74   | 45   | 40   | 130  | 3060  | 2190  | 378   | 167  | 82   | 31   | 38   | 760   |
| 22    | 72   | 45   | 40   | 183  | 3510  | 2120  | 352   | 160  | 80   | 28   | 37   | 694   |
| 23    | 71   | 44   | 40   | 161  | 3720  | 2050  | 326   | 156  | 78   | 27   | 38   | 628   |
| 24    | 70   | 43   | 40   | 147  | 3900  | 1980  | 302   | 147  | 75   | 25   | 39   | 567   |
| 25    | 68   | 42   | 40   | 142  | 4030  | 1920  | 283   | 139  | 69   | 23   | 40   | 513   |
| 26    | 66   | 42   | 39   | 141  | 4120  | 1860  | 290   | 134  | 58   | 22   | 52   | 466   |
| 27    | 64   | 41   | 39   | 138  | 4160  | 1800  | 289   | 128  | 45   | 21   | 112  | 425   |
| 28    | 60   | 40   | 39   | 134  | 4150  | 1730  | 270   | 120  | 49   | 21   | 87   | 387   |
| 29    | 53   | 39   | 39   | 131  | 4040  | 1670  | 249   | 115  | 40   | 21   | 74   | 354   |
| 30    | 43   | 39   | 39   | 130  | ---   | 1610  | 234   | 109  | 38   | 21   | 68   | 323   |
| 31    | 37   | ---  | 39   | 131  | ---   | 1560  | ---   | 105  | ---  | 29   | 75   | ---   |
| TOTAL | 2384 | 1035 | 1227 | 2562 | 40948 | 82400 | 19253 | 5957 | 2501 | 908  | 1397 | 18523 |
| MEAN  | 76.9 | 34.5 | 39.6 | 82.6 | 1412  | 2658  | 642   | 192  | 83.4 | 29.3 | 45.1 | 617   |
| MAX   | 107  | 48   | 42   | 183  | 4160  | 3910  | 1500  | 292  | 102  | 40   | 112  | 1060  |
| MIN   | 37   | 26   | 38   | 39   | 132   | 1560  | 234   | 105  | 38   | 21   | 24   | 76    |
| CFSM  | .06  | .03  | .03  | .07  | 1.12  | 2.11  | .51   | .15  | .07  | .02  | .04  | .49   |
| IN.   | .07  | .03  | .04  | .08  | 1.21  | 2.43  | .57   | .18  | .07  | .03  | .04  | .55   |

|             |       |        |      |      |     |      |     |    |      |     |    |       |
|-------------|-------|--------|------|------|-----|------|-----|----|------|-----|----|-------|
| CAL YR 1987 | TOTAL | 455913 | MEAN | 1249 | MAX | 6030 | MIN | 26 | CFSM | .99 | IN | 13.46 |
| WTR YR 1988 | TOTAL | 179095 | MEAN | 489  | MAX | 4160 | MIN | 21 | CFSM | .39 | IN | 5.29  |



## SUWANNEE RIVER BASIN

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

## WATER-QUALITY RECORDS

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 0840 | 72                                              | 62                                                | 59                                                       | 4.00                           | 3.90                                  | 16.5                                 | 10.0                               | 7.4                                 | 76                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1030 | 49                                              | 63                                                | 62                                                       | 4.20                           | 4.20                                  | 16.5                                 | 15.5                               | 7.7                                 | 79                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1100 | 41                                              | 70                                                | 60                                                       | 4.30                           | 4.00                                  | 18.5                                 | 22.0                               | 9.0                                 | 97                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 0930 | 59                                              | 69                                                | 62                                                       | 4.10                           | 4.00                                  | 15.0                                 | 22.5                               | 9.4                                 | 94                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 0935 | 190                                             | 80                                                | 69                                                       | 4.00                           | 4.00                                  | 8.0                                  | 8.5                                | 10.0                                | 85                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1050 | 2480                                            | 70                                                | 64                                                       | 3.90                           | 3.90                                  | 13.0                                 | 15.5                               | 8.1                                 | 77                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 0855 | 380                                             | 65                                                | 64                                                       | 4.00                           | 3.80                                  | 20.0                                 | 18.0                               | 7.1                                 | 79                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 0850 | 185                                             | 50                                                | 67                                                       | 4.00                           | 3.80                                  | 23.5                                 | 23.0                               | 6.2                                 | 74                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 0925 | 78                                              | 72                                                | 69                                                       | 4.00                           | 3.80                                  | 29.0                                 | 31.0                               | 5.8                                 | 76                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 0855 | 31                                              | 55                                                | 54                                                       | 4.00                           | 4.10                                  | 30.0                                 | 30.5                               | 6.2                                 | 83                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 0855 | 47                                              | 66                                                | 62                                                       | 4.10                           | 4.00                                  | 28.0                                 | 27.5                               | 6.1                                 | 79                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 0905 | 701                                             | 75                                                | 74                                                       | 4.00                           | 3.80                                  | 26.5                                 | 27.0                               | 5.6                                 | 70                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 22... | 320                                          | <1.0                         | 86                                                             | 0.6                                                            | <20                                              | <1                                                            | 7                                                                 |
| NOV   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 19... | 200                                          | 2.0                          | 89                                                             | 0.9                                                            | 490                                              | <1                                                            | 7                                                                 |
| DEC   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 21... | 200                                          | 1.0                          | 94                                                             | 2.5                                                            | 20                                               | <1                                                            | 20                                                                |
| JAN   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 20... | 240                                          | 2.0                          | 80                                                             | 0.7                                                            | <20                                              | <1                                                            | <1                                                                |
| FEB   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 17... | 200                                          | 2.0                          | 10                                                             | 1.2                                                            | 50                                               | <1                                                            | <1                                                                |
| MAR   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 17... | 220                                          | 4.0                          | 89                                                             | 1.6                                                            | 40                                               | <1                                                            | <1                                                                |
| APR   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 21... | 360                                          | 2.0                          | 110                                                            | 1.2                                                            | 20                                               | <1                                                            | 1                                                                 |
| MAY   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 19... | 250                                          | 2.0                          | 150                                                            | 1.0                                                            | 20                                               | --                                                            | 5                                                                 |
| JUN   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 23... | 200                                          | 2.0                          | 150                                                            | 1.0                                                            | <20                                              | <1                                                            | <1                                                                |
| JUL   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 21... | --                                           | 5.0                          | --                                                             | 0.8                                                            | 20                                               | <1                                                            | <1                                                                |
| AUG   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 18... | 100                                          | 3.0                          | --                                                             | 0.4                                                            | 230                                              | <1                                                            | 5                                                                 |
| SEP   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 22... | 350                                          | 1.0                          | --                                                             | --                                                             | --                                               | <1                                                            | <1                                                                |

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | TANNIN<br>AND<br>LIGNIN<br>(MG/L) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------|
| OCT<br>22... | <0.020                                               | 0.050                                                | 0.75                                                 | 0.80                                                               | --                                        | <0.020                                      | 46                                            | 7.2                               |
| NOV<br>19... | <0.020                                               | 0.030                                                | --                                                   | --                                                                 | --                                        | 0.030                                       | 43                                            | 5.6                               |
| DEC<br>21... | <0.020                                               | 0.040                                                | 0.76                                                 | 0.80                                                               | --                                        | <0.020                                      | 37                                            | 3.8                               |
| JAN<br>20... | 0.030                                                | <0.020                                               | --                                                   | 0.70                                                               | 0.73                                      | 0.050                                       | 34                                            | 5.8                               |
| FEB<br>17... | <0.020                                               | 0.080                                                | 0.62                                                 | 0.70                                                               | --                                        | <0.020                                      | --                                            | 4.9                               |
| MAR<br>17... | 0.050                                                | 0.060                                                | 0.94                                                 | 1.0                                                                | 1.0                                       | <0.020                                      | 44                                            | 7.1                               |
| APR<br>21... | 0.020                                                | <0.020                                               | --                                                   | 0.90                                                               | 0.92                                      | <0.020                                      | 34                                            | 4.3                               |
| MAY<br>19... | <0.020                                               | 0.050                                                | 0.75                                                 | 0.80                                                               | --                                        | <0.020                                      | 46                                            | 7.8                               |
| JUN<br>23... | 0.070                                                | 0.110                                                | 0.99                                                 | 1.1                                                                | 1.2                                       | <0.020                                      | 45                                            | 6.8                               |
| JUL<br>21... | 0.020                                                | 0.030                                                | --                                                   | --                                                                 | --                                        | <0.020                                      | 34                                            | --                                |
| AUG<br>18... | 0.050                                                | 0.220                                                | --                                                   | --                                                                 | --                                        | 0.040                                       | --                                            | 6.5                               |
| SEP<br>22... | 0.120                                                | 0.190                                                | --                                                   | --                                                                 | --                                        | 0.080                                       | 60                                            | 9.1                               |

## SUWANNEE RIVER BASIN

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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

|  |  | DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--|--|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|
|  |  | JUN<br>03... | 0630 | 50                                              | 52                                                | 52                                                       | 6.27                           | 6.40                                  | 22.0                                 | 5.2                                 | 60                                                             |

|  |  | DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |     |
|--|--|--------------|----------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|-----|
|  |  | JUN<br>03... | 200                                          | 14                           | 14                                              | 8                                                                 | 2.9                                          | 1.6                                                  | 3.1                                          | 29                                      | 0.4                                                 | 2.1                                                       | 6.0 |

|  |  | DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) |
|--|--|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
|  |  | JUN<br>03... | --                                            | 8.6                                                 | 0.20                                               | 7.7                                               | 72                                                                 | --                                                                  | --                                                | --                                                  | 0.200                                                | 0.150                                                         | 0.060                                                | 0.130                                                         |

|  |  | DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) |
|--|--|--------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|-------------------------------------|----------------------------------------------|
|  |  | JUN<br>03... | 1.1                                                  | 0.77                                                          | 1.2                                                                | 0.90                                                              | 1.4                                       | 1.1                                                | 0.050                                       | 0.040                                                | 21                                            | 210                                                 | <1                                  | 1                                            |

|  |  | DATE         | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--|--|--------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------|
|  |  | JUN<br>03... | <1                                           | <1                                                  | 3                                            | 1000                                       | <5                                                    | <5                                         | 91                                                   | --                                                      | --                                           | <1                                                  | 7                                          |

## SUWANNEE RIVER BASIN

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## 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 mi<sup>2</sup>, 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.--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.

AVERAGE DISCHARGE.--57 years (1932-88), 1,059 ft<sup>3</sup>/s, 10.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,300 ft<sup>3</sup>/s, Apr. 6, 1948, gage height, 29.8 ft, from graph based on gage readings; minimum, 16 ft<sup>3</sup>/s, Nov. 13, 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 6, 1948, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date  | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|-------|------|-----------------------------------|---------------------|
| Mar. 21 | 0700 | *4,770                            | *18.82              | May 6 | 0100 | 4,460                             | 17.82               |

Minimum discharge, 37 ft<sup>3</sup>/s, Aug. 10, 11, 13.

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           | 82    | 39     | 56   | 52   | 1170  | 3760   | 1560   | 2560      | 196      | 64   | 39   | 42    |
| 2           | 78    | 38     | 54   | 53   | 1300  | 3800   | 1450   | 3150      | 190      | 63   | 39   | 43    |
| 3           | 74    | 38     | 57   | 55   | 1410  | 3780   | 1350   | 3720      | 184      | 60   | 44   | 44    |
| 4           | 71    | 41     | 56   | 60   | 1460  | 3940   | 1270   | 4150      | 179      | 59   | 48   | 49    |
| 5           | 68    | 48     | 53   | 65   | 1470  | 4330   | 1190   | 4400      | 168      | 57   | 47   | 337   |
| 6           | 67    | 72     | 51   | 66   | 1410  | 4620   | 1110   | 4430      | 162      | 54   | 43   | 1220  |
| 7           | 66    | 79     | 50   | 66   | 1270  | 4750   | 1030   | 4180      | 154      | 52   | 47   | 414   |
| 8           | 66    | 104    | 48   | 75   | 1150  | 4650   | 943    | 3670      | 149      | 51   | 48   | 300   |
| 9           | 66    | 111    | 46   | 94   | 1080  | 4390   | 869    | 3000      | 139      | 49   | 42   | 1500  |
| 10          | 66    | 105    | 46   | 106  | 1050  | 4230   | 798    | 2390      | 149      | 48   | 39   | 1780  |
| 11          | 66    | 103    | 46   | 108  | 1030  | 4230   | 720    | 1890      | 136      | 49   | 38   | 1410  |
| 12          | 64    | 115    | 46   | 108  | 1030  | 4340   | 661    | 1390      | 136      | 51   | 39   | 1140  |
| 13          | 62    | 124    | 45   | 111  | 1040  | 4460   | 624    | 1030      | 135      | 49   | 38   | 1070  |
| 14          | 58    | 123    | 44   | 116  | 1050  | 4520   | 591    | 853       | 124      | 49   | 43   | 824   |
| 15          | 56    | 111    | 45   | 118  | 1050  | 4450   | 565    | 780       | 114      | 48   | 54   | 617   |
| 16          | 55    | 102    | 50   | 118  | 1030  | 4280   | 538    | 721       | 108      | 47   | 59   | 517   |
| 17          | 54    | 119    | 64   | 122  | 972   | 4180   | 499    | 643       | 103      | 46   | 63   | 484   |
| 18          | 53    | 143    | 59   | 137  | 978   | 4300   | 454    | 571       | 103      | 47   | 60   | 467   |
| 19          | 51    | 144    | 52   | 159  | 2550  | 4540   | 473    | 504       | 120      | 48   | 55   | 442   |
| 20          | 50    | 124    | 49   | 242  | 3700  | 4720   | 1120   | 444       | 114      | 46   | 51   | 426   |
| 21          | 48    | 108    | 46   | 558  | 4140  | 4760   | 1630   | 392       | 103      | 45   | 48   | 433   |
| 22          | 47    | 104    | 47   | 600  | 4170  | 4620   | 1580   | 352       | 96       | 43   | 49   | 457   |
| 23          | 46    | 105    | 49   | 561  | 3930  | 4300   | 1400   | 327       | 90       | 42   | 48   | 491   |
| 24          | 45    | 101    | 51   | 543  | 3600  | 3830   | 1320   | 310       | 85       | 43   | 49   | 515   |
| 25          | 45    | 92     | 50   | 565  | 3340  | 3310   | 1310   | 298       | 80       | 42   | 50   | 518   |
| 26          | 43    | 84     | 48   | 617  | 3230  | 2890   | 1400   | 279       | 76       | 43   | 48   | 509   |
| 27          | 42    | 80     | 47   | 672  | 3300  | 2610   | 1460   | 258       | 73       | 43   | 48   | 486   |
| 28          | 41    | 73     | 47   | 731  | 3460  | 2340   | 1540   | 238       | 73       | 42   | 47   | 472   |
| 29          | 40    | 67     | 48   | 816  | 3640  | 2090   | 1740   | 222       | 68       | 41   | 45   | 434   |
| 30          | 40    | 62     | 50   | 920  | ---   | 1880   | 2070   | 210       | 66       | 42   | 42   | 378   |
| 31          | 39    | ---    | 52   | 1050 | ---   | 1700   | ---    | 202       | ---      | 41   | 41   | ---   |
| TOTAL       | 1749  | 2759   | 1552 | 9664 | 60010 | 120600 | 33265  | 47564     | 3673     | 1504 | 1451 | 17819 |
| MEAN        | 56.4  | 92.0   | 50.1 | 312  | 2069  | 3890   | 1109   | 1534      | 122      | 48.5 | 46.8 | 594   |
| MAX         | 82    | 144    | 64   | 1050 | 4170  | 4760   | 2070   | 4430      | 196      | 64   | 63   | 1780  |
| MIN         | 39    | 38     | 44   | 52   | 972   | 1700   | 454    | 202       | 66       | 41   | 38   | 42    |
| CFSM        | .04   | .07    | .04  | .22  | 1.48  | 2.78   | .79    | 1.10      | .09      | .04  | .03  | .42   |
| IN.         | .05   | .07    | .04  | .26  | 1.59  | 3.20   | .88    | 1.26      | .10      | .04  | .04  | .47   |
| CAL YR 1987 | TOTAL | 575921 | MEAN | 1578 | MAX   | 10700  | MIN 38 | CFSM 1.13 | IN 15.30 |      |      |       |
| WTR YR 1988 | TOTAL | 301610 | MEAN | 824  | MAX   | 4760   | MIN 38 | CFSM .59  | IN 8.01  |      |      |       |

## SUWANNEE RIVER BASIN

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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 20... | 0750 | 3.4                                             | --                                                | 1200                                                     | 7.50                           | 7.70                                  | 21.0                                 | 17.0                               | 6.8                                 | 78                                                             |
| NOV 17... | 1640 | 62                                              | 290                                               | 274                                                      | 7.30                           | 7.50                                  | 13.0                                 | 19.5                               | 7.6                                 | 73                                                             |
| DEC 14... | 0830 | 4.6                                             | --                                                | 1150                                                     | 7.70                           | 8.00                                  | 17.5                                 | 13.0                               | 8.2                                 | 87                                                             |
| JAN 18... | 0950 | 13                                              | 645                                               | 625                                                      | 7.50                           | 7.70                                  | 14.0                                 | 15.5                               | 8.6                                 | 85                                                             |
| FEB 16... | 0955 | 13                                              | 435                                               | 413                                                      | 7.30                           | 7.40                                  | 10.0                                 | 3.0                                | 10.0                                | 90                                                             |
| MAR 15... | 0825 | 14                                              | 290                                               | 272                                                      | 7.00                           | 7.10                                  | 10.5                                 | 2.5                                | 9.2                                 | 84                                                             |
| APR 18... | 0745 | 5.3                                             | 43                                                | 51                                                       | 6.00                           | 5.60                                  | 19.0                                 | 27.0                               | 6.3                                 | 69                                                             |
| MAY 17... | 0745 | 7.2                                             | 460                                               | 466                                                      | 7.20                           | 7.50                                  | 23.0                                 | 27.0                               | 7.9                                 | 94                                                             |
| JUN 21... | 0825 | --                                              | 640                                               | 619                                                      | 7.50                           | 7.60                                  | 25.0                                 | 29.5                               | 7.5                                 | 92                                                             |
| JUL 19... | 0735 | 6.8                                             | 515                                               | 503                                                      | 7.10                           | 7.70                                  | 27.0                                 | 26.0                               | 7.2                                 | 92                                                             |
| AUG 16... | 0815 | --                                              | 310                                               | 300                                                      | 6.90                           | 7.40                                  | 25.0                                 | 25.5                               | 6.9                                 | 85                                                             |
| SEP 20... | 0745 | 12                                              | 350                                               | 351                                                      | 7.40                           | 7.50                                  | 25.0                                 | 24.0                               | 7.1                                 | 87                                                             |

| DATE      | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 20... | 50                                           | 5.0                          | 1.7                                                            | --                                               | 189                                                             | <1                                                               | 4.40                                                 | 0.120                                                | 5.70                                        | 11                                            |
| NOV 17... | 180                                          | 61                           | 7.0                                                            | 70000                                            | 70                                                              | 61                                                               | 1.01                                                 | 0.130                                                | 0.970                                       | 12                                            |
| DEC 14... | 45                                           | 4.0                          | 1.7                                                            | 170                                              | 176                                                             | 8                                                                | 4.00                                                 | 0.160                                                | 3.80                                        | 7.7                                           |
| JAN 18... | 120                                          | 26                           | 1.0                                                            | 500                                              | 82                                                              | 7                                                                | 5.60                                                 | 0.090                                                | 2.06                                        | 4.6                                           |
| FEB 16... | 50                                           | 11                           | 1.3                                                            | 1400                                             | 58                                                              | 19                                                               | 3.00                                                 | 0.070                                                | 1.36                                        | 8.4                                           |
| MAR 15... | 50                                           | 8.0                          | 0.9                                                            | 230                                              | 46                                                              | 1                                                                | 2.85                                                 | 0.130                                                | 0.930                                       | 11                                            |
| APR 18... | 190                                          | 15                           | 1.5                                                            | 1300                                             | 4                                                               | 6                                                                | 0.110                                                | <0.020                                               | 0.150                                       | 20                                            |
| MAY 17... | 45                                           | 7.0                          | 0.4                                                            | 490                                              | 103                                                             | 2                                                                | 2.17                                                 | 0.180                                                | 2.45                                        | 8.8                                           |
| JUN 21... | 25                                           | 7.0                          | 0.8                                                            | 170                                              | 141                                                             | 3                                                                | 3.15                                                 | 0.100                                                | 3.92                                        | --                                            |
| JUL 19... | 20                                           | 10                           | 0.8                                                            | 330                                              | 113                                                             | 5                                                                | 1.25                                                 | 0.110                                                | 3.04                                        | 5.9                                           |
| AUG 16... | 120                                          | 90                           | 0.2                                                            | 4600                                             | 71                                                              | 38                                                               | 1.06                                                 | 0.230                                                | 2.07                                        | 6.4                                           |
| SEP 20... | 50                                           | 18                           | 0.5                                                            | --                                               | 75                                                              | 1                                                                | 2.30                                                 | 0.040                                                | 1.50                                        | 6.8                                           |

## SUWANNEE RIVER BASIN

193

02317749 WITHLACOOCHEE RIVER ABOVE VALDOSTA, GA.

LOCATION.--Lat 30°55'57", long 83°17'22", Lowndes County, Hydrologic Unit 03110203, at county highway bridge, 1.5 mi upstream from Bay Branch, and 7 mi north of Valdosta.

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

REMARKS.--Laboratory analyses with the analyzing agency code 81213 are provided by the U.S. Geological Survey. Laboratory analyses with the agency analyzing code 81314 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.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1440 | 81341                                                  | 6.4                                             | 190                                               | 183                                                      | 6.60                           | 7.10                                  | 16.0                                 | 20.0                               | 8.9                                 | 90                                                             |
| NOV   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1530 | 81341                                                  | 24                                              | 137                                               | 130                                                      | 6.80                           | 6.90                                  | 14.5                                 | 13.5                               | 5.7                                 | 56                                                             |
| DEC   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1600 | 81341                                                  | 19                                              | 410                                               | 422                                                      | 7.40                           | 7.20                                  | 12.0                                 | 23.0                               | 8.1                                 | 76                                                             |
| JAN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1440 | 81341                                                  | 162                                             | 185                                               | 182                                                      | 7.00                           | 7.20                                  | 15.0                                 | 19.0                               | 10.0                                | 101                                                            |
| FEB   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1525 | 81341                                                  | 147                                             | 154                                               | 144                                                      | 6.90                           | 6.80                                  | 9.5                                  | 17.0                               | 10.6                                | 93                                                             |
| MAR   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1600 | 81341                                                  | 988                                             | 65                                                | 60                                                       | 6.00                           | 5.80                                  | 13.0                                 | 19.5                               | 8.7                                 | 83                                                             |
| APR   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1455 | 81341                                                  | 1400                                            | 43                                                | 51                                                       | 6.00                           | 5.60                                  | 19.0                                 | 27.0                               | 6.3                                 | 69                                                             |
| MAY   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1350 | 81341                                                  | 96                                              | 110                                               | 109                                                      | 6.50                           | 6.60                                  | 23.5                                 | 32.0                               | 6.8                                 | 81                                                             |
| JUN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1435 | 81341                                                  | 7.0                                             | 81                                                | 76                                                       | 6.60                           | 6.70                                  | 32.5                                 | 27.0                               | 5.8                                 | 81                                                             |
| JUL   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1355 | 81341                                                  | 6.5                                             | 100                                               | 95                                                       | 6.50                           | 6.80                                  | 29.0                                 | 34.5                               | 6.6                                 | 87                                                             |
| AUG   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1350 | 81341                                                  | 34                                              | 72                                                | 68                                                       | 6.30                           | 6.20                                  | 26.0                                 | 33.0                               | 6.0                                 | 75                                                             |
| SEP   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1435 | 81341                                                  | 121                                             | 123                                               | 126                                                      | 6.50                           | 7.20                                  | 25.5                                 | 32.5                               | 6.1                                 | 76                                                             |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | COLOR<br>(PLAT-<br>INUM-<br>COBAL<br>T<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|--------------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 22... | 81341                                                  | 50                                               | <1.0                         | 2.0                                                            | 170                                              | 32                                                              | 0.040                                                | 0.070                                                | 0.240                                       | 10                                            |
| NOV   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 19... | 81341                                                  | 65                                               | 5.0                          | 2.0                                                            | 110                                              | 26                                                              | 0.030                                                | 0.030                                                | 0.550                                       | 11                                            |
| DEC   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 21... | 81341                                                  | 75                                               | 5.0                          | 1.6                                                            | 230                                              | 53                                                              | 0.200                                                | <0.020                                               | 0.610                                       | 10                                            |
| JAN   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 20... | 81341                                                  | 100                                              | 10                           | 1.0                                                            | 230                                              | 25                                                              | 0.560                                                | <0.020                                               | 0.370                                       | 9.0                                           |
| FEB   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 17... | 81341                                                  | 100                                              | 4.0                          | 1.6                                                            | 330                                              | 15                                                              | 0.410                                                | 0.050                                                | 0.180                                       | 15                                            |
| MAR   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 17... | 81341                                                  | 180                                              | 7.0                          | 0.9                                                            | 130                                              | 6                                                               | 0.100                                                | 0.060                                                | 0.110                                       | 18                                            |
| APR   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 21... | 81341                                                  | 190                                              | 15                           | 1.5                                                            | 1300                                             | 4                                                               | 0.110                                                | <0.020                                               | 0.150                                       | 20                                            |
| MAY   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 19... | 81341                                                  | 200                                              | --                           | 1.2                                                            | 330                                              | 16                                                              | 0.190                                                | 0.090                                                | 0.210                                       | 19                                            |
| JUN   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 23... | 81341                                                  | 80                                               | 6.0                          | 1.2                                                            | <20                                              | 13                                                              | 0.120                                                | 0.120                                                | 0.200                                       | 13                                            |
| JUL   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 21... | 81341                                                  | 45                                               | 5.0                          | 1.0                                                            | 70                                               | 17                                                              | 0.060                                                | 0.040                                                | 0.170                                       | 6.5                                           |
| AUG   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 18... | 81341                                                  | 140                                              | 10                           | 0.7                                                            | 230                                              | 6                                                               | 0.140                                                | 0.190                                                | 0.190                                       | 18                                            |
| SEP   |                                                        |                                                  |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 22... | 81341                                                  | --                                               | 5.0                          | --                                                             | --                                               | 19                                                              | 0.330                                                | 0.090                                                | 0.310                                       | 29                                            |



## SUWANNEE RIVER BASIN

02317749 WITHLACOOCHEE RIVER ABOVE VALDOSTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |
|--------------|------|--------------------------------------------------------|---------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| JUN<br>28... | 0800 | 81213                                                  | 82                                                | 6.53                           | 26.5                                 | 4.8                                 | 13                                                              | --                                                              | 13                                                        |
| AUG<br>08... | 1730 | --                                                     | 110                                               | 6.57                           | 28.0                                 | 4.5                                 | 13                                                              | 13                                                              | --                                                        |

| DATE         | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO |
|--------------|--------------------------------------------------------|----------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|
| JUN<br>28... | 81213                                                  | 50                                           | 17                                              | 4                                                                 | 3.5                                          | 2.0                                                  | 8.4                                          | 50                | 0.9                                     |
| AUG<br>08... | --                                                     | 90                                           | 21                                              | 8                                                                 | 4.7                                          | 2.2                                                  | 10                                           | 48                | 1                                       |

| DATE         | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02) |
|--------------|--------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------------|
| JUN<br>28... | 81213                                                  | 1.3                                                 | 68                                                                 | 6.1                                           | 11                                                  | 0.20                                               | 0.038                                        | 5.0                                               |
| AUG<br>08... | --                                                     | 2.3                                                 | 77                                                                 | 14                                            | 12                                                  | 0.10                                               | 0.027                                        | 7.0                                               |

| DATE         | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) |
|--------------|--------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|
| JUN<br>28... | 81213                                                  | 0.060                                                         | <0.010                                                        | 0.060                                                         | 0.140                                                          | 10                                            | 10                                                     |
| AUG<br>08... | --                                                     | --                                                            | <0.010                                                        | 0.160                                                         | 0.190                                                          | 12                                            | 12                                                     |

02317749 WITHLACOOCHIEE RIVER ABOVE VALDOSTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|--------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| JUN<br>28... | 81213                                                  | 150                                                 | 16                                           | 0                                            | 1200                                                  | 800                                        | 1                                          |
| AUG<br>08... | --                                                     | 180                                                 | 19                                           | 0                                            | 700                                                   | 340                                        | 1                                          |

| DATE         | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|--------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|----------------------------------------------|------------------------------------------------------|--------------------------------------------|
| JUN<br>28... | 81213                                                  | 0                                            | 83                                                              | 67                                                   | 0.0                                          | 18                                                   | 8                                          |
| AUG<br>08... | --                                                     | 1                                            | 65                                                              | 62                                                   | 0.2                                          | 27                                                   | 18                                         |

| DATE         | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | TRITIUM<br>TOTAL<br>(TU) | TRITIUM<br>TOTAL<br>COUNT<br>ERROR<br>(TU) | H-2 /<br>H-1<br>STABLE<br>ISOTOPE<br>RATIO<br>PER<br>MIL | O-18 /<br>O-16<br>STABLE<br>ISOTOPE<br>RATIO<br>PER<br>MIL | CARBON<br>14<br>PERCENT<br>MODERN |
|--------------|------|--------------------------------------------------------|--------------------------|--------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|-----------------------------------|
| AUG<br>08... | 1730 | --                                                     | 10                       | 0.7                                        | -10.5                                                    | -2.60                                                      | 125                               |

## SUWANNEE RIVER BASIN

02317757 WITHLACOOCHEE RIVER NEAR VALDOSTA, GA.

LOCATION.--Lat 30°51'00", long 83°20'23", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 94, 0.8 mi 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1350 | 1.2                                             | 117                                               | 110                                                      | 6.30                           | 6.70                                  | 16.0                                 | 20.0                               | 7.8                                 | 79                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1500 | 9.4                                             | 95                                                | 91                                                       | 6.80                           | 6.70                                  | 14.5                                 | 14.0                               | 6.2                                 | 61                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1530 | 4.2                                             | 102                                               | 94                                                       | 6.90                           | 6.80                                  | 15.0                                 | 24.0                               | 5.9                                 | 59                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1400 | 250                                             | 100                                               | 97                                                       | 7.00                           | 6.90                                  | 15.0                                 | 18.0                               | 8.8                                 | 89                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1435 | 132                                             | 149                                               | 146                                                      | 6.80                           | 6.80                                  | 9.5                                  | 17.5                               | 10.6                                | 93                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1530 | 2020                                            | 63                                                | 60                                                       | 6.10                           | 5.90                                  | 13.0                                 | 19.5                               | 8.5                                 | 81                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1325 | 1900                                            | 38                                                | 37                                                       | 6.10                           | 5.50                                  | 19.0                                 | 27.0                               | 6.4                                 | 69                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1300 | 79                                              | 112                                               | 113                                                      | 6.60                           | 6.80                                  | 23.5                                 | 32.0                               | 6.4                                 | 77                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1300 | 4.5                                             | 146                                               | 139                                                      | 6.70                           | 7.20                                  | 27.0                                 | 35.0                               | 5.7                                 | 73                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1255 | 2.5                                             | 97                                                | 95                                                       | 6.60                           | 6.70                                  | 26.5                                 | 33.0                               | 5.3                                 | 66                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1250 | 16                                              | 106                                               | 102                                                      | 6.60                           | 7.00                                  | 26.5                                 | 32.5                               | 6.5                                 | 82                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1345 | 103                                             | 113                                               | 113                                                      | 6.50                           | 6.50                                  | 26.5                                 | 32.0                               | 6.0                                 | 76                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 22... | 40                                           | 1.0                          | 0.9                                                            | 330                                              | 23                                                            | 0.920                                                | 0.370                                                | 0.150                                       | 5.4                                           |
| NOV   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 19... | 65                                           | 10                           | 2.0                                                            | 3300                                             | 20                                                            | 0.080                                                | 0.080                                                | 0.160                                       | 9.9                                           |
| DEC   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 21... | 30                                           | 8.0                          | 1.9                                                            | 220                                              | 23                                                            | 0.660                                                | 0.270                                                | 0.130                                       | 3.7                                           |
| JAN   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 20... | 140                                          | 68                           | 0.5                                                            | 4900                                             | 21                                                            | 0.320                                                | 0.080                                                | 0.760                                       | 12                                            |
| FEB   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 17... | 100                                          | 5.0                          | 2.2                                                            | 230                                              | 14                                                            | 0.370                                                | 0.100                                                | 0.170                                       | 16                                            |
| MAR   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 17... | 170                                          | 7.0                          | 0.7                                                            | 790                                              | 7                                                             | 0.080                                                | 0.110                                                | 0.100                                       | 28                                            |
| APR   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 21... | 220                                          | 26                           | 1.6                                                            | 410                                              | 3                                                             | 0.080                                                | <0.020                                               | 0.160                                       | 15                                            |
| MAY   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 19... | 160                                          | --                           | 1.6                                                            | 490                                              | 12                                                            | 0.340                                                | 0.580                                                | 0.220                                       | 19                                            |
| JUN   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 23... | 35                                           | 5.0                          | 1.4                                                            | <20                                              | 27                                                            | 0.640                                                | 0.380                                                | 0.220                                       | 4.5                                           |
| JUL   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 21... | 30                                           | 9.0                          | 1.6                                                            | 330                                              | 24                                                            | 0.300                                                | 0.270                                                | 0.140                                       | 6.9                                           |
| AUG   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 18... | 120                                          | 10                           | 1.5                                                            | 490                                              | 23                                                            | 0.320                                                | 0.410                                                | 0.300                                       | 9.5                                           |
| SEP   |                                              |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 22... | 120                                          | 8.0                          | --                                                             | --                                               | 16                                                            | 0.330                                                | 0.060                                                | 0.320                                       | 32                                            |

## 02318500 WITHLACOOCHEE RIVER NEAR QUITMAN, GA.

LOCATION.--Lat 30°47'35", long 83°27'13", Brooks-Lowndes County line, Hydrologic Unit 03110203, at bridge on U.S. Highway 84, 4 mi upstream from Piscola Creek, 6 mi east of Quitman, and 9 mi downstream from Little River.

DRAINAGE AREA.--1,480 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1140 | 19                                              | 262                                               | 250                                                      | 6.70                           | 7.00                                  | 16.5                                 | 17.5                               | 8.5                                 | 87                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1355 | 74                                              | 204                                               | 193                                                      | 6.90                           | 7.10                                  | 16.0                                 | 13.0                               | 7.2                                 | 73                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1410 | 22                                              | 116                                               | 112                                                      | 7.10                           | 7.00                                  | 14.0                                 | 23.5                               | 8.0                                 | 78                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1140 | 608                                             | 97                                                | 91                                                       | 6.90                           | 6.80                                  | 14.5                                 | 20.0                               | 9.5                                 | 94                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1225 | 638                                             | 95                                                | 91                                                       | 6.70                           | 6.50                                  | 10.0                                 | 15.0                               | 10.8                                | 96                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1410 | 5460                                            | 51                                                | 48                                                       | 6.10                           | 6.00                                  | 13.5                                 | 20.5                               | 8.4                                 | 81                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1210 | 3180                                            | 40                                                | 39                                                       | 6.20                           | 5.80                                  | 19.0                                 | 26.0                               | 6.8                                 | 74                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1155 | 390                                             | 80                                                | 79                                                       | 6.50                           | 6.80                                  | 24.0                                 | 32.0                               | 6.9                                 | 83                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1150 | 32                                              | 112                                               | 107                                                      | 6.60                           | 7.00                                  | 28.0                                 | 34.0                               | 6.5                                 | 84                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1150 | 19                                              | 220                                               | 215                                                      | 6.60                           | 7.20                                  | 28.0                                 | 33.5                               | 6.0                                 | 77                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1145 | 21                                              | 110                                               | 105                                                      | 6.60                           | 7.20                                  | 27.5                                 | 31.5                               | 6.7                                 | 86                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1230 | 390                                             | 95                                                | 105                                                      | 6.50                           | 6.40                                  | 27.0                                 | 31.5                               | 6.5                                 | 83                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 22... | 40                                           | <1.0                         | 0.9                                                            | 20                                               | 29                                                              | 4.40                                                 | 0.050                                                | 1.92                                        | 8.7                                           |
| NOV   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 19... | 45                                           | 4.0                          | 0.8                                                            | 130                                              | 27                                                              | 0.700                                                | 0.040                                                | 1.80                                        | 8.7                                           |
| DEC   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 21... | 55                                           | 9.0                          | 1.9                                                            | 1300                                             | 22                                                              | 0.790                                                | 0.020                                                | 0.770                                       | 4.8                                           |
| JAN   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 20... | 120                                          | 15                           | 0.8                                                            | 1700                                             | 14                                                              | 0.450                                                | 0.040                                                | 0.310                                       | 9.0                                           |
| FEB   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 17... | 80                                           | 6.0                          | 1.7                                                            | 170                                              | 9                                                               | 0.270                                                | 0.060                                                | 0.130                                       | 12                                            |
| MAR   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 17... | 180                                          | 17                           | 0.8                                                            | 490                                              | 6                                                               | 0.110                                                | 0.090                                                | 0.100                                       | 18                                            |
| APR   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 21... | 200                                          | 34                           | 1.2                                                            | 790                                              | 5                                                               | 0.110                                                | <0.020                                               | 0.180                                       | 15                                            |
| MAY   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 19... | 140                                          | --                           | 1.1                                                            | 170                                              | 13                                                              | 0.400                                                | 0.060                                                | 0.190                                       | 16                                            |
| JUN   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 23... | 50                                           | 5.0                          | 1.1                                                            | <20                                              | 15                                                              | 0.900                                                | 0.090                                                | 0.550                                       | 7.8                                           |
| JUL   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 21... | --                                           | 5.0                          | 0.7                                                            | 20                                               | 26                                                              | 2.52                                                 | 0.190                                                | 1.47                                        | 5.9                                           |
| AUG   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 18... | 100                                          | 13                           | 0.7                                                            | 70                                               | 17                                                              | 1.34                                                 | 0.160                                                | 0.680                                       | 8.5                                           |
| SEP   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 22... | 120                                          | 12                           | --                                                             | --                                               | 15                                                              | 0.530                                                | 0.420                                                | 0.400                                       | 18                                            |

## SUWANNEE RIVER BASIN

02318700 OKAPILCO CREEK AT STATE HIGHWAY 33, NEAR QUITMAN, GA.

LOCATION.--Lat 30°49'32", long 83°33'45", Brooks County, Hydrologic Unit 03110203, at bridge on State Highway 33, 3.0 mi north of Quitman.

DRAINAGE AREA.--269 mi<sup>2</sup>, 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: Jan. 3-22, Jan. 29 to Feb. 19. Records fair, except those of no gage height record, Jan. 3-22, Jan. 29 to Feb. 19, which are poor.

AVERAGE DISCHARGE.--8 years (water years 1981-88), 241 ft<sup>3</sup>/s, 12.17 in/yr.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Feb. 22 | 1000 | *5,480                            | *14.20              | Mar. 6 | 1800 | 4,360                             | 13.58               |

Minimum discharge, no flow on many days.

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           | .54   | .00       | .10      | .56      | 95      | 426       | 230      | 122    | 4.2   | .03  | .01   | 1.6    |
| 2           | .30   | .00       | .06      | 1.1      | 85      | 349       | 190      | 138    | 4.7   | .03  | .01   | 11     |
| 3           | .16   | .00       | .06      | 1.4      | 80      | 324       | 154      | 134    | 3.4   | .03  | .00   | 84     |
| 4           | .06   | .00       | .04      | 1.5      | 80      | 979       | 127      | 108    | 2.0   | .05  | .00   | 31     |
| 5           | .02   | .00       | .02      | 1.5      | 75      | 1510      | 112      | 82     | 1.4   | .03  | .00   | 143    |
| 6           | .01   | .00       | .01      | 1.6      | 75      | 3780      | 103      | 59     | 1.1   | .02  | .00   | 109    |
| 7           | .00   | .00       | .01      | 1.6      | 70      | 3700      | 92       | 42     | .87   | .01  | .00   | 30     |
| 8           | .00   | .00       | .00      | 1.7      | 70      | 2620      | 80       | 31     | .69   | .01  | .00   | 37     |
| 9           | .00   | .00       | .00      | 1.7      | 70      | 2050      | 68       | 24     | .52   | .01  | .00   | 369    |
| 10          | .00   | .00       | .00      | 1.8      | 70      | 1570      | 59       | 21     | .47   | .01  | .00   | 197    |
| 11          | .00   | .00       | .00      | 1.8      | 65      | 1160      | 51       | 31     | .41   | .01  | .00   | 114    |
| 12          | .00   | .00       | .00      | 1.9      | 65      | 980       | 46       | 38     | .31   | .01  | .00   | 73     |
| 13          | .00   | .00       | .00      | 1.9      | 60      | 859       | 53       | 91     | .23   | .01  | .00   | 63     |
| 14          | .00   | .00       | .00      | 2.0      | 60      | 748       | 55       | 157    | .15   | .00  | .00   | 67     |
| 15          | .00   | .00       | .12      | 2.0      | 60      | 659       | 48       | 173    | .10   | .00  | .00   | 63     |
| 16          | .00   | .00       | 1.3      | 2.0      | 60      | 646       | 42       | 172    | .07   | .00  | .22   | 55     |
| 17          | .00   | .00       | .85      | 2.1      | 55      | 583       | 38       | 131    | .05   | .00  | 18    | 45     |
| 18          | .00   | .00       | .27      | 6.4      | 160     | 437       | 36       | 104    | .04   | .00  | 10    | 37     |
| 19          | .00   | .01       | .15      | 15       | 1000    | 346       | 108      | 76     | .03   | .00  | 3.2   | 30     |
| 20          | .00   | .04       | .13      | 22       | 1170    | 288       | 449      | 49     | .02   | .00  | 1.3   | 24     |
| 21          | .00   | .02       | .11      | 40       | 3430    | 257       | 753      | 32     | .01   | .00  | .73   | 20     |
| 22          | .00   | .01       | .33      | 65       | 5180    | 250       | 665      | 23     | .01   | .00  | .51   | 17     |
| 23          | .00   | .00       | 1.0      | 100      | 3980    | 240       | 514      | 17     | .01   | .01  | .37   | 14     |
| 24          | .00   | .00       | .76      | 206      | 2800    | 227       | 361      | 13     | .07   | .01  | .63   | 11     |
| 25          | .00   | .00       | .53      | 353      | 1930    | 209       | 261      | 11     | .08   | .01  | 5.2   | 9.7    |
| 26          | .00   | .04       | .44      | 392      | 1380    | 212       | 232      | 8.8    | .11   | .00  | 3.2   | 8.6    |
| 27          | .00   | .28       | .76      | 319      | 1010    | 260       | 287      | 7.3    | .07   | .00  | 1.2   | 7.5    |
| 28          | .00   | .43       | .84      | 227      | 746     | 247       | 307      | 5.6    | .09   | .00  | 1.0   | 6.3    |
| 29          | .00   | .28       | .54      | 190      | 554     | 246       | 219      | 4.2    | .05   | .01  | .80   | 4.5    |
| 30          | .00   | .17       | .39      | 140      | ---     | 261       | 140      | 3.9    | .03   | .01  | .54   | 3.1    |
| 31          | .00   | ---       | .42      | 120      | ---     | 254       | ---      | 4.6    | ---   | .01  | .51   | ---    |
| TOTAL       | 1.09  | 1.28      | 9.24     | 2223.56  | 24535   | 26677     | 5880     | 1913.4 | 21.29 | .32  | 47.43 | 1685.3 |
| MEAN        | .035  | .043      | .30      | 71.7     | 846     | 861       | 196      | 61.7   | .71   | .010 | 1.53  | 56.2   |
| MAX         | .54   | .43       | 1.3      | 392      | 5180    | 3780      | 753      | 173    | 4.7   | .05  | 18    | 369    |
| MIN         | .00   | .00       | .00      | .56      | 55      | 209       | 36       | 3.9    | .01   | .00  | .00   | 1.6    |
| CFSM        | .000  | .000      | .001     | .27      | 3.15    | 3.20      | .73      | .23    | .003  | .000 | .006  | .21    |
| IN.         | .00   | .00       | .00      | .31      | 3.39    | 3.69      | .81      | .26    | .00   | .00  | .01   | .23    |
| CAL YR 1987 | TOTAL | 107569.01 | MEAN 295 | MAX 2460 | MIN .00 | CFSM 1.10 | IN 14.88 |        |       |      |       |        |
| WTR YR 1988 | TOTAL | 62994.91  | MEAN 172 | MAX 5180 | MIN .00 | CFSM .64  | IN 8.71  |        |       |      |       |        |

## SUWANNEE RIVER BASIN

199

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 mi<sup>2</sup>, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1210 | 0.80                                            | 372                                               | 354                                                      | 7.10                           | 7.70                                  | 16.0                                 | 18.0                               | 3.5                                 | 35                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1425 | 9.0                                             | 375                                               | 357                                                      | 7.10                           | 7.20                                  | 15.0                                 | 13.5                               | 1.2                                 | 12                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1450 | 7.5                                             | 302                                               | 289                                                      | 7.80                           | 7.50                                  | 14.0                                 | 23.5                               | 2.4                                 | 24                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1245 | 80                                              | 122                                               | 114                                                      | 6.70                           | 6.50                                  | 15.0                                 | 19.5                               | 8.8                                 | 89                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1325 | 128                                             | 105                                               | 104                                                      | 6.70                           | 6.50                                  | 10.0                                 | 16.5                               | 10.0                                | 89                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1450 | 600                                             | 56                                                | 52                                                       | 6.30                           | 6.40                                  | 13.0                                 | 20.0                               | 9.4                                 | 89                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1245 | 502                                             | 40                                                | 49                                                       | 6.40                           | 6.10                                  | 19.0                                 | 27.5                               | 6.3                                 | 69                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1230 | 107                                             | 72                                                | 73                                                       | 6.40                           | 6.30                                  | 32.0                                 | 23.0                               | 6.0                                 | 84                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1225 | 0.30                                            | 385                                               | 384                                                      | 7.40                           | 7.40                                  | 27.0                                 | 34.5                               | 1.4                                 | 18                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1220 | 1.3                                             | 400                                               | 396                                                      | 7.30                           | 7.60                                  | 29.0                                 | 33.5                               | 4.2                                 | 55                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1215 | 29                                              | 112                                               | 108                                                      | 6.60                           | 6.90                                  | 27.0                                 | 32.0                               | 4.2                                 | 53                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1305 | 31                                              | 108                                               | 99                                                       | 6.60                           | 6.60                                  | 26.5                                 | 32.0                               | 5.2                                 | 66                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 22... | 30                                           | 40                           | 6.7                                                            | 4900                                             | 116                                                             | 0.860                                                | 0.740                                                | 3.10                                        | 18                                            |
| NOV   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 19... | 55                                           | 10                           | 7.1                                                            | 11000                                            | 82                                                              | 0.820                                                | 1.37                                                 | 2.65                                        | 19                                            |
| DEC   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 21... | 40                                           | 14                           | >10                                                            | 40                                               | 75                                                              | 4.30                                                 | 0.970                                                | 2.71                                        | 55                                            |
| JAN   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 20... | 70                                           | 9.0                          | 1.4                                                            | 7900                                             | 11                                                              | 0.830                                                | 0.490                                                | 0.360                                       | 10                                            |
| FEB   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 17... | 80                                           | 5.0                          | 2.4                                                            | 330                                              | 9                                                               | 0.250                                                | 3.99                                                 | 4.26                                        | 15                                            |
| MAR   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 17... | 140                                          | 12                           | 1.8                                                            | 20                                               | 9                                                               | 0.130                                                | 0.080                                                | 0.130                                       | 18                                            |
| APR   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 21... | 220                                          | 35                           | 1.4                                                            | 790                                              | 6                                                               | 0.170                                                | 0.120                                                | 0.250                                       | 12                                            |
| MAY   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 19... | 140                                          | --                           | 1.8                                                            | 410                                              | 9                                                               | 0.270                                                | 0.130                                                | 0.240                                       | 16                                            |
| JUN   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 23... | 50                                           | 14                           | 7.0                                                            | 4600                                             | 135                                                             | 0.050                                                | 6.60                                                 | 3.65                                        | 25                                            |
| JUL   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 21... | 50                                           | 25                           | >8.2                                                           | 1700                                             | 140                                                             | 0.040                                                | 7.60                                                 | 4.01                                        | 26                                            |
| AUG   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 18... | 110                                          | 24                           | 3.2                                                            | 4100                                             | 23                                                              | 0.960                                                | 1.06                                                 | 0.670                                       | 14                                            |
| SEP   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 22... | 140                                          | 8.0                          | --                                                             | --                                               | 13                                                              | 0.590                                                | 0.140                                                | 0.260                                       | 22                                            |



## SUWANNEE RIVER BASIN

02318960 WITHLACOOCHEE RIVER NEAR CLYATTVILLE, GA.

LOCATION.--Lat 30°38'07", long 83°18'41", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 31, 4.3 mi south of Clyattville.

DRAINAGE AREA.--2,030 mi<sup>2</sup>, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1100 | 102                                             | 242                                               | 231                                                      | --                             | 7.90                                  | 18.0                                 | 16.5                               | 8.3                                 | 88                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1320 | 200                                             | 202                                               | 192                                                      | 7.30                           | 7.60                                  | 16.0                                 | 14.5                               | 6.8                                 | 69                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1330 | 110                                             | 236                                               | 225                                                      | 7.70                           | 7.80                                  | 16.0                                 | 26.5                               | 6.1                                 | 62                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1100 | 522                                             | 142                                               | 138                                                      | 7.30                           | 7.40                                  | 14.0                                 | 19.0                               | 9.7                                 | 95                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1145 | 998                                             | 104                                               | 97                                                       | 6.90                           | 6.90                                  | 10.0                                 | 14.5                               | 10.1                                | 90                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1325 | 7730                                            | 53                                                | 49                                                       | 6.20                           | 6.30                                  | 13.5                                 | 19.0                               | 8.1                                 | 78                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1115 | 3020                                            | 46                                                | 46                                                       | 6.30                           | 6.30                                  | 19.5                                 | 23.5                               | 6.9                                 | 76                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1100 | 770                                             | 102                                               | 104                                                      | --                             | 7.40                                  | 23.5                                 | 29.0                               | 6.0                                 | 72                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1110 | 160                                             | 210                                               | 205                                                      | --                             | 8.00                                  | 25.5                                 | 33.0                               | 5.4                                 | 67                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1105 | 126                                             | 218                                               | 213                                                      | --                             | 7.80                                  | 27.0                                 | 33.0                               | 5.1                                 | 64                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1100 | 222                                             | 157                                               | 154                                                      | --                             | 7.50                                  | 27.5                                 | 29.0                               | 4.9                                 | 63                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1125 | 754                                             | 110                                               | 112                                                      | 6.90                           | 7.00                                  | 26.0                                 | 31.0                               | 6.1                                 | 76                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 22... | 5                                            | 2.0                          | --                                                             | 0.9                                                            | 40                                               | 105                                                           | 11                                                                |
| NOV   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 19... | 50                                           | 3.0                          | --                                                             | 2.0                                                            | 700                                              | 61                                                            | 5                                                                 |
| DEC   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 21... | 15                                           | 2.0                          | --                                                             | 1.3                                                            | 20                                               | 86                                                            | 18                                                                |
| JAN   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 20... | 55                                           | 5.0                          | --                                                             | 0.8                                                            | 170                                              | 31                                                            | <1                                                                |
| FEB   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 17... | 80                                           | 7.0                          | --                                                             | 2.2                                                            | 80                                               | 14                                                            | <1                                                                |
| MAR   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 17... | 160                                          | 14                           | --                                                             | 0.9                                                            | 1300                                             | 7                                                             | 2                                                                 |
| APR   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 21... | 200                                          | 30                           | --                                                             | 1.5                                                            | 230                                              | 8                                                             | 31                                                                |
| MAY   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 19... | 120                                          | 9.0                          | --                                                             | 1.1                                                            | --                                               | 28                                                            | 9                                                                 |
| JUN   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 23... | 20                                           | 3.0                          | --                                                             | 1.1                                                            | <20                                              | 82                                                            | <1                                                                |
| JUL   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 21... | 40                                           | 4.0                          | 16                                                             | 1.5                                                            | 45                                               | 89                                                            | <1                                                                |
| AUG   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 18... | 80                                           | 7.0                          | 39                                                             | 0.4                                                            | <20                                              | 57                                                            | 5                                                                 |
| SEP   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 22... | 150                                          | 7.0                          | 10                                                             | --                                                             | --                                               | 30                                                            | 5                                                                 |

02318960 WITHLACOOCHEE RIVER NEAR CLYATTSVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT<br>22... | 0.060                                                | 0.020                                                | --                                                   | --                                                                 | --                                        | 0.130                                       | 3.7                                           |
| NOV<br>19... | 0.520                                                | 0.050                                                | --                                                   | --                                                                 | --                                        | 0.440                                       | 8.1                                           |
| DEC<br>21... | 0.640                                                | <0.020                                               | --                                                   | --                                                                 | --                                        | 0.400                                       | 2.5                                           |
| JAN<br>20... | 0.560                                                | 0.020                                                | --                                                   | --                                                                 | --                                        | 0.290                                       | 6.6                                           |
| FEB<br>17... | 0.280                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 1.15                                        | 12                                            |
| MAR<br>17... | 0.110                                                | 0.090                                                | --                                                   | --                                                                 | --                                        | 0.090                                       | 18                                            |
| APR<br>21... | 0.170                                                | <0.020                                               | --                                                   | --                                                                 | --                                        | 0.210                                       | 13                                            |
| MAY<br>19... | 0.320                                                | 0.150                                                | --                                                   | --                                                                 | --                                        | 0.170                                       | 13                                            |
| JUN<br>23... | 0.240                                                | 0.090                                                | --                                                   | --                                                                 | --                                        | 0.150                                       | 3.3                                           |
| JUL<br>21... | 0.270                                                | 0.060                                                | 0.14                                                 | 0.20                                                               | 0.47                                      | 0.180                                       | --                                            |
| AUG<br>18... | 0.480                                                | 0.270                                                | 0.23                                                 | 0.50                                                               | 0.98                                      | 0.480                                       | 4.9                                           |
| SEP<br>22... | 0.410                                                | 0.070                                                | 0.73                                                 | 0.80                                                               | 1.2                                       | 0.200                                       | 19                                            |

## OCHLOCKONEE RIVER BASIN

02327205 OCHLOCKONEE RIVER NEAR MOULTRIE, GA.

LOCATION.--Lat 31°08'31", long 83°48'13", Colquitt County, Hydrologic Unit 03120002, at bridge on county road 1 mi from U.S. Highway 319, and 3.0 mi south of Moultrie.

DRAINAGE AREA.--103 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 21... | 0800 | 2.6                                             | --                                                | 1050                                                     | 7.10                           | 7.40                                  | 16.5                                 | 15.0                               | 6.1                                 | 63                                                             |
| NOV 18... | 0910 | 15                                              | 345                                               | 331                                                      | 6.70                           | 6.80                                  | 17.0                                 | 17.5                               | 2.2                                 | 23                                                             |
| DEC 15... | 0900 | 3.5                                             | 1010                                              | 974                                                      | 7.30                           | 7.50                                  | 15.5                                 | 20.5                               | 5.3                                 | 54                                                             |
| JAN 19... | 0900 | 130                                             | 155                                               | 148                                                      | 6.60                           | 6.60                                  | 13.5                                 | 16.0                               | 6.8                                 | 66                                                             |
| FEB 18... | 0900 | 98                                              | 133                                               | 126                                                      | 6.60                           | 6.80                                  | 8.5                                  | 10.0                               | 8.8                                 | 76                                                             |
| MAR 16... | 0920 | 220                                             | 80                                                | 72                                                       | 6.30                           | 6.50                                  | 10.0                                 | 5.5                                | 8.8                                 | 78                                                             |
| APR 19... | 0830 | 45                                              | 194                                               | 194                                                      | 6.50                           | 6.60                                  | 17.5                                 | 20.0                               | 4.4                                 | 47                                                             |
| MAY 18... | 0800 | 32                                              | 236                                               | --                                                       | 6.50                           | 6.90                                  | 22.0                                 | 22.0                               | 4.2                                 | 49                                                             |
| JUN 22... | 0750 | 2.9                                             | 900                                               | 872                                                      | 6.90                           | 7.10                                  | 25.0                                 | 30.0                               | 3.5                                 | 43                                                             |
| JUL 20... | 0730 | 3.2                                             | 900                                               | 861                                                      | 7.00                           | 7.40                                  | 26.0                                 | 27.0                               | 3.7                                 | 46                                                             |
| AUG 17... | 0730 | 4.8                                             | 645                                               | 620                                                      | --                             | 7.20                                  | 25.5                                 | 27.0                               | 3.4                                 | 42                                                             |
| SEP 21... | 0825 | 12                                              | 525                                               | 524                                                      | 7.10                           | 7.20                                  | 25.0                                 | 28.0                               | 3.6                                 | 44                                                             |

| DATE      | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 21... | 25                                           | 1.0                          | 2.5                                                            | 710                                              | 92                                                              | <1                                                               | 11.4                                                 | 0.060                                                | 4.70                                        | 8.0                                           |
| NOV 18... | 80                                           | 15                           | 3.5                                                            | 28000                                            | 34                                                              | 10                                                               | 2.35                                                 | 0.120                                                | 1.17                                        | 11                                            |
| DEC 15... | 20                                           | 1.0                          | 4.0                                                            | --                                               | 95                                                              | 10                                                               | 7.95                                                 | 0.100                                                | 4.17                                        | 7.9                                           |
| JAN 19... | 110                                          | 22                           | 2.1                                                            | 4900                                             | 14                                                              | 16                                                               | 1.60                                                 | 0.290                                                | 0.380                                       | 9.0                                           |
| FEB 18... | 50                                           | 5.0                          | <10                                                            | 50                                               | 17                                                              | 4                                                                | 1.13                                                 | 0.070                                                | 0.300                                       | 13                                            |
| MAR 16... | 120                                          | 15                           | 1.6                                                            | 230                                              | 8                                                               | <1                                                               | 0.790                                                | 0.150                                                | 0.280                                       | 13                                            |
| APR 19... | 110                                          | 14                           | 2.0                                                            | 4900                                             | 21                                                              | 10                                                               | 1.61                                                 | 0.260                                                | 0.660                                       | 10                                            |
| MAY 18... | 130                                          | 9.0                          | 1.0                                                            | 220                                              | 25                                                              | 3                                                                | 2.05                                                 | 0.110                                                | 0.880                                       | 12                                            |
| JUN 22... | --                                           | 4.0                          | <10                                                            | 4900                                             | 83                                                              | 2                                                                | 8.60                                                 | 0.140                                                | 3.78                                        | 5.8                                           |
| JUL 20... | 20                                           | 4.0                          | 0.5                                                            | 790                                              | 94                                                              | 5                                                                | 6.80                                                 | 0.070                                                | 3.47                                        | 2.3                                           |
| AUG 17... | 30                                           | 1.0                          | 0.5                                                            | 1300                                             | 68                                                              | 3                                                                | 6.42                                                 | 0.090                                                | 1.47                                        | 8.0                                           |
| SEP 21... | 30                                           | 2.0                          | <0.1                                                           | 330                                              | 57                                                              | <1                                                               | 3.20                                                 | <0.030                                               | 1.98                                        | 9.0                                           |

02327500 OCHLOCKNEE 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 Ochlocknee River.

DRAINAGE AREA.--550 mi<sup>2</sup>, 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 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 21... | 0900 | 15                                              | 442                                               | 428                                                      | 7.00                           | 7.40                                  | 17.0                                 | 16.0                               | 7.6                                 | 79                                                             |
| NOV 18... | 1030 | 200                                             | 140                                               | 134                                                      | 7.00                           | 7.00                                  | 17.0                                 | 17.5                               | 6.0                                 | 62                                                             |
| DEC 15... | 1040 | 46                                              | 260                                               | 263                                                      | 7.10                           | 7.30                                  | 16.5                                 | 19.0                               | 7.4                                 | 77                                                             |
| JAN 19... | 1010 | 300                                             | 133                                               | 128                                                      | 7.00                           | 7.00                                  | 13.0                                 | 17.0                               | 9.6                                 | 92                                                             |
| FEB 18... | 1010 | 373                                             | 100                                               | 92                                                       | 6.70                           | 6.80                                  | 8.5                                  | 8.5                                | 10.6                                | 91                                                             |
| MAR 16... | 1015 | 1810                                            | 57                                                | 51                                                       | 6.40                           | 6.30                                  | 13.5                                 | 7.5                                | 8.0                                 | 77                                                             |
| APR 19... | 0930 | 173                                             | 118                                               | 116                                                      | 6.60                           | 6.60                                  | 17.5                                 | 23.5                               | 6.7                                 | 72                                                             |
| MAY 18... | 0920 | 250                                             | 112                                               | 112                                                      | 6.40                           | 6.80                                  | 22.0                                 | 25.0                               | 6.1                                 | 71                                                             |
| JUN 22... | 0855 | 16                                              | 335                                               | 328                                                      | 6.90                           | 6.90                                  | 25.5                                 | 30.5                               | 5.2                                 | 64                                                             |
| JUL 20... | 0840 | 15                                              | 350                                               | 341                                                      | 6.80                           | 7.40                                  | 27.0                                 | 28.0                               | 5.2                                 | 66                                                             |
| AUG 17... | 0840 | 49                                              | 325                                               | 313                                                      | --                             | 7.40                                  | 26.5                                 | 27.5                               | 5.6                                 | 71                                                             |
| SEP 21... | 0925 | 35                                              | 249                                               | 251                                                      | 7.10                           | 7.10                                  | 25.5                                 | 30.0                               | 5.8                                 | 72                                                             |

| DATE      | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 21... | 30                                           | 4.0                          | 1.2                                                            | 1300                                             | 55                                                              | 6.60                                                 | 0.070                                                | 2.20                                        | 9.8                                           |
| NOV 18... | 200                                          | 55                           | 4.6                                                            | 79000                                            | 31                                                              | 0.770                                                | 0.030                                                | 0.670                                       | 14                                            |
| DEC 15... | 55                                           | 41                           | 2.6                                                            | --                                               | 37                                                              | 2.10                                                 | 0.140                                                | 1.48                                        | 2.3                                           |
| JAN 19... | 120                                          | 29                           | 1.4                                                            | 4900                                             | 19                                                              | 1.11                                                 | 0.070                                                | 0.540                                       | 10                                            |
| FEB 18... | 65                                           | 7.0                          | 1.6                                                            | 70                                               | 12                                                              | 0.950                                                | 0.110                                                | 0.220                                       | 9.1                                           |
| MAR 16... | 120                                          | 20                           | 1.2                                                            | 80                                               | 7                                                               | 0.300                                                | 0.060                                                | 0.170                                       | 15                                            |
| APR 19... | 120                                          | 10                           | 1.4                                                            | 490                                              | 20                                                              | 0.720                                                | 0.080                                                | 0.420                                       | 8.9                                           |
| MAY 18... | 180                                          | 15                           | 1.7                                                            | 230                                              | 15                                                              | 0.950                                                | 0.080                                                | 0.470                                       | 12                                            |
| JUN 22... | --                                           | 5.0                          | 0.8                                                            | 170                                              | 46                                                              | 3.15                                                 | 0.310                                                | 1.60                                        | 6.7                                           |
| JUL 20... | 40                                           | 7.0                          | 1.1                                                            | 75                                               | 50                                                              | 1.74                                                 | 0.090                                                | 1.14                                        | 6.7                                           |
| AUG 17... | 40                                           | 9.0                          | 1.4                                                            | 230                                              | 40                                                              | 2.64                                                 | 0.140                                                | 1.05                                        | 9.6                                           |
| SEP 21... | 70                                           | 11                           | 0.7                                                            | 50                                               | 32                                                              | 2.30                                                 | 0.050                                                | 1.18                                        | 10                                            |

## 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 Crgek, and 6.5 mi east of Calvary.

DRAINAGE AREA.--930 mi<sup>2</sup>, approximately.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 0945 | 32                                              | 295                                               | 287                                                      | --                             | 7.40                                  | 17.0                                 | 17.5                               | 8.4                                 | 87                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1110 | 481                                             | 725                                               | 684                                                      | 6.90                           | 6.90                                  | 16.0                                 | 21.0                               | 5.9                                 | 60                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1140 | 94                                              | 283                                               | 284                                                      | 7.20                           | 7.40                                  | 14.5                                 | 18.0                               | 7.9                                 | 79                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1100 | 446                                             | 285                                               | 273                                                      | 7.10                           | 7.00                                  | 12.0                                 | 20.0                               | 9.8                                 | 92                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1055 | 838                                             | 128                                               | 120                                                      | 6.80                           | 6.80                                  | 8.5                                  | 8.5                                | 10.5                                | 90                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 16... | 1055 | 3000                                            | 68                                                | 62                                                       | 6.30                           | 6.50                                  | 14.0                                 | 8.5                                | 7.6                                 | 74                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1040 | 436                                             | 148                                               | 146                                                      | 6.70                           | 6.70                                  | 18.0                                 | 25.5                               | 7.1                                 | 77                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1030 | 903                                             | 83                                                | 83                                                       | 6.40                           | 6.60                                  | 22.0                                 | 26.0                               | 6.4                                 | 75                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 0945 | 47                                              | 214                                               | 210                                                      | 6.90                           | 7.10                                  | 26.0                                 | 32.0                               | 5.8                                 | 72                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 0940 | 58                                              | 276                                               | 267                                                      | 6.80                           | 7.40                                  | 27.5                                 | 30.5                               | 6.1                                 | 78                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 0935 | 110                                             | 385                                               | 375                                                      | 6.80                           | 7.40                                  | 26.0                                 | 28.5                               | 6.6                                 | 82                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1010 | 126                                             | 220                                               | 218                                                      | 7.20                           | 7.20                                  | 26.0                                 | 31.0                               | 6.6                                 | 82                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 21... | 35                                           | 5.0                          | 17                                                             | 1.6                                                            | 20                                               | 45                                                              | <1                                                                |
| NOV   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 18... | 120                                          | 34                           | 33                                                             | 6.7                                                            | 310000                                           | 22                                                              | 59                                                                |
| DEC   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 15... | 65                                           | 9.0                          | 17                                                             | 1.6                                                            | --                                               | 31                                                              | 13                                                                |
| JAN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 19... | 110                                          | 12                           | 18                                                             | 1.1                                                            | 3100                                             | 17                                                              | 13                                                                |
| FEB   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 18... | 70                                           | 9.0                          | 10                                                             | 1.4                                                            | 490                                              | 12                                                              | 5                                                                 |
| MAR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 16... | 130                                          | 20                           | 21                                                             | 0.9                                                            | 70                                               | 8                                                               | <1                                                                |
| APR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 19... | 120                                          | 10                           | 28                                                             | 1.3                                                            | 170                                              | 18                                                              | 8                                                                 |
| MAY   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 18... | 200                                          | 19                           | 48                                                             | 1.5                                                            | 110                                              | 11                                                              | 4                                                                 |
| JUN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 22... | --                                           | 6.0                          | 8                                                              | 2.2                                                            | 70                                               | 43                                                              | 1                                                                 |
| JUL   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 20... | 60                                           | 10                           | --                                                             | 1.1                                                            | <20                                              | 42                                                              | 8                                                                 |
| AUG   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 17... | 60                                           | 10                           | --                                                             | 0.5                                                            | 140                                              | 33                                                              | 11                                                                |
| SEP   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 21... | 60                                           | 11                           | --                                                             | 0.8                                                            | 25                                               | 28                                                              | 3                                                                 |

02328200 OCHLOCKNEE RIVER NEAR CALVARY, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT<br>21... | 4.40                                                 | 0.050                                                | 0.85                                                 | 0.90                                                               | 5.3                                       | 0.600                                       | 7.9                                           |
| NOV<br>18... | 2.35                                                 | 1.75                                                 | 2.9                                                  | 4.6                                                                | 7.0                                       | 0.630                                       | 16                                            |
| DEC<br>15... | 1.80                                                 | 0.120                                                | 0.58                                                 | 0.70                                                               | 2.5                                       | 0.690                                       | 8.1                                           |
| JAN<br>19... | 1.17                                                 | 0.120                                                | 0.78                                                 | 0.90                                                               | 2.1                                       | 0.380                                       | 7.7                                           |
| FEB<br>18... | 0.590                                                | 0.100                                                | 0.50                                                 | 0.60                                                               | 1.2                                       | 0.170                                       | 3.1                                           |
| MAR<br>16... | 0.240                                                | 0.060                                                | 0.84                                                 | 0.90                                                               | 1.1                                       | 0.150                                       | 14                                            |
| APR<br>19... | 0.810                                                | 0.050                                                | 1.0                                                  | 1.1                                                                | 1.9                                       | 0.320                                       | 7.8                                           |
| MAY<br>18... | 0.380                                                | 0.070                                                | 0.63                                                 | 0.70                                                               | 1.1                                       | 0.220                                       | 13                                            |
| JUN<br>22... | 0.650                                                | 0.120                                                | 0.48                                                 | 0.60                                                               | 1.2                                       | 0.370                                       | 6.2                                           |
| JUL<br>20... | 0.690                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.560                                       | 15                                            |
| AUG<br>17... | 2.51                                                 | 0.300                                                | --                                                   | --                                                                 | --                                        | 0.560                                       | 8.3                                           |
| SEP<br>21... | 1.31                                                 | <0.030                                               | --                                                   | --                                                                 | --                                        | 0.650                                       | 8.7                                           |



## 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 mi<sup>2</sup>.

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.--7 years, 113 ft<sup>3</sup>/s, 34.33 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 ft<sup>3</sup>/s, Feb. 2, 1983, gage height, 5.54 ft; minimum discharge, 19 ft<sup>3</sup>/s, Oct. 6-8, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 23, 1967, reached a discharge of 11,000 ft<sup>3</sup>/s from contracted-opening computation at highway bridge 2 mi downstream at a drainage area of 48.2 mi<sup>2</sup>.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20 | 0330 | *1,420                            | *3.71               | No other peak greater than base discharge. |      |                                   |                     |

Minimum discharge, 23 ft<sup>3</sup>/s, Oct. 17-20, Sept. 1-3.

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           | 30    | 26    | 38        | 64      | 74     | 59        | 112      | 91   | 56   | 39   | 33   | 27   |
| 2           | 27    | 26    | 35        | 58      | 103    | 58        | 121      | 88   | 52   | 36   | 43   | 24   |
| 3           | 26    | 26    | 34        | 57      | 110    | 62        | 144      | 86   | 50   | 63   | 66   | 35   |
| 4           | 26    | 26    | 34        | 62      | 154    | 83        | 266      | 96   | 49   | 83   | 69   | 135  |
| 5           | 26    | 26    | 31        | 53      | 126    | 67        | 162      | 88   | 48   | 123  | 70   | 69   |
| 6           | 26    | 25    | 31        | 50      | 105    | 64        | 143      | 84   | 47   | 58   | 57   | 45   |
| 7           | 26    | 24    | 30        | 52      | 95     | 62        | 123      | 82   | 46   | 45   | 46   | 38   |
| 8           | 24    | 25    | 30        | 54      | 91     | 61        | 112      | 79   | 44   | 41   | 42   | 33   |
| 9           | 25    | 26    | 33        | 47      | 86     | 93        | 103      | 81   | 43   | 38   | 38   | 43   |
| 10          | 25    | 99    | 51        | 47      | 83     | 91        | 98       | 81   | 43   | 38   | 36   | 39   |
| 11          | 25    | 34    | 37        | 46      | 80     | 78        | 113      | 76   | 41   | 47   | 36   | 40   |
| 12          | 25    | 29    | 34        | 46      | 80     | 77        | 525      | 74   | 40   | 61   | 42   | 82   |
| 13          | 26    | 27    | 32        | 61      | 74     | 94        | 254      | 74   | 39   | 44   | 35   | 71   |
| 14          | 25    | 26    | 37        | 54      | 73     | 79        | 190      | 77   | 38   | 42   | 32   | 50   |
| 15          | 25    | 26    | 152       | 50      | 86     | 74        | 163      | 93   | 37   | 44   | 30   | 43   |
| 16          | 24    | 27    | 75        | 47      | 76     | 71        | 146      | 76   | 62   | 64   | 31   | 43   |
| 17          | 24    | 151   | 54        | 151     | 72     | 69        | 135      | 70   | 51   | 53   | 30   | 115  |
| 18          | 23    | 58    | 47        | 199     | 70     | 74        | 141      | 66   | 46   | 41   | 27   | 91   |
| 19          | 23    | 42    | 43        | 369     | 80     | 74        | 153      | 63   | 52   | 40   | 30   | 68   |
| 20          | 25    | 38    | 49        | 769     | 75     | 68        | 129      | 61   | 51   | 35   | 62   | 58   |
| 21          | 28    | 32    | 48        | 258     | 69     | 66        | 124      | 60   | 45   | 51   | 41   | 51   |
| 22          | 25    | 31    | 44        | 171     | 68     | 64        | 117      | 58   | 39   | 81   | 39   | 45   |
| 23          | 26    | 30    | 41        | 137     | 69     | 64        | 115      | 68   | 37   | 177  | 33   | 42   |
| 24          | 26    | 30    | 49        | 118     | 65     | 64        | 109      | 83   | 36   | 64   | 33   | 40   |
| 25          | 25    | 29    | 62        | 111     | 63     | 92        | 105      | 70   | 73   | 49   | 29   | 46   |
| 26          | 25    | 47    | 59        | 96      | 62     | 85        | 103      | 62   | 55   | 44   | 27   | 38   |
| 27          | 35    | 54    | 74        | 86      | 63     | 74        | 99       | 59   | 39   | 44   | 26   | 36   |
| 28          | 28    | 51    | 119       | 82      | 61     | 70        | 95       | 58   | 38   | 42   | 27   | 34   |
| 29          | 26    | 51    | 88        | 80      | 60     | 68        | 93       | 56   | 36   | 39   | 29   | 34   |
| 30          | 26    | 43    | 69        | 77      | ---    | 68        | 92       | 54   | 41   | 36   | 28   | 33   |
| 31          | 26    | ---   | 60        | 75      | ---    | 67        | ---      | 53   | ---  | 34   | 28   | ---  |
| TOTAL       | 802   | 1185  | 1620      | 3627    | 2373   | 2240      | 4385     | 2267 | 1374 | 1696 | 1195 | 1548 |
| MEAN        | 25.9  | 39.5  | 52.3      | 117     | 81.8   | 72.3      | 146      | 73.1 | 45.8 | 54.7 | 38.5 | 51.6 |
| MAX         | 35    | 151   | 152       | 769     | 154    | 94        | 525      | 96   | 73   | 177  | 70   | 135  |
| MIN         | 23    | 24    | 30        | 46      | 60     | 58        | 92       | 53   | 36   | 34   | 26   | 24   |
| CFSM        | .58   | .89   | 1.17      | 2.62    | 1.83   | 1.62      | 3.27     | 1.64 | 1.03 | 1.23 | .86  | 1.16 |
| IN.         | .67   | .99   | 1.35      | 3.03    | 1.98   | 1.87      | 3.66     | 1.89 | 1.15 | 1.41 | 1.00 | 1.29 |
| CAL YR 1987 | TOTAL | 33164 | MEAN 90.9 | MAX 960 | MIN 23 | CFSM 2.04 | IN 27.66 |      |      |      |      |      |
| WTR YR 1988 | TOTAL | 24312 | MEAN 66.4 | MAX 769 | MIN 23 | CFSM 1.49 | IN 20.28 |      |      |      |      |      |

## APALACHICOLA RIVER BASIN

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## 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 bridge on Duncan Bridge Road (revised), 1 mi downstream from Soque River, 6 mi northwest of Cornelia, and at mile 401.4.  
DRAINAGE AREA.--315 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 2106: 1963(M).

GAGE.--Water-stage recorder. Datum of gage is 1,128.53 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Nov. 1-2, Aug. 13, 14, 18. Records good. Some regulation at low flow from Habersham Mill powerplant.

AVERAGE DISCHARGE.--31 years, 816 ft<sup>3</sup>/s, 35.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft<sup>3</sup>/s, Mar. 12, 1963, gage height, 20.55 ft, from rating curve extended above 13,000 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; minimum daily discharge, 91 ft<sup>3</sup>/s, Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,200 ft<sup>3</sup>/s and maximum (\*):

| Date                                                      | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|-----------------------------------------------------------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20                                                   | 0730 | *9,270                            | *8.68               | No other peak greater than base discharge. |      |                                   |                     |
| Minimum daily discharge, 108 ft <sup>3</sup> /s, Aug. 28. |      |                                   |                     |                                            |      |                                   |                     |

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     | 257  | 126  | 307   | 482   | 528   | 428   | 430   | 345   | 300  | 241  | 240  | 178  |
| 2     | 207  | 241  | 313   | 553   | 573   | 390   | 609   | 498   | 298  | 162  | 243  | 186  |
| 3     | 135  | 206  | 282   | 437   | 813   | 386   | 461   | 463   | 231  | 261  | 217  | 230  |
| 4     | 162  | 218  | 267   | 554   | 1260  | 445   | 1060  | 459   | 246  | 473  | 252  | 425  |
| 5     | 279  | 202  | 222   | 485   | 970   | 352   | 774   | 473   | 173  | 708  | 320  | 468  |
| 6     | 251  | 206  | 168   | 434   | 747   | 392   | 671   | 431   | 233  | 394  | 375  | 322  |
| 7     | 245  | 210  | 287   | 377   | 667   | 454   | 602   | 429   | 263  | 289  | 263  | 255  |
| 8     | 187  | 124  | 192   | 454   | 649   | 408   | 564   | 310   | 267  | 256  | 319  | 235  |
| 9     | 186  | 253  | 252   | 517   | 595   | 550   | 539   | 449   | 257  | 240  | 261  | 213  |
| 10    | 141  | 491  | 455   | 464   | 567   | 578   | 426   | 413   | 195  | 233  | 211  | 226  |
| 11    | 135  | 401  | 429   | 446   | 545   | 526   | 540   | 431   | 137  | 287  | 384  | 163  |
| 12    | 268  | 286  | 362   | 413   | 539   | 510   | 2670  | 392   | 138  | 309  | 289  | 501  |
| 13    | 249  | 266  | 194   | 425   | 507   | 521   | 1360  | 394   | 249  | 255  | 143  | 434  |
| 14    | 233  | 223  | 350   | 459   | 465   | 534   | 972   | 375   | 223  | 246  | 172  | 274  |
| 15    | 199  | 134  | 914   | 418   | 562   | 490   | 826   | 300   | 209  | 233  | 252  | 265  |
| 16    | 174  | 243  | 753   | 393   | 564   | 467   | 734   | 497   | 195  | 249  | 204  | 278  |
| 17    | 192  | 698  | 497   | 521   | 510   | 419   | 666   | 424   | 313  | 439  | 218  | 589  |
| 18    | 135  | 586  | 429   | 1350  | 496   | 433   | 711   | 376   | 165  | 308  | 153  | 619  |
| 19    | 182  | 375  | 275   | 1980  | 519   | 485   | 792   | 375   | 256  | 286  | 185  | 484  |
| 20    | 199  | 324  | 343   | 5250  | 513   | 353   | 673   | 317   | 277  | 260  | 218  | 351  |
| 21    | 194  | 299  | 451   | 1760  | 420   | 470   | 634   | 301   | 311  | 180  | 313  | 319  |
| 22    | 202  | 175  | 404   | 1180  | 491   | 432   | 600   | 225   | 259  | 297  | 293  | 284  |
| 23    | 209  | 314  | 372   | 938   | 474   | 410   | 556   | 366   | 239  | 633  | 227  | 283  |
| 24    | 193  | 285  | 214   | 794   | 446   | 415   | 569   | 338   | 182  | 332  | 245  | 234  |
| 25    | 138  | 281  | 508   | 760   | 406   | 410   | 559   | 394   | 486  | 336  | 208  | 173  |
| 26    | 244  | 200  | 476   | 667   | 409   | 527   | 534   | 349   | 484  | 273  | 207  | 218  |
| 27    | 227  | 409  | 543   | 605   | 411   | 403   | 524   | 330   | 334  | 245  | 119  | 216  |
| 28    | 261  | 370  | 1370  | 576   | 353   | 474   | 498   | 300   | 266  | 216  | 108  | 212  |
| 29    | 227  | 361  | 875   | 550   | 453   | 436   | 472   | 200   | 217  | 234  | 179  | 207  |
| 30    | 213  | 388  | 625   | 513   | ---   | 406   | 498   | 228   | 230  | 157  | 169  | 206  |
| 31    | 190  | ---  | 538   | 517   | ---   | 410   | ---   | 338   | ---  | 167  | 198  | ---  |
| TOTAL | 6314 | 8895 | 13667 | 25272 | 16452 | 13914 | 21524 | 11520 | 7633 | 9199 | 7185 | 9048 |
| MEAN  | 204  | 297  | 441   | 815   | 567   | 449   | 717   | 372   | 254  | 297  | 232  | 302  |
| MAX   | 279  | 698  | 1370  | 5250  | 1260  | 578   | 2670  | 498   | 486  | 708  | 384  | 619  |
| MIN   | 135  | 124  | 168   | 377   | 353   | 352   | 426   | 200   | 137  | 157  | 108  | 163  |
| CFSM  | .65  | .94  | 1.40  | 2.59  | 1.80  | 1.43  | 2.28  | 1.18  | .81  | .94  | .74  | .96  |
| IN.   | .75  | 1.05 | 1.61  | 2.98  | 1.94  | 1.64  | 2.54  | 1.36  | .90  | 1.09 | .85  | 1.07 |

|             |       |        |          |          |         |           |          |
|-------------|-------|--------|----------|----------|---------|-----------|----------|
| CAL YR 1987 | TOTAL | 226445 | MEAN 620 | MAX 6830 | MIN 124 | CFSM 1.97 | IN 26.74 |
| WTR YR 1988 | TOTAL | 150623 | MEAN 412 | MAX 5250 | MIN 108 | CFSM 1.31 | IN 17.79 |

## 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 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV<br>09... | 1430 | 283                                             | 32                                                | 31                                                       | 7.50                           | 6.90                                  | 11.5                                 | 22.0                               | 11.0                                | 104                                                            |
| JAN<br>13... | 1030 | 395                                             | 32                                                | 31                                                       | 6.50                           | 6.90                                  | 2.5                                  | 9.0                                | 12.6                                | 95                                                             |
| MAR<br>08... | 1015 | 401                                             | 29                                                | 27                                                       | 6.70                           | 7.10                                  | 9.5                                  | 16.0                               | 5.5                                 | 50                                                             |
| MAY<br>12... | 1130 | 377                                             | 24                                                | 28                                                       | 7.00                           | 7.00                                  | 17.5                                 | 25.5                               | 9.2                                 | 99                                                             |
| JUL<br>12... | 0900 | 205                                             | 26                                                | 26                                                       | 6.80                           | 6.90                                  | 24.0                                 | 25.5                               | 7.7                                 | 95                                                             |
| SEP<br>14... | 1415 | 303                                             | 32                                                | 29                                                       | 7.30                           | 7.00                                  | 23.0                                 | 28.0                               | 8.5                                 | 103                                                            |

| DATE         | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LILITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| NOV<br>09... | 5.0                          | 0.4                                                            | 80                                               | 8                                                               | 0.110                                                | 0.050                                                | 0.030                                       | 2.2                                           |
| JAN<br>13... | 4.0                          | 1.2                                                            | 40                                               | 8                                                               | 0.430                                                | 0.110                                                | <0.020                                      | 1.2                                           |
| MAR<br>08... | 7.0                          | 1.1                                                            | --                                               | 9                                                               | 0.280                                                | 0.120                                                | <0.020                                      | 1.5                                           |
| MAY<br>12... | 7.0                          | 0.8                                                            | <20                                              | 9                                                               | 0.250                                                | 0.070                                                | 0.030                                       | 1.9                                           |
| JUL<br>12... | 9.0                          | 0.9                                                            | 70                                               | 10                                                              | 0.190                                                | 0.060                                                | 0.040                                       | 1.4                                           |
| SEP<br>14... | 20                           | 1.0                                                            | 790                                              | 9                                                               | 0.350                                                | <0.030                                               | 0.050                                       | 3.1                                           |

## 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 mi<sup>2</sup>.

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.--Estimated daily discharges: Oct. 2-26. Records good, except those for period Oct. 2-26, which are fair. AVERAGE DISCHARGE.--50 years (water years 1930-31, 1941-88), 359 ft<sup>3</sup>/s, 31.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft<sup>3</sup>/s, Aug. 23, 1967, gage height, 25.17 ft; minimum daily, 44 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Jan. 20 | 0615 | *5,320                         | *10.03           | No other peak greater than base discharge. |      |                                |                  |

Minimum daily discharge, 59 ft<sup>3</sup>/s, Aug. 30.

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           | 81    | 71    | 102      | 232      | 196    | 162       | 237      | 198  | 108  | 102  | 90   | 67   |
| 2           | 72    | 70    | 97       | 231      | 269    | 160       | 412      | 191  | 106  | 84   | 82   | 64   |
| 3           | 72    | 72    | 93       | 206      | 431    | 162       | 294      | 185  | 100  | 121  | 94   | 61   |
| 4           | 73    | 70    | 95       | 229      | 894    | 196       | 672      | 195  | 98   | 298  | 99   | 344  |
| 5           | 74    | 72    | 90       | 199      | 522    | 189       | 436      | 197  | 96   | 297  | 101  | 247  |
| 6           | 75    | 70    | 88       | 182      | 372    | 172       | 357      | 178  | 93   | 165  | 103  | 131  |
| 7           | 74    | 68    | 87       | 217      | 314    | 167       | 307      | 168  | 91   | 122  | 105  | 101  |
| 8           | 72    | 68    | 85       | 315      | 288    | 163       | 276      | 163  | 88   | 104  | 101  | 85   |
| 9           | 73    | 70    | 93       | 204      | 266    | 263       | 255      | 161  | 85   | 96   | 83   | 93   |
| 10          | 73    | 229   | 207      | 162      | 250    | 296       | 241      | 183  | 84   | 91   | 77   | 101  |
| 11          | 72    | 136   | 148      | 161      | 237    | 243       | 240      | 186  | 82   | 90   | 112  | 100  |
| 12          | 73    | 95    | 117      | 152      | 230    | 218       | 1470     | 160  | 80   | 148  | 78   | 270  |
| 13          | 73    | 87    | 103      | 177      | 214    | 261       | 670      | 154  | 79   | 123  | 72   | 207  |
| 14          | 72    | 81    | 101      | 200      | 209    | 224       | 452      | 151  | 77   | 115  | 67   | 140  |
| 15          | 72    | 76    | 515      | 170      | 224    | 208       | 371      | 150  | 75   | 101  | 66   | 111  |
| 16          | 72    | 74    | 289      | 157      | 225    | 198       | 326      | 148  | 74   | 212  | 65   | 104  |
| 17          | 71    | 343   | 184      | 372      | 202    | 192       | 299      | 143  | 79   | 288  | 64   | 256  |
| 18          | 70    | 211   | 152      | 776      | 197    | 193       | 314      | 139  | 84   | 146  | 64   | 250  |
| 19          | 70    | 131   | 135      | 1250     | 211    | 212       | 358      | 135  | 104  | 109  | 62   | 176  |
| 20          | 70    | 117   | 135      | 3060     | 207    | 190       | 299      | 132  | 170  | 98   | 107  | 150  |
| 21          | 72    | 103   | 149      | 956      | 192    | 182       | 275      | 128  | 101  | 99   | 134  | 130  |
| 22          | 70    | 96    | 145      | 550      | 184    | 176       | 258      | 126  | 90   | 123  | 91   | 109  |
| 23          | 72    | 92    | 130      | 407      | 183    | 172       | 253      | 126  | 83   | 589  | 74   | 98   |
| 24          | 71    | 90    | 138      | 337      | 179    | 170       | 249      | 152  | 79   | 200  | 77   | 97   |
| 25          | 72    | 89    | 220      | 309      | 174    | 189       | 228      | 159  | 123  | 139  | 68   | 97   |
| 26          | 72    | 102   | 206      | 271      | 171    | 243       | 221      | 130  | 149  | 116  | 66   | 105  |
| 27          | 88    | 151   | 251      | 244      | 169    | 194       | 212      | 123  | 94   | 118  | 64   | 89   |
| 28          | 90    | 125   | 833      | 227      | 168    | 181       | 199      | 120  | 85   | 142  | 62   | 84   |
| 29          | 74    | 124   | 399      | 220      | 164    | 176       | 194      | 116  | 79   | 136  | 60   | 81   |
| 30          | 72    | 111   | 264      | 208      | ---    | 174       | 192      | 113  | 85   | 105  | 59   | 78   |
| 31          | 71    | ---   | 216      | 201      | ---    | 173       | ---      | 109  | ---  | 99   | 73   | ---  |
| TOTAL       | 2278  | 3294  | 5867     | 12582    | 7542   | 6099      | 10567    | 4719 | 2821 | 4776 | 2520 | 4026 |
| MEAN        | 73.5  | 110   | 189      | 406      | 260    | 197       | 352      | 152  | 94.0 | 154  | 81.3 | 134  |
| MAX         | 90    | 343   | 833      | 3060     | 894    | 296       | 1470     | 198  | 170  | 589  | 134  | 344  |
| MIN         | 70    | 68    | 85       | 152      | 164    | 160       | 192      | 109  | 74   | 84   | 59   | 61   |
| CFSM        | .48   | .72   | 1.24     | 2.65     | 1.70   | 1.29      | 2.30     | .99  | .61  | 1.01 | .53  | .88  |
| IN.         | .55   | .80   | 1.43     | 3.06     | 1.83   | 1.48      | 2.57     | 1.15 | .69  | 1.16 | .61  | .98  |
| CAL YR 1987 | TOTAL | 92224 | MEAN 253 | MAX 3430 | MIN 63 | CFSM 1.65 | IN 22.42 |      |      |      |      |      |
| WTR YR 1988 | TOTAL | 67091 | MEAN 183 | MAX 3060 | MIN 59 | CFSM 1.20 | IN 16.31 |      |      |      |      |      |

## 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 mi<sup>2</sup>, 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.--47 years, 2,072 ft<sup>3</sup>/s, 27.06 in/yr, adjusted for storage since 1956.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft<sup>3</sup>/s, Jan. 8, 1946, gage height, 32.6 ft, from floodmark, from rating curve extended above 13,000 ft<sup>3</sup>/s on basis of peak flows passing upstream and downstream stations; minimum daily discharge, 26 ft<sup>3</sup>/s, May 18, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1921, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,200 ft<sup>3</sup>/s, Oct. 29, gage height, 7.95 ft; minimum daily discharge, 379 ft<sup>3</sup>/s, Aug. 21.

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                 | 3140   | 843   | 1180  | 938   | 1020  | 1150  | 1150  | 551   | 1120  | 1420  | 1530  | 1360  |     |
| 2                 | 3160   | 2190  | 1190  | 608   | 820   | 977   | 538   | 1540  | 1120  | 1120  | 1430  | 1360  |     |
| 3                 | 926    | 2060  | 1190  | 514   | 426   | 967   | 538   | 1140  | 1160  | 1120  | 1430  | 935   |     |
| 4                 | 846    | 2070  | 1170  | 924   | 650   | 972   | 1240  | 1130  | 840   | 1530  | 1420  | 558   |     |
| 5                 | 2990   | 2070  | 1040  | 928   | 784   | 554   | 1140  | 1140  | 844   | 1420  | 1440  | 559   |     |
| 6                 | 2730   | 2070  | 948   | 926   | 428   | 746   | 1150  | 1130  | 1280  | 1390  | 1120  | 1460  |     |
| 7                 | 2730   | 838   | 1200  | 918   | 390   | 1010  | 1150  | 627   | 1190  | 1420  | 1020  | 1360  |     |
| 8                 | 2740   | 840   | 1190  | 932   | 1150  | 1160  | 1140  | 658   | 1190  | 1450  | 1420  | 1360  |     |
| 9                 | 2740   | 2110  | 1190  | 605   | 1160  | 1180  | 548   | 1350  | 1190  | 1120  | 1430  | 1360  |     |
| 10                | 920    | 1220  | 1190  | 741   | 769   | 972   | 554   | 1140  | 1190  | 1120  | 1430  | 826   |     |
| 11                | 851    | 1230  | 1190  | 1060  | 770   | 962   | 1230  | 1140  | 690   | 1530  | 1420  | 781   |     |
| 12                | 2040   | 1230  | 934   | 933   | 1160  | 555   | 400   | 1130  | 705   | 1420  | 1420  | 1440  |     |
| 13                | 1920   | 1230  | 940   | 1360  | 547   | 470   | 1140  | 995   | 1340  | 1430  | 928   | 872   |     |
| 14                | 1950   | 1280  | 1170  | 1400  | 552   | 1160  | 1140  | 670   | 1340  | 1420  | 928   | 1350  |     |
| 15                | 1960   | 1290  | 1180  | 905   | 1000  | 1220  | 1140  | 726   | 1340  | 1420  | 1450  | 1360  |     |
| 16                | 1950   | 1440  | 1080  | 598   | 962   | 1160  | 548   | 1360  | 1340  | 1120  | 1360  | 1360  |     |
| 17                | 813    | 1180  | 1190  | 632   | 961   | 776   | 549   | 1130  | 1350  | 1140  | 1350  | 908   |     |
| 18                | 819    | 1170  | 1180  | 1180  | 961   | 1150  | 1200  | 1150  | 1090  | 1540  | 1370  | 935   |     |
| 19                | 2160   | 1180  | 618   | 1150  | 966   | 555   | 1130  | 1140  | 1080  | 1470  | 1370  | 1450  |     |
| 20                | 2060   | 1180  | 752   | 886   | 544   | 564   | 1130  | 1140  | 1470  | 1420  | 827   | 1350  |     |
| 21                | 2050   | 1280  | 1320  | 865   | 555   | 1190  | 1130  | 540   | 1400  | 1430  | 379   | 1350  |     |
| 22                | 2060   | 1290  | 940   | 1140  | 1210  | 1140  | 1130  | 549   | 1420  | 1440  | 1370  | 1370  |     |
| 23                | 2060   | 1470  | 933   | 385   | 783   | 1150  | 543   | 1240  | 1370  | 1120  | 1370  | 1340  |     |
| 24                | 761    | 1180  | 940   | 384   | 767   | 1160  | 453   | 1140  | 1400  | 443   | 1360  | 739   |     |
| 25                | 753    | 1180  | 935   | 800   | 1160  | 1150  | 1140  | 1130  | 1120  | 1440  | 1360  | 749   |     |
| 26                | 2080   | 1180  | 608   | 1030  | 1760  | 555   | 1140  | 1120  | 1100  | 1400  | 1350  | 1220  |     |
| 27                | 2090   | 1170  | 751   | 1020  | 552   | 561   | 1140  | 1130  | 1480  | 1430  | 817   | 1160  |     |
| 28                | 2090   | 930   | 1060  | 1020  | 558   | 1200  | 389   | 557   | 1420  | 1430  | 757   | 1600  |     |
| 29                | 2070   | 935   | 943   | 818   | 1210  | 1160  | 1140  | 564   | 1420  | 1430  | 1360  | 1160  |     |
| 30                | 2070   | 1180  | 940   | 613   | ---   | 1150  | 550   | 1130  | 1430  | 1120  | 1360  | 1180  |     |
| 31                | 818    | ---   | 934   | 409   | ---   | 1160  | ---   | 1210  | ---   | 1120  | 1380  | ---   |     |
| TOTAL             | 58347  | 40516 | 32026 | 26622 | 24575 | 29836 | 27510 | 31297 | 36429 | 40823 | 38956 | 34812 |     |
| MEAN              | 1882   | 1351  | 1033  | 859   | 847   | 962   | 917   | 1010  | 1214  | 1317  | 1257  | 1160  |     |
| MAX               | 3160   | 2190  | 1320  | 1400  | 1760  | 1220  | 1240  | 1540  | 1480  | 1540  | 1530  | 1600  |     |
| MIN               | 753    | 838   | 608   | 384   | 390   | 470   | 389   | 540   | 690   | 443   | 379   | 558   |     |
| MEAN†             | 280    | 682   | 1127  | 2279  | 1403  | 1063  | 1772  | 607   | 283   | 588   | 398   | 931   |     |
| CFSM†             | .27    | .66   | 1.08  | 2.19  | 1.35  | 1.02  | 1.70  | .58   | .27   | .57   | .38   | .90   |     |
| INT†              | .31    | .74   | 1.24  | 2.52  | 1.46  | 1.18  | 1.90  | .67   | .30   | .66   | .44   | 1.00  |     |
| CAL YR 1987 TOTAL | 543805 |       |       | 1490  | 4380  | 398   | MEAN† | 1406  | CFSM† | 1.35  | INT†  | 18.35 |     |
| WTR YR 1988 TOTAL | 421749 |       |       | MEAN  | 1152  | MAX   | 3160  | MIN   | 379   | MEAN† | 949   | CFSM† | .91 |
|                   |        |       |       |       |       |       |       |       |       |       | INT†  | 12.42 |     |

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

## APALACHICOLA RIVER BASIN

211

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 mi<sup>2</sup>.

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.--Estimated daily discharge: Dec. 29. Records good, except those less than 10 ft<sup>3</sup>/s, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,150 ft<sup>3</sup>/s, Nov. 26, 1986, gage height, 10.41 ft; minimum discharge, 0.80 ft<sup>3</sup>/s, July 21, 1988.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Jan. 20 | 2000 | *948                              | *8.45               | Feb. 4 | 2100 | 556                               | 7.19                |

Minimum discharge, 0.80 ft<sup>3</sup>/s, July 21.

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                 | 4.4     | 6.9   | 13   | 30        | 34       | 30      | 33       | 29       | 9.7   | 2.8   | 3.7   | 17   |
| 2                 | 4.1     | 6.9   | 12   | 46        | 57       | 29      | 39       | 27       | 9.2   | 2.7   | 6.7   | 11   |
| 3                 | 3.7     | 7.1   | 12   | 36        | 238      | 29      | 34       | 26       | 8.8   | 3.6   | 5.5   | 11   |
| 4                 | 3.6     | 7.1   | 12   | 44        | 484      | 32      | 59       | 36       | 8.5   | 4.9   | 6.5   | 61   |
| 5                 | 4.1     | 7.2   | 12   | 32        | 232      | 30      | 39       | 40       | 8.1   | 6.2   | 9.6   | 63   |
| 6                 | 4.4     | 7.2   | 11   | 26        | 102      | 29      | 36       | 28       | 7.8   | 6.5   | 6.3   | 32   |
| 7                 | 4.4     | 7.1   | 11   | 25        | 77       | 28      | 31       | 25       | 7.5   | 4.9   | 6.2   | 24   |
| 8                 | 4.1     | 7.1   | 11   | 27        | 67       | 27      | 27       | 24       | 7.2   | 3.5   | 8.2   | 18   |
| 9                 | 4.5     | 7.6   | 11   | 24        | 61       | 51      | 26       | 23       | 8.2   | 2.8   | 6.7   | 19   |
| 10                | 4.7     | 48    | 16   | 23        | 56       | 58      | 25       | 26       | 8.5   | 2.8   | 4.8   | 23   |
| 11                | 4.7     | 19    | 16   | 25        | 53       | 40      | 39       | 24       | 7.2   | 2.6   | 31    | 57   |
| 12                | 4.1     | 11    | 14   | 24        | 51       | 35      | 349      | 21       | 6.5   | 3.5   | 14    | 180  |
| 13                | 4.2     | 9.6   | 13   | 28        | 48       | 51      | 112      | 20       | 5.8   | 3.7   | 7.8   | 60   |
| 14                | 4.2     | 9.2   | 14   | 31        | 46       | 39      | 70       | 20       | 5.5   | 2.5   | 6.1   | 40   |
| 15                | 4.6     | 8.7   | 59   | 26        | 47       | 34      | 59       | 19       | 5.1   | 2.0   | 4.9   | 31   |
| 16                | 5.2     | 8.5   | 32   | 24        | 47       | 33      | 52       | 20       | 4.9   | 1.6   | 3.9   | 29   |
| 17                | 5.3     | 64    | 20   | 71        | 42       | 31      | 48       | 19       | 5.1   | 1.6   | 5.0   | 79   |
| 18                | 5.3     | 31    | 18   | 152       | 41       | 33      | 72       | 17       | 5.4   | 1.6   | 8.0   | 55   |
| 19                | 5.4     | 16    | 17   | 88        | 46       | 43      | 126      | 16       | 8.0   | 1.2   | 7.5   | 42   |
| 20                | 5.3     | 14    | 17   | 584       | 42       | 34      | 69       | 16       | 8.2   | 1.0   | 18    | 35   |
| 21                | 5.5     | 13    | 21   | 290       | 38       | 32      | 56       | 14       | 6.3   | 1.0   | 22    | 38   |
| 22                | 5.3     | 12    | 29   | 94        | 34       | 30      | 47       | 14       | 5.2   | 1.4   | 14    | 30   |
| 23                | 5.9     | 12    | 21   | 65        | 34       | 30      | 54       | 14       | 4.7   | 6.3   | 34    | 28   |
| 24                | 6.1     | 12    | 22   | 52        | 35       | 30      | 70       | 16       | 4.4   | 5.0   | 25    | 27   |
| 25                | 6.5     | 11    | 44   | 49        | 33       | 35      | 58       | 23       | 4.0   | 2.2   | 16    | 26   |
| 26                | 6.3     | 14    | 26   | 42        | 32       | 47      | 46       | 15       | 4.0   | 1.7   | 12    | 25   |
| 27                | 9.8     | 19    | 24   | 36        | 32       | 34      | 38       | 13       | 3.5   | 1.8   | 9.9   | 24   |
| 28                | 9.1     | 15    | 104  | 33        | 31       | 31      | 33       | 13       | 3.3   | 2.4   | 9.0   | 23   |
| 29                | 7.1     | 14    | 52   | 39        | 30       | 32      | 31       | 12       | 2.9   | 37    | 8.6   | 23   |
| 30                | 6.9     | 13    | 30   | 36        | ---      | 30      | 30       | 11       | 2.6   | 7.8   | 8.6   | 22   |
| 31                | 7.0     | ---   | 25   | 35        | ---      | 30      | ---      | 10       | ---   | 5.4   | 22    | ---  |
| TOTAL             | 165.8   | 438.2 | 739  | 2137      | 2170     | 1077    | 1808     | 631      | 186.1 | 134.0 | 351.5 | 1153 |
| MEAN              | 5.35    | 14.6  | 23.8 | 68.9      | 74.8     | 34.7    | 60.3     | 20.4     | 6.20  | 4.32  | 11.3  | 38.4 |
| MAX               | 9.8     | 64    | 104  | 584       | 484      | 58      | 349      | 40       | 9.7   | 37    | 34    | 180  |
| MIN               | 3.6     | 6.9   | 11   | 23        | 30       | 27      | 25       | 10       | 2.6   | 1.0   | 3.7   | 11   |
| CFSM              | .11     | .31   | .51  | 1.47      | 1.60     | .74     | 1.29     | .44      | .13   | .09   | .24   | .82  |
| IN.               | .13     | .35   | .59  | 1.70      | 1.72     | .86     | 1.44     | .50      | .15   | .11   | .28   | .92  |
| CAL YR 1987 TOTAL | 16173.2 |       |      | MEAN 44.3 | MAX 1080 | MIN 1.7 | CFSM .95 | IN 12.86 |       |       |       |      |
| WTR YR 1988 TOTAL | 10990.6 |       |      | MEAN 30.0 | MAX 584  | MIN 1.0 | CFSM .64 | IN 8.74  |       |       |       |      |



## 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 mi<sup>2</sup>, 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 to fair. 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.--76 years (water years 1903-46, 1957-88), 2,277 ft<sup>3</sup>/s, 26.43 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft<sup>3</sup>/s, Jan. 8, 1946, gage height, 27.7 ft, from rating curve extended above 36,000 ft<sup>3</sup>/s on basis of computation of peak flow over Morgan Falls Dam; minimum observed, 132 ft<sup>3</sup>/s, Aug. 25, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,210 ft<sup>3</sup>/s, Oct. 2, gage height, 9.69 ft; minimum daily, 473 ft<sup>3</sup>/s, Dec. 6.

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     | 3230  | 821   | 1240  | 1020  | 786   | 1620  | 1170  | 594   | 1240  | 1490  | 1440  | 1420  |
| 2     | 3240  | 1670  | 1250  | 1080  | 913   | 1440  | 898   | 1070  | 948   | 1260  | 1510  | 1410  |
| 3     | 1410  | 2180  | 1260  | 731   | 1190  | 1370  | 566   | 1240  | 1190  | 872   | 1540  | 952   |
| 4     | 896   | 2170  | 1250  | 746   | 2020  | 1390  | 750   | 1230  | 982   | 1720  | 1560  | 888   |
| 5     | 1960  | 2160  | 1800  | 986   | 1280  | 876   | 1210  | 1230  | 728   | 1500  | 1560  | 611   |
| 6     | 3280  | 2170  | 473   | 984   | 834   | 1100  | 1220  | 1190  | 1240  | 1470  | 1370  | 1200  |
| 7     | 2830  | 1480  | 1020  | 963   | 532   | 1270  | 1210  | 1100  | 1190  | 1460  | 838   | 1430  |
| 8     | 2820  | 742   | 1250  | 972   | 839   | 1360  | 1210  | 650   | 1190  | 1480  | 1500  | 1430  |
| 9     | 2820  | 757   | 1250  | 742   | 1230  | 1450  | 1120  | 944   | 1190  | 1230  | 1510  | 1440  |
| 10    | 1450  | 2230  | 1280  | 731   | 1180  | 1220  | 562   | 1220  | 1190  | 872   | 1530  | 790   |
| 11    | 882   | 1360  | 1270  | 920   | 813   | 973   | 805   | 1200  | 828   | 1730  | 1550  | 835   |
| 12    | 1730  | 1320  | 1190  | 937   | 834   | 695   | 1930  | 1180  | 576   | 1500  | 1540  | 3270  |
| 13    | 2080  | 1310  | 1000  | 1350  | 890   | 611   | 897   | 1080  | 1240  | 1490  | 1210  | 1330  |
| 14    | 1990  | 1450  | 1010  | 1440  | 578   | 795   | 1290  | 1040  | 1360  | 1510  | 920   | 1270  |
| 15    | 2000  | 1310  | 1380  | 1280  | 1050  | 1180  | 1260  | 729   | 1360  | 1480  | 1430  | 1460  |
| 16    | 1990  | 1330  | 1320  | 515   | 996   | 1180  | 1130  | 1110  | 1360  | 1210  | 1430  | 1460  |
| 17    | 1020  | 1490  | 1270  | 882   | 989   | 1130  | 611   | 1240  | 1360  | 872   | 1420  | 993   |
| 18    | 786   | 1330  | 1260  | 1250  | 989   | 801   | 999   | 1220  | 1160  | 1720  | 1420  | 1010  |
| 19    | 1580  | 1270  | 1250  | 1440  | 1000  | 893   | 1470  | 1240  | 960   | 1510  | 1440  | 1550  |
| 20    | 2150  | 1270  | 769   | 2570  | 556   | 572   | 1290  | 1230  | 1520  | 1520  | 976   | 1480  |
| 21    | 2140  | 1870  | 797   | 1680  | 574   | 856   | 1240  | 952   | 1410  | 1510  | 687   | 1460  |
| 22    | 2150  | 1280  | 1240  | 1390  | 890   | 1120  | 1210  | 571   | 1410  | 1010  | 1050  | 1470  |
| 23    | 2180  | 893   | 997   | 918   | 1140  | 1140  | 954   | 805   | 1400  | 1830  | 1470  | 1450  |
| 24    | 1240  | 1280  | 1010  | 493   | 775   | 1140  | 614   | 1380  | 1390  | 848   | 1460  | 900   |
| 25    | 765   | 1250  | 1060  | 661   | 1020  | 1160  | 690   | 1230  | 1250  | 913   | 1430  | 685   |
| 26    | 1700  | 1280  | 1040  | 887   | 1620  | 898   | 1220  | 1220  | 825   | 1460  | 1410  | 1160  |
| 27    | 2220  | 1270  | 770   | 1050  | 1910  | 564   | 1220  | 1220  | 1570  | 1520  | 881   | 1110  |
| 28    | 2220  | 1210  | 852   | 1040  | 936   | 863   | 991   | 930   | 1470  | 1510  | 724   | 1500  |
| 29    | 2230  | 982   | 1080  | 1020  | 1700  | 1140  | 647   | 518   | 1480  | 1540  | 1270  | 1370  |
| 30    | 2210  | 1010  | 1020  | 643   | ---   | 1150  | 1060  | 1150  | 1480  | 1270  | 1390  | 1210  |
| 31    | 1420  | ---   | 1000  | 616   | ---   | 1140  | ---   | 1260  | ---   | 1120  | 1430  | ---   |
| TOTAL | 60619 | 42145 | 34658 | 31937 | 30064 | 33097 | 31444 | 32973 | 36497 | 42427 | 40896 | 38544 |
| MEAN  | 1955  | 1405  | 1118  | 1030  | 1037  | 1068  | 1048  | 1064  | 1217  | 1369  | 1319  | 1285  |
| MAX   | 3280  | 2230  | 1800  | 2570  | 2020  | 1620  | 1930  | 1380  | 1570  | 1830  | 1560  | 3270  |
| MIN   | 765   | 742   | 473   | 493   | 532   | 564   | 562   | 518   | 576   | 848   | 687   | 611   |

CAL YR 1987 TOTAL 600739 MEAN 1646 MAX 4090 MIN 473 MEAN† 1562 CFSM† 1.34 INT† 18.12  
WTR YR 1988 TOTAL 455301 MEAN 1244 MAX 3280 MIN 473 MEAN† 1041 CFSM† .89 INT† 12.11

†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 mi<sup>2</sup>, 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.--Estimated daily discharges: Nov. 11 to Dec. 16, Aug. 5. Records good, except those of no gage-height record, Nov. 11 to Dec. 16, Aug. 5, which are poor. 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.--30 years (water years 1942-59, 1977-88), 2,055 ft<sup>3</sup>/s, 22.87 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,000 ft<sup>3</sup>/s, Jan. 8, 1946, from rating curve extended above 30,000 ft<sup>3</sup>/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 ft<sup>3</sup>/s, Aug. 11, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,340 ft<sup>3</sup>/s, Oct. 2, gage height, 7.16 ft; minimum daily discharge, 331 ft<sup>3</sup>/s, July 25.

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                 | 3060   | 693   | 1200  | 1010  | 649      | 1120    | 1200  | 519   | 1050   | 1290  | 1060  | 1330  |
| 2                 | 3080   | 1390  | 1250  | 1040  | 942      | 990     | 975   | 689   | 780    | 1280  | 1390  | 1310  |
| 3                 | 2080   | 2050  | 1300  | 740   | 1370     | 924     | 566   | 1150  | 1000   | 985   | 1430  | 1210  |
| 4                 | 768    | 2070  | 1250  | 672   | 3010     | 921     | 635   | 1090  | 1030   | 1170  | 1800  | 1280  |
| 5                 | 1080   | 2100  | 1700  | 921   | 1520     | 580     | 1140  | 1120  | 728    | 1360  | 1550  | 809   |
| 6                 | 3540   | 2070  | 500   | 940   | 918      | 608     | 1120  | 1100  | 780    | 1320  | 1410  | 746   |
| 7                 | 2650   | 1510  | 1000  | 950   | 604      | 805     | 1150  | 1100  | 1010   | 1280  | 1030  | 1350  |
| 8                 | 2670   | 711   | 1200  | 958   | 779      | 910     | 1070  | 546   | 996    | 1320  | 939   | 1370  |
| 9                 | 2600   | 682   | 1200  | 789   | 1180     | 1170    | 1120  | 617   | 1040   | 1230  | 1380  | 1380  |
| 10                | 1540   | 2300  | 1250  | 654   | 1150     | 1280    | 488   | 1190  | 1050   | 933   | 1380  | 1220  |
| 11                | 754    | 1400  | 1250  | 883   | 803      | 964     | 709   | 1050  | 995    | 1120  | 1400  | 785   |
| 12                | 1410   | 1300  | 1200  | 888   | 774      | 747     | 2250  | 1030  | 570    | 1350  | 1420  | 2760  |
| 13                | 1870   | 1300  | 1000  | 1290  | 979      | 655     | 848   | 1040  | 668    | 1300  | 1400  | 1540  |
| 14                | 1810   | 1400  | 1000  | 1420  | 576      | 704     | 1200  | 975   | 1180   | 1340  | 828   | 978   |
| 15                | 1860   | 1300  | 1300  | 1310  | 904      | 1120    | 1180  | 651   | 1200   | 1370  | 1030  | 1350  |
| 16                | 1810   | 1300  | 1300  | 538   | 965      | 1120    | 1210  | 700   | 1200   | 1250  | 1290  | 1350  |
| 17                | 1000   | 1600  | 1210  | 984   | 952      | 1150    | 580   | 1130  | 1200   | 938   | 1300  | 1530  |
| 18                | 647    | 1300  | 1180  | 1280  | 953      | 805     | 885   | 1050  | 1260   | 1110  | 1300  | 1010  |
| 19                | 1260   | 1250  | 1180  | 1500  | 972      | 919     | 1510  | 1050  | 1030   | 1340  | 1320  | 1080  |
| 20                | 1990   | 1250  | 696   | 3410  | 633      | 553     | 1250  | 1070  | 1100   | 1350  | 1370  | 1400  |
| 21                | 1990   | 1800  | 785   | 1860  | 565      | 780     | 1170  | 1100  | 1270   | 1360  | 802   | 1350  |
| 22                | 1970   | 1300  | 1300  | 1350  | 765      | 1060    | 1150  | 453   | 1240   | 1240  | 496   | 1370  |
| 23                | 1990   | 900   | 980   | 1060  | 1120     | 1080    | 998   | 455   | 1250   | 1700  | 1470  | 1330  |
| 24                | 1350   | 1250  | 943   | 462   | 784      | 1100    | 603   | 1100  | 1250   | 1010  | 1540  | 1230  |
| 25                | 670    | 1250  | 1050  | 553   | 722      | 1110    | 492   | 1070  | 1200   | 331   | 1340  | 643   |
| 26                | 1320   | 1250  | 1010  | 856   | 1080     | 953     | 1110  | 1070  | 967    | 1300  | 1330  | 854   |
| 27                | 2100   | 1250  | 781   | 1040  | 1480     | 567     | 1100  | 1060  | 1000   | 1340  | 1140  | 949   |
| 28                | 2090   | 1200  | 936   | 1040  | 551      | 750     | 1100  | 1050  | 1310   | 1420  | 694   | 1220  |
| 29                | 2070   | 1000  | 1050  | 986   | 1050     | 1070    | 352   | 474   | 1290   | 1390  | 840   | 1420  |
| 30                | 2150   | 1000  | 966   | 649   | ---      | 1110    | 1090  | 671   | 1320   | 1360  | 1310  | 1080  |
| 31                | 1430   | ---   | 984   | 586   | ---      | 1060    | ---   | 1040  | ---    | 991   | 1320  | ---   |
| TOTAL             | 56609  | 41176 | 33951 | 32619 | 28750    | 28685   | 30251 | 28410 | 31964  | 38078 | 38309 | 37234 |
| MEAN              | 1826   | 1373  | 1095  | 1052  | 991      | 925     | 1008  | 916   | 1065   | 1228  | 1236  | 1241  |
| MAX               | 3540   | 2300  | 1700  | 3410  | 3010     | 1280    | 2250  | 1190  | 1320   | 1700  | 1800  | 2760  |
| MIN               | 647    | 682   | 500   | 462   | 551      | 553     | 352   | 453   | 570    | 331   | 496   | 643   |
| CAL YR 1987 TOTAL | 575559 |       |       | 1577  | MAX 4200 | MIN 500 | MEAN† | 1493  | CFSMT† | 1.22  | INT†  | 16.61 |
| WTR YR 1988 TOTAL | 426036 |       |       | 1164  | MAX 3540 | MIN 331 | MEAN† | 961   | CFSMT† | .79   | INT†  | 10.72 |

†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 mi<sup>2</sup>, 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.--Estimated daily discharges: June 12-17, June 20-22, Aug. 3-5. Records good, except those less than 50 ft<sup>3</sup>/s, which are fair and those for the periods of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--28 years, 111 ft<sup>3</sup>/s, 20.94 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft<sup>3</sup>/s, Feb. 3, 1982, gage height, 13.05 ft; minimum daily, 1.7 ft<sup>3</sup>/s, July 22, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft<sup>3</sup>/s and maximum (\*).

| Date                                                      | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|-----------------------------------------------------------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Sept. 13                                                  | 1200 | *2,080                            | *10.10              | No other peak greater than base discharge. |      |                                   |                     |
| Minimum daily discharge, 1.9 ft <sup>3</sup> /s, July 20. |      |                                   |                     |                                            |      |                                   |                     |

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           | 27    | 13      | 37   | 69   | 58   | 51   | 63   | 47   | 16    | 4.1   | 9.7   | 5.5    |
| 2           | 23    | 13      | 34   | 95   | 88   | 50   | 90   | 45   | 15    | 4.8   | 8.5   | 4.4    |
| 3           | 20    | 15      | 34   | 72   | 228  | 53   | 65   | 42   | 15    | 6.1   | 15    | 5.7    |
| 4           | 17    | 15      | 33   | 79   | 406  | 58   | 75   | 45   | 15    | 13    | 25    | 70     |
| 5           | 18    | 15      | 30   | 63   | 264  | 56   | 60   | 47   | 14    | 11    | 40    | 60     |
| 6           | 19    | 13      | 30   | 54   | 132  | 51   | 57   | 41   | 14    | 9.1   | 15    | 26     |
| 7           | 19    | 13      | 31   | 53   | 100  | 49   | 55   | 38   | 13    | 6.9   | 9.5   | 17     |
| 8           | 15    | 14      | 31   | 60   | 91   | 50   | 49   | 37   | 13    | 4.8   | 19    | 12     |
| 9           | 15    | 14      | 31   | 56   | 80   | 73   | 47   | 37   | 13    | 3.8   | 12    | 12     |
| 10          | 14    | 30      | 43   | 51   | 74   | 104  | 47   | 44   | 12    | 3.1   | 9.8   | 15     |
| 11          | 14    | 31      | 43   | 51   | 69   | 73   | 88   | 39   | 12    | 2.6   | 9.9   | 20     |
| 12          | 14    | 19      | 36   | 50   | 66   | 63   | 401  | 33   | 11    | 3.5   | 8.6   | 370    |
| 13          | 14    | 15      | 33   | 62   | 61   | 104  | 341  | 33   | 11    | 3.7   | 8.3   | 1590   |
| 14          | 13    | 17      | 33   | 78   | 60   | 73   | 121  | 32   | 10    | 3.1   | 6.5   | 505    |
| 15          | 13    | 17      | 85   | 60   | 62   | 62   | 93   | 32   | 10    | 3.3   | 5.7   | 88     |
| 16          | 13    | 17      | 76   | 52   | 61   | 57   | 77   | 33   | 11    | 2.6   | 5.2   | 57     |
| 17          | 12    | 120     | 48   | 113  | 57   | 56   | 67   | 31   | 10    | 2.3   | 4.7   | 119    |
| 18          | 12    | 98      | 41   | 284  | 56   | 58   | 94   | 30   | 11    | 2.1   | 4.0   | 104    |
| 19          | 12    | 51      | 38   | 207  | 60   | 68   | 200  | 27   | 15    | 2.2   | 3.6   | 69     |
| 20          | 12    | 41      | 39   | 545  | 60   | 57   | 109  | 25   | 11    | 1.9   | 14    | 54     |
| 21          | 12    | 36      | 47   | 660  | 56   | 53   | 81   | 24   | 9.7   | 2.0   | 49    | 52     |
| 22          | 12    | 34      | 54   | 193  | 53   | 52   | 71   | 23   | 8.0   | 29    | 20    | 40     |
| 23          | 12    | 34      | 43   | 115  | 55   | 51   | 71   | 24   | 5.6   | 181   | 34    | 35     |
| 24          | 13    | 32      | 57   | 93   | 56   | 49   | 118  | 23   | 5.5   | 54    | 27    | 32     |
| 25          | 13    | 32      | 120  | 91   | 53   | 58   | 79   | 25   | 5.6   | 26    | 16    | 30     |
| 26          | 12    | 39      | 70   | 78   | 51   | 76   | 74   | 23   | 6.3   | 18    | 12    | 28     |
| 27          | 19    | 66      | 60   | 67   | 51   | 57   | 64   | 20   | 6.2   | 14    | 8.8   | 29     |
| 28          | 21    | 46      | 150  | 64   | 52   | 52   | 55   | 19   | 5.3   | 14    | 7.4   | 26     |
| 29          | 15    | 43      | 118  | 63   | 51   | 49   | 50   | 18   | 4.9   | 16    | 6.6   | 24     |
| 30          | 13    | 39      | 72   | 60   | ---  | 48   | 47   | 17   | 4.5   | 14    | 6.4   | 23     |
| 31          | 12    | ---     | 59   | 60   | ---  | 48   | ---  | 16   | ---   | 11    | 6.2   | ---    |
| TOTAL       | 470   | 982     | 1656 | 3698 | 2611 | 1859 | 2909 | 970  | 313.6 | 473.0 | 427.4 | 3522.6 |
| MEAN        | 15.2  | 32.7    | 53.4 | 119  | 90.0 | 60.0 | 97.0 | 31.3 | 10.5  | 15.3  | 13.8  | 117    |
| MAX         | 27    | 120     | 150  | 660  | 406  | 104  | 401  | 47   | 16    | 181   | 49    | 1590   |
| MIN         | 12    | 13      | 30   | 50   | 51   | 48   | 47   | 16   | 4.5   | 1.9   | 3.6   | 4.4    |
| CFSM        | .21   | .45     | .74  | 1.65 | 1.25 | .83  | 1.35 | .44  | .15   | .21   | .19   | 1.63   |
| IN.         | .24   | .51     | .86  | 1.91 | 1.35 | .96  | 1.50 | .50  | .16   | .24   | .22   | 1.82   |
| CAL YR 1987 | TOTAL | 29335.0 | MEAN | 80.4 | MAX  | 2110 | MIN  | 5.4  | CFSM  | 1.12  | IN    | 15.16  |
| WTR YR 1988 | TOTAL | 19891.6 | MEAN | 54.3 | MAX  | 1590 | MIN  | 1.9  | CFSM  | .75   | IN    | 10.28  |

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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 mi<sup>2</sup>, 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: Feb. 8-10. Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,710 ft<sup>3</sup>/s, Oct. 25, 1986, gage height, 12.01 ft; minimum daily discharge, 0.79 ft<sup>3</sup>/s, July 20, 1988.

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 ft<sup>3</sup>/s, from rating curve extended above 1,100 ft<sup>3</sup>/s and computation of peak flow at site upstream. Flood of Feb. 4, 1982 reached a stage of 20.0 ft, discharge 3,650 ft<sup>3</sup>/s, from rating curve extended above 1,100 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Jan. 20 | 0430 | *1,330                            | *10.21              | Apr. 12 | 0330 | 1,230                             | 9.70                |
| Feb. 2  | 2145 | 1,000                             | 8.53                | July 23 | 0215 | 1,250                             | 9.78                |
| Feb. 4  | 0830 | 1,100                             | 9.03                |         |      |                                   |                     |

Minimum daily discharge, 0.79 ft<sup>3</sup>/s, July 20.

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           | 11    | 6.2      | 13   | 40        | 23      | 17      | 25        | 20       | 6.9   | 2.8    | 10    | 6.1   |
| 2           | 8.2   | 6.5      | 13   | 25        | 209     | 18      | 18        | 18       | 6.6   | 2.6    | 8.9   | 4.9   |
| 3           | 6.6   | 6.3      | 13   | 24        | 208     | 17      | 19        | 17       | 6.3   | 3.5    | 25    | 67    |
| 4           | 6.2   | 7.8      | 12   | 27        | 548     | 28      | 26        | 27       | 6.1   | 4.7    | 87    | 276   |
| 5           | 7.1   | 6.8      | 12   | 18        | 87      | 18      | 16        | 18       | 5.4   | 5.1    | 272   | 43    |
| 6           | 10    | 5.3      | 12   | 16        | 47      | 17      | 22        | 16       | 5.2   | 3.8    | 45    | 16    |
| 7           | 9.1   | 5.9      | 13   | 17        | 39      | 17      | 16        | 16       | 5.1   | 2.9    | 19    | 13    |
| 8           | 7.8   | 6.5      | 13   | 20        | 36      | 17      | 15        | 16       | 4.9   | 2.0    | 28    | 11    |
| 9           | 5.5   | 6.7      | 13   | 17        | 32      | 103     | 15        | 15       | 4.5   | 2.0    | 17    | 11    |
| 10          | 5.8   | 64       | 24   | 25        | 28      | 77      | 15        | 40       | 4.2   | 1.7    | 14    | 13    |
| 11          | 5.7   | 12       | 14   | 23        | 28      | 23      | 184       | 16       | 4.3   | 1.5    | 13    | 13    |
| 12          | 5.4   | 10       | 13   | 20        | 27      | 19      | 422       | 14       | 4.2   | 2.2    | 7.1   | 29    |
| 13          | 5.6   | 9.5      | 12   | 29        | 25      | 54      | 61        | 14       | 4.2   | 1.4    | 4.4   | 19    |
| 14          | 5.3   | 9.6      | 13   | 20        | 24      | 21      | 39        | 13       | 3.9   | 15     | 4.2   | 11    |
| 15          | 5.7   | 9.5      | 204  | 18        | 25      | 19      | 32        | 13       | 4.5   | 8.6    | 3.9   | 9.9   |
| 16          | 5.3   | 9.8      | 27   | 16        | 23      | 19      | 27        | 13       | 3.6   | 2.7    | 3.9   | 14    |
| 17          | 5.1   | 238      | 20   | 237       | 22      | 18      | 26        | 12       | 3.3   | 2.0    | 3.7   | 50    |
| 18          | 4.9   | 23       | 18   | 77        | 21      | 27      | 138       | 11       | 3.5   | 1.6    | 3.6   | 14    |
| 19          | 4.7   | 17       | 16   | 125       | 23      | 23      | 225       | 11       | 6.6   | .93    | 3.5   | 11    |
| 20          | 5.2   | 15       | 20   | 548       | 21      | 18      | 40        | 11       | 4.9   | .79    | 92    | 10    |
| 21          | 5.1   | 14       | 35   | 75        | 20      | 17      | 30        | 10       | 7.8   | 55     | 18    | 9.2   |
| 22          | 4.8   | 14       | 21   | 45        | 20      | 16      | 33        | 13       | 4.1   | 151    | 5.8   | 7.8   |
| 23          | 8.1   | 13       | 16   | 36        | 21      | 16      | 77        | 14       | 3.9   | 301    | 33    | 7.3   |
| 24          | 6.5   | 13       | 39   | 32        | 24      | 16      | 34        | 14       | 3.4   | 21     | 95    | 6.9   |
| 25          | 6.2   | 13       | 22   | 43        | 20      | 42      | 40        | 11       | 5.8   | 15     | 9.3   | 6.4   |
| 26          | 5.9   | 22       | 19   | 29        | 18      | 22      | 29        | 10       | 5.4   | 19     | 8.2   | 6.1   |
| 27          | 26    | 17       | 18   | 26        | 19      | 17      | 22        | 9.3      | 3.2   | 83     | 8.9   | 5.8   |
| 28          | 8.2   | 15       | 92   | 25        | 18      | 16      | 20        | 8.8      | 2.9   | 22     | 7.6   | 5.4   |
| 29          | 6.2   | 14       | 23   | 25        | 18      | 15      | 19        | 7.8      | 2.7   | 15     | 7.1   | 5.7   |
| 30          | 6.2   | 14       | 18   | 24        | ---     | 16      | 19        | 7.4      | 2.2   | 12     | 7.0   | 5.1   |
| 31          | 5.9   | ---      | 16   | 24        | ---     | 15      | ---       | 7.0      | ---   | 10     | 6.4   | ---   |
| TOTAL       | 219.3 | 624.4    | 814  | 1726      | 1674    | 778     | 1704      | 443.3    | 139.6 | 771.82 | 871.5 | 707.6 |
| MEAN        | 7.07  | 20.8     | 26.3 | 55.7      | 57.7    | 25.1    | 56.8      | 14.3     | 4.65  | 24.9   | 28.1  | 23.6  |
| MAX         | 26    | 238      | 204  | 548       | 548     | 103     | 422       | 40       | 7.8   | 301    | 272   | 276   |
| MIN         | 4.7   | 5.3      | 12   | 16        | 18      | 15      | 15        | 7.0      | 2.2   | .79    | 3.5   | 4.9   |
| CFSM        | .24   | .71      | .90  | 1.91      | 1.98    | .86     | 1.95      | .49      | .16   | .85    | .96   | .81   |
| IN.         | .28   | .80      | 1.04 | 2.20      | 2.13    | .99     | 2.17      | .56      | .18   | .98    | 1.11  | .90   |
| CAL YR 1987 | TOTAL | 14210.20 |      | MEAN 38.9 | MAX 816 | MIN 3.7 | CFSM 1.33 | IN 18.10 |       |        |       |       |
| WTR YR 1988 | TOTAL | 10473.52 |      | MEAN 28.6 | MAX 548 | MIN .79 | CFSM .98  | IN 13.34 |       |        |       |       |

## 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 mi<sup>2</sup>, 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.--55 years (water years 1929-31, 1937-88), 2,542 ft<sup>3</sup>/s, 23.81 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft<sup>3</sup>/s, Jan. 9, 1946, gage height, 28.0 ft; minimum daily, 296 ft<sup>3</sup>/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, 9,920 ft<sup>3</sup>/s, Feb. 4, maximum gage height, 9.48 ft Jan. 20, minimum daily discharge, 866 ft<sup>3</sup>/s, May 30.

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                 | 2870   | 1080  | 1080  | 1260  | 1030  | 1000  | 1300  | 960   | 887   | 1350  | 1180  | 1190  |       |
| 2                 | 2870   | 1150  | 1310  | 1320  | 1330  | 1040  | 1360  | 914   | 891   | 1100  | 1330  | 1250  |       |
| 3                 | 2320   | 1810  | 1270  | 1140  | 2000  | 1100  | 1050  | 935   | 893   | 1090  | 1350  | 1410  |       |
| 4                 | 1160   | 2020  | 1270  | 1130  | 5540  | 1090  | 1070  | 1020  | 1050  | 1100  | 1730  | 2320  |       |
| 5                 | 1250   | 2070  | 1210  | 1080  | 2470  | 1060  | 1040  | 1190  | 939   | 1510  | 2380  | 1630  |       |
| 6                 | 2460   | 1970  | 1260  | 1070  | 1450  | 963   | 1270  | 1200  | 919   | 1320  | 1550  | 1210  |       |
| 7                 | 2780   | 1610  | 1070  | 1090  | 1080  | 1000  | 1290  | 1020  | 899   | 1280  | 1120  | 1080  |       |
| 8                 | 2510   | 1120  | 1070  | 1080  | 1050  | 1040  | 1220  | 998   | 929   | 1250  | 1160  | 1220  |       |
| 9                 | 2470   | 1090  | 1120  | 1080  | 1130  | 1370  | 1060  | 1000  | 1070  | 1140  | 1420  | 1420  |       |
| 10                | 1630   | 1990  | 1330  | 1090  | 1280  | 1620  | 985   | 1150  | 1050  | 962   | 1330  | 1320  |       |
| 11                | 1110   | 1440  | 1350  | 1080  | 1140  | 1120  | 1450  | 1050  | 1060  | 1070  | 1390  | 1120  |       |
| 12                | 1170   | 1190  | 1190  | 1050  | 1090  | 1100  | 3680  | 1160  | 910   | 1410  | 1330  | 1600  |       |
| 13                | 1650   | 1230  | 1070  | 1110  | 1060  | 1120  | 1840  | 1120  | 912   | 1290  | 1170  | 3240  |       |
| 14                | 1840   | 1160  | 1120  | 1360  | 1090  | 1020  | 1550  | 1010  | 906   | 1460  | 962   | 2180  |       |
| 15                | 1770   | 1290  | 2100  | 1490  | 1070  | 1040  | 1360  | 984   | 946   | 1370  | 967   | 1790  |       |
| 16                | 1830   | 1380  | 1650  | 1240  | 1030  | 1300  | 1230  | 995   | 1290  | 1110  | 1160  | 1370  |       |
| 17                | 1320   | 2640  | 1290  | 1500  | 1070  | 1190  | 1010  | 990   | 1220  | 994   | 1180  | 1990  |       |
| 18                | 1040   | 1690  | 1210  | 1870  | 1050  | 1160  | 1280  | 1070  | 1210  | 1100  | 1260  | 1270  |       |
| 19                | 1110   | 1270  | 1300  | 2130  | 1070  | 1200  | 2460  | 1120  | 1310  | 1320  | 1300  | 1360  |       |
| 20                | 1750   | 1290  | 1160  | 6220  | 1050  | 1010  | 1600  | 1120  | 1080  | 1260  | 1370  | 1540  |       |
| 21                | 1950   | 1230  | 1210  | 2810  | 1030  | 1020  | 1420  | 1090  | 1370  | 1350  | 1380  | 1450  |       |
| 22                | 1920   | 1360  | 1140  | 1860  | 1010  | 1040  | 1350  | 1020  | 1320  | 1670  | 945   | 1390  |       |
| 23                | 1940   | 1300  | 1080  | 1500  | 1030  | 1080  | 1290  | 964   | 1270  | 3180  | 1120  | 1470  |       |
| 24                | 1560   | 1520  | 1110  | 1110  | 1060  | 1120  | 1090  | 974   | 1170  | 1340  | 1980  | 1250  |       |
| 25                | 1060   | 1220  | 1260  | 1090  | 1020  | 1340  | 1080  | 978   | 1410  | 1010  | 1270  | 1230  |       |
| 26                | 1080   | 1280  | 1170  | 1080  | 1020  | 1300  | 1120  | 954   | 1150  | 1000  | 1270  | 1110  |       |
| 27                | 1840   | 1340  | 1100  | 1060  | 1100  | 1020  | 1250  | 955   | 1140  | 1440  | 1170  | 1110  |       |
| 28                | 2040   | 1310  | 1290  | 1060  | 1040  | 979   | 1320  | 1010  | 1350  | 1480  | 1090  | 1120  |       |
| 29                | 2120   | 1140  | 1520  | 1030  | 1010  | 1110  | 1080  | 872   | 1310  | 1380  | 1040  | 1120  |       |
| 30                | 2040   | 1080  | 1120  | 1030  | ---   | 1020  | 960   | 866   | 1270  | 1220  | 1020  | 979   |       |
| 31                | 1610   | ---   | 1130  | 1010  | ---   | 1090  | ---   | 879   | ---   | 992   | 1090  | ---   |       |
| TOTAL             | 56070  | 43270 | 38560 | 45030 | 38400 | 34662 | 41065 | 31568 | 33131 | 40548 | 40014 | 43739 |       |
| MEAN              | 1809   | 1442  | 1244  | 1453  | 1324  | 1118  | 1369  | 1018  | 1104  | 1308  | 1291  | 1458  |       |
| MAX               | 2870   | 2640  | 2100  | 6220  | 5540  | 1620  | 3680  | 1200  | 1410  | 3180  | 2380  | 3240  |       |
| MIN               | 1040   | 1080  | 1070  | 1010  | 1010  | 963   | 960   | 866   | 887   | 962   | 945   | 979   |       |
| CAL YR 1987 TOTAL | 651504 |       |       | 1785  | 11300 | 927   |       |       | 1701  | CFSMT | 1.17  | INT   | 15.92 |
| WTR YR 1988 TOTAL | 486057 |       |       | 1328  | 6220  | 866   |       |       | 1125  | CFSMT | .78   | INT   | 10.56 |

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.



## APALACHICOLA RIVER BASIN

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02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to September 1979; September 1988 to current year.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| SEP   |      |                                                        |                                                 |                                                   |                                                          |                                |                                      |                                     |                                     |                                                                 |                                                           |
| 12... | 0905 | 81213                                                  | 1070                                            | 58                                                | 55                                                       | 7.20                           | 17.0                                 | 8.6                                 | 91                                  | 16                                                              | 13                                                        |
| 26... | 0730 | 81213                                                  | 1040                                            | 58                                                | 56                                                       | 7.22                           | 18.0                                 | 8.0                                 | 86                                  | 15                                                              | 16                                                        |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|--------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| SEP   |                                                        |                                              |                                                     |                                                                    |                                                                     |                                            |                                                      |
| 12... | 81213                                                  | 3.5                                          | 1.4                                                 | 33                                                                 | 13                                                                  | 110                                        | 20                                                   |
| 26... | 81213                                                  | 3.7                                          | 3.2                                                 | 42                                                                 | 12                                                                  | 160                                        | 10                                                   |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHOPHOS-<br>PHATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------|
| SEP   |                                                        |                                                               |                                                               |                                                               |                                                               |                                                                             |                                                   |                                             |                                                                             |                                               |
| 12... | 81213                                                  | 0.010                                                         | 0.650                                                         | 0.010                                                         | 0.42                                                          | 0.43                                                                        | 1.08                                              | 0.110                                       | 0.080                                                                       | 0.1                                           |
| 26... | 81213                                                  | 0.010                                                         | 0.660                                                         | <0.010                                                        | --                                                            | 0.29                                                                        | --                                                | 0.110                                       | 0.070                                                                       | 1.9                                           |



## APALACHICOLA RIVER BASIN

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                                   |                                                          |                                |                                      |                                     |                                                                |                                                                 |                                                           |
| 12... | 2230 | 81213                                                  | 2150                                            | 56                                                | 53                                                       | 7.17                           | 13.5                                 | 9.5                                 | 93                                                             | 15                                                              | 15                                                        |
| 20... | 0740 | 81213                                                  | 960                                             | 57                                                | 55                                                       | 6.80                           | 13.0                                 | 9.3                                 | 90                                                             | 14                                                              | 15                                                        |
| 20... | 2110 | 81213                                                  | 1710                                            | 57                                                | 55                                                       | 7.21                           | 14.5                                 | 9.2                                 | 92                                                             | 16                                                              | 15                                                        |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|--------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| OCT   |                                                        |                                              |                                                     |                                                                    |                                                                     |                                            |                                                      |
| 12... | 81213                                                  | 3.6                                          | 2.2                                                 | 53                                                                 | 39                                                                  | 800                                        | 130                                                  |
| 20... | 81213                                                  | 3.6                                          | 2.4                                                 | 43                                                                 | 13                                                                  | 80                                         | 20                                                   |
| 20... | 81213                                                  | 3.7                                          | 3.2                                                 | 47                                                                 | 32                                                                  | 70                                         | 20                                                   |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|
| OCT   |                                                        |                                                               |                                                       |                                                               |                                                               |                                                                             |                                                   |                                             |                                                      |                                               |
| 12... | 81213                                                  | <0.010                                                        | 0.560                                                 | 0.010                                                         | 0.25                                                          | 0.26                                                                        | 0.82                                              | 0.120                                       | 0.080                                                | 1.6                                           |
| 20... | 81213                                                  | <0.010                                                        | 0.560                                                 | 0.010                                                         | --                                                            | <0.20                                                                       | --                                                | 0.100                                       | 0.070                                                | 2.3                                           |
| 20... | 81213                                                  | <0.010                                                        | 0.630                                                 | 0.010                                                         | --                                                            | <0.20                                                                       | --                                                | 0.130                                       | 0.070                                                | 1.6                                           |

## 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 North-side Drive at Atlanta, 0.4 mi downstream from Tanyard Branch, and 4 mi upstream from mouth.  
DRAINAGE AREA.--86.8 mi<sup>2</sup>.

## 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. 1-26, Oct. 28-Nov. 9, and May 27-31. Records fair, except those of questionable or no gage-height record, which are fair to poor.

AVERAGE DISCHARGE.--30 years, 133 ft<sup>3</sup>/s, 20.81 in/yr.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,660 ft<sup>3</sup>/s, Mar. 16, 1976, gage height, 20.30 ft; minimum daily discharge, 6.0 ft<sup>3</sup>/s, Oct. 3, 4, 1981.EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Jan. 20 | 0400 | 4,400                             | 14.06               | Apr. 11 | 2315 | *5,300                            | *15.45              |
| Feb. 4  | 0845 | 2,760                             | 11.15               |         |      |                                   |                     |

Minimum daily discharge, 6.2 ft<sup>3</sup>/s, July 20.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                 | 35      | 14   | 22   | 107       | 60   | 32       | 79      | 36        | 19       | 10    | 304  | 13   |
| 2                 | 27      | 13   | 21   | 109       | 196  | 32       | 60      | 35        | 19       | 14    | 387  | 12   |
| 3                 | 20      | 13   | 20   | 129       | 663  | 32       | 58      | 32        | 17       | 13    | 241  | 70   |
| 4                 | 16      | 14   | 21   | 121       | 1370 | 52       | 125     | 108       | 15       | 12    | 176  | 741  |
| 5                 | 15      | 14   | 20   | 45        | 187  | 37       | 35      | 51        | 14       | 12    | 200  | 403  |
| 6                 | 14      | 13   | 20   | 39        | 93   | 32       | 76      | 32        | 14       | 11    | 36   | 43   |
| 7                 | 13      | 12   | 19   | 42        | 73   | 32       | 38      | 29        | 13       | 10    | 56   | 24   |
| 8                 | 12      | 12   | 19   | 44        | 63   | 30       | 27      | 29        | 13       | 9.0   | 228  | 18   |
| 9                 | 11      | 14   | 19   | 46        | 56   | 237      | 24      | 29        | 57       | 8.4   | 72   | 70   |
| 10                | 12      | 393  | 53   | 90        | 51   | 184      | 22      | 155       | 34       | 7.7   | 74   | 45   |
| 11                | 12      | 42   | 26   | 83        | 48   | 47       | 690     | 49        | 14       | 18    | 28   | 33   |
| 12                | 11      | 34   | 21   | 57        | 49   | 36       | 1060    | 32        | 13       | 17    | 26   | 17   |
| 13                | 11      | 28   | 20   | 92        | 45   | 276      | 134     | 32        | 13       | 10    | 16   | 14   |
| 14                | 12      | 22   | 39   | 56        | 42   | 52       | 80      | 30        | 13       | 41    | 13   | 13   |
| 15                | 13      | 24   | 680  | 39        | 66   | 37       | 62      | 28        | 13       | 41    | 23   | 11   |
| 16                | 14      | 21   | 84   | 36        | 57   | 32       | 53      | 67        | 17       | 11    | 14   | 39   |
| 17                | 13      | 738  | 45   | 576       | 41   | 30       | 46      | 43        | 82       | 22    | 12   | 456  |
| 18                | 12      | 76   | 36   | 251       | 39   | 99       | 475     | 29        | 72       | 9.1   | 12   | 59   |
| 19                | 11      | 39   | 33   | 147       | 80   | 95       | 547     | 27        | 135      | 7.4   | 23   | 25   |
| 20                | 11      | 39   | 59   | 2240      | 46   | 36       | 86      | 27        | 53       | 6.2   | 112  | 22   |
| 21                | 10      | 33   | 198  | 239       | 38   | 32       | 54      | 27        | 34       | 37    | 286  | 19   |
| 22                | 10      | 28   | 167  | 146       | 36   | 30       | 69      | 27        | 18       | 70    | 37   | 14   |
| 23                | 11      | 24   | 50   | 114       | 38   | 30       | 166     | 40        | 15       | 242   | 49   | 13   |
| 24                | 12      | 22   | 60   | 96        | 41   | 29       | 91      | 82        | 13       | 24    | 92   | 16   |
| 25                | 13      | 21   | 61   | 136       | 34   | 177      | 181     | 46        | 45       | 13    | 28   | 13   |
| 26                | 12      | 92   | 39   | 86        | 33   | 99       | 128     | 30        | 49       | 9.9   | 20   | 12   |
| 27                | 189     | 57   | 40   | 73        | 33   | 35       | 51      | 25        | 16       | 25    | 15   | 12   |
| 28                | 36      | 33   | 447  | 71        | 32   | 29       | 42      | 23        | 13       | 74    | 13   | 11   |
| 29                | 27      | 30   | 77   | 64        | 32   | 27       | 39      | 22        | 12       | 78    | 13   | 11   |
| 30                | 20      | 24   | 49   | 65        | ---  | 27       | 36      | 20        | 12       | 48    | 13   | 11   |
| 31                | 18      | ---  | 41   | 61        | ---  | 26       | ---     | 19        | ---      | 17    | 15   | ---  |
| TOTAL             | 653     | 1939 | 2506 | 5500      | 3642 | 1981     | 4634    | 1261      | 867      | 927.7 | 2634 | 2260 |
| MEAN              | 21.1    | 64.6 | 80.8 | 177       | 126  | 63.9     | 154     | 40.7      | 28.9     | 29.9  | 85.0 | 75.3 |
| MAX               | 189     | 738  | 680  | 2240      | 1370 | 276      | 1060    | 155       | 135      | 242   | 387  | 741  |
| MIN               | 10      | 12   | 19   | 36        | 32   | 26       | 22      | 19        | 12       | 6.2   | 12   | 11   |
| CFSM              | .24     | .74  | .93  | 2.04      | 1.45 | .74      | 1.77    | .47       | .33      | .34   | .98  | .87  |
| IN.               | .28     | .83  | 1.07 | 2.36      | 1.56 | .85      | 1.99    | .54       | .37      | .40   | 1.13 | .97  |
| CAL YR 1987 TOTAL | 42201.0 |      |      | 116       |      | MAX 3900 | MIN 10  | CFSM 1.34 | IN 18.09 |       |      |      |
| WTR YR 1988 TOTAL | 28804.7 |      |      | MEAN 78.7 |      | MAX 2240 | MIN 6.2 | CFSM .91  | IN 12.34 |       |      |      |

## APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | ---  | ---  | 2.91 | 3.57 | 3.45 | 3.16 | 3.48 | 3.12 | 2.79 | 2.69 | 3.81 | 2.82 |
| 2    | ---  | ---  | 2.90 | 3.64 | 4.08 | 3.15 | 3.42 | 3.11 | 2.79 | 2.74 | 4.76 | 2.81 |
| 3    | ---  | ---  | 2.89 | 3.73 | 5.71 | 3.15 | 3.33 | 3.07 | 2.77 | 2.75 | 4.16 | 3.10 |
| 4    | ---  | ---  | 2.90 | 3.71 | 7.82 | 3.35 | 3.78 | 3.60 | 2.74 | 2.72 | 3.71 | 6.03 |
| 5    | ---  | ---  | 2.89 | 3.17 | 4.13 | 3.21 | 3.20 | 3.27 | 2.73 | 2.75 | 4.07 | 4.83 |
| 6    | ---  | ---  | 2.89 | 3.10 | 3.68 | 3.15 | 3.51 | 3.07 | 2.72 | 2.71 | 3.15 | 3.28 |
| 7    | ---  | ---  | 2.87 | 3.13 | 3.55 | 3.16 | 3.23 | 3.03 | 2.71 | 2.69 | 3.25 | 3.07 |
| 8    | ---  | ---  | 2.88 | 3.16 | 3.48 | 3.13 | 3.10 | 3.02 | 2.71 | 2.67 | 4.05 | 2.98 |
| 9    | ---  | ---  | 2.88 | 3.18 | 3.42 | 4.29 | 3.06 | 3.02 | 3.11 | 2.66 | 3.41 | 3.46 |
| 10   | ---  | 4.77 | 3.26 | 3.52 | 3.38 | 4.07 | 3.04 | 3.84 | 3.02 | 2.64 | 3.31 | 3.30 |
| 11   | ---  | 3.19 | 2.98 | 3.48 | 3.35 | 3.32 | 5.12 | 3.23 | 2.72 | 2.80 | 3.05 | 3.18 |
| 12   | ---  | 3.11 | 2.90 | 3.29 | 3.36 | 3.20 | 6.66 | 3.05 | 2.71 | 2.86 | 3.03 | 2.96 |
| 13   | ---  | 3.04 | 2.89 | 3.55 | 3.31 | 4.46 | 3.89 | 3.05 | 2.71 | 2.72 | 2.88 | 2.90 |
| 14   | ---  | 2.94 | 3.04 | 3.28 | 3.29 | 3.36 | 3.60 | 3.01 | 2.71 | 3.01 | 2.82 | 2.87 |
| 15   | ---  | 2.97 | 5.90 | 3.12 | 3.48 | 3.21 | 3.47 | 3.00 | 2.70 | 3.14 | 2.98 | 2.84 |
| 16   | ---  | 2.92 | 3.48 | 3.08 | 3.41 | 3.16 | 3.39 | 3.30 | 2.75 | 2.74 | 2.84 | 3.18 |
| 17   | ---  | 5.95 | 3.15 | 5.19 | 3.26 | 3.13 | 3.33 | 3.15 | 3.43 | 2.91 | 2.80 | 5.09 |
| 18   | ---  | 3.46 | 3.05 | 4.36 | 3.25 | 3.56 | 5.07 | 2.99 | 3.23 | 2.69 | 2.79 | 3.40 |
| 19   | ---  | 3.16 | 3.02 | 3.94 | 3.58 | 3.63 | 5.42 | 2.97 | 3.71 | 2.64 | 2.91 | 3.08 |
| 20   | ---  | 3.15 | 3.26 | 9.51 | 3.32 | 3.21 | 3.63 | 2.96 | 3.15 | 2.61 | 3.41 | 3.03 |
| 21   | ---  | 3.09 | 4.04 | 4.36 | 3.24 | 3.16 | 3.39 | 2.96 | 3.04 | 2.91 | 4.39 | 3.00 |
| 22   | ---  | 3.01 | 3.95 | 3.94 | 3.21 | 3.14 | 3.45 | 2.95 | 2.81 | 3.38 | 3.17 | 2.90 |
| 23   | ---  | 2.95 | 3.21 | 3.79 | 3.23 | 3.14 | 4.01 | 3.11 | 2.76 | 4.25 | 3.27 | 2.88 |
| 24   | ---  | 2.92 | 3.27 | 3.69 | 3.26 | 3.13 | 3.58 | 3.39 | 2.74 | 2.97 | 3.58 | 2.93 |
| 25   | ---  | 2.92 | 3.30 | 3.89 | 3.19 | 3.88 | 3.90 | 3.17 | 2.96 | 2.78 | 3.05 | 2.88 |
| 26   | ---  | 3.45 | 3.09 | 3.63 | 3.17 | 3.65 | 3.77 | 2.99 | 3.14 | 2.71 | 2.93 | 2.85 |
| 27   | 4.06 | 3.31 | 3.11 | 3.54 | 3.18 | 3.20 | 3.29 | ---  | 2.79 | 2.89 | 2.87 | 2.85 |
| 28   | ---  | 3.08 | 5.06 | 3.53 | 3.17 | 3.12 | 3.19 | ---  | 2.73 | 3.40 | 2.83 | 2.84 |
| 29   | ---  | 3.03 | 3.44 | 3.49 | 3.16 | 3.11 | 3.16 | ---  | 2.71 | 3.40 | 2.82 | 2.84 |
| 30   | ---  | 2.94 | 3.20 | 3.50 | ---  | 3.09 | 3.13 | ---  | 2.71 | 3.21 | 2.81 | 2.84 |
| 31   | ---  | ---  | 3.11 | 3.46 | ---  | 3.08 | ---  | ---  | ---  | 2.85 | 2.86 | ---  |
| MEAN | ---  | ---  | 3.28 | 3.79 | 3.62 | 3.35 | 3.72 | ---  | 2.88 | 2.90 | 3.28 | 3.23 |
| MAX  | ---  | ---  | 5.90 | 9.51 | 7.82 | 4.46 | 6.66 | ---  | 3.71 | 4.25 | 4.76 | 6.03 |
| MIN  | ---  | ---  | 2.87 | 3.08 | 3.16 | 3.08 | 3.04 | ---  | 2.70 | 2.61 | 2.79 | 2.81 |

## APALACHICOLA RIVER BASIN

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02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to May 1972, July 1975 to current year.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0815 | 13                                              | 185                                               | 173                                                      | 7.20                           | 7.20                                  | 13.0                                 | 10.5                               | 8.0                                 | 78                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 0900 | 14                                              | 199                                               | 191                                                      | 7.20                           | 7.30                                  | 14.5                                 | 17.0                               | 7.3                                 | 73                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 0915 | 21                                              | 168                                               | 159                                                      | 7.20                           | 7.60                                  | 6.0                                  | 7.5                                | 10.3                                | 84                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0945 | 39                                              | 139                                               | 136                                                      | 7.20                           | 7.00                                  | 2.5                                  | 3.5                                | 11.2                                | 83                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 0940 | 239                                             | 76                                                | 72                                                       | 7.00                           | 6.90                                  | 14.5                                 | 17.5                               | 8.5                                 | 85                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1030 | 32                                              | 162                                               | 159                                                      | 7.20                           | 7.50                                  | 9.0                                  | 15.0                               | 11.4                                | 100                                                            |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 0815 | 35                                              | 115                                               | 117                                                      | 7.00                           | 7.30                                  | 16.0                                 | 13.0                               | 7.5                                 | 78                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 0800 | 31                                              | 166                                               | 170                                                      | 7.10                           | 7.20                                  | 16.0                                 | 17.0                               | 7.7                                 | 80                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0830 | 13                                              | 202                                               | 191                                                      | 7.00                           | 7.20                                  | 20.5                                 | 20.0                               | 5.8                                 | 66                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0800 | 12                                              | 190                                               | 188                                                      | 7.10                           | 7.10                                  | 21.0                                 | 22.5                               | 5.4                                 | 62                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1415 | 72                                              | 82                                                | 79                                                       | 6.90                           | 6.70                                  | 28.0                                 | 34.0                               | 5.5                                 | 72                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0840 | 24                                              | 122                                               | 120                                                      | 7.10                           | 7.30                                  | 20.0                                 | 20.0                               | 6.4                                 | 72                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 07... | 7.0                          | 1.5                                                            | 7900                                             | 54                                                            | 0.420                                                | 0.380                                                | 0.130                                       | 4.3                                           |
| NOV   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 04... | 5.0                          | 1.1                                                            | 3300                                             | 62                                                            | 0.130                                                | 0.230                                                | 0.140                                       | 16                                            |
| DEC   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 02... | 9.0                          | 2.4                                                            | 20450                                            | 56                                                            | 0.380                                                | 0.300                                                | 0.100                                       | 3.2                                           |
| JAN   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 06... | 8.0                          | 6.6                                                            | --                                               | 44                                                            | 0.470                                                | 0.980                                                | 0.240                                       | 5.1                                           |
| FEB   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 03... | 140                          | 4.7                                                            | 17000                                            | 19                                                            | 0.370                                                | 0.040                                                | 0.250                                       | 9.2                                           |
| MAR   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 02... | 7.0                          | 1.2                                                            | 1300                                             | 46                                                            | 0.610                                                | 0.120                                                | 0.060                                       | 2.2                                           |
| APR   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 05... | 15                           | 1.4                                                            | 4900                                             | 39                                                            | 0.310                                                | 0.140                                                | 0.080                                       | 3.6                                           |
| MAY   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 04... | 9.0                          | 1.1                                                            | --                                               | 49                                                            | 0.560                                                | 0.140                                                | 0.070                                       | 3.1                                           |
| JUN   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 07... | 10                           | 1.0                                                            | --                                               | 64                                                            | 0.400                                                | 0.810                                                | 0.130                                       | 4.1                                           |
| JUL   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 06... | 11                           | 1.9                                                            | 9400                                             | 56                                                            | 0.640                                                | 0.260                                                | 0.090                                       | 5.0                                           |
| AUG   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 03... | 110                          | 3.1                                                            | 49000                                            | 6                                                             | 0.560                                                | 0.240                                                | 0.170                                       | 7.5                                           |
| SEP   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 07... | 12                           | 1.4                                                            | 170000                                           | 35                                                            | 0.410                                                | 0.330                                                | 0.040                                       | 4.2                                           |

## 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 mi<sup>2</sup>, 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.--7 years, 2,345 ft<sup>3</sup>/s, 19.90 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft<sup>3</sup>/s, Feb. 3, 1982, gage height, 28.91 ft; minimum daily discharge, 847 ft<sup>3</sup>/s, May 30, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD: Flood of April 13, 1979, reached a stage of 30.71 ft from floodmarks, discharge, 32,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,900 ft<sup>3</sup>/s, Jan. 20, gage height, 18.26 ft; minimum daily discharge, 847 ft<sup>3</sup>/s, May 30.

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                 | 3100   | 1060  | 1120  | 1430  | 1100  | 1090  | 1440  | 1080  | 858   | 1330  | 1290  | 1130  |
| 2                 | 3080   | 1100  | 1300  | 1620  | 1460  | 1120  | 1550  | 986   | 872   | 1100  | 1980  | 1240  |
| 3                 | 2660   | 1750  | 1330  | 1360  | 3220  | 1190  | 1160  | 1010  | 873   | 1100  | 1800  | 1360  |
| 4                 | 1200   | 2100  | 1300  | 1380  | 8650  | 1230  | 1340  | 1190  | 1010  | 1020  | 1950  | 3620  |
| 5                 | 1230   | 2150  | 1260  | 1190  | 3420  | 1190  | 1140  | 1320  | 905   | 1470  | 2970  | 2640  |
| 6                 | 2400   | 2070  | 1360  | 1140  | 1780  | 1060  | 1380  | 1270  | 880   | 1310  | 1840  | 1280  |
| 7                 | 2910   | 1810  | 1100  | 1170  | 1300  | 1100  | 1430  | 1110  | 874   | 1250  | 1180  | 1140  |
| 8                 | 2620   | 1120  | 1100  | 1170  | 1200  | 1120  | 1280  | 1040  | 881   | 1240  | 1430  | 1190  |
| 9                 | 2600   | 1090  | 1120  | 1170  | 1270  | 1720  | 1210  | 1030  | 1060  | 1160  | 1610  | 1480  |
| 10                | 1970   | 2570  | 1430  | 1250  | 1460  | 2100  | 1060  | 1390  | 1050  | 970   | 1470  | 1440  |
| 11                | 1120   | 1600  | 1410  | 1250  | 1290  | 1330  | 1830  | 1140  | 1050  | 987   | 1460  | 1170  |
| 12                | 1130   | 1250  | 1250  | 1200  | 1230  | 1200  | 6420  | 1160  | 870   | 1360  | 1400  | 1410  |
| 13                | 1580   | 1250  | 1120  | 1300  | 1190  | 1610  | 2290  | 1190  | 876   | 1280  | 1300  | 3420  |
| 14                | 1880   | 1220  | 1140  | 1440  | 1210  | 1170  | 1740  | 1060  | 866   | 1470  | 1010  | 2130  |
| 15                | 1830   | 1310  | 3540  | 1650  | 1230  | 1130  | 1540  | 998   | 877   | 1490  | 990   | 1860  |
| 16                | 1890   | 1400  | 1900  | 1400  | 1190  | 1380  | 1380  | 1060  | 1210  | 1200  | 1110  | 1430  |
| 17                | 1500   | 4220  | 1410  | 2440  | 1190  | 1310  | 1140  | 1040  | 1290  | 998   | 1210  | 2890  |
| 18                | 1020   | 1970  | 1310  | 2630  | 1170  | 1340  | 2140  | 1070  | 1220  | 1030  | 1260  | 1430  |
| 19                | 1070   | 1380  | 1390  | 2550  | 1270  | 1460  | 3480  | 1110  | 1480  | 1280  | 1280  | 1380  |
| 20                | 1670   | 1390  | 1270  | 10200 | 1170  | 1130  | 1910  | 1120  | 1110  | 1250  | 1550  | 1580  |
| 21                | 2020   | 1300  | 1510  | 3680  | 1140  | 1130  | 1620  | 1100  | 1360  | 1380  | 1980  | 1490  |
| 22                | 2060   | 1490  | 1510  | 2250  | 1120  | 1120  | 1520  | 1010  | 1300  | 1700  | 1030  | 1420  |
| 23                | 1940   | 1340  | 1170  | 1740  | 1140  | 1140  | 1690  | 1000  | 1250  | 3960  | 1200  | 1500  |
| 24                | 1770   | 1530  | 1220  | 1270  | 1180  | 1200  | 1370  | 1010  | 1150  | 1420  | 2090  | 1280  |
| 25                | 1040   | 1280  | 1400  | 1300  | 1110  | 1620  | 1400  | 1030  | 1340  | 1050  | 1350  | 1260  |
| 26                | 1080   | 1390  | 1250  | 1210  | 1130  | 1660  | 1420  | 967   | 1460  | 1030  | 1310  | 1150  |
| 27                | 2060   | 1500  | 1200  | 1180  | 1210  | 1140  | 1380  | 943   | 1080  | 1360  | 1240  | 1100  |
| 28                | 2220   | 1400  | 2070  | 1180  | 1130  | 1070  | 1440  | 1010  | 1300  | 1730  | 1110  | 1140  |
| 29                | 2170   | 1230  | 1700  | 1150  | 1120  | 1170  | 1230  | 863   | 1290  | 1510  | 1050  | 1070  |
| 30                | 2140   | 1110  | 1230  | 1150  | ---   | 1100  | 1050  | 847   | 1240  | 1380  | 1020  | 1010  |
| 31                | 1860   | ---   | 1210  | 1130  | ---   | 1160  | ---   | 861   | ---   | 1050  | 1070  | ---   |
| TOTAL             | 58820  | 47380 | 43630 | 56180 | 47280 | 39490 | 50980 | 33015 | 32882 | 41865 | 44540 | 47640 |
| MEAN              | 1897   | 1579  | 1407  | 1812  | 1630  | 1274  | 1699  | 1065  | 1096  | 1350  | 1437  | 1588  |
| MAX               | 3100   | 4220  | 3540  | 10200 | 8650  | 2100  | 6420  | 1390  | 1480  | 3960  | 2970  | 3620  |
| MIN               | 1020   | 1060  | 1100  | 1130  | 1100  | 1060  | 1050  | 847   | 858   | 970   | 990   | 1010  |
| CAL YR 1987 TOTAL | 746950 |       |       | 2046  | 15800 |       |       | 1962  |       |       |       |       |
| WTR YR 1988 TOTAL | 543702 |       |       | 1486  | 10200 |       |       | 1283  |       |       |       |       |
| MEAN              |        |       |       |       |       |       |       |       |       |       |       |       |
| MAX               |        |       |       |       |       |       |       |       |       |       |       |       |
| MIN               |        |       |       |       |       |       |       |       |       |       |       |       |
| MEAN†             |        |       |       |       |       |       |       |       |       |       |       |       |
| MEAN†             |        |       |       |       |       |       |       |       |       |       |       |       |
| CFSM†             |        |       |       |       |       |       |       |       |       |       |       |       |
| CFSM†             |        |       |       |       |       |       |       |       |       |       |       |       |
| 1.23              |        |       |       |       |       |       |       |       |       |       |       |       |
| IN†               |        |       |       |       |       |       |       |       |       |       |       |       |
| IN†               |        |       |       |       |       |       |       |       |       |       |       |       |
| 16.65             |        |       |       |       |       |       |       |       |       |       |       |       |
| 10.91             |        |       |       |       |       |       |       |       |       |       |       |       |

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

## 02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.

LOCATION.--Lat 33°48'32", long 84°29'43", Cobb-Fulton County line, Hydrologic Unit 03130002, at bridge on Interstate Highway 285, 0.3 mi upstream from Proctor Creek, 0.5 mi downstream from Southern Railway bridge, at Atlanta city limits, and at mile 297.7.

DRAINAGE AREA.--1,600 mi<sup>2</sup>, approximately.

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 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0900 | 2390                                            | 63                                                | 58                                                       | 7.00                           | 7.00                                  | 15.0                                 | 11.0                               | 9.3                                 | 95                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 0950 | 1230                                            | 86                                                | 77                                                       | 6.90                           | 7.00                                  | 16.0                                 | 17.0                               | 9.2                                 | 95                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1000 | 1410                                            | 90                                                | 82                                                       | 7.10                           | 7.30                                  | 10.0                                 | 7.5                                | 9.4                                 | 85                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1030 | 1070                                            | 119                                               | 108                                                      | 7.20                           | 7.10                                  | 8.5                                  | 3.5                                | 9.7                                 | 84                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1040 | 2280                                            | 82                                                | 76                                                       | 7.00                           | 6.90                                  | 14.5                                 | 17.5                               | 9.3                                 | 93                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1115 | 1090                                            | 112                                               | 105                                                      | 7.20                           | 7.20                                  | 9.5                                  | 15.5                               | 9.6                                 | 85                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 0900 | 1120                                            | 98                                                | 102                                                      | 7.10                           | 7.30                                  | 17.5                                 | 18.5                               | 7.5                                 | 80                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 0845 | 955                                             | 120                                               | 112                                                      | 7.20                           | 7.20                                  | 17.0                                 | 17.0                               | 7.2                                 | 77                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0900 | 820                                             | 125                                               | 113                                                      | 7.10                           | 7.00                                  | 20.5                                 | 21.0                               | 7.0                                 | 80                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0900 | 1060                                            | 95                                                | 88                                                       | 7.20                           | 7.00                                  | 22.5                                 | 23.0                               | 6.9                                 | 81                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 0815 | 1440                                            | 83                                                | 77                                                       | 7.20                           | 7.00                                  | 22.5                                 | 24.5                               | 7.2                                 | 85                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0925 | 1080                                            | 103                                               | 97                                                       | 7.00                           | 7.10                                  | 24.0                                 | 20.5                               | 6.9                                 | 84                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 07... | 11                           | 1.7                                                            | 3300                                             | 14                                                              | 16                                                                | 0.630                                                | 0.450                                                | 0.180                                       | 2.6                                           |
| NOV   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 04... | 6.0                          | 1.4                                                            | 50                                               | 22                                                              | 5                                                                 | 0.550                                                | 1.09                                                 | 0.490                                       | 7.8                                           |
| DEC   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 02... | 8.0                          | 2.4                                                            | 20                                               | 24                                                              | 21                                                                | 0.600                                                | 0.770                                                | 0.480                                       | 3.4                                           |
| JAN   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 06... | 5.0                          | 3.4                                                            | --                                               | 27                                                              | 3                                                                 | 0.720                                                | 1.48                                                 | 0.710                                       | 3.8                                           |
| FEB   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 03... | 140                          | 2.0                                                            | 2300                                             | 18                                                              | 206                                                               | 0.440                                                | 0.670                                                | 0.680                                       | 11                                            |
| MAR   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 02... | 7.0                          | 1.8                                                            | <20                                              | 27                                                              | 5                                                                 | 0.520                                                | 1.56                                                 | 0.570                                       | 2.9                                           |
| APR   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 05... | 20                           | 1.6                                                            | 1300                                             | 33                                                              | 14                                                                | 0.580                                                | 1.28                                                 | 1.21                                        | 4.6                                           |
| MAY   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 04... | 14                           | 2.4                                                            | --                                               | 28                                                              | 20                                                                | 0.610                                                | 1.40                                                 | 0.390                                       | 3.8                                           |
| JUN   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 07... | 10                           | 1.4                                                            | --                                               | 26                                                              | 9                                                                 | 0.810                                                | 1.47                                                 | 0.960                                       | 4.2                                           |
| JUL   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 06... | 11                           | 3.1                                                            | 140                                              | 22                                                              | 17                                                                | 0.740                                                | 1.13                                                 | 0.580                                       | 3.4                                           |
| AUG   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 04... | 72                           | 3.1                                                            | 6400                                             | 18                                                              | 75                                                                | 0.730                                                | 0.780                                                | 0.380                                       | 4.5                                           |
| SEP   |                              |                                                                |                                                  |                                                                 |                                                                   |                                                      |                                                      |                                             |                                               |
| 07... | 41                           | 2.7                                                            | 330                                              | 20                                                              | 28                                                                | 0.840                                                | 1.14                                                 | 0.650                                       | 4.3                                           |



## 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 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1904 to December 1905, November to December 1913, March 1937 to current year. Monthly discharge only for 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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--52 years (water years 1905, 1938-88), 331 ft<sup>3</sup>/s, 18.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft<sup>3</sup>/s, Feb 4, 1982, gage height, 19.90 ft; minimum daily, 2.1 ft<sup>3</sup>/s, Oct. 9, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1916 reached a stage of about 20.0 ft, from information by local resident; discharge, 12,600 ft<sup>3</sup>/s, from rating extended above 6,500 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date                                                                           | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------------------------------------------------------------------------------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20                                                                        | 2400 | *1,980                            | *6.60               | No other peak greater than base discharge. |      |                                   |                     |
| Minimum discharge, 3.0 ft <sup>3</sup> /s, July 21, 22, gage height, -0.17 ft. |      |                                   |                     |                                            |      |                                   |                     |

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     | 104  | 44   | 95   | 163   | 176  | 138  | 140  | 137  | 37    | 9.7    | 26   | 13   |
| 2     | 106  | 42   | 89   | 193   | 186  | 134  | 147  | 128  | 34    | 11     | 22   | 12   |
| 3     | 71   | 41   | 87   | 198   | 573  | 133  | 146  | 127  | 32    | 14     | 54   | 13   |
| 4     | 52   | 42   | 88   | 194   | 1140 | 143  | 164  | 129  | 30    | 13     | 94   | 164  |
| 5     | 44   | 44   | 85   | 199   | 1550 | 150  | 150  | 130  | 28    | 14     | 67   | 240  |
| 6     | 41   | 44   | 80   | 185   | 1000 | 144  | 141  | 117  | 32    | 15     | 79   | 124  |
| 7     | 36   | 43   | 78   | 162   | 489  | 141  | 133  | 107  | 28    | 15     | 56   | 88   |
| 8     | 33   | 44   | 80   | 156   | 341  | 134  | 120  | 97   | 26    | 12     | 45   | 59   |
| 9     | 31   | 132  | 81   | 170   | 292  | 212  | 114  | 92   | 27    | 9.7    | 82   | 43   |
| 10    | 31   | 160  | 104  | 166   | 258  | 331  | 109  | 128  | 25    | 8.2    | 61   | 38   |
| 11    | 31   | 141  | 109  | 162   | 235  | 269  | 178  | 140  | 20    | 6.9    | 47   | 39   |
| 12    | 29   | 102  | 110  | 165   | 219  | 217  | 924  | 132  | 18    | 6.3    | 36   | 61   |
| 13    | 28   | 80   | 100  | 196   | 202  | 241  | 585  | 114  | 17    | 6.3    | 29   | 172  |
| 14    | 28   | 75   | 93   | 196   | 193  | 214  | 344  | 101  | 15    | 7.0    | 25   | 90   |
| 15    | 28   | 70   | 355  | 180   | 193  | 190  | 246  | 94   | 16    | 8.5    | 21   | 58   |
| 16    | 30   | 429  | 369  | 165   | 199  | 167  | 194  | 89   | 14    | 7.3    | 19   | 54   |
| 17    | 28   | 387  | 293  | 416   | 192  | 154  | 167  | 81   | 15    | 5.9    | 17   | 104  |
| 18    | 29   | 299  | 190  | 524   | 181  | 159  | 292  | 72   | 15    | 7.2    | 15   | 87   |
| 19    | 32   | 179  | 151  | 566   | 184  | 181  | 614  | 65   | 14    | 5.7    | 14   | 77   |
| 20    | 28   | 132  | 141  | 1660  | 186  | 168  | 472  | 61   | 18    | 4.1    | 15   | 69   |
| 21    | 26   | 110  | 159  | 1750  | 178  | 156  | 319  | 58   | 18    | 3.2    | 133  | 61   |
| 22    | 25   | 103  | 204  | 1260  | 165  | 146  | 237  | 55   | 21    | 91     | 46   | 52   |
| 23    | 27   | 97   | 203  | 540   | 160  | 139  | 230  | 55   | 19    | 525    | 42   | 45   |
| 24    | 27   | 91   | 190  | 343   | 167  | 137  | 224  | 56   | 15    | 173    | 73   | 40   |
| 25    | 29   | 88   | 165  | 305   | 159  | 151  | 233  | 62   | 28    | 101    | 50   | 38   |
| 26    | 30   | 95   | 160  | 278   | 153  | 223  | 314  | 57   | 14    | 59     | 35   | 35   |
| 27    | 44   | 89   | 154  | 238   | 147  | 201  | 248  | 53   | 12    | 40     | 29   | 33   |
| 28    | 50   | 86   | 223  | 210   | 145  | 170  | 200  | 49   | 13    | 48     | 23   | 29   |
| 29    | 48   | 87   | 271  | 196   | 141  | 149  | 165  | 45   | 11    | 49     | 20   | 27   |
| 30    | 50   | 93   | 231  | 187   | ---  | 143  | 147  | 41   | 9.9   | 67     | 16   | 26   |
| 31    | 47   | ---  | 194  | 181   | ---  | 139  | ---  | 39   | ---   | 35     | 14   | ---  |
| TOTAL | 1243 | 3469 | 4932 | 11504 | 9404 | 5374 | 7697 | 2711 | 621.9 | 1378.0 | 1305 | 1991 |
| MEAN  | 40.1 | 116  | 159  | 371   | 324  | 173  | 257  | 87.5 | 20.7  | 44.5   | 42.1 | 66.4 |
| MAX   | 106  | 429  | 369  | 1750  | 1550 | 331  | 924  | 140  | 37    | 525    | 133  | 240  |
| MIN   | 25   | 41   | 78   | 156   | 141  | 133  | 109  | 39   | 9.9   | 3.2    | 14   | 12   |
| CFSM  | .16  | .47  | .65  | 1.51  | 1.32 | .70  | 1.05 | .36  | .08   | .18    | .17  | .27  |
| IN.   | .19  | .52  | .75  | 1.74  | 1.42 | .81  | 1.16 | .41  | .09   | .21    | .20  | .30  |

|             |       |         |          |          |         |           |          |
|-------------|-------|---------|----------|----------|---------|-----------|----------|
| CAL YR 1987 | TOTAL | 94756.0 | MEAN 260 | MAX 3900 | MIN 25  | CFSM 1.06 | IN 14.33 |
| WTR YR 1988 | TOTAL | 51629.9 | MEAN 141 | MAX 1750 | MIN 3.2 | CFSM .57  | IN 7.81  |

## 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0700 | 42                                              | 85                                                | 77                                                       | 7.00                           | 6.80                                  | 14.0                                 | 11.5                               | 8.1                                 | 81                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 0830 | 41                                              | 87                                                | 86                                                       | 7.10                           | 6.90                                  | 13.0                                 | 16.0                               | 8.5                                 | 82                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 0915 | 96                                              | 87                                                | 82                                                       | 7.10                           | 7.40                                  | 10.0                                 | 8.5                                | 9.0                                 | 83                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 0850 | 205                                             | 82                                                | 77                                                       | 6.90                           | 7.20                                  | 6.0                                  | 0.0                                | 11.2                                | 91                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1000 | 172                                             | 78                                                | 72                                                       | 6.80                           | 7.40                                  | 11.0                                 | 18.5                               | 10.0                                | 93                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1015 | 137                                             | 75                                                | 73                                                       | 7.10                           | 7.30                                  | 9.0                                  | 10.0                               | 10.6                                | 93                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0800 | 139                                             | 78                                                | 79                                                       | 7.10                           | 7.20                                  | 18.5                                 | 21.0                               | 7.6                                 | 84                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 0645 | 126                                             | 79                                                | 79                                                       | 7.10                           | 7.10                                  | 15.5                                 | 10.5                               | 8.9                                 | 92                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 0815 | 27                                              | 91                                                | 87                                                       | 6.90                           | 7.20                                  | 22.0                                 | 25.0                               | 6.5                                 | 77                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 0845 | 63                                              | 100                                               | 97                                                       | --                             | 7.40                                  | 19.0                                 | 16.5                               | 7.2                                 | 80                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 06... | 15                           | 1.6                                                            | 490                                              | 28                                                              | 0.110                                                | 0.040                                                | 0.030                                       | 4.3                                           |
| NOV   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 03... | 5.0                          | 1.3                                                            | 50                                               | 28                                                              | <0.020                                               | 0.060                                                | 0.030                                       | 13                                            |
| DEC   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 01... | 16                           | 2.0                                                            | 85                                               | 23                                                              | 0.100                                                | 0.060                                                | <0.020                                      | 3.9                                           |
| JAN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 05... | 12                           | 1.2                                                            | 270                                              | 23                                                              | 0.230                                                | 0.120                                                | 0.040                                       | 2.7                                           |
| FEB   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 02... | 16                           | 1.1                                                            | 1300                                             | 14                                                              | 0.300                                                | 0.100                                                | 0.040                                       | 3.3                                           |
| MAR   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 01... | 11                           | 1.2                                                            | 20                                               | 23                                                              | 0.280                                                | 0.080                                                | 0.030                                       | 3.1                                           |
| APR   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 06... | 8.0                          | 1.3                                                            | 130                                              | 27                                                              | 0.180                                                | 0.110                                                | 0.030                                       | 2.5                                           |
| MAY   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 03... | 16                           | 0.7                                                            | 130                                              | 27                                                              | 0.260                                                | 0.100                                                | 0.040                                       | 3.6                                           |
| JUN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 08... | 16                           | 1.3                                                            | <20                                              | 33                                                              | 0.190                                                | 0.080                                                | <0.020                                      | 2.2                                           |
| SEP   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 08... | 24                           | 1.2                                                            | --                                               | 23                                                              | 0.160                                                | 0.080                                                | 0.040                                       | 4.0                                           |

## 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 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 719.07 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Estimated daily discharges: Jan. 27 to Mar. 8, Apr. 12-21. Records good, except those of no gage height record, Jan. 27 to Mar. 8, Apr. 12-21, 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.--23 years, 3,548 ft<sup>3</sup>/s, 23.39 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft<sup>3</sup>/s, Apr. 14, 1979, gage height, 25.18 ft; minimum daily discharge, 1,000 ft<sup>3</sup>/s, July 1, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 13,900 ft<sup>3</sup>/s, Jan. 20; gage height, 14.20 ft; minimum daily discharge, 1,050 ft<sup>3</sup>/s, May 31, June 14.

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           | 3400  | 1350   | 1370  | 1710  | 1600  | 1500  | 1590  | 1520  | 1090  | 1500  | 1140  | 1230  |     |       |
| 2           | 3300  | 1240   | 1510  | 2190  | 1600  | 1500  | 1830  | 1420  | 1100  | 1440  | 2190  | 1380  |     |       |
| 3           | 3230  | 1620   | 1560  | 1850  | 3300  | 1500  | 1640  | 1380  | 1110  | 1300  | 2530  | 1390  |     |       |
| 4           | 1500  | 2210   | 1570  | 2070  | 11000 | 1600  | 1800  | 1560  | 1160  | 1110  | 2000  | 3440  |     |       |
| 5           | 1330  | 2320   | 1550  | 1670  | 9900  | 1600  | 1580  | 1740  | 1200  | 1550  | 3180  | 4600  |     |       |
| 6           | 2000  | 2310   | 1620  | 1540  | 4400  | 1500  | 1590  | 1700  | 1100  | 1590  | 2500  | 1730  |     |       |
| 7           | 3010  | 2240   | 1320  | 1550  | 2900  | 1500  | 1770  | 1650  | 1090  | 1450  | 1350  | 1420  |     |       |
| 8           | 2700  | 1410   | 1330  | 1580  | 2200  | 1500  | 1650  | 1400  | 1110  | 1390  | 1450  | 1310  |     |       |
| 9           | 2720  | 1260   | 1330  | 1540  | 2000  | 2100  | 1620  | 1400  | 1210  | 1410  | 1920  | 1620  |     |       |
| 10          | 2710  | 2250   | 1670  | 1650  | 2000  | 2950  | 1390  | 1830  | 1390  | 1160  | 1710  | 1730  |     |       |
| 11          | 1380  | 2380   | 1650  | 1780  | 2000  | 2200  | 1570  | 1780  | 1290  | 1070  | 1670  | 1400  |     |       |
| 12          | 1230  | 1710   | 1630  | 1630  | 1800  | 1730  | 6700  | 1510  | 1110  | 1440  | 1630  | 1330  |     |       |
| 13          | 1440  | 1480   | 1470  | 1670  | 1800  | 2280  | 4700  | 1670  | 1070  | 1540  | 1530  | 3590  |     |       |
| 14          | 1980  | 1460   | 1360  | 1900  | 1700  | 1770  | 2700  | 1480  | 1050  | 1460  | 1210  | 2230  |     |       |
| 15          | 2000  | 1470   | 3900  | 2170  | 1800  | 1570  | 2300  | 1340  | 1060  | 1940  | 1070  | 2160  |     |       |
| 16          | 2020  | 1580   | 3000  | 1840  | 1800  | 1700  | 2000  | 1400  | 1320  | 1550  | 1160  | 1710  |     |       |
| 17          | 1960  | 4410   | 2150  | 2220  | 1700  | 1790  | 1700  | 1460  | 1530  | 1150  | 1380  | 3320  |     |       |
| 18          | 1220  | 3290   | 1810  | 4370  | 1700  | 1710  | 1900  | 1370  | 1470  | 1120  | 1350  | 1980  |     |       |
| 19          | 1170  | 2150   | 1620  | 3300  | 1700  | 1750  | 4100  | 1470  | 1710  | 1370  | 1330  | 1560  |     |       |
| 20          | 1380  | 1780   | 1700  | 11400 | 1800  | 1600  | 3700  | 1420  | 1420  | 1490  | 1520  | 1790  |     |       |
| 21          | 2160  | 1680   | 1820  | 7080  | 1600  | 1520  | 2500  | 1430  | 1560  | 1460  | 2510  | 1810  |     |       |
| 22          | 2320  | 1800   | 2400  | 4180  | 1600  | 1490  | 2090  | 1340  | 1550  | 1960  | 1350  | 1630  |     |       |
| 23          | 2030  | 1590   | 1660  | 2850  | 1600  | 1530  | 2590  | 1320  | 1480  | 4600  | 1280  | 1620  |     |       |
| 24          | 2180  | 1550   | 1570  | 2050  | 1600  | 1560  | 2450  | 1240  | 1460  | 2230  | 2160  | 1560  |     |       |
| 25          | 1420  | 1750   | 1720  | 1930  | 1600  | 1590  | 1890  | 1450  | 1370  | 1400  | 1800  | 1420  |     |       |
| 26          | 1180  | 1530   | 1680  | 1840  | 1500  | 1840  | 2530  | 1280  | 1900  | 1210  | 1480  | 1290  |     |       |
| 27          | 1950  | 1830   | 1630  | 1800  | 1500  | 1680  | 2030  | 1230  | 1260  | 1300  | 1460  | 1240  |     |       |
| 28          | 2590  | 1670   | 2640  | 1700  | 1600  | 1510  | 1950  | 1220  | 1450  | 1900  | 1220  | 1250  |     |       |
| 29          | 2190  | 1570   | 2290  | 1700  | 1500  | 1530  | 1870  | 1200  | 1510  | 1880  | 1190  | 1210  |     |       |
| 30          | 2300  | 1360   | 1850  | 1600  | ---   | 1510  | 1540  | 1090  | 1410  | 1770  | 1140  | 1150  |     |       |
| 31          | 2370  | ---    | 1600  | 1600  | ---   | 1540  | ---   | 1050  | ---   | 1330  | 1130  | ---   |     |       |
| TOTAL       | 64370 | 56250  | 55980 | 77960 | 72800 | 52650 | 69270 | 44350 | 39540 | 49070 | 50540 | 55100 |     |       |
| MEAN        | 2076  | 1875   | 1806  | 2515  | 2510  | 1698  | 2309  | 1431  | 1318  | 1583  | 1630  | 1837  |     |       |
| MAX         | 3400  | 4410   | 3900  | 11400 | 11000 | 2950  | 6700  | 1830  | 1900  | 4600  | 3180  | 4600  |     |       |
| MIN         | 1170  | 1240   | 1320  | 1540  | 1500  | 1490  | 1390  | 1050  | 1050  | 1070  | 1070  | 1150  |     |       |
| CAL YR 1987 | TOTAL | 969510 | MEAN  | 2656  | MAX   | 23000 | MIN   | 1170  | MEAN† | 2572  | CFSM† | 1.25  | IN† | 16.95 |
| WTR YR 1988 | TOTAL | 687880 | MEAN  | 1879  | MAX   | 11400 | MIN   | 1050  | MEAN† | 1676  | CFSM† | .81   | IN† | 11.07 |

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

## APALACHICOLA RIVER BASIN

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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 analyses with the analyzing agency code 81213 are provided by the U.S. Geological Survey. Laboratory 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 217 microsiemens Jan. 11, 1988; 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, Apr. 27, 1988.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 217 microsiemens Jan. 11; minimum, 63 microsiemens Feb. 4.

pH: Maximum, 7.16 units Feb. 13, 22; minimum, 6.44 units June 20.

WATER TEMPERATURE: Maximum, 30.5°C July 19, 21; minimum, 6.5°C Jan. 8, 18.

DISSOLVED OXYGEN: Maximum, 11.3 mg/L Jan. 18, Feb. 7; minimum, 1.6 mg/L Apr. 27.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANALYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0745 | 81341                                             | 1690                                            | 135                                               | 122                                                      | 6.80                           | 6.60                                  | 19.0                                 | 11.5                               | 6.8                                 | 75                                                             |
| NOV   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 0900 | 81341                                             | 1200                                            | 127                                               | 128                                                      | 6.90                           | 6.80                                  | 18.5                                 | 18.0                               | 6.4                                 | 69                                                             |
| DEC   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 0830 | 81341                                             | 1440                                            | 154                                               | 142                                                      | 7.00                           | 7.20                                  | 14.0                                 | -1.0                               | 7.6                                 | 75                                                             |
| JAN   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0830 | 81341                                             | 1550                                            | 159                                               | 138                                                      | 6.90                           | 6.80                                  | 9.5                                  | -2.0                               | 9.2                                 | 81                                                             |
| FEB   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 0900 | 81341                                             | --                                              | 79                                                | 70                                                       | 6.80                           | 6.70                                  | 14.5                                 | 17.0                               | 8.5                                 | 85                                                             |
| MAR   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1100 | 81341                                             | --                                              | 165                                               | 145                                                      | 7.00                           | 7.30                                  | 13.0                                 | 15.0                               | 8.1                                 | 78                                                             |
| APR   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0800 | 81341                                             | 1960                                            | 138                                               | 131                                                      | 6.90                           | 6.90                                  | 17.5                                 | 12.0                               | 5.8                                 | 63                                                             |
| MAY   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 0910 | 81341                                             | 1450                                            | 165                                               | 154                                                      | 7.00                           | 6.80                                  | 20.0                                 | 17.5                               | 5.4                                 | 61                                                             |
| JUN   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1000 | 81341                                             | 1050                                            | 148                                               | 139                                                      | 6.90                           | 7.00                                  | 23.0                                 | 27.0                               | 4.9                                 | 58                                                             |
| JUL   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1200 | 81341                                             | 1650                                            | 120                                               | 109                                                      | 6.80                           | 6.80                                  | 21.5                                 | 25.5                               | 6.7                                 | 77                                                             |
| AUG   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1200 | 81341                                             | 2700                                            | 113                                               | 105                                                      | 6.80                           | 6.80                                  | 26.0                                 | 28.5                               | 3.9                                 | 49                                                             |
| SEP   |      |                                                   |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1200 | 81341                                             | 1630                                            | 112                                               | 104                                                      | 6.80                           | --                                    | 22.5                                 | 22.0                               | 6.0                                 | 71                                                             |

## APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-------|--------------------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|
| OCT   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 06... | 81341                                                  | 8.0                          | --                                                             | 4.4                                                            | 940                                              | 21                                                            | --                                                               |
| NOV   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 02... | 81341                                                  | 5.0                          | 12                                                             | 1.7                                                            | 1100                                             | 25                                                            | 7                                                                |
| DEC   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 02... | 81341                                                  | 9.0                          | 9                                                              | 4.6                                                            | 60                                               | 30                                                            | 11                                                               |
| JAN   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 07... | 81341                                                  | 8.0                          | 17                                                             | 1.8                                                            | 930                                              | 30                                                            | 6                                                                |
| FEB   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 04... | 81341                                                  | 210                          | 13                                                             | 110                                                            | 33000                                            | 17                                                            | 113                                                              |
| MAR   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 02... | 81341                                                  | 10                           | 8                                                              | 1.4                                                            | 330                                              | 34                                                            | 8                                                                |
| APR   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 07... | 81341                                                  | 9.0                          | 18                                                             | 1.6                                                            | 3100                                             | 29                                                            | 31                                                               |
| MAY   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 04... | 81341                                                  | 15                           | 17                                                             | 4.7                                                            | --                                               | 33                                                            | 18                                                               |
| JUN   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 06... | 81341                                                  | 12                           | 19                                                             | 3.7                                                            | 790                                              | 28                                                            | 12                                                               |
| JUL   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 06... | 81341                                                  | 12                           | 29                                                             | 4.0                                                            | 170                                              | 21                                                            | 19                                                               |
| AUG   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 03... | 81341                                                  | 200                          | 17                                                             | 4.5                                                            | 79000                                            | 21                                                            | 256                                                              |
| SEP   |                                                        |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 06... | 81341                                                  | 52                           | 7                                                              | 4.1                                                            | 6400                                             | 20                                                            | 53                                                               |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 06... | 81341                                                  | 2.65                                                 | 0.910                                                | --                                                   | --                                                                 | --                                        | 1.31                                        | 5.5                                           |
| NOV   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 02... | 81341                                                  | 2.04                                                 | 0.990                                                | --                                                   | --                                                                 | --                                        | 0.840                                       | --                                            |
| DEC   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 02... | 81341                                                  | 1.78                                                 | 0.880                                                | 2.1                                                  | 3.0                                                                | 4.8                                       | 1.14                                        | 4.7                                           |
| JAN   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 07... | 81341                                                  | 1.35                                                 | 1.90                                                 | 1.2                                                  | 3.1                                                                | 4.4                                       | 0.880                                       | 6.1                                           |
| FEB   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 04... | 81341                                                  | 0.420                                                | 0.460                                                | 2.4                                                  | 2.9                                                                | 3.3                                       | 0.780                                       | 19                                            |
| MAR   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 02... | 81341                                                  | 1.21                                                 | 2.20                                                 | 1.9                                                  | 4.1                                                                | 5.3                                       | 1.00                                        | 3.6                                           |
| APR   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 07... | 81341                                                  | 1.17                                                 | 1.15                                                 | 5.6                                                  | 6.8                                                                | 8.0                                       | 0.900                                       | 4.1                                           |
| MAY   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 04... | 81341                                                  | 1.48                                                 | 1.41                                                 | 0.29                                                 | 1.7                                                                | 3.2                                       | 0.930                                       | 4.5                                           |
| JUN   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 06... | 81341                                                  | 2.35                                                 | 0.890                                                | 0.51                                                 | 1.4                                                                | 3.7                                       | 1.13                                        | 3.0                                           |
| JUL   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 06... | 81341                                                  | 1.68                                                 | 1.11                                                 | 2.9                                                  | 4.0                                                                | 5.7                                       | 0.910                                       | 4.3                                           |
| AUG   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 03... | 81341                                                  | 1.00                                                 | 0.820                                                | 2.0                                                  | 2.8                                                                | 3.8                                       | 0.630                                       | 8.7                                           |
| SEP   |                                                        |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 06... | 81341                                                  | 1.50                                                 | 0.650                                                | 0.55                                                 | 1.2                                                                | 2.7                                       | 0.590                                       | 5.3                                           |

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANALYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|-------|------|---------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| SEP   |      |                                                   |                                                 |                                                   |                                                          |                                |                                      |                                     |                                                                |                                                                 |                                                           |
| 12... | 1040 | 81213                                             | 1290                                            | 139                                               | 131                                                      | 6.90                           | 24.0                                 | 5.4                                 | 65                                                             | 24                                                              | 15                                                        |
| 26... | 0915 | 81213                                             | 1310                                            | 142                                               | 134                                                      | 6.93                           | 24.0                                 | 5.2                                 | 63                                                             | 26                                                              | 19                                                        |

| DATE  | AGENCY<br>ANALYZING<br>SAMPLE<br>(CODE<br>NUMBER) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|---------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| SEP   |                                                   |                                              |                                                     |                                                                    |                                                                     |                                            |                                                      |
| 12... | 81213                                             | 6.9                                          | 11                                                  | 80                                                                 | 25                                                                  | 80                                         | 70                                                   |
| 26... | 81213                                             | 8.2                                          | 11                                                  | 91                                                                 | 23                                                                  | 70                                         | 50                                                   |

| DATE  | AGENCY<br>ANALYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| SEP   |                                                   |                                                               |                                                               |                                                               |                                                               |                                                                             |                                                   |                                             |                                                                |                                               |
| 12... | 81213                                             | 0.120                                                         | 1.90                                                          | 0.800                                                         | 0.40                                                          | 1.2                                                                         | 3.1                                               | 0.910                                       | 0.740                                                          | 0.2                                           |
| 26... | 81213                                             | 0.190                                                         | 2.00                                                          | 0.840                                                         | 0.46                                                          | 1.3                                                                         | 3.3                                               | 0.990                                       | 0.820                                                          | 2.9                                           |



## APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

| DATE  | TIME | AGENCY<br>ANALYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|-------|------|---------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| OCT   |      |                                                   |                                                 |                                                   |                                                          |                                |                                      |                                     |                                                                |                                                                 |                                                           |
| 13... | 0755 | 81213                                             | 1920                                            | 163                                               | 152                                                      | 7.07                           | 19.0                                 | 6.2                                 | 68                                                             | 32                                                              | 21                                                        |
| 20... | 0935 | 81213                                             | 1750                                            | 147                                               | 136                                                      | 7.04                           | 19.0                                 | 6.1                                 | 67                                                             | 24                                                              | 20                                                        |
| 21... | 0625 | 81213                                             | 1590                                            | 171                                               | 160                                                      | 7.02                           | 19.5                                 | 6.2                                 | 69                                                             | 28                                                              | 21                                                        |

| DATE  | AGENCY<br>ANALYZING<br>SAMPLE<br>(CODE<br>NUMBER) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|---------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| OCT   |                                                   |                                              |                                                     |                                                                    |                                                                     |                                            |                                                      |
| 13... | 81213                                             | 9.4                                          | 12                                                  | 115                                                                | 47                                                                  | 60                                         | 60                                                   |
| 20... | 81213                                             | 8.4                                          | 14                                                  | 94                                                                 | 55                                                                  | 110                                        | 80                                                   |
| 21... | 81213                                             | 8.9                                          | 16                                                  | 109                                                                | 34                                                                  | 70                                         | 50                                                   |

| DATE  | AGENCY<br>ANALYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| OCT   |                                                   |                                                               |                                                               |                                                               |                                                               |                                                                             |                                                   |                                             |                                                                |                                               |
| 13... | 81213                                             | 0.140                                                         | 1.80                                                          | 1.90                                                          | 0.0                                                           | 1.7                                                                         | 3.5                                               | 1.00                                        | 0.860                                                          | 3.0                                           |
| 20... | 81213                                             | 0.130                                                         | 1.70                                                          | 0.880                                                         | 0.52                                                          | 1.4                                                                         | 3.1                                               | 0.740                                       | 0.660                                                          | 3.7                                           |
| 21... | 81213                                             | 0.160                                                         | 2.20                                                          | 1.10                                                          | 1.3                                                           | 2.4                                                                         | 4.6                                               | 1.00                                        | 0.820                                                          | 3.0                                           |

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SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
| 1     | 83      | 67  | 127      | 106 | 151      | 131 | 156     | 136 | 146      | 137 | 166       | 135 |
| 2     | 97      | 67  | ---      | --- | 157      | 125 | 146     | 108 | 156      | 141 | 166       | 154 |
| 3     | 100     | 68  | ---      | --- | 154      | 124 | 131     | 112 | 159      | 80  | 155       | 147 |
| 4     | 114     | 82  | 145      | 90  | 154      | 125 | 135     | 116 | 92       | 63  | 158       | 147 |
| 5     | 126     | 112 | 123      | 90  | 160      | 123 | 148     | 116 | 90       | 68  | 154       | 141 |
| 6     | 134     | 89  | 123      | 89  | 154      | 109 | 157     | 145 | 107      | 91  | 155       | 139 |
| 7     | 102     | 71  | 123      | 89  | 146      | 119 | 155     | 142 | 125      | 106 | 145       | 138 |
| 8     | 108     | 70  | 136      | 121 | 150      | 131 | 152     | 138 | 133      | 124 | 158       | 138 |
| 9     | 121     | 69  | 144      | 130 | 161      | 140 | 173     | 136 | 145      | 130 | 157       | 127 |
| 10    | 116     | 69  | 155      | 109 | 156      | 130 | 204     | 174 | 151      | 135 | 126       | 107 |
| 11    | 131     | 118 | 123      | 96  | 142      | 129 | 217     | 185 | 143      | 132 | 131       | 107 |
| 12    | 141     | 125 | 136      | 117 | 150      | 124 | 198     | 179 | 151      | 139 | 144       | 131 |
| 13    | 145     | 121 | 149      | 129 | 156      | 133 | 190     | 177 | 152      | 143 | 141       | 110 |
| 14    | 142     | 87  | 152      | 128 | 151      | 134 | 211     | 158 | 152      | 136 | 128       | 110 |
| 15    | 137     | 84  | 153      | 129 | 143      | 81  | 155     | 117 | 141      | 132 | 155       | 122 |
| 16    | 142     | 85  | 127      | 120 | 111      | 81  | 152     | 123 | 151      | 133 | 157       | 141 |
| 17    | 141     | 90  | 121      | 77  | 132      | 112 | 151     | 127 | 159      | 147 | 144       | 130 |
| 18    | 143     | 129 | 114      | 77  | 140      | 122 | 123     | 92  | 155      | 145 | 155       | 132 |
| 19    | 149     | 138 | 129      | 110 | 155      | 134 | 117     | 97  | 161      | 145 | ---       | --- |
| 20    | 150     | 136 | 150      | 127 | 140      | 125 | 113     | 67  | 153      | 145 | ---       | --- |
| 21    | 156     | 94  | 157      | 126 | 138      | 120 | 86      | 75  | 156      | 137 | ---       | --- |
| 22    | 136     | 88  | 160      | 110 | 132      | 110 | 102     | 86  | 150      | 136 | ---       | --- |
| 23    | 126     | 95  | 150      | 111 | 138      | 113 | 121     | 103 | 159      | 142 | 163       | 143 |
| 24    | 129     | 90  | 152      | 114 | 148      | 135 | 130     | 116 | 161      | 148 | 158       | 142 |
| 25    | 137     | 107 | 135      | 116 | 149      | 119 | 138     | 129 | 155      | 143 | 155       | 139 |
| 26    | 145     | 133 | 158      | 126 | 120      | 112 | 154     | 136 | 157      | 148 | 150       | 106 |
| 27    | 158     | 116 | 146      | 106 | 126      | 120 | 160     | 146 | 163      | 152 | 129       | 125 |
| 28    | 111     | 85  | 131      | 116 | 130      | 95  | 155     | 150 | 156      | 135 | 139       | 126 |
| 29    | 114     | 85  | 138      | 120 | 119      | 95  | 159     | 151 | 145      | 136 | ---       | --- |
| 30    | 126     | 81  | 142      | 124 | 142      | 113 | 164     | 149 | ---      | --- | ---       | --- |
| 31    | 120     | 78  | ---      | --- | 152      | 141 | 163     | 142 | ---      | --- | 163       | 145 |
| MONTH | 158     | 67  | 160      | 77  | 161      | 81  | 217     | 67  | 163      | 63  | 166       | 106 |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| 1     | 169     | 147 | 159      | 141 | 175      | 152 | 161     | 116 | 149      | 136 | 166       | 141 |
| 2     | 157     | 120 | 144      | 137 | 179      | 160 | 160     | 122 | 152      | 104 | 166       | 130 |
| 3     | 133     | 123 | 167      | 139 | 178      | 160 | 161     | 124 | 131      | 104 | 155       | 132 |
| 4     | 143     | 121 | 165      | 153 | 184      | 163 | 144     | 127 | 141      | 103 | 137       | 81  |
| 5     | 148     | 123 | 160      | 141 | 169      | 146 | 143     | 106 | 127      | 81  | 84        | 68  |
| 6     | 157     | 140 | 151      | 127 | 157      | 142 | 130     | 110 | 121      | 91  | 116       | 86  |
| 7     | 165     | 119 | 158      | 127 | 175      | 149 | 154     | 114 | 146      | 115 | 149       | 118 |
| 8     | 152     | 126 | 157      | 141 | 184      | 167 | 162     | 119 | 136      | 125 | 159       | 144 |
| 9     | 159     | 128 | 147      | 137 | 181      | 153 | 162     | 123 | 150      | 101 | 152       | 135 |
| 10    | 152     | 139 | 156      | 139 | 179      | 149 | 166     | 140 | 144      | 107 | 149       | 122 |
| 11    | 140     | 111 | 150      | 135 | 160      | 149 | 159     | 146 | 157      | 112 | 137       | 130 |
| 12    | 121     | 67  | 157      | 141 | 153      | 147 | 165     | 132 | 156      | 109 | 140       | 129 |
| 13    | 104     | 81  | 159      | 123 | ---      | --- | 147     | 112 | 154      | 117 | 147       | 71  |
| 14    | 126     | 104 | 164      | 139 | ---      | --- | 166     | 119 | 156      | 140 | 119       | 90  |
| 15    | 130     | 112 | 164      | 144 | ---      | --- | 162     | 114 | 154      | 142 | 122       | 102 |
| 16    | 142     | 117 | 152      | 138 | 187      | 139 | 161     | 118 | 161      | 143 | 142       | 116 |
| 17    | 141     | 126 | 159      | 139 | 148      | 125 | 171     | 135 | 159      | 120 | 147       | 82  |
| 18    | 140     | 100 | 169      | 151 | 165      | 130 | 156     | 147 | 176      | 123 | 113       | 83  |
| 19    | 114     | 81  | 161      | 138 | 148      | 119 | 167     | 131 | 161      | 126 | 129       | 114 |
| 20    | 119     | 84  | 163      | 142 | 126      | 115 | 162     | 119 | 161      | 126 | 140       | 126 |
| 21    | 125     | 107 | 163      | 141 | 162      | 129 | 165     | 115 | 145      | 91  | 141       | 125 |
| 22    | 144     | 110 | 158      | 139 | 144      | 114 | 156     | 110 | 138      | 103 | 143       | 122 |
| 23    | 147     | 100 | 150      | 139 | 163      | 117 | 136     | 70  | ---      | --- | 145       | 129 |
| 24    | 122     | 103 | 174      | 142 | 166      | 120 | 110     | 76  | 162      | 105 | 143       | 127 |
| 25    | 129     | 114 | 183      | 154 | 171      | 128 | 137     | 103 | 137      | 108 | 157       | 131 |
| 26    | 136     | 115 | 164      | 153 | 147      | 104 | 161     | 135 | 160      | 126 | 142       | 129 |
| 27    | 149     | 123 | 167      | 158 | 145      | 133 | 172     | 152 | 157      | 129 | 167       | 136 |
| 28    | 153     | 122 | 169      | 156 | ---      | --- | 157     | 104 | 160      | 137 | 173       | 157 |
| 29    | 153     | 110 | 166      | 138 | 132      | 113 | 163     | 117 | 146      | 136 | 170       | 153 |
| 30    | 161     | 139 | 148      | 137 | 155      | 117 | 158     | 110 | 165      | 139 | 171       | 158 |
| 31    | ---     | --- | 158      | 140 | ---      | --- | 146     | 135 | 178      | 157 | ---       | --- |
| MONTH | 169     | 67  | 183      | 123 | 187      | 104 | 172     | 70  | 178      | 81  | 173       | 68  |
| YEAR  | 217     | 63  |          |     |          |     |         |     |          |     |           |     |

## 02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-----------|------|
|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
| 1     | 6.94    | 6.84 | 6.98     | 6.93 | 7.00     | 6.93 | 6.99    | 6.97 | 7.10     | 7.06 | 7.04      | 6.98 |
| 2     | 6.97    | 6.86 | ---      | ---  | 7.08     | 6.97 | 6.99    | 6.97 | 7.08     | 7.03 | 7.07      | 6.99 |
| 3     | 6.94    | 6.85 | ---      | ---  | 7.07     | 7.03 | 6.98    | 6.94 | 7.03     | 6.68 | 7.04      | 7.01 |
| 4     | 6.93    | 6.87 | 7.08     | 7.02 | 7.04     | 7.02 | 6.97    | 6.92 | 6.92     | 6.78 | 7.03      | 6.99 |
| 5     | 6.89    | 6.79 | 7.03     | 6.98 | 7.05     | 7.02 | 7.01    | 6.93 | 6.98     | 6.80 | 7.02      | 6.96 |
| 6     | 6.87    | 6.79 | 7.00     | 6.98 | 7.07     | 7.03 | 7.02    | 6.94 | 7.07     | 6.98 | 7.01      | 6.92 |
| 7     | 6.88    | 6.80 | 6.99     | 6.95 | 7.05     | 6.93 | 7.06    | 6.94 | 7.11     | 7.08 | 6.99      | 6.93 |
| 8     | 6.89    | 6.82 | 6.98     | 6.92 | 6.96     | 6.89 | 7.09    | 7.05 | 7.13     | 7.08 | 6.95      | 6.92 |
| 9     | 6.90    | 6.83 | 6.98     | 6.84 | 7.03     | 6.92 | 7.09    | 7.04 | 7.10     | 7.06 | 6.92      | 6.84 |
| 10    | 6.92    | 6.82 | 7.04     | 6.80 | 6.98     | 6.94 | 7.10    | 7.07 | 7.12     | 7.05 | 6.86      | 6.8  |
| 11    | 6.93    | 6.85 | 6.99     | 6.82 | 7.00     | 6.95 | 7.09    | 7.06 | 7.08     | 7.03 | 6.91      | 6.85 |
| 12    | 6.87    | 6.78 | 7.00     | 6.98 | 7.00     | 6.97 | 7.11    | 7.03 | 7.12     | 7.03 | 6.91      | 6.84 |
| 13    | 6.85    | 6.75 | 7.01     | 6.95 | 7.00     | 6.95 | 7.11    | 7.07 | 7.16     | 7.09 | 6.85      | 6.78 |
| 14    | 6.90    | 6.82 | 6.98     | 6.93 | 6.99     | 6.93 | 7.13    | 7.09 | 7.13     | 7.07 | 6.82      | 6.78 |
| 15    | 6.94    | 6.88 | 6.97     | 6.92 | 7.03     | 6.90 | 7.11    | 7.07 | 7.11     | 7.06 | 6.86      | 6.80 |
| 16    | 6.93    | 6.89 | 6.98     | 6.88 | 7.05     | 6.90 | 7.08    | 7.05 | 7.08     | 7.06 | 6.88      | 6.79 |
| 17    | 6.97    | 6.94 | 6.97     | 6.75 | 7.11     | 7.05 | 7.08    | 7.03 | 7.08     | 7.02 | 6.94      | 6.74 |
| 18    | 6.97    | 6.90 | 6.90     | 6.75 | 7.12     | 7.09 | 7.03    | 6.97 | 7.09     | 7.00 | 7.01      | 6.94 |
| 19    | 6.95    | 6.90 | 6.97     | 6.91 | 7.12     | 7.09 | 7.02    | 6.96 | 7.13     | 7.05 | ---       | ---  |
| 20    | 6.93    | 6.90 | 7.02     | 6.98 | 7.11     | 7.05 | 6.94    | 6.63 | 7.11     | 7.09 | ---       | ---  |
| 21    | 6.97    | 6.87 | 7.07     | 7.03 | 7.07     | 7.02 | 6.82    | 6.67 | 7.13     | 7.09 | ---       | ---  |
| 22    | 6.98    | 6.93 | 7.10     | 7.02 | 7.10     | 6.98 | 6.88    | 6.80 | 7.16     | 7.09 | ---       | ---  |
| 23    | 7.00    | 6.96 | 7.05     | 6.97 | 7.12     | 7.07 | 6.93    | 6.87 | 7.12     | 7.06 | 7.11      | 7.03 |
| 24    | 6.99    | 6.95 | 7.02     | 6.96 | 7.12     | 7.08 | 6.99    | 6.92 | 7.09     | 7.03 | 7.05      | 7.01 |
| 25    | 7.00    | 6.94 | 7.11     | 6.94 | 7.09     | 7.06 | 7.00    | 6.95 | 7.08     | 7.04 | 7.08      | 7.01 |
| 26    | 6.95    | 6.90 | 7.11     | 7.05 | 7.06     | 6.94 | 7.07    | 6.97 | 7.10     | 7.05 | 7.09      | 6.92 |
| 27    | 6.98    | 6.85 | 7.09     | 7.05 | 6.94     | 6.88 | 7.09    | 7.04 | 7.10     | 7.05 | 7.06      | 6.97 |
| 28    | 6.92    | 6.77 | 7.06     | 7.01 | 6.91     | 6.83 | 7.11    | 7.04 | 7.13     | 7.05 | 7.02      | 6.95 |
| 29    | 6.96    | 6.91 | 7.04     | 7.01 | 6.91     | 6.85 | 7.08    | 7.05 | 7.11     | 7.01 | ---       | ---  |
| 30    | 7.01    | 6.96 | 7.03     | 6.97 | 7.07     | 6.90 | 7.12    | 7.07 | ---      | ---  | ---       | ---  |
| 31    | 7.00    | 6.95 | ---      | ---  | 7.04     | 6.97 | 7.11    | 7.06 | ---      | ---  | 6.97      | 6.90 |
| MONTH | 7.01    | 6.75 | 7.11     | 6.75 | 7.12     | 6.83 | 7.13    | 6.63 | 7.16     | 6.68 | 7.11      | 6.74 |
|       | APRIL   |      | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
| 1     | 7.00    | 6.93 | 6.94     | 6.89 | 6.86     | 6.75 | 6.94    | 6.89 | 6.76     | 6.69 | 6.96      | 6.88 |
| 2     | 7.02    | 6.98 | 6.96     | 6.91 | 6.85     | 6.76 | 6.94    | 6.76 | 6.82     | 6.61 | 6.92      | 6.84 |
| 3     | 7.01    | 6.94 | 7.00     | 6.92 | 6.80     | 6.76 | 6.83    | 6.69 | 6.90     | 6.63 | 6.84      | 6.67 |
| 4     | 7.01    | 6.91 | 6.99     | 6.94 | 6.83     | 6.74 | 6.89    | 6.69 | 7.03     | 6.86 | 6.73      | 6.53 |
| 5     | 6.91    | 6.86 | 6.98     | 6.92 | 6.92     | 6.82 | 6.83    | 6.77 | 7.04     | 6.83 | 6.77      | 6.51 |
| 6     | 6.85    | 6.75 | 7.00     | 6.96 | 6.95     | 6.88 | 6.86    | 6.79 | 6.96     | 6.86 | 6.87      | 6.76 |
| 7     | 6.95    | 6.75 | 6.96     | 6.87 | 6.90     | 6.86 | 6.85    | 6.79 | 6.95     | 6.86 | 6.84      | 6.78 |
| 8     | 7.03    | 6.91 | 6.96     | 6.82 | 6.88     | 6.83 | 6.82    | 6.68 | 6.86     | 6.79 | 6.80      | 6.70 |
| 9     | 7.04    | 7.00 | 6.88     | 6.72 | 6.87     | 6.78 | 6.72    | 6.59 | 6.84     | 6.72 | 6.80      | 6.66 |
| 10    | 7.03    | 6.96 | 6.84     | 6.73 | 6.86     | 6.75 | 6.69    | 6.61 | 6.84     | 6.77 | 6.78      | 6.73 |
| 11    | 6.98    | 6.76 | 6.87     | 6.70 | 6.81     | 6.72 | 6.71    | 6.58 | 6.80     | 6.76 | 6.76      | 6.70 |
| 12    | 6.93    | 6.75 | 6.86     | 6.83 | 6.76     | 6.71 | 6.90    | 6.61 | 6.78     | 6.75 | 6.79      | 6.70 |
| 13    | 7.00    | 6.92 | 6.83     | 6.77 | ---      | ---  | 6.83    | 6.70 | 6.75     | 6.69 | 6.85      | 6.65 |
| 14    | 7.01    | 6.98 | 6.79     | 6.71 | ---      | ---  | 6.82    | 6.71 | 6.70     | 6.65 | 6.69      | 6.63 |
| 15    | 6.99    | 6.96 | 6.71     | 6.62 | ---      | ---  | 6.93    | 6.77 | 6.76     | 6.65 | 6.64      | 6.49 |
| 16    | 7.04    | 7.00 | 6.75     | 6.60 | 7.04     | 6.87 | 6.85    | 6.79 | 6.80     | 6.76 | 6.55      | 6.47 |
| 17    | 7.07    | 7.03 | 6.85     | 6.70 | 6.99     | 6.95 | 6.88    | 6.80 | 6.85     | 6.78 | 6.60      | 6.48 |
| 18    | 7.06    | 6.88 | 6.89     | 6.82 | 6.99     | 6.86 | 6.83    | 6.70 | 6.88     | 6.78 | 6.78      | 6.56 |
| 19    | 6.89    | 6.81 | 6.87     | 6.83 | 6.87     | 6.61 | 6.74    | 6.60 | 6.83     | 6.74 | 6.80      | 6.73 |
| 20    | 6.95    | 6.81 | 6.86     | 6.82 | 6.62     | 6.44 | 6.70    | 6.58 | 6.86     | 6.77 | 6.87      | 6.79 |
| 21    | 6.98    | 6.93 | 6.83     | 6.69 | 6.80     | 6.48 | 6.91    | 6.71 | 6.84     | 6.66 | 6.91      | 6.82 |
| 22    | 6.97    | 6.95 | 6.70     | 6.56 | 6.71     | 6.59 | 6.97    | 6.89 | 6.77     | 6.69 | 6.98      | 6.89 |
| 23    | 6.98    | 6.80 | 6.82     | 6.59 | 6.77     | 6.60 | 6.96    | 6.63 | ---      | ---  | 6.92      | 6.88 |
| 24    | 6.92    | 6.83 | 6.86     | 6.79 | 6.88     | 6.70 | 6.82    | 6.76 | 6.90     | 6.86 | 6.95      | 6.90 |
| 25    | 6.92    | 6.84 | 6.85     | 6.82 | 6.89     | 6.80 | 6.82    | 6.70 | 6.91     | 6.86 | 6.98      | 6.92 |
| 26    | 6.87    | 6.78 | 6.84     | 6.77 | 6.90     | 6.57 | 6.85    | 6.72 | 6.87     | 6.82 | 6.95      | 6.90 |
| 27    | 6.79    | 6.72 | 6.77     | 6.60 | 6.73     | 6.67 | 6.86    | 6.79 | 6.84     | 6.74 | 6.95      | 6.90 |
| 28    | 6.76    | 6.70 | 6.62     | 6.45 | ---      | ---  | 6.82    | 6.71 | 6.83     | 6.72 | 6.92      | 6.80 |
| 29    | 6.81    | 6.75 | 6.79     | 6.71 | 7.07     | 6.94 | 6.78    | 6.64 | 6.80     | 6.72 | 6.81      | 6.74 |
| 30    | 6.90    | 6.81 | 6.75     | 6.71 | 7.04     | 6.90 | 6.76    | 6.63 | 6.84     | 6.80 | 6.79      | 6.73 |
| 31    | ---     | ---  | 6.78     | 6.70 | ---      | ---  | 6.72    | 6.61 | 6.97     | 6.81 | ---       | ---  |
| MONTH | 7.07    | 6.70 | 7.00     | 6.45 | 7.07     | 6.44 | 6.97    | 6.58 | 7.04     | 6.61 | 6.98      | 6.47 |
| YEAR  | 7.16    | 6.44 |          |      |          |      |         |      |          |      |           |      |

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

## APALACHICOLA RIVER BASIN

235

02337445 CHATTAHOOCHEE RIVER AT CAPPS FERRY BRIDGE, NEAR RICO, GA.

LOCATION.--Lat 33°34'40", long 84°48'31", Fulton-Douglas County line, Hydrologic Unit 03130002, at bridge on Capps Ferry Road, 2.3 mi west of Rico, 0.4 mi upstream from Mill Branch, and at mile 271.1.  
 DRAINAGE AREA.--2,270 mi<sup>2</sup>, approximately.  
 PERIOD OF RECORD.--Water years 1976-77; September 1988 to current year.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| SEP   |      |                                                 |                                                   |                                                          |                                |                                      |                                     |                                                                |                                                                 |                                                           |
| 12... | 1215 | --                                              | 127                                               | 121                                                      | 6.90                           | 23.0                                 | 5.3                                 | 63                                                             | 22                                                              | 17                                                        |
| 26... | 1030 | --                                              | 129                                               | 122                                                      | 7.08                           | 23.0                                 | 5.0                                 | 59                                                             | 24                                                              | 21                                                        |

| DATE  | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| SEP   |                                              |                                                     |                                                                    |                                                                     |                                            |                                                      |
| 12... | 7.2                                          | 10                                                  | 76                                                                 | 41                                                                  | 110                                        | 100                                                  |
| 26... | 7.4                                          | 12                                                  | 79                                                                 | 37                                                                  | 100                                        | 70                                                   |

| DATE  | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| SEP   |                                                               |                                                               |                                                               |                                                               |                                                                             |                                                   |                                             |                                                                |                                               |
| 12... | 0.080                                                         | 1.60                                                          | 0.420                                                         | 0.38                                                          | 0.80                                                                        | 2.4                                               | 0.880                                       | 0.680                                                          | 2.9                                           |
| 26... | 0.150                                                         | 2.10                                                          | 0.400                                                         | 0.32                                                          | 0.72                                                                        | 2.8                                               | 0.850                                       | 0.680                                                          | 2.6                                           |



## APALACHICOLA RIVER BASIN

02337445 CHATTAHOOCHEE RIVER AT CAPPS FERRY ROAD, NEAR RICO, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                      |                                     |                                               |                                                                 |                                                           |
| 13... | 1200 | --                                              | 145                                               | 138                                                      | 6.94                           | 17.0                                 | 7.3                                 | 76                                            | 27                                                              | 23                                                        |
| 20... | 1050 | --                                              | 159                                               | 151                                                      | 6.97                           | 19.0                                 | 5.3                                 | 58                                            | 30                                                              | 26                                                        |
| 21... | 1040 | --                                              | 137                                               | 129                                                      | 7.01                           | 17.0                                 | 6.1                                 | 65                                            | 25                                                              | 20                                                        |

| DATE  | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| OCT   |                                              |                                                     |                                                                    |                                                                     |                                            |                                                      |
| 13... | 8.5                                          | 10                                                  | 103                                                                | 53                                                                  | 50                                         | 60                                                   |
| 20... | 9.4                                          | 14                                                  | 105                                                                | 70                                                                  | 90                                         | 100                                                  |
| 21... | 7.5                                          | 14                                                  | 86                                                                 | 40                                                                  | 80                                         | 60                                                   |

| DATE  | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| OCT   |                                                               |                                                               |                                                               |                                                               |                                                                             |                                                   |                                             |                                                                |                                               |
| 13... | 0.090                                                         | 1.80                                                          | 0.400                                                         | 0.27                                                          | 0.67                                                                        | 2.5                                               | 0.780                                       | 0.710                                                          | 2.2                                           |
| 20... | 0.130                                                         | 1.80                                                          | 0.500                                                         | 0.37                                                          | 0.87                                                                        | 2.7                                               | 0.870                                       | 0.790                                                          | 3.5                                           |
| 21... | 0.110                                                         | 1.80                                                          | 0.500                                                         | 0.20                                                          | 0.70                                                                        | 2.5                                               | 0.820                                       | 0.650                                                          | 4.2                                           |

## APALACHICOLA RIVER BASIN

237

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 mi<sup>2</sup>, 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.--34 years, 56.3 ft<sup>3</sup>/s, 20.66 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,690 ft<sup>3</sup>/s, Feb. 25, 1961, gage height, 14.40 ft; minimum discharge, 2.3 ft<sup>3</sup>/s, Oct. 7, 1954, gage height, 1.56 ft.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20 | 0300 | *1,850                            | *7.19               | No other peak greater than base discharge. |      |                                   |                     |

Minimum discharge, 4.8 ft<sup>3</sup>/s, Aug. 19, 20, gage height, 1.69 ft.

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     | 17   | 18   | 18   | 30   | 31   | 29   | 29   | 35   | 15    | 9.4   | 6.1   | 6.1   |
| 2     | 16   | 18   | 18   | 31   | 39   | 29   | 29   | 33   | 15    | 9.1   | 5.6   | 5.6   |
| 3     | 15   | 18   | 18   | 30   | 89   | 29   | 29   | 31   | 14    | 11    | 5.4   | 6.3   |
| 4     | 14   | 18   | 18   | 32   | 350  | 32   | 30   | 31   | 13    | 12    | 10    | 25    |
| 5     | 15   | 18   | 17   | 29   | 113  | 30   | 27   | 30   | 13    | 15    | 12    | 37    |
| 6     | 15   | 17   | 17   | 28   | 77   | 29   | 28   | 28   | 13    | 13    | 8.6   | 15    |
| 7     | 14   | 17   | 17   | 30   | 64   | 31   | 26   | 27   | 13    | 11    | 7.6   | 12    |
| 8     | 14   | 18   | 17   | 30   | 57   | 30   | 25   | 26   | 13    | 9.5   | 11    | 10    |
| 9     | 14   | 18   | 17   | 27   | 50   | 42   | 25   | 26   | 13    | 8.6   | 8.2   | 9.6   |
| 10    | 15   | 53   | 21   | 26   | 45   | 41   | 25   | 41   | 16    | 8.2   | 7.4   | 11    |
| 11    | 14   | 32   | 19   | 26   | 43   | 34   | 33   | 32   | 13    | 8.8   | 7.0   | 14    |
| 12    | 14   | 27   | 18   | 27   | 41   | 31   | 67   | 27   | 12    | 11    | 6.8   | 14    |
| 13    | 14   | 25   | 18   | 29   | 38   | 38   | 42   | 26   | 12    | 9.9   | 6.6   | 12    |
| 14    | 14   | 31   | 19   | 29   | 37   | 33   | 36   | 26   | 12    | 11    | 6.5   | 11    |
| 15    | 14   | 37   | 62   | 28   | 41   | 31   | 33   | 25   | 11    | 12    | 6.0   | 9.7   |
| 16    | 14   | 21   | 39   | 27   | 38   | 30   | 31   | 25   | 11    | 9.2   | 5.7   | 9.7   |
| 17    | 14   | 63   | 29   | 38   | 36   | 29   | 31   | 25   | 10    | 8.4   | 5.4   | 56    |
| 18    | 14   | 36   | 26   | 46   | 35   | 31   | 49   | 23   | 9.9   | 7.9   | 5.1   | 25    |
| 19    | 14   | 27   | 24   | 46   | 38   | 32   | 53   | 22   | 9.6   | 7.6   | 4.9   | 18    |
| 20    | 14   | 24   | 25   | 499  | 36   | 29   | 41   | 21   | 11    | 7.3   | 5.2   | 16    |
| 21    | 14   | 22   | 31   | 107  | 33   | 29   | 38   | 21   | 11    | 7.2   | 8.3   | 14    |
| 22    | 14   | 21   | 37   | 72   | 32   | 28   | 35   | 20   | 11    | 11    | 8.0   | 12    |
| 23    | 15   | 20   | 30   | 57   | 32   | 28   | 50   | 19   | 10    | 19    | 8.2   | 11    |
| 24    | 16   | 20   | 28   | 50   | 32   | 28   | 62   | 20   | 9.9   | 11    | 11    | 11    |
| 25    | 16   | 20   | 27   | 47   | 31   | 36   | 56   | 21   | 11    | 9.0   | 8.4   | 10    |
| 26    | 16   | 20   | 27   | 40   | 30   | 38   | 71   | 19   | 11    | 8.2   | 6.8   | 10    |
| 27    | 22   | 20   | 29   | 37   | 31   | 32   | 53   | 18   | 11    | 7.7   | 6.5   | 9.9   |
| 28    | 19   | 19   | 45   | 35   | 30   | 30   | 43   | 17   | 9.4   | 7.6   | 6.4   | 9.7   |
| 29    | 18   | 20   | 35   | 34   | 30   | 30   | 39   | 17   | 8.6   | 7.4   | 6.3   | 9.4   |
| 30    | 18   | 19   | 30   | 33   | ---  | 29   | 37   | 16   | 8.6   | 7.1   | 5.8   | 9.4   |
| 31    | 17   | ---  | 28   | 32   | ---  | 29   | ---  | 16   | ---   | 6.5   | 5.8   | ---   |
| TOTAL | 474  | 737  | 804  | 1632 | 1579 | 977  | 1173 | 764  | 351.0 | 301.6 | 222.6 | 429.4 |
| MEAN  | 15.3 | 24.6 | 25.9 | 52.6 | 54.4 | 31.5 | 39.1 | 24.6 | 11.7  | 9.73  | 7.18  | 14.3  |
| MAX   | 22   | 63   | 62   | 499  | 350  | 42   | 71   | 41   | 16    | 19    | 12    | 56    |
| MIN   | 14   | 17   | 17   | 26   | 30   | 28   | 25   | 16   | 8.6   | 6.5   | 4.9   | 5.6   |
| CFSM  | .41  | .67  | .70  | 1.42 | 1.47 | .85  | 1.06 | .67  | .32   | .26   | .19   | .39   |
| IN.   | .48  | .74  | .81  | 1.64 | 1.59 | .98  | 1.18 | .77  | .35   | .30   | .22   | .43   |

|             |       |         |           |         |         |           |          |
|-------------|-------|---------|-----------|---------|---------|-----------|----------|
| CAL YR 1987 | TOTAL | 17564.0 | MEAN 48.1 | MAX 796 | MIN 14  | CFSM 1.30 | IN 17.66 |
| WTR YR 1988 | TOTAL | 9444.6  | MEAN 25.8 | MAX 499 | MIN 4.9 | CFSM .70  | IN 9.50  |

## 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 1987 TO SEPTEMBER 1988

|  |  | DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--|--|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|
|  |  | JUN<br>02... | 0630 | 14                                              | 32                                                | 32                                                       | 7.07                           | 7.60                                  | 21.0                                 | 7.9                                 | 91                                                             |
|  |  | AUG<br>29... | 0700 | 6.3                                             | 30                                                | 30                                                       | 7.13                           | 7.70                                  | 23.0                                 | 7.3                                 | 87                                                             |

|  |  | DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CACO3 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|--|--|--------------|----------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|
|  |  | JUN<br>02... | 13                                           | 7.0                          | 7                                               | 0                                                                 | 1.7                                          | 0.77                                                 | 2.7                                          | 41                | 0.4                                     | 0.90                                                | 7.0                                                         |
|  |  | AUG<br>29... | 22                                           | 5.2                          | 8                                               | 0                                                                 | 1.6                                          | 0.94                                                 | 2.6                                          | 39                | 0.4                                     | 0.90                                                | 11                                                          |

|  |  | DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) |
|--|--|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
|  |  | JUN<br>02... | 3.7                                           | 2.5                                                 | 0.20                                               | 9.7                                               | 30                                                                 | 23                                                                  | 1.13                                              | 0.04                                                | 0.200                                                | 0.210                                                         | 0.020                                                | 0.020                                                         |
|  |  | AUG<br>29... | 2.7                                           | 2.0                                                 | 0.10                                               | 9.5                                               | 25                                                                 | 21                                                                  | 0.43                                              | 0.03                                                | <0.100                                               | 0.120                                                         | 0.030                                                | 0.020                                                         |

|  |  | DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) |
|--|--|--------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|-------------------------------------|----------------------------------------------|
|  |  | JUN<br>02... | --                                                   | 0.98                                                          | <0.20                                                              | 1.0                                                               | --                                        | 1.2                                               | 0.030                                       | 0.010                                                | 2.1                                           | 40                                                  | <1                                  | <1                                           |
|  |  | AUG<br>29... | 0.27                                                 | 0.28                                                          | 0.30                                                               | 0.30                                                              | --                                        | 0.42                                              | 0.020                                       | <0.010                                               | 1.9                                           | 40                                                  | <1                                  | <1                                           |

|  |  | DATE         | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--|--|--------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------|
|  |  | JUN<br>02... | <1                                           | <1                                                  | 2                                            | 240                                        | <5                                                    | <5                                         | 30                                                   | 0.20                                                    | 0.2                                          | <1                                                  | <3                                         |
|  |  | AUG<br>29... | <1                                           | <1                                                  | 1                                            | 320                                        | <5                                                    | <5                                         | 27                                                   | <0.10                                                   | 0.3                                          | <1                                                  | 7                                          |

## 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 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to June 1954, January 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 682.06 ft 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.--38 years (water years 1939-53, 1966-88), 3,938 ft<sup>3</sup>/s, 22.01 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft<sup>3</sup>/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 ft<sup>3</sup>/s on basis of velocity-area and channel-capacity studies; minimum daily, 468 ft<sup>3</sup>/s, Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,200 ft<sup>3</sup>/s, Jan. 20, gage height, 14.35 ft; minimum daily, 1,110 ft<sup>3</sup>/s Aug. 15.

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     | 3870  | 1760  | 1530  | 1900  | 1880  | 1760  | 1830  | 1770  | 1180  | 1510  | 1170  | 1200  |
| 2     | 3410  | 1360  | 1570  | 2400  | 1920  | 1740  | 2340  | 1710  | 1170  | 1530  | 1940  | 1300  |
| 3     | 3340  | 1610  | 1730  | 2220  | 3910  | 1810  | 2150  | 1600  | 1180  | 1360  | 2480  | 1370  |
| 4     | 2240  | 2190  | 1720  | 2350  | 12700 | 1850  | 2040  | 1670  | 1190  | 1280  | 1970  | 2720  |
| 5     | 1510  | 2390  | 1690  | 2070  | 11600 | 1930  | 1950  | 1970  | 1350  | 1430  | 2940  | 5660  |
| 6     | 1710  | 2420  | 1690  | 1840  | 5120  | 1810  | 1800  | 1940  | 1190  | 1760  | 2820  | 2370  |
| 7     | 3090  | 2350  | 1580  | 1820  | 3420  | 1710  | 2160  | 1820  | 1180  | 1560  | 1710  | 1640  |
| 8     | 3000  | 1790  | 1470  | 1870  | 2620  | 1740  | 1980  | 1640  | 1180  | 1460  | 1660  | 1420  |
| 9     | 2800  | 1430  | 1500  | 1820  | 2380  | 2080  | 1840  | 1560  | 1190  | 1470  | 1910  | 1510  |
| 10    | 2840  | 1710  | 1640  | 1880  | 2400  | 3450  | 1670  | 1780  | 1480  | 1280  | 1830  | 1800  |
| 11    | 1790  | 3110  | 1900  | 2020  | 2400  | 2950  | 1660  | 2320  | 1380  | 1130  | 1690  | 1620  |
| 12    | 1390  | 1990  | 1830  | 1920  | 2170  | 2160  | 7860  | 1760  | 1300  | 1360  | 1680  | 1430  |
| 13    | 1490  | 1670  | 1650  | 1890  | 2070  | 2410  | 5510  | 1840  | 1130  | 1670  | 1570  | 2800  |
| 14    | 2020  | 1650  | 1530  | 2170  | 2040  | 2410  | 3200  | 1710  | 1130  | 1500  | 1320  | 2590  |
| 15    | 2140  | 1560  | 3030  | 2360  | 2070  | 1970  | 2750  | 1570  | 1120  | 1950  | 1110  | 2410  |
| 16    | 2100  | 1680  | 4290  | 2190  | 2140  | 1920  | 2360  | 1530  | 1210  | 1680  | 1140  | 1890  |
| 17    | 2090  | 3290  | 2590  | 2030  | 2000  | 2140  | 2060  | 1660  | 1610  | 1280  | 1370  | 2740  |
| 18    | 1570  | 4900  | 2100  | 4910  | 1980  | 2000  | 2250  | 1530  | 1590  | 1170  | 1320  | 3090  |
| 19    | 1280  | 2610  | 1820  | 3790  | 2030  | 2300  | 4760  | 1570  | 1630  | 1310  | 1360  | 1780  |
| 20    | 1410  | 2020  | 1930  | 13600 | 2070  | 2090  | 4360  | 1560  | 1710  | 1520  | 1450  | 1780  |
| 21    | 2120  | 1890  | 1960  | 11100 | 1930  | 1820  | 2950  | 1550  | 1480  | 1460  | 2160  | 1950  |
| 22    | 2270  | 1850  | 2750  | 5530  | 1860  | 1790  | 2480  | 1500  | 1690  | 1830  | 1800  | 1760  |
| 23    | 2240  | 1790  | 2150  | 3840  | 1850  | 1790  | 2740  | 1420  | 1540  | 4090  | 1250  | 1650  |
| 24    | 2270  | 1680  | 1850  | 2840  | 1870  | 1810  | 3640  | 1380  | 1500  | 3280  | 1740  | 1680  |
| 25    | 1800  | 1980  | 1970  | 2390  | 1870  | 1910  | 2470  | 1540  | 1410  | 1700  | 2250  | 1460  |
| 26    | 1310  | 1700  | 1990  | 2380  | 1790  | 2910  | 3210  | 1430  | 1860  | 1290  | 1540  | 1430  |
| 27    | 1600  | 1910  | 1910  | 2130  | 1790  | 2260  | 2610  | 1350  | 1440  | 1280  | 1490  | 1300  |
| 28    | 2750  | 1890  | 2430  | 2040  | 1870  | 1870  | 2360  | 1320  | 1430  | 1770  | 1280  | 1270  |
| 29    | 2440  | 1760  | 2890  | 1990  | 1780  | 1790  | 2230  | 1370  | 1560  | 1930  | 1220  | 1290  |
| 30    | 2430  | 1580  | 2360  | 1920  | ---   | 1870  | 1910  | 1200  | 1490  | 1840  | 1150  | 1240  |
| 31    | 2470  | ---   | 1890  | 1890  | ---   | 1800  | ---   | 1130  | ---   | 1490  | 1120  | ---   |
| TOTAL | 68790 | 61520 | 62940 | 95100 | 85530 | 63850 | 83130 | 49700 | 41500 | 51170 | 51440 | 58150 |
| MEAN  | 2219  | 2051  | 2030  | 3068  | 2949  | 2060  | 2771  | 1603  | 1383  | 1651  | 1659  | 1938  |
| MAX   | 3870  | 4900  | 4290  | 13600 | 12700 | 3450  | 7860  | 2320  | 1860  | 4090  | 2940  | 5660  |
| MIN   | 1280  | 1360  | 1470  | 1820  | 1780  | 1710  | 1660  | 1130  | 1120  | 1130  | 1110  | 1200  |

|             |       |         |      |      |     |       |     |      |       |      |       |      |     |       |
|-------------|-------|---------|------|------|-----|-------|-----|------|-------|------|-------|------|-----|-------|
| CAL YR 1987 | TOTAL | 1129930 | MEAN | 3096 | MAX | 26400 | MIN | 1280 | MEANT | 3012 | CFSMT | 1.24 | INT | 16.83 |
| WTR YR 1988 | TOTAL | 772820  | MEAN | 2112 | MAX | 13600 | MIN | 1110 | MEANT | 1909 | CFSMT | .79  | INT | 10.69 |

†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 analyses with the analyzing agency code 84213 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81314 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, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0830 | 81341                                                  | 1520                                            | 112                                               | 103                                                      | 6.90                           | 6.50                                  | 16.5                                 | 14.5                               | 7.0                                 | 73                                                             |
| NOV   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1150 | 81341                                                  | 1420                                            | 128                                               | 120                                                      | 6.90                           | 6.80                                  | 18.0                                 | 24.0                               | 7.0                                 | 75                                                             |
| DEC   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1050 | 81341                                                  | 1530                                            | 126                                               | 113                                                      | 7.00                           | 7.00                                  | 13.0                                 | 10.0                               | 6.9                                 | 67                                                             |
| JAN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1230 | 81341                                                  | 2040                                            | 107                                               | 97                                                       | 7.00                           | 7.00                                  | 9.0                                  | 10.0                               | 9.2                                 | 80                                                             |
| FEB   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1115 | 81341                                                  | 1900                                            | 123                                               | 110                                                      | 7.00                           | 7.00                                  | 12.5                                 | 19.5                               | 9.7                                 | 92                                                             |
| MAR   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1345 | 81341                                                  | 1790                                            | 120                                               | 109                                                      | 7.00                           | 7.10                                  | 12.0                                 | 21.0                               | 8.6                                 | 81                                                             |
| APR   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1000 | 81341                                                  | 1810                                            | 121                                               | 120                                                      | 6.90                           | 6.90                                  | 19.0                                 | 20.0                               | 5.5                                 | 61                                                             |
| MAY   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 0945 | 81341                                                  | 1630                                            | 120                                               | 120                                                      | 6.80                           | 6.80                                  | 18.0                                 | 22.5                               | 5.5                                 | 59                                                             |
| JUN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1015 | 81341                                                  | 1200                                            | 137                                               | 132                                                      | 6.90                           | 6.90                                  | 25.0                                 | 28.0                               | 4.9                                 | 61                                                             |
| JUL   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1000 | 81341                                                  | 1280                                            | 118                                               | 113                                                      | 6.80                           | 6.90                                  | 22.0                                 | 24.0                               | 5.2                                 | 60                                                             |
| AUG   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 0930 | 81341                                                  | 1690                                            | 100                                               | 99                                                       | 6.80                           | 6.70                                  | 26.0                                 | 31.0                               | 3.6                                 | 45                                                             |
| SEP   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1250 | 81341                                                  | 1420                                            | 126                                               | 122                                                      | 6.90                           | 6.90                                  | 23.5                                 | 23.0                               | 5.1                                 | 61                                                             |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 06... | 81341                                                  | 8.0                          | 1.5                                                            | 1100                                             | 19                                                            | <1                                                               | 2.35                                                 | 0.360                                                | 0.670                                       | 3.8                                           |
| NOV   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 81341                                                  | 5.0                          | 1.1                                                            | 790                                              | 21                                                            | 6                                                                | 2.15                                                 | 0.570                                                | 0.730                                       | 10                                            |
| DEC   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 01... | 81341                                                  | 10                           | 3.5                                                            | 50                                               | 25                                                            | 21                                                               | 1.98                                                 | 0.620                                                | 0.880                                       | 4.5                                           |
| JAN   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | 81341                                                  | 11                           | 1.0                                                            | 80                                               | 24                                                            | 20                                                               | 1.30                                                 | 0.720                                                | 0.690                                       | 4.9                                           |
| FEB   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 02... | 81341                                                  | 13                           | --                                                             | 20                                               | 26                                                            | 12                                                               | 1.28                                                 | 1.00                                                 | 0.670                                       | 4.9                                           |
| MAR   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 01... | 81341                                                  | 10                           | 1.5                                                            | 20                                               | 25                                                            | 6                                                                | 1.25                                                 | 1.14                                                 | 0.760                                       | 4.2                                           |
| APR   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 06... | 81341                                                  | 11                           | 2.1                                                            | 2300                                             | 23                                                            | 25                                                               | 1.80                                                 | 0.620                                                | 0.820                                       | 1.9                                           |
| MAY   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 81341                                                  | 14                           | 2.0                                                            | 1100                                             | 25                                                            | 16                                                               | 1.75                                                 | 0.540                                                | 0.580                                       | 4.4                                           |
| JUN   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 08... | 81341                                                  | 7.0                          | 1.4                                                            | 20                                               | 22                                                            | 6                                                                | 2.66                                                 | 0.270                                                | 1.12                                        | 3.3                                           |
| JUL   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | 81341                                                  | 14                           | 2.2                                                            | 130                                              | 20                                                            | 27                                                               | 2.20                                                 | 0.200                                                | 0.790                                       | 3.7                                           |
| AUG   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 04... | 81341                                                  | 170                          | 4.1                                                            | 13000                                            | 18                                                            | 138                                                              | 1.20                                                 | 0.400                                                | 0.540                                       | 6.8                                           |
| SEP   |                                                        |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 08... | 81341                                                  | 40                           | 3.3                                                            | --                                               | 20                                                            | 38                                                               | 2.05                                                 | 0.630                                                | 0.830                                       | 4.6                                           |

## APALACHICOLA RIVER BASIN

241

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 19... | 1245 | 84213                                                  | 1340                                            | 16.0                                 | 4                                         | 14                                                            |
| 19... | 1250 | 84213                                                  | 1340                                            | 16.0                                 | 4                                         | 14                                                            |
| NOV   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 30... | 1400 | 84213                                                  | 1570                                            | --                                   | 10                                        | 42                                                            |
| 30... | 1405 | 84213                                                  | 1570                                            | --                                   | 11                                        | 47                                                            |
| JAN   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 12... | 1245 | 84213                                                  | 1940                                            | 6.0                                  | 14                                        | 73                                                            |
| 12... | 1250 | 84213                                                  | 1940                                            | 6.0                                  | 16                                        | 84                                                            |
| 20... | 1149 | 84213                                                  | 15900                                           | --                                   | 1100                                      | 47500                                                         |
| 20... | 1411 | 84213                                                  | 17300                                           | --                                   | 1380                                      | 64700                                                         |
| 20... | 1416 | 84213                                                  | 17300                                           | --                                   | 1420                                      | 66600                                                         |
| 20... | 1644 | 84213                                                  | 18000                                           | --                                   | 1250                                      | 60900                                                         |
| 20... | 1649 | 84213                                                  | 18000                                           | --                                   | 1240                                      | 60200                                                         |
| 21... | 1043 | 84213                                                  | 10800                                           | --                                   | 429                                       | 12500                                                         |
| 21... | 1048 | 84213                                                  | 10800                                           | --                                   | 439                                       | 12800                                                         |
| 21... | 1339 | 84213                                                  | 9290                                            | --                                   | 390                                       | 9780                                                          |
| 21... | 1344 | 84213                                                  | 9290                                            | --                                   | 361                                       | 9050                                                          |
| FEB   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 04... | 1137 | 84213                                                  | 13100                                           | --                                   | 803                                       | 28300                                                         |
| 04... | 1142 | 84213                                                  | 13100                                           | --                                   | 799                                       | 28200                                                         |
| 04... | 1351 | 84213                                                  | 14500                                           | --                                   | 875                                       | 34200                                                         |
| 04... | 1636 | 84213                                                  | 16000                                           | --                                   | 810                                       | 35100                                                         |
| 04... | 1641 | 84213                                                  | 16000                                           | --                                   | 793                                       | 34400                                                         |
| 05... | 1026 | 84213                                                  | 13500                                           | --                                   | 431                                       | 15700                                                         |
| 05... | 1031 | 84213                                                  | 13500                                           | --                                   | 438                                       | 15900                                                         |
| 05... | 1318 | 84213                                                  | 10400                                           | --                                   | 392                                       | 11000                                                         |
| 05... | 1323 | 84213                                                  | 10400                                           | --                                   | 406                                       | 11400                                                         |
| 16... | 1345 | 84213                                                  | 2180                                            | --                                   | 22                                        | 130                                                           |
| 16... | 1350 | 84213                                                  | 2180                                            | --                                   | 22                                        | 130                                                           |
| MAR   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 21... | 1434 | 84213                                                  | 1850                                            | 14.0                                 | 23                                        | 115                                                           |
| 21... | 1439 | 84213                                                  | 1850                                            | 14.0                                 | 21                                        | 105                                                           |
| MAY   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 16... | 1400 | 84213                                                  | 1550                                            | 24.0                                 | 21                                        | 88                                                            |
| 16... | 1405 | 84213                                                  | 1550                                            | 24.0                                 | 23                                        | 96                                                            |
| JUN   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 22... | 1020 | 84213                                                  | 1650                                            | 28.0                                 | 23                                        | 103                                                           |
| 22... | 1025 | 84213                                                  | 1650                                            | 28.0                                 | 19                                        | 85                                                            |
| AUG   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 03... | 0945 | 84213                                                  | 2540                                            | --                                   | 78                                        | 535                                                           |
| 03... | 0950 | 84213                                                  | 2540                                            | --                                   | 79                                        | 542                                                           |

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.125 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.250 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.500 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>1.00 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>2.00 MM |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| JAN   |      |                                                        |                                                 |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |
| 20... | 1144 | 84213                                                  | 15900                                           | 69                                                            | 81                                                            | 94                                                            | 99                                                            | 100                                                           | 100                                                           |
| 20... | 1149 | 84213                                                  | 15900                                           | 69                                                            | --                                                            | --                                                            | --                                                            | --                                                            | --                                                            |
| 21... | 1043 | 84213                                                  | 10800                                           | 72                                                            | --                                                            | --                                                            | --                                                            | --                                                            | --                                                            |
| FEB   |      |                                                        |                                                 |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |
| 04... | 1346 | 84213                                                  | 14500                                           | 80                                                            | 90                                                            | 97                                                            | 99                                                            | 100                                                           | 100                                                           |
| 04... | 1351 | 84213                                                  | 14500                                           | 75                                                            | --                                                            | --                                                            | --                                                            | --                                                            | --                                                            |
| 05... | 1318 | 84213                                                  | 10400                                           | 76                                                            | --                                                            | --                                                            | --                                                            | --                                                            | --                                                            |



## APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.125 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.250 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.500 MM |
|-------|------|--------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| JAN   |      |                                                        |                                                 |                                                             |                                                             |                                                             |                                                             |
| 20... | 1315 | 84213                                                  | 17000                                           | --                                                          | <1                                                          | 4                                                           | 27                                                          |
| 20... | 1316 | 84213                                                  | 17000                                           | <1                                                          | <1                                                          | 4                                                           | 17                                                          |
| 20... | 1317 | 84213                                                  | 17000                                           | --                                                          | 2                                                           | 15                                                          | 30                                                          |
| 20... | 1318 | 84213                                                  | 17000                                           | <1                                                          | 3                                                           | 13                                                          | 24                                                          |
| JUN   |      |                                                        |                                                 |                                                             |                                                             |                                                             |                                                             |
| 22... | 0949 | 84213                                                  | 1650                                            | <1                                                          | <1                                                          | <1                                                          | 11                                                          |
| 22... | 0950 | 84213                                                  | 1650                                            | <1                                                          | <1                                                          | 4                                                           | 18                                                          |
| 22... | 0951 | 84213                                                  | 1650                                            | <1                                                          | 1                                                           | 2                                                           | 19                                                          |
| 22... | 0952 | 84213                                                  | 1650                                            | 22                                                          | 41                                                          | 68                                                          | 87                                                          |

| DATE  | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>1.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>2.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>4.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>8.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>16.0 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>32.0 MM |
|-------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| JAN   |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |
| 20... | 89                                                          | 100                                                         | --                                                          | --                                                          | --                                                          | --                                                          |
| 20... | 60                                                          | 92                                                          | 98                                                          | 100                                                         | --                                                          | --                                                          |
| 20... | 76                                                          | 96                                                          | 98                                                          | 98                                                          | 100                                                         | --                                                          |
| 20... | 70                                                          | 97                                                          | 100                                                         | --                                                          | --                                                          | --                                                          |
| JUN   |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |
| 22... | 42                                                          | 82                                                          | 92                                                          | 92                                                          | 93                                                          | 100                                                         |
| 22... | 52                                                          | 84                                                          | 98                                                          | 100                                                         | 100                                                         | --                                                          |
| 22... | 92                                                          | 100                                                         | 100                                                         | --                                                          | --                                                          | --                                                          |
| 22... | 98                                                          | 100                                                         | 100                                                         | --                                                          | --                                                          | --                                                          |

## APALACHICOLA RIVER BASIN

243

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 mi<sup>2</sup>, 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 1987 TO SEPTEMBER 1988

| DATE      | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 06... | 1025 | 95                                                | 89                                                       | 7.10                           | 6.80                                  | 17.5                                 | 22.0                               | 8.3                                 | 89                                                             |
| NOV 03... | 1245 | 112                                               | 114                                                      | 7.10                           | 7.00                                  | 19.0                                 | 25.5                               | 9.0                                 | 99                                                             |
| DEC 01... | 1245 | 121                                               | 114                                                      | 7.10                           | 7.30                                  | 14.0                                 | 10.0                               | 8.1                                 | 81                                                             |
| JAN 05... | 1330 | 110                                               | 101                                                      | 7.10                           | 7.10                                  | 10.0                                 | 9.0                                | 10.0                                | 89                                                             |
| FEB 02... | 1250 | 130                                               | 119                                                      | 7.10                           | 7.10                                  | 13.5                                 | 22.0                               | 8.8                                 | 86                                                             |
| MAR 01... | 1445 | 128                                               | 121                                                      | 7.30                           | 7.30                                  | 14.0                                 | 21.5                               | 10.3                                | 101                                                            |
| APR 06... | 1150 | 115                                               | 116                                                      | 7.00                           | 7.00                                  | 21.0                                 | 21.0                               | 6.3                                 | 73                                                             |
| MAY 03... | 1030 | 135                                               | 136                                                      | 6.90                           | 6.90                                  | 19.5                                 | 25.5                               | 6.2                                 | 69                                                             |
| JUN 08... | 1200 | 146                                               | 143                                                      | 7.30                           | 7.20                                  | 27.0                                 | 29.0                               | 7.0                                 | 90                                                             |
| JUL 05... | 1100 | 104                                               | 101                                                      | 7.00                           | 6.90                                  | 23.0                                 | 27.0                               | 6.8                                 | 80                                                             |
| AUG 04... | 1145 | 110                                               | 107                                                      | 6.90                           | 6.90                                  | 29.5                                 | 32.0                               | 5.2                                 | 69                                                             |
| SEP 08... | 1400 | 100                                               | 99                                                       | 7.20                           | 7.10                                  | 23.0                                 | 23.5                               | 7.2                                 | 86                                                             |

| DATE      | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 06... | 9.0                          | 1.2                                                            | 330                                              | 15                                                              | <1                                                                | 1.16                                                 | 0.060                                                | 0.320                                       | 3.0                                           |
| NOV 03... | 5.0                          | 1.1                                                            | 790                                              | 18                                                              | 1                                                                 | 1.43                                                 | 0.130                                                | 0.430                                       | 22                                            |
| DEC 01... | 14                           | 1.3                                                            | 80                                               | 22                                                              | --                                                                | 1.88                                                 | 0.230                                                | 0.560                                       | 3.7                                           |
| JAN 05... | 16                           | 1.0                                                            | 50                                               | 20                                                              | 29                                                                | 0.710                                                | 0.450                                                | 0.710                                       | 3.4                                           |
| FEB 02... | 12                           | 1.2                                                            | 20                                               | 24                                                              | 14                                                                | 1.42                                                 | 0.770                                                | 0.520                                       | 3.9                                           |
| MAR 01... | 7.0                          | 0.8                                                            | <20                                              | 24                                                              | 3                                                                 | 1.47                                                 | 0.440                                                | 0.500                                       | 3.6                                           |
| APR 06... | 11                           | 1.7                                                            | 1000                                             | 20                                                              | 25                                                                | 2.00                                                 | 0.300                                                | 0.660                                       | 2.9                                           |
| MAY 03... | 10                           | 2.3                                                            | 330                                              | 24                                                              | 12                                                                | 1.50                                                 | 0.570                                                | 0.520                                       | 5.3                                           |
| JUN 08... | 14                           | 1.5                                                            | 130                                              | 22                                                              | 21                                                                | 2.10                                                 | 0.070                                                | 0.700                                       | 3.0                                           |
| JUL 05... | 51                           | 2.2                                                            | 4900                                             | 16                                                              | 98                                                                | 1.46                                                 | 0.100                                                | 0.610                                       | 5.8                                           |
| AUG 04... | 60                           | 2.1                                                            | 790                                              | 16                                                              | 63                                                                | 1.70                                                 | 0.150                                                | 0.860                                       | 5.1                                           |
| SEP 08... | 34                           | 1.6                                                            | --                                               | 16                                                              | 37                                                                | 1.57                                                 | 0.100                                                | 0.380                                       | 4.1                                           |

## APALACHICOLA RIVER BASIN

02338660 NEW RIVER NEAR CORINTH, GA.

LOCATION.--Lat 33°14'07", long 84°59'16", Heard County, Hydrologic Unit 03130002, at bridge on State Highway 100, 1.7 mi downstream of Caney Creek, 2.5 mi west of Corinth, 3.9 mi downstream of Mountain Creek, and 8.1 mi upstream of Chattahoochee River.

DRAINAGE AREA.--127 mi<sup>2</sup>.

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: Oct. 1-19. 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.--10 years, 141 ft<sup>3</sup>/s, 15.08 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.92 ft, April 14, 1979 (discharge not determined); minimum daily discharge, 0.24 ft<sup>3</sup>/s, Aug. 7, 1986.

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

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|
| Feb. 5 | 0100 | *1,930                            | *9.63               |

Minimum daily discharge, 2.9 ft<sup>3</sup>/s, Sept. 1, 2.

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     | 14   | 25   | 42   | 98   | 111  | 89   | 86   | 78   | 25    | 5.7   | 4.7   | 2.9    |
| 2     | 13   | 26   | 40   | 155  | 110  | 87   | 85   | 72   | 24    | 5.3   | 4.3   | 2.9    |
| 3     | 12   | 26   | 39   | 164  | 259  | 87   | 95   | 67   | 22    | 8.1   | 3.8   | 3.3    |
| 4     | 11   | 27   | 39   | 198  | 963  | 105  | 105  | 67   | 19    | 39    | 3.8   | 94     |
| 5     | 11   | 28   | 38   | 155  | 1380 | 107  | 92   | 71   | 18    | 55    | 5.4   | 471    |
| 6     | 12   | 27   | 37   | 118  | 575  | 94   | 86   | 63   | 24    | 37    | 14    | 323    |
| 7     | 11   | 26   | 37   | 112  | 356  | 90   | 84   | 57   | 21    | 23    | 16    | 82     |
| 8     | 11   | 26   | 38   | 133  | 276  | 87   | 74   | 54   | 16    | 15    | 32    | 52     |
| 9     | 10   | 27   | 38   | 115  | 215  | 107  | 70   | 52   | 15    | 10    | 31    | 37     |
| 10    | 11   | 42   | 42   | 110  | 177  | 165  | 68   | 87   | 14    | 20    | 14    | 41     |
| 11    | 12   | 60   | 44   | 112  | 154  | 128  | 75   | 127  | 13    | 12    | 8.4   | 54     |
| 12    | 12   | 46   | 42   | 112  | 141  | 106  | 195  | 77   | 12    | 17    | 6.1   | 50     |
| 13    | 12   | 36   | 39   | 122  | 129  | 118  | 155  | 64   | 11    | 46    | 5.0   | 39     |
| 14    | 12   | 33   | 40   | 130  | 122  | 123  | 102  | 65   | 10    | 33    | 4.4   | 30     |
| 15    | 11   | 32   | 104  | 111  | 136  | 100  | 88   | 57   | 8.7   | 20    | 4.1   | 24     |
| 16    | 11   | 32   | 140  | 99   | 150  | 92   | 80   | 57   | 8.0   | 14    | 4.0   | 22     |
| 17    | 11   | 107  | 84   | 113  | 124  | 89   | 74   | 66   | 7.6   | 10    | 3.9   | 570    |
| 18    | 12   | 198  | 62   | 291  | 116  | 94   | 105  | 60   | 7.2   | 7.4   | 3.6   | 1270   |
| 19    | 12   | 99   | 55   | 390  | 128  | 123  | 301  | 49   | 6.7   | 6.1   | 3.4   | 547    |
| 20    | 13   | 66   | 54   | 756  | 127  | 104  | 228  | 43   | 6.4   | 5.6   | 3.9   | 214    |
| 21    | 12   | 54   | 73   | 1110 | 113  | 93   | 141  | 39   | 6.7   | 5.5   | 15    | 195    |
| 22    | 12   | 48   | 182  | 470  | 106  | 88   | 120  | 37   | 7.0   | 7.0   | 18    | 130    |
| 23    | 13   | 45   | 153  | 278  | 103  | 85   | 128  | 41   | 6.1   | 27    | 13    | 95     |
| 24    | 15   | 43   | 98   | 207  | 102  | 84   | 227  | 45   | 10    | 45    | 9.3   | 76     |
| 25    | 17   | 43   | 83   | 204  | 98   | 94   | 152  | 56   | 7.9   | 24    | 7.4   | 62     |
| 26    | 18   | 43   | 77   | 190  | 94   | 181  | 208  | 50   | 7.3   | 17    | 6.0   | 66     |
| 27    | 32   | 43   | 80   | 152  | 94   | 126  | 148  | 41   | 10    | 9.6   | 4.9   | 55     |
| 28    | 40   | 43   | 167  | 138  | 92   | 101  | 109  | 37   | 11    | 6.9   | 4.1   | 46     |
| 29    | 34   | 45   | 251  | 129  | 90   | 92   | 94   | 32   | 8.3   | 5.4   | 3.6   | 39     |
| 30    | 26   | 44   | 133  | 121  | ---  | 89   | 83   | 29   | 6.4   | 4.8   | 3.2   | 35     |
| 31    | 25   | ---  | 101  | 115  | ---  | 87   | ---  | 27   | ---   | 4.8   | 3.0   | ---    |
| TOTAL | 478  | 1440 | 2452 | 6708 | 6641 | 3215 | 3658 | 1767 | 369.3 | 546.2 | 263.3 | 4728.1 |
| MEAN  | 15.4 | 48.0 | 79.1 | 216  | 229  | 104  | 122  | 57.0 | 12.3  | 17.6  | 8.49  | 158    |
| MAX   | 40   | 198  | 251  | 1110 | 1380 | 181  | 301  | 127  | 25    | 55    | 32    | 1270   |
| MIN   | 10   | 25   | 37   | 98   | 90   | 84   | 68   | 27   | 6.1   | 4.8   | 3.0   | 2.9    |
| CFSM  | .12  | .38  | .62  | 1.70 | 1.80 | .82  | .96  | .45  | .10   | .14   | .07   | 1.24   |
| IN.   | .14  | .42  | .72  | 1.96 | 1.95 | .94  | 1.07 | .52  | .11   | .16   | .08   | 1.38   |

|             |       |         |      |      |     |      |     |     |      |     |    |       |
|-------------|-------|---------|------|------|-----|------|-----|-----|------|-----|----|-------|
| CAL YR 1987 | TOTAL | 44233.0 | MEAN | 121  | MAX | 1590 | MIN | 10  | CFSM | .95 | IN | 12.96 |
| WTR YR 1988 | TOTAL | 32265.9 | MEAN | 88.2 | MAX | 1380 | MIN | 2.9 | CFSM | .69 | IN | 9.45  |

## APALACHICOLA RIVER BASIN

245

02338720 CHATTAHOOCHEE RIVER NEAR LAGRANGE, GA.

LOCATION.--Lat 33°04'42", long 85°06'39", Troup County, Hydrologic Unit 03130002, at the City of LaGrange water intake, 1.2 mi upstream from Yellowjacket Creek, and 5.3 mi northwest of LaGrange.

DRAINAGE AREA.--3,010 mi<sup>2</sup>, 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1115 | 93                                                | 88                                                       | 8.10                           | 7.20                                  | 21.0                                 | 24.0                               | 9.2                                 | 106                                                            |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1340 | 118                                               | 116                                                      | 7.00                           | 7.00                                  | 17.0                                 | 27.5                               | 8.5                                 | 89                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1345 | 120                                               | 112                                                      | 7.00                           | 7.10                                  | 13.5                                 | 12.5                               | 7.7                                 | 76                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1415 | 100                                               | 73                                                       | 7.10                           | 7.10                                  | 10.5                                 | 9.5                                | 9.5                                 | 85                                                             |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1345 | 83                                                | 78                                                       | 7.00                           | 7.00                                  | 11.0                                 | 21.0                               | 9.8                                 | 90                                                             |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1540 | 118                                               | 112                                                      | 7.60                           | 7.50                                  | 15.0                                 | 22.0                               | 10.3                                | 104                                                            |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1240 | 108                                               | 110                                                      | 7.80                           | 7.60                                  | 20.0                                 | 21.0                               | 9.6                                 | 108                                                            |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1130 | 93                                                | 97                                                       | 8.60                           | 8.30                                  | 21.5                                 | 25.0                               | 10.7                                | 123                                                            |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1300 | 147                                               | 130                                                      | 10.00                          | 9.80                                  | 28.0                                 | 30.0                               | 16.2                                | 213                                                            |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1315 | 140                                               | 117                                                      | 10.20                          | 10.20                                 | 32.0                                 | 34.5                               | 17.0                                | 237                                                            |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1500 | 112                                               | 121                                                      | 7.50                           | 7.30                                  | 24.0                                 | 26.5                               | 7.3                                 | 89                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|
| OCT   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 06... | 3.0                          | 13                                                             | 3.9                                                            | <20                                              | 20                                                            | <1                                                               |
| NOV   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 03... | 4.0                          | 11                                                             | 1.4                                                            | 20                                               | 20                                                            | 2                                                                |
| DEC   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 01... | 10                           | 7                                                              | 2.3                                                            | <20                                              | 23                                                            | 13                                                               |
| JAN   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 05... | 14                           | 7                                                              | 1.0                                                            | 50                                               | 20                                                            | 28                                                               |
| FEB   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 02... | 30                           | 8                                                              | 1.1                                                            | 20                                               | 16                                                            | 12                                                               |
| MAR   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 01... | 10                           | 10                                                             | 1.0                                                            | <20                                              | 24                                                            | 7                                                                |
| APR   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 06... | 5.0                          | 13                                                             | 1.9                                                            | 20                                               | 21                                                            | 18                                                               |
| MAY   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 03... | 5.0                          | 31                                                             | 4.1                                                            | <20                                              | 19                                                            | 5                                                                |
| JUN   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 08... | 6.0                          | 35                                                             | 5.8                                                            | <20                                              | 27                                                            | 7                                                                |
| AUG   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 04... | 9.0                          | --                                                             | 6.5                                                            | <20                                              | 22                                                            | 12                                                               |
| SEP   |                              |                                                                |                                                                |                                                  |                                                               |                                                                  |
| 08... | 5.0                          | --                                                             | 3.1                                                            | --                                               | 20                                                            | 6                                                                |

## APALACHICOLA RIVER BASIN

02338720 CHATTAHOOCHEE RIVER NEAR LAGRANGE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 06... | 1.00                                                 | 0.040                                                | 0.66                                                 | 0.70                                                               | 1.7                                       | 0.210                                       | 3.9                                           |
| NOV   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 03... | 1.08                                                 | 0.180                                                | 0.02                                                 | 0.20                                                               | 1.3                                       | 0.490                                       | 8.6                                           |
| DEC   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 01... | 1.43                                                 | 0.380                                                | 0.52                                                 | 0.90                                                               | 2.3                                       | 0.380                                       | 3.6                                           |
| JAN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 05... | 1.30                                                 | 0.240                                                | 0.46                                                 | 0.70                                                               | 2.0                                       | 0.440                                       | 3.0                                           |
| FEB   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 02... | 0.740                                                | 0.280                                                | 0.32                                                 | 0.60                                                               | 1.3                                       | 0.170                                       | 5.0                                           |
| MAR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 01... | 1.26                                                 | 0.420                                                | 0.48                                                 | 0.90                                                               | 2.2                                       | 0.350                                       | 3.6                                           |
| APR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 06... | 1.29                                                 | 0.110                                                | 0.49                                                 | 0.60                                                               | 1.9                                       | 0.300                                       | 3.5                                           |
| MAY   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 03... | 0.840                                                | 0.570                                                | 0.93                                                 | 1.5                                                                | 2.3                                       | 0.200                                       | 6.6                                           |
| JUN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 08... | 0.210                                                | 0.080                                                | 1.1                                                  | 1.2                                                                | 1.4                                       | 0.140                                       | 3.8                                           |
| AUG   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 04... | 0.300                                                | 0.040                                                | --                                                   | --                                                                 | --                                        | 0.350                                       | 6.8                                           |
| SEP   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 08... | 1.52                                                 | 0.070                                                | --                                                   | --                                                                 | --                                        | 0.300                                       | 3.6                                           |

02339000 YELLOWJACKET CREEK NEAR LAGRANGE, GA.

LOCATION.--Lat 33°05'27", long 85°03'40", Troup County, Hydrologic Unit 03130002, at the bridge on State Highway 219, 4.3 mi northwest of LaGrange.

DRAINAGE AREA.--182 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1956 to February 1970; June 1975; September 1988.

REMARKS.--Samples marked "E" were unchilled during shipment to analytical laboratory.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| SEP   |      |                                                 |                                                   |                                                          |                                |                                      |                                     |                                                                |                                                                 |                                                           |
| 08... | 1435 | --                                              | 103                                               | 99                                                       | 7.39                           | 24.5                                 | 6.2                                 | 76                                                             | 27                                                              | 24                                                        |
| 08... | 1445 | --                                              | 105                                               | 99                                                       | 7.49                           | 25.5                                 | 7.2                                 | 89                                                             | 27                                                              | 25                                                        |

| DATE  | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| SEP   |                                              |                                                     |                                                                    |                                                                     |                                            |                                                      |
| 08... | 6.7                                          | 4.9                                                 | 56                                                                 | 18                                                                  | <10                                        | 20                                                   |
| 08... | 6.6                                          | 5.4                                                 | 59                                                                 | 10                                                                  | 10                                         | <10                                                  |

| DATE  | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|
| SEP   |                                                               |                                                               |                                                               |                                                               |                                                                             |                                                   |                                             |                                                      |                                               |
| 08... | <0.010                                                        | E0.020                                                        | 0.050                                                         | --                                                            | <0.20                                                                       | --                                                | --                                          | <0.010                                               | 3.0                                           |
| 08... | <0.010                                                        | E0.020                                                        | 0.040                                                         | --                                                            | E2.0                                                                        | --                                                | --                                          | <0.010                                               | 2.9                                           |



## APALACHICOLA RIVER BASIN

02339190 CHATTAHOOCHEE RIVER AT STATE HIGHWAY 109, NEAR ABBOTTSFORD, GA.

LOCATION.--Lat 33°01'46", long 85°09'51", Troup County, Hydrologic Unit 03130002, at the bridge on State Highway 109, 1.7 mi southeast of Abbottsford, and at mile 210.

DRAINAGE AREA.--3,260 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--Water years 1927; 1975-76; 1978-79; September 1988.

REMARKS.--Samples marked "E" were unchilled during shipment to analytical laboratory.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| SEP   |      |                                                 |                                                   |                                                          |                                |                                      |                                     |                                                                |                                                                 |                                                           |
| 08... | 1055 | --                                              | 123                                               | 121                                                      | 7.60                           | 25.0                                 | 3.8                                 | 47                                                             | 25                                                              | 21                                                        |
| 08... | 1110 | --                                              | 124                                               | 121                                                      | 7.68                           | 25.0                                 | 4.4                                 | 54                                                             | 24                                                              | 21                                                        |

| DATE  | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| SEP   |                                              |                                                     |                                                                    |                                                                     |                                            |                                                      |
| 08... | 8.2                                          | 8.4                                                 | 75                                                                 | 12                                                                  | 20                                         | 10                                                   |
| 08... | 8.2                                          | 8.3                                                 | 71                                                                 | 5                                                                   | 10                                         | 40                                                   |

| DATE  | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTH,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|---------------------------------------------------------------|-----------------------------------------------|
| SEP   |                                                               |                                                               |                                                               |                                                               |                                                                   |                                                   |                                             |                                                               |                                               |
| 08... | E0.030                                                        | E0.770                                                        | 0.250                                                         | --                                                            | E0.33                                                             | --                                                | --                                          | E0.050                                                        | 3.0                                           |
| 08... | E0.040                                                        | E0.750                                                        | 0.220                                                         | --                                                            | E1.2                                                              | --                                                | --                                          | E0.040                                                        | 3.0                                           |

## 02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.

LOCATION.--Lat 32°53'10", long 85°10'56", Troup County, Hydrologic Unit 03130002, on right bank just downstream from Oseligee Creek at West Point, 1 mi 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 mi<sup>2</sup>, 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.--Estimated daily discharges: Mar. 21-22. 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.--92 years, 5,559 ft<sup>3</sup>/s, 21.27 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134,000 ft<sup>3</sup>/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 ft<sup>3</sup>/s on basis of computation of peak flow over Langdale Dam; minimum discharge, 224 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,500 ft<sup>3</sup>/s, Feb. 18, gage height, 9.82 ft; minimum daily discharge, 576 ft<sup>3</sup>/s, Sept. 3.

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     | 3390  | 758   | 2140  | 2990   | 4160   | 2160  | 2430  | 855   | 3230  | 3380  | 1980  | 1860  |
| 2     | 3300  | 4770  | 2130  | 941    | 4700   | 3480  | 871   | 2080  | 3240  | 686   | 2000  | 1880  |
| 3     | 731   | 4870  | 2190  | 950    | 5250   | 2180  | 887   | 2100  | 3260  | 706   | 2100  | 576   |
| 4     | 723   | 4880  | 2120  | 3620   | 7350   | 2200  | 2210  | 2110  | 745   | 2100  | 2200  | 875   |
| 5     | 3290  | 4970  | 784   | 3570   | 11200  | 891   | 2170  | 2090  | 738   | 2380  | 1960  | 4660  |
| 6     | 1960  | 5010  | 778   | 3540   | 9850   | 844   | 2120  | 2100  | 3290  | 2250  | 636   | 4300  |
| 7     | 2000  | 798   | 2110  | 3490   | 6340   | 3340  | 2180  | 838   | 3290  | 2120  | 652   | 2000  |
| 8     | 2040  | 760   | 2150  | 3580   | 8300   | 2210  | 3450  | 838   | 3300  | 2070  | 2010  | 1940  |
| 9     | 2030  | 2150  | 2150  | 1020   | 8620   | 2240  | 842   | 2090  | 3290  | 709   | 1990  | 1930  |
| 10    | 732   | 2210  | 2150  | 990    | 8590   | 2280  | 838   | 2110  | 3280  | 706   | 1960  | 653   |
| 11    | 737   | 2190  | 2150  | 2090   | 8660   | 2260  | 2140  | 2770  | 727   | 2060  | 1970  | 733   |
| 12    | 2630  | 2210  | 802   | 2290   | 8730   | 866   | 2320  | 2730  | 731   | 2060  | 2000  | 3250  |
| 13    | 2680  | 2210  | 797   | 2160   | 974    | 861   | 2220  | 2670  | 5720  | 2110  | 610   | 3220  |
| 14    | 2680  | 777   | 2150  | 2160   | 851    | 2200  | 4630  | 837   | 5730  | 2050  | 626   | 3190  |
| 15    | 2670  | 778   | 2200  | 2150   | 6060   | 2210  | 2200  | 834   | 5740  | 2020  | 1950  | 3190  |
| 16    | 2660  | 2200  | 2210  | 851    | 6120   | 2270  | 853   | 6380  | 5710  | 709   | 1910  | 3190  |
| 17    | 771   | 2350  | 2150  | 883    | 6170   | 1530  | 843   | 6430  | 5810  | 709   | 1910  | 727   |
| 18    | 747   | 2350  | 2120  | 2320   | 6400   | 2210  | 2140  | 3940  | 694   | 2060  | 1910  | 838   |
| 19    | 4550  | 4920  | 818   | 2550   | 6350   | 919   | 2460  | 3290  | 697   | 2080  | 1970  | 3860  |
| 20    | 4600  | 5020  | 813   | 3000   | 909    | 884   | 2300  | 3250  | 4020  | 2050  | 592   | 3800  |
| 21    | 4600  | 826   | 6040  | 9490   | 850    | 2150  | 2180  | 760   | 3970  | 2030  | 597   | 3780  |
| 22    | 4600  | 787   | 3790  | 8730   | 2200   | 2150  | 2160  | 761   | 4030  | 2110  | 1930  | 3770  |
| 23    | 4600  | 5520  | 3590  | 8530   | 2220   | 2160  | 1860  | 2610  | 4060  | 700   | 1910  | 3750  |
| 24    | 764   | 4890  | 6040  | 8630   | 2210   | 2170  | 933   | 2560  | 4030  | 708   | 1920  | 635   |
| 25    | 739   | 4910  | 6170  | 7360   | 2200   | 2200  | 4770  | 3180  | 687   | 2080  | 1930  | 631   |
| 26    | 5210  | 2850  | 943   | 7420   | 2170   | 966   | 2110  | 3200  | 696   | 1980  | 1910  | 2500  |
| 27    | 5300  | 5040  | 826   | 7390   | 823    | 916   | 2120  | 3170  | 3230  | 1960  | 579   | 2510  |
| 28    | 5310  | 792   | 2980  | 7410   | 818    | 2190  | 889   | 708   | 3340  | 1980  | 582   | 2480  |
| 29    | 5300  | 794   | 3320  | 7430   | 2130   | 2190  | 859   | 705   | 3360  | 2010  | 1920  | 2530  |
| 30    | 5380  | 2130  | 3000  | 998    | ---    | 2190  | 858   | 3170  | 3360  | 630   | 1880  | 2500  |
| 31    | 784   | ---   | 2980  | 887    | ---    | 2230  | ---   | 3220  | ---   | 639   | 1890  | ---   |
| TOTAL | 87508 | 84720 | 74591 | 119420 | 141205 | 59547 | 58843 | 74386 | 94005 | 51842 | 49984 | 71758 |
| MEAN  | 2823  | 2824  | 2406  | 3852   | 4869   | 1921  | 1961  | 2400  | 3134  | 1672  | 1612  | 2392  |
| MAX   | 5380  | 5520  | 6170  | 9490   | 11200  | 3480  | 4770  | 6430  | 5810  | 3380  | 2200  | 4660  |
| MIN   | 723   | 758   | 778   | 851    | 818    | 844   | 838   | 705   | 687   | 630   | 579   | 576   |

|             |       |         |      |      |     |       |     |     |       |      |       |      |     |       |
|-------------|-------|---------|------|------|-----|-------|-----|-----|-------|------|-------|------|-----|-------|
| CAL YR 1987 | TOTAL | 1554750 | MEAN | 4260 | MAX | 16400 | MIN | 609 | MEANT | 3955 | CFSMT | 1.11 | INT | 15.12 |
| WTR YR 1988 | TOTAL | 967809  | MEAN | 2644 | MAX | 11200 | MIN | 576 | MEANT | 2543 | CFSMT | .72  | INT | 9.75  |

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER AND WEST POINT LAKE.

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 3.36 | 2.01 | 2.80 | 3.23 | 3.84 | 2.82 | 3.00 | 2.15 | 3.43 | 3.40 | 2.69 | 2.59 |
| 2           | 3.29 | 4.07 | 2.79 | 2.22 | 4.10 | 3.50 | 2.17 | 2.79 | 3.43 | 2.06 | 2.70 | 2.60 |
| 3           | 1.97 | 4.13 | 2.82 | 2.23 | 4.41 | 2.83 | 2.18 | 2.80 | 3.45 | 2.08 | 2.77 | 1.91 |
| 4           | 1.96 | 4.13 | 2.79 | 3.59 | 5.38 | 2.85 | 2.86 | 2.80 | 2.12 | 2.81 | 2.82 | 2.15 |
| 5           | 3.28 | 4.17 | 2.09 | 3.56 | 7.08 | 2.18 | 2.84 | 2.79 | 2.12 | 3.01 | 2.68 | 4.11 |
| 6           | 2.63 | 4.19 | 2.09 | 3.54 | 6.49 | 2.14 | 2.81 | 2.80 | 3.38 | 2.93 | 1.96 | 3.88 |
| 7           | 2.65 | 2.06 | 2.78 | 3.52 | 4.91 | 3.43 | 2.84 | 2.14 | 3.38 | 2.81 | 1.98 | 2.68 |
| 8           | 2.67 | 2.03 | 2.80 | 3.58 | 5.79 | 2.89 | 3.50 | 2.14 | 3.38 | 2.78 | 2.70 | 2.64 |
| 9           | 2.67 | 2.77 | 2.80 | 2.28 | 5.94 | 2.91 | 2.14 | 2.79 | 3.38 | 2.07 | 2.69 | 2.62 |
| 10          | 1.97 | 2.81 | 2.81 | 2.26 | 5.92 | 2.94 | 2.14 | 2.81 | 3.37 | 2.07 | 2.67 | 1.94 |
| 11          | 1.97 | 2.79 | 2.81 | 2.84 | 5.95 | 2.93 | 2.83 | 3.13 | 2.11 | 2.77 | 2.67 | 2.01 |
| 12          | 2.95 | 2.80 | 2.11 | 2.92 | 5.97 | 2.16 | 2.95 | 3.11 | 2.11 | 2.77 | 2.68 | 3.28 |
| 13          | 2.99 | 2.80 | 2.11 | 2.83 | 2.23 | 2.16 | 2.88 | 3.07 | 4.52 | 2.79 | 1.94 | 3.25 |
| 14          | 2.99 | 2.06 | 2.80 | 2.83 | 2.15 | 2.89 | 4.06 | 2.14 | 4.52 | 2.80 | 1.96 | 3.24 |
| 15          | 2.98 | 2.06 | 2.86 | 2.82 | 4.72 | 2.89 | 2.86 | 2.14 | 4.52 | 2.78 | 2.66 | 3.23 |
| 16          | 2.97 | 2.81 | 2.86 | 2.15 | 4.76 | 2.92 | 2.15 | 4.86 | 4.51 | 2.06 | 2.63 | 3.23 |
| 17          | 2.00 | 2.92 | 2.82 | 2.18 | 4.78 | 2.52 | 2.14 | 4.90 | 4.56 | 2.06 | 2.64 | 2.01 |
| 18          | 1.98 | 2.93 | 2.80 | 2.95 | 4.86 | 2.89 | 2.82 | 3.69 | 2.09 | 2.80 | 2.62 | 2.10 |
| 19          | 3.96 | 4.17 | 2.12 | 3.10 | 4.87 | 2.20 | 3.05 | 3.37 | 2.09 | 2.82 | 2.68 | 3.58 |
| 20          | 4.00 | 4.21 | 2.12 | 3.39 | 2.20 | 2.18 | 2.95 | 3.36 | 3.71 | 2.76 | 1.92 | 3.55 |
| 21          | 3.99 | 2.11 | 4.70 | 6.35 | 2.15 | ---  | 2.86 | 2.11 | 3.69 | 2.74 | 1.93 | 3.53 |
| 22          | 3.99 | 2.08 | 3.71 | 5.94 | 2.84 | ---  | 2.84 | 2.11 | 3.72 | 2.78 | 2.65 | 3.52 |
| 23          | 3.99 | 4.44 | 3.53 | 5.89 | 2.85 | 2.83 | 2.71 | 3.11 | 3.73 | 2.04 | 2.63 | 3.51 |
| 24          | 2.01 | 4.16 | 4.70 | 5.95 | 2.84 | 2.83 | 2.22 | 3.08 | 3.71 | 2.04 | 2.64 | 1.92 |
| 25          | 1.99 | 4.16 | 4.78 | 5.35 | 2.84 | 2.85 | 4.08 | 3.40 | 2.07 | 2.76 | 2.64 | 1.92 |
| 26          | 4.28 | 3.12 | 2.21 | 5.39 | 2.83 | 2.24 | 2.81 | 3.42 | 2.08 | 2.68 | 2.63 | 2.90 |
| 27          | 4.33 | 4.23 | 2.13 | 5.37 | 2.13 | 2.20 | 2.82 | 3.40 | 3.42 | 2.67 | 1.91 | 2.91 |
| 28          | 4.34 | 2.09 | 3.24 | 5.37 | 2.12 | 2.85 | 2.18 | 2.08 | 3.39 | 2.69 | 1.91 | 2.89 |
| 29          | 4.33 | 2.10 | 3.41 | 5.38 | 2.80 | 2.85 | 2.16 | 2.08 | 3.40 | 2.70 | 2.63 | 2.91 |
| 30          | 4.37 | 2.80 | 3.24 | 2.25 | ---  | 2.85 | 2.16 | 3.40 | 3.39 | 1.96 | 2.61 | 2.90 |
| 31          | 2.03 | ---  | 3.22 | 2.18 | ---  | 2.88 | ---  | 3.42 | ---  | 1.97 | 2.61 | ---  |
| MEAN        | 3.06 | 3.11 | 2.93 | 3.66 | 4.13 | ---  | 2.73 | 2.95 | 3.29 | 2.56 | 2.48 | 2.85 |
| MAX         | 4.37 | 4.44 | 4.78 | 6.35 | 7.08 | ---  | 4.08 | 4.90 | 4.56 | 3.40 | 2.82 | 4.11 |
| MIN         | 1.96 | 2.01 | 2.09 | 2.15 | 2.12 | ---  | 2.14 | 2.08 | 2.07 | 1.96 | 1.91 | 1.91 |
| CAL YR 1987 | MEAN |      |      |      |      |      |      |      |      |      |      |      |

## 02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

## WATER-QUALITY RECORDS

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

REMARKS.--Laboratory analyses with the analyzing agency codes 81213 and 84213 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing code 81314 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. Samples marked "E" were unchilled during shipment to analytical laboratory.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1300 | 81341                                                  | 9520                                            | 85                                                | 79                                                       | 7.00                           | 6.50                                  | 23.0                                 | 26.0                               | 6.3                                 | 75                                                             |
| NOV   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1520 | 81341                                                  | 790                                             | 85                                                | 83                                                       | 7.00                           | 6.90                                  | 19.0                                 | 27.5                               | 9.1                                 | 100                                                            |
| DEC   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1515 | 81341                                                  | 778                                             | 89                                                | 85                                                       | 7.00                           | 7.20                                  | 12.5                                 | 12.5                               | 8.4                                 | 81                                                             |
| JAN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1540 | 81341                                                  | 900                                             | 74                                                | 70                                                       | 7.20                           | 7.30                                  | 8.5                                  | 10.0                               | 10.8                                | 93                                                             |
| FEB   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1510 | 81341                                                  | 925                                             | 85                                                | 79                                                       | 7.10                           | 7.00                                  | 11.0                                 | 21.0                               | 10.4                                | 95                                                             |
| MAR   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1650 | 81341                                                  | 814                                             | 64                                                | 61                                                       | 7.20                           | 7.20                                  | 14.0                                 | 21.5                               | 10.5                                | 103                                                            |
| APR   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1400 | 81341                                                  | 913                                             | 80                                                | 82                                                       | 7.10                           | 7.20                                  | 16.0                                 | 22.5                               | 8.6                                 | 89                                                             |
| MAY   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1300 | 81341                                                  | 838                                             | 83                                                | 86                                                       | 7.30                           | 7.10                                  | 19.0                                 | 27.0                               | 7.2                                 | 79                                                             |
| JUN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1415 | 81341                                                  | 11300                                           | 95                                                | 92                                                       | 7.20                           | 7.00                                  | 21.0                                 | 31.0                               | 4.5                                 | 52                                                             |
| JUL   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1300 | 81341                                                  | 1080                                            | 54                                                | 52                                                       | 6.90                           | 6.80                                  | 23.0                                 | 28.5                               | 6.3                                 | 74                                                             |
| AUG   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1500 | 81341                                                  | 698                                             | 110                                               | 107                                                      | 7.30                           | 7.20                                  | 29.0                                 | 36.5                               | 5.1                                 | 67                                                             |
| SEP   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1420 | 81341                                                  | 951                                             | 118                                               | 112                                                      | 7.30                           | 7.30                                  | 25.0                                 | 22.5                               | 5.5                                 | 68                                                             |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) |
|-------|--------------------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|
| OCT   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 06... | 81341                                                  | 6.0                          | 1.6                                                            | 40                                               | 20                                                            | 0.370                                                | 0.100                                                | 0.060                                       | 3.0                                           | --                                                    | --                                                              |
| NOV   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 03... | 81341                                                  | 1.0                          | 0.9                                                            | 20                                               | 17                                                            | 0.520                                                | 0.100                                                | 0.050                                       | 8.1                                           | --                                                    | --                                                              |
| DEC   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 01... | 81341                                                  | 5.0                          | 1.6                                                            | <20                                              | 20                                                            | 0.580                                                | 0.130                                                | 0.050                                       | 2.6                                           | --                                                    | --                                                              |
| JAN   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 05... | 81341                                                  | 8.0                          | 1.0                                                            | 70                                               | 18                                                            | 0.440                                                | 0.110                                                | 0.060                                       | 2.5                                           | 4500                                                  | 700                                                             |
| FEB   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 02... | 81341                                                  | 9.0                          | 1.2                                                            | 20                                               | 18                                                            | 0.720                                                | 0.130                                                | 0.140                                       | 3.3                                           | 610                                                   | 76                                                              |
| MAR   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 01... | 81341                                                  | 12                           | 1.1                                                            | 20                                               | 19                                                            | 0.340                                                | 0.100                                                | 0.060                                       | 2.8                                           | 790                                                   | 89                                                              |
| APR   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 06... | 81341                                                  | 3.0                          | 1.2                                                            | <20                                              | 19                                                            | 0.590                                                | 0.170                                                | 0.080                                       | 3.3                                           | 480                                                   | 46                                                              |
| MAY   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 03... | 81341                                                  | 5.0                          | 1.1                                                            | 20                                               | 20                                                            | 0.550                                                | 0.060                                                | 0.080                                       | 17                                            | 360                                                   | 72                                                              |
| JUN   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 08... | 81341                                                  | 10                           | 2.1                                                            | 50                                               | 22                                                            | 0.260                                                | 0.200                                                | 0.100                                       | 3.4                                           | 970                                                   | 320                                                             |
| JUL   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 05... | 81341                                                  | 78                           | 1.8                                                            | 7000                                             | 18                                                            | 0.140                                                | 0.070                                                | 0.070                                       | 6.2                                           | 5100                                                  | 430                                                             |
| AUG   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 04... | 81341                                                  | 6.0                          | 2.2                                                            | <20                                              | 26                                                            | 0.160                                                | 0.250                                                | 0.070                                       | 4.4                                           | 690                                                   | 220                                                             |
| SEP   |                                                        |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |                                                       |                                                                 |
| 08... | 81341                                                  | 5.0                          | 2.7                                                            | --                                               | 26                                                            | 0.060                                                | 0.240                                                | 0.030                                       | 8.9                                           | 850                                                   | 290                                                             |

## APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| SEP   |      |                                                        |                                                 |                                                   |                                                          |                                |                                      |                                     |                                                                |                                                                 |                                                           |
| 08... | 1040 | 81213                                                  | 664                                             | 117                                               | 113                                                      | 7.12                           | 23.5                                 | 3.6                                 | 43                                                             | 28                                                              | 24                                                        |
| 08... | 1700 | 81213                                                  | 7150                                            | 124                                               | 116                                                      | 7.15                           | 25.0                                 | 5.3                                 | 65                                                             | 30                                                              | 25                                                        |
| 20... | 1105 | 81213                                                  | 686                                             | 118                                               | 112                                                      | 7.23                           | 25.5                                 | 3.3                                 | 41                                                             | 28                                                              | 24                                                        |
| 20... | 1645 | 81213                                                  | 14700                                           | 122                                               | 116                                                      | 7.23                           | 25.0                                 | 3.1                                 | 38                                                             | 29                                                              | 24                                                        |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|--------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| SEP   |                                                        |                                              |                                                     |                                                                    |                                                                     |                                            |                                                      |
| 08... | 81213                                                  | 7.8                                          | 7.1                                                 | 66                                                                 | 5                                                                   | 290                                        | 210                                                  |
| 08... | 81213                                                  | 8.3                                          | 7.5                                                 | 81                                                                 | 5                                                                   | 260                                        | 320                                                  |
| 20... | 81213                                                  | 7.7                                          | 7.0                                                 | 76                                                                 | 5                                                                   | 310                                        | 260                                                  |
| 20... | 81213                                                  | 8.2                                          | 7.3                                                 | 75                                                                 | 7                                                                   | 180                                        | 410                                                  |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| SEP   |                                                        |                                                               |                                                               |                                                               |                                                               |                                                                   |                                                   |                                             |                                                                |                                               |
| 08... | 81213                                                  | E0.040                                                        | E0.250                                                        | 0.270                                                         | --                                                            | E0.66                                                             | --                                                | --                                          | E0.030                                                         | 2.8                                           |
| 08... | 81213                                                  | E0.040                                                        | E0.080                                                        | 0.350                                                         | --                                                            | E0.38                                                             | --                                                | --                                          | E0.030                                                         | 2.8                                           |
| 20... | 81213                                                  | 0.030                                                         | 0.350                                                         | 0.260                                                         | 0.24                                                          | 0.50                                                              | 0.85                                              | 0.080                                       | 0.030                                                          | 3.2                                           |
| 20... | 81213                                                  | 0.020                                                         | 0.280                                                         | 0.370                                                         | 0.38                                                          | 0.75                                                              | 1.0                                               | 0.060                                       | 0.020                                                          | 2.9                                           |

## APALACHICOLA RIVER BASIN

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02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 20... | 1802 | 84213                                                  | 790                                             | 19.0                                 | 1                                         | 2.1                                                           |
| 20... | 1807 | 84213                                                  | 790                                             | 19.0                                 | 1                                         | 2.1                                                           |
| DEC   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 01... | 1516 | 84213                                                  | 778                                             | 12.5                                 | 2                                         | 4.2                                                           |
| 01... | 1521 | 84213                                                  | 778                                             | 12.5                                 | 2                                         | 4.2                                                           |
| JAN   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 13... | 1645 | 84213                                                  | 863                                             | 7.0                                  | 6                                         | 14                                                            |
| 13... | 1650 | 84213                                                  | 863                                             | 7.0                                  | 9                                         | 21                                                            |
| MAR   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 22... | 1703 | 84213                                                  | 863                                             | 14.0                                 | 5                                         | 12                                                            |
| 22... | 1708 | 84213                                                  | 863                                             | 14.0                                 | 4                                         | 9.3                                                           |
| MAY   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 17... | 0915 | 84213                                                  | 743                                             | 20.0                                 | 3                                         | 6.0                                                           |
| 17... | 0920 | 84213                                                  | 743                                             | 20.0                                 | 4                                         | 8.0                                                           |
| JUN   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 21... | 1145 | 84213                                                  | 686                                             | 23.5                                 | 2                                         | 3.7                                                           |
| 21... | 1150 | 84213                                                  | 686                                             | 23.5                                 | 2                                         | 3.7                                                           |
| AUG   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 02... | 1115 | 84213                                                  | 675                                             | 27.0                                 | 4                                         | 7.3                                                           |
| 02... | 1120 | 84213                                                  | 675                                             | 27.0                                 | 3                                         | 5.5                                                           |

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.125 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.250 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.500 MM |
|-------|------|--------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| JUN   |      |                                                        |                                                 |                                                             |                                                             |                                                             |                                                             |
| 22... | 1159 | 84213                                                  | 686                                             | <1                                                          | 1                                                           | 5                                                           | 10                                                          |
| 22... | 1200 | 84213                                                  | 686                                             | <1                                                          | <1                                                          | 2                                                           | 3                                                           |
| 22... | 1201 | 84213                                                  | 686                                             | <1                                                          | 1                                                           | 2                                                           | 3                                                           |
| 22... | 1202 | 84213                                                  | 686                                             | <1                                                          | <1                                                          | <1                                                          | 1                                                           |
| SEP   |      |                                                        |                                                 |                                                             |                                                             |                                                             |                                                             |
| 20... | 1304 | 84213                                                  | 686                                             | <1                                                          | 2                                                           | 15                                                          | 49                                                          |
| 20... | 1305 | 84213                                                  | 686                                             | <1                                                          | 3                                                           | 9                                                           | 21                                                          |
| 20... | 1306 | 84213                                                  | 686                                             | <1                                                          | <1                                                          | 1                                                           | 6                                                           |
| 20... | 1307 | 84213                                                  | 686                                             | <1                                                          | 3                                                           | 32                                                          | 64                                                          |
| 20... | 1552 | 84213                                                  | 14100                                           | <1                                                          | <1                                                          | <1                                                          | <1                                                          |
| 20... | 1553 | 84213                                                  | 14100                                           | <1                                                          | <1                                                          | 1                                                           | 3                                                           |
| 20... | 1554 | 84213                                                  | 14100                                           | <1                                                          | <1                                                          | <1                                                          | 2                                                           |
| 20... | 1555 | 84213                                                  | 14100                                           | <1                                                          | <1                                                          | <1                                                          | 4                                                           |

| DATE  | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>1.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>2.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>4.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>8.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>16.0 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>32.0 MM |
|-------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| JUN   |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |
| 22... | 20                                                          | 35                                                          | 50                                                          | 67                                                          | 82                                                          | 100                                                         |
| 22... | 5                                                           | 7                                                           | 10                                                          | 21                                                          | 60                                                          | 100                                                         |
| 22... | 4                                                           | 4                                                           | 6                                                           | 15                                                          | 39                                                          | 100                                                         |
| 22... | 2                                                           | 3                                                           | 3                                                           | 5                                                           | 33                                                          | 100                                                         |
| SEP   |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |
| 20... | 93                                                          | 100                                                         | 100                                                         | --                                                          | --                                                          | --                                                          |
| 20... | 35                                                          | 37                                                          | 37                                                          | 37                                                          | 38                                                          | 47                                                          |
| 20... | 20                                                          | 28                                                          | 32                                                          | 41                                                          | 74                                                          | 100                                                         |
| 20... | 82                                                          | 90                                                          | 93                                                          | 95                                                          | 100                                                         | --                                                          |
| 20... | <1                                                          | 1                                                           | 2                                                           | 3                                                           | 36                                                          | 100                                                         |
| 20... | 7                                                           | 11                                                          | 13                                                          | 17                                                          | 31                                                          | 37                                                          |
| 20... | 8                                                           | 16                                                          | 20                                                          | 23                                                          | 45                                                          | 100                                                         |
| 20... | 10                                                          | 14                                                          | 16                                                          | 23                                                          | 32                                                          | 100                                                         |



## APALACHICOLA RIVER BASIN

02339720 LONG CANE CREEK NEAR WEST POINT, GA.

LOCATION.--Lat 32°54'37", long 85°08'43", Troup County, Hydrologic Unit 03130002, at bridge on Webb Road 2.5 mi northeast of West Point.

DRAINAGE AREA.--74.8 mi<sup>2</sup>, approximately.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1230 | 26                                              | 490                                               | 465                                                      | 7.50                           | 7.20                                  | 16.0                                 | 25.5                               | 5.8                                 | 60                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1445 | 27                                              | 401                                               | 390                                                      | 7.20                           | 7.10                                  | 17.0                                 | 28.0                               | 3.7                                 | 39                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1445 | 39                                              | 338                                               | 323                                                      | 7.20                           | 7.40                                  | 12.0                                 | 12.0                               | 5.6                                 | 53                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1515 | 113                                             | 118                                               | 107                                                      | 7.00                           | 6.90                                  | 8.5                                  | 12.0                               | 9.1                                 | 78                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1430 | 78                                              | 197                                               | 182                                                      | 6.90                           | 6.90                                  | 14.0                                 | 21.5                               | 6.7                                 | 66                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1620 | 62                                              | 170                                               | 162                                                      | 7.10                           | 7.20                                  | 13.5                                 | 22.0                               | 9.6                                 | 93                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1330 | 62                                              | 153                                               | 154                                                      | 7.00                           | 7.00                                  | 21.0                                 | 22.0                               | 5.5                                 | 63                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1230 | 59                                              | 185                                               | 191                                                      | 7.30                           | 7.10                                  | 17.5                                 | 27.0                               | 6.1                                 | 65                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1340 | 30                                              | 405                                               | 401                                                      | 7.20                           | 7.10                                  | 24.0                                 | 30.0                               | 3.2                                 | 39                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1230 | 112                                             | 118                                               | 115                                                      | 6.90                           | 6.90                                  | 23.0                                 | 28.0                               | 5.4                                 | 64                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1430 | 27                                              | --                                                | 639                                                      | 7.60                           | 7.60                                  | 27.0                                 | 35.0                               | 4.8                                 | 61                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1550 | 48                                              | 260                                               | 257                                                      | 7.10                           | 7.20                                  | 21.5                                 | 25.5                               | 5.9                                 | 68                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 06... | 8.0                          | 1.5                                                            | 790                                              | 101                                                             | 2.50                                                 | 0.070                                                | 1.68                                        | 12                                            |
| NOV   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 03... | 5.0                          | 3.9                                                            | 2300                                             | 109                                                             | 1.10                                                 | 1.93                                                 | 1.92                                        | 31                                            |
| DEC   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 01... | 10                           | 2.6                                                            | 220                                              | 77                                                              | 1.41                                                 | 0.310                                                | 0.960                                       | 10                                            |
| JAN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 05... | 17                           | 1.0                                                            | 2300                                             | 31                                                              | 0.530                                                | 0.570                                                | 0.330                                       | 5.5                                           |
| FEB   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 02... | 12                           | 1.6                                                            | 65                                               | 33                                                              | 0.950                                                | 0.440                                                | 0.590                                       | 6.2                                           |
| MAR   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 01... | 10                           | 1.3                                                            | 35                                               | 37                                                              | 0.860                                                | 0.420                                                | 0.520                                       | 6.9                                           |
| APR   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 06... | 6.0                          | 2.2                                                            | 330                                              | 41                                                              | 1.23                                                 | 0.220                                                | 0.610                                       | 6.4                                           |
| MAY   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 03... | 14                           | 1.9                                                            | 170                                              | 57                                                              | 1.82                                                 | 0.230                                                | 0.540                                       | 7.1                                           |
| JUN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 08... | 10                           | 4.8                                                            | 1300                                             | 65                                                              | 2.80                                                 | 2.80                                                 | 1.97                                        | 10                                            |
| JUL   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 05... | 55                           | 3.3                                                            | 4900                                             | 28                                                              | 0.960                                                | 0.330                                                | 0.520                                       | 7.7                                           |
| AUG   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 04... | 22                           | 4.0                                                            | 790                                              | 122                                                             | 3.64                                                 | 0.100                                                | 2.82                                        | 15                                            |
| SEP   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 08... | 15                           | 1.8                                                            | --                                               | 50                                                              | 0.940                                                | 0.090                                                | 0.710                                       | 7.3                                           |

## APALACHICOLA RIVER BASIN

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## 02339780 CHATTAHOOCHEE RIVER AT LANGDALE, ALA.

LOCATION.--Lat 32°48'50", long 85°10'03", Chambers County, Ala.--Harris County, Ga., Hydrologic Unit 03130002, at right end of Langdale Dam, 0.3 mi upstream from Moores Creek, 2.8 mi downstream from Long Cane Creek, and 0.4 mi south of Langdale.

DRAINAGE AREA.--3,630 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 540.01 ft above National Geodetic Vertical Datum of 1929.

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 PERIOD OF RECORD.--Maximum gage height, 11.10 ft, Apr. 10, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 10.45 ft, Feb. 18.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 8.18 | 7.14 | 8.29 | 7.94 | ---  | 7.89 | 7.99 | 6.47 | 8.06 | 7.88 | 7.49 | 7.40 |
| 2    | 7.96 | 8.34 | 7.94 | 7.86 | ---  | 8.59 | 7.30 | 7.49 | 8.13 | 6.88 | 7.56 | 7.88 |
| 3    | 6.87 | 8.76 | 8.31 | 7.26 | ---  | 7.74 | 7.31 | 7.73 | 8.08 | 7.32 | 7.59 | 6.56 |
| 4    | 6.53 | 8.77 | 8.33 | 8.17 | ---  | 8.00 | 8.13 | 7.76 | 7.11 | 8.45 | 7.77 | 7.62 |
| 5    | 7.60 | 8.77 | 8.12 | 8.56 | ---  | 8.01 | 7.73 | 7.86 | 6.30 | 8.39 | 7.89 | 8.89 |
| 6    | 7.63 | 8.78 | 7.96 | 8.53 | ---  | 7.88 | 7.62 | 7.79 | 7.73 | 8.31 | 7.81 | 8.77 |
| 7    | 7.66 | 7.20 | 8.19 | 8.52 | ---  | 8.44 | 7.68 | 7.14 | 7.93 | 7.77 | 7.54 | 8.13 |
| 8    | 7.68 | 6.97 | 7.99 | 8.53 | ---  | 8.21 | 8.07 | 6.56 | 7.95 | 7.59 | 7.81 | 7.82 |
| 9    | 7.68 | 7.84 | 7.69 | 7.61 | ---  | 8.24 | 6.96 | 7.78 | 7.81 | 6.64 | 7.87 | 8.03 |
| 10   | 6.62 | 7.70 | 7.71 | 7.53 | ---  | 8.27 | 7.09 | 7.85 | 7.82 | 5.53 | 8.05 | 6.87 |
| 11   | 7.18 | 7.55 | 7.56 | 7.60 | ---  | 8.25 | 8.01 | 8.24 | 6.66 | 7.28 | 7.81 | 7.46 |
| 12   | 7.51 | 7.69 | 7.50 | 7.77 | ---  | 7.34 | 8.08 | 8.02 | 6.51 | 7.61 | 7.92 | 8.23 |
| 13   | 7.65 | 7.79 | 7.76 | 7.76 | ---  | 7.81 | 8.14 | 7.94 | 8.19 | 7.64 | 7.04 | 7.95 |
| 14   | 7.90 | 7.01 | 7.83 | 7.85 | ---  | 8.27 | 8.42 | 7.22 | 8.60 | 7.54 | 6.93 | 8.01 |
| 15   | 7.89 | 7.68 | 7.91 | 7.99 | ---  | 8.20 | 8.20 | 7.20 | 8.55 | 7.62 | 7.52 | 8.01 |
| 16   | 7.88 | 8.13 | 7.88 | ---  | ---  | 8.18 | 7.15 | 8.42 | 8.58 | 6.94 | 7.61 | 7.92 |
| 17   | 7.22 | 7.95 | 8.03 | ---  | 9.01 | 7.95 | 7.47 | 8.94 | 8.76 | 6.83 | 7.86 | 7.40 |
| 18   | 7.57 | 8.16 | 7.69 | ---  | 9.00 | 7.76 | 7.20 | 8.56 | 7.12 | 7.13 | 7.96 | 8.18 |
| 19   | 8.70 | 8.50 | 7.37 | ---  | 9.06 | 7.40 | 8.41 | 7.91 | 6.57 | 7.75 | 7.76 | 8.70 |
| 20   | 8.72 | 8.78 | 7.61 | ---  | 7.54 | 7.82 | 8.32 | 8.01 | 7.68 | 7.67 | 6.95 | 8.45 |
| 21   | 8.72 | 7.53 | 8.52 | ---  | 6.56 | 8.19 | 8.06 | 7.19 | 8.10 | 7.54 | 6.82 | 8.29 |
| 22   | 8.72 | 7.01 | 8.79 | ---  | 8.19 | 7.72 | 7.85 | 7.89 | 8.18 | 7.70 | 7.62 | 8.15 |
| 23   | 8.71 | 8.21 | 8.62 | ---  | 7.80 | 7.61 | 8.21 | 8.27 | 8.15 | 7.00 | 7.60 | 8.14 |
| 24   | 7.25 | 8.81 | 8.49 | ---  | 7.86 | 7.70 | 7.22 | 7.90 | 8.11 | 7.45 | 7.87 | 6.91 |
| 25   | 6.85 | 8.73 | 9.00 | ---  | 8.26 | 7.77 | 8.45 | 8.10 | 6.92 | 7.80 | 7.51 | 6.93 |
| 26   | 8.49 | 8.35 | 7.72 | ---  | 7.85 | 6.92 | 7.69 | 8.13 | 7.17 | 7.65 | 7.51 | 7.94 |
| 27   | 8.84 | 9.03 | 7.26 | ---  | 7.55 | 7.98 | 8.29 | 8.10 | 8.19 | 7.47 | 6.79 | 7.85 |
| 28   | 8.85 | 7.46 | 8.17 | ---  | 7.43 | 8.16 | 7.65 | 6.90 | 7.97 | 7.57 | 6.75 | 7.71 |
| 29   | 8.84 | 7.77 | 8.34 | ---  | 7.15 | 7.75 | 7.18 | 6.18 | 7.93 | 7.72 | 7.50 | 7.68 |
| 30   | 8.86 | 8.20 | 7.44 | ---  | ---  | 7.72 | 6.58 | 7.28 | 7.88 | 7.37 | 7.54 | 7.73 |
| 31   | 7.34 | ---  | 7.97 | ---  | ---  | 7.79 | ---  | 8.25 | ---  | 7.12 | 7.42 | ---  |
| MEAN | 7.87 | 8.02 | 8.00 | ---  | ---  | 7.92 | 7.75 | 7.71 | 7.76 | 7.46 | 7.54 | 7.85 |
| MAX  | 8.86 | 9.03 | 9.00 | ---  | ---  | 8.59 | 8.45 | 8.94 | 8.76 | 8.45 | 8.05 | 8.89 |
| MIN  | 6.53 | 6.97 | 7.26 | ---  | ---  | 6.92 | 6.58 | 6.18 | 6.30 | 5.53 | 6.75 | 6.56 |

CAL YR 1987 MEAN 8.36 MAX 10.43 MIN 6.47

## 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 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--August 1929 to current year. Records for December 1912, published in WSP 322, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1082: 1943(M). See also period of record.

GAGE.--Water-stage recorder. Datum of gage is 183.14 ft 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. 22-24, Nov. 12-24, and Dec. 12-29. Records fair except those below 3,000 ft<sup>3</sup>/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.--59 years, 6,690 ft<sup>3</sup>/s, 19.45 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145,000 ft<sup>3</sup>/s, Feb. 26, 1961; maximum gage height, 47.8 ft, Feb. 25, 1961; minimum discharge, 294 ft<sup>3</sup>/s, Oct. 23, Nov. 14, 1931; minimum daily, 480 ft<sup>3</sup>/s, Oct. 31, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1827, 198,000 ft<sup>3</sup>/s, Mar. 15, 1929, computation of flow at North Highlands Dam before redevelopment; maximum stage known, 53.2 ft, Mar. 16, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,500 ft<sup>3</sup>/s, Jan. 21-22; maximum gage height, 14.52 ft, Jan. 22; minimum daily, 1,100 ft<sup>3</sup>/s, Sept. 25.

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                 | 3660    | 3090  | 1600  | 3940      | 4670      | 3860     | 3010       | 1870       | 2810       | 2680  | 1860  | 1620   |
| 2                 | 3590    | 9200  | 1910  | 2770      | 5750      | 3600     | 2020       | 2900       | 3040       | 1360  | 1570  | 2030   |
| 3                 | 1340    | 3810  | 3050  | 3650      | 8240      | 4250     | 2220       | 2970       | 3100       | 1470  | 1960  | 1580   |
| 4                 | 1380    | 4340  | 2430  | 4950      | 12700     | 3240     | 3110       | 2630       | 1370       | 2940  | 2040  | 3750   |
| 5                 | 3090    | 6970  | 1750  | 5070      | 15300     | 2760     | 3350       | 2550       | 1350       | 3550  | 2310  | 7340   |
| 6                 | 2120    | 9790  | 1550  | 4710      | 15200     | 2350     | 3260       | 1190       | 2130       | 3180  | 1610  | 7220   |
| 7                 | 1550    | 3060  | 1710  | 5560      | 14800     | 4670     | 2860       | 1360       | 2850       | 2560  | 1610  | 2050   |
| 8                 | 1750    | 1670  | 1600  | 3960      | 10500     | 3320     | 3450       | 1350       | 3440       | 2840  | 1780  | 1900   |
| 9                 | 2190    | 2660  | 2330  | 3210      | 12400     | 4310     | 1750       | 2260       | 3340       | 1300  | 2330  | 2330   |
| 10                | 1480    | 2220  | 2810  | 1600      | 11700     | 4060     | 1930       | 2730       | 3350       | 1270  | 1960  | 1880   |
| 11                | 1360    | 2380  | 2370  | 2840      | 11400     | 3420     | 3940       | 3200       | 1340       | 1240  | 2100  | 2580   |
| 12                | 1460    | 2300  | 1600  | 3390      | 8820      | 2100     | 3270       | 3430       | 1280       | 1220  | 1920  | 3940   |
| 13                | 2180    | 2400  | 1300  | 3890      | 2990      | 1790     | 4010       | 3320       | 6040       | 2140  | 1560  | 3670   |
| 14                | 2240    | 1400  | 3000  | 3620      | 3890      | 3460     | 5320       | 2380       | 5700       | 1890  | 1700  | 3410   |
| 15                | 2480    | 1400  | 2700  | 2480      | 6990      | 3030     | 3720       | 2290       | 4930       | 2020  | 1750  | 3880   |
| 16                | 2470    | 1700  | 2900  | 1620      | 7780      | 3080     | 2220       | 7420       | 5630       | 1250  | 1680  | 4010   |
| 17                | 1330    | 5400  | 2400  | 1870      | 8280      | 3060     | 1760       | 7050       | 5190       | 1280  | 1730  | 6030   |
| 18                | 1520    | 3500  | 2300  | 6220      | 10600     | 2450     | 2530       | 5280       | 1530       | 1380  | 1700  | 4200   |
| 19                | 3420    | 1400  | 2100  | 7380      | 7960      | 1480     | 7870       | 2520       | 1300       | 1370  | 1790  | 6980   |
| 20                | 4340    | 1800  | 1300  | 13900     | 3020      | 1900     | 5440       | 2430       | 3210       | 1620  | 1720  | 5460   |
| 21                | 3890    | 2100  | 5600  | 16500     | 3250      | 3250     | 4480       | 1360       | 2950       | 2180  | 1700  | 3930   |
| 22                | 4600    | 1300  | 8200  | 16600     | 3980      | 3590     | 3580       | 1370       | 3090       | 1800  | 1730  | 4700   |
| 23                | 3600    | 3400  | 3400  | 12000     | 4360      | 3050     | 4230       | 2210       | 4430       | 1630  | 2130  | 2930   |
| 24                | 1600    | 3300  | 6200  | 13400     | 3490      | 2890     | 3080       | 3530       | 4640       | 1740  | 2110  | 1150   |
| 25                | 1800    | 3210  | 7600  | 10000     | 3350      | 3930     | 7810       | 3560       | 1470       | 1870  | 2260  | 1100   |
| 26                | 3600    | 3630  | 1600  | 10200     | 3020      | 2360     | 3120       | 3330       | 1280       | 1960  | 1720  | 1550   |
| 27                | 5310    | 4060  | 1300  | 8470      | 2360      | 2350     | 3260       | 1600       | 2400       | 1820  | 1580  | 1180   |
| 28                | 5250    | 1710  | 5000  | 10400     | 2490      | 3570     | 2960       | 1290       | 2780       | 1880  | 1530  | 2570   |
| 29                | 5000    | 1610  | 4500  | 8150      | 4420      | 3260     | 1870       | 1320       | 3300       | 2050  | 1550  | 2540   |
| 30                | 5570    | 1590  | 2950  | 1980      | ---       | 3470     | 1790       | 2920       | 3150       | 1560  | 1520  | 2820   |
| 31                | 4100    | ---   | 3690  | 1930      | ---       | 3280     | ---        | 3460       | ---        | 1660  | 1560  | ---    |
| TOTAL             | 89270   | 96400 | 92750 | 196260    | 213710    | 97190    | 103220     | 87080      | 92420      | 58710 | 56070 | 100330 |
| MEAN              | 2880    | 3213  | 2992  | 6331      | 7369      | 3135     | 3441       | 2809       | 3081       | 1894  | 1809  | 3344   |
| MAX               | 5570    | 9790  | 8200  | 16600     | 15300     | 4670     | 7870       | 7420       | 6040       | 3550  | 2330  | 7340   |
| MIN               | 1330    | 1300  | 1300  | 1600      | 2360      | 1480     | 1750       | 1190       | 1280       | 1220  | 1520  | 1100   |
| CAL YR 1987 TOTAL | 2093170 |       |       | MEAN 5735 | MAX 32200 | MIN 1170 | MEAN† 5440 | CFSMT 1.16 | INT† 15.81 |       |       |        |
| WTR YR 1988 TOTAL | 1283410 |       |       | MEAN 3507 | MAX 16600 | MIN 1100 | MEAN† 3387 | CFSMT .73  | INT† 9.87  |       |       |        |

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, AND LAKE HARDING.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY                                                     | OCT  | NOV  | DEC  | JAN   | FEB   | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|---------------------------------------------------------|------|------|------|-------|-------|------|------|------|------|------|------|------|
| 1                                                       | 5.78 | 3.39 | 4.44 | 4.96  | 6.18  | 5.89 | 6.90 | 6.34 | 3.95 | 3.39 | 4.70 | 4.67 |
| 2                                                       | 5.64 | 7.04 | 4.51 | 4.38  | 6.56  | 5.65 | 6.48 | 6.78 | 3.93 | 2.48 | 4.55 | 4.72 |
| 3                                                       | 4.49 | 4.41 | 5.04 | 4.88  | 7.70  | 5.96 | 6.72 | 6.73 | 3.86 | 2.76 | 4.70 | 4.64 |
| 4                                                       | 4.65 | 4.42 | 4.76 | 5.74  | 10.06 | 6.28 | 7.01 | 6.62 | 2.61 | 3.87 | 4.74 | 5.80 |
| 5                                                       | 5.42 | 5.89 | 4.50 | 5.73  | 11.29 | 6.48 | 7.01 | 6.45 | 2.65 | 4.25 | 4.87 | 7.31 |
| 6                                                       | 4.79 | 7.59 | 4.52 | 5.69  | 11.13 | 6.67 | 6.94 | 5.78 | 3.22 | 4.22 | 4.57 | 7.61 |
| 7                                                       | 4.29 | 4.10 | 4.55 | 5.97  | 11.02 | 7.62 | 6.62 | 5.74 | 3.64 | 3.92 | 4.59 | 5.85 |
| 8                                                       | 4.14 | 3.00 | 4.36 | 5.57  | 9.16  | 7.10 | 6.70 | 5.86 | 4.00 | 4.12 | 4.67 | 5.55 |
| 9                                                       | 4.09 | 3.61 | 4.52 | 5.16  | 9.82  | 7.21 | 6.14 | 6.16 | 3.96 | 3.26 | 4.88 | 5.68 |
| 10                                                      | 3.62 | 3.46 | 4.65 | 4.66  | 9.47  | 7.32 | 6.31 | 6.06 | 3.78 | 3.34 | 4.74 | 5.59 |
| 11                                                      | 3.65 | 3.45 | 4.42 | 5.22  | 9.20  | 7.13 | 7.05 | 6.08 | 2.29 | 3.46 | 4.76 | 5.98 |
| 12                                                      | 3.65 | 3.50 | 4.00 | 5.35  | 8.19  | 6.59 | 6.83 | 5.98 | 2.28 | 3.50 | 4.69 | 6.57 |
| 13                                                      | 3.90 | 3.70 | 3.95 | 5.38  | 5.53  | 6.52 | 6.96 | 5.83 | 5.16 | 3.99 | 4.55 | 6.50 |
| 14                                                      | 3.75 | 3.05 | 4.65 | 5.11  | 5.71  | 7.13 | 7.35 | 5.21 | 5.28 | 3.88 | 4.62 | 6.37 |
| 15                                                      | 3.72 | 3.05 | 4.70 | 4.54  | 7.06  | 6.83 | 6.96 | 5.27 | 4.80 | 3.98 | 4.70 | 6.49 |
| 16                                                      | 3.58 | 3.37 | 4.58 | 3.96  | 7.32  | 6.55 | 6.46 | 7.30 | 4.95 | 3.78 | 4.69 | 6.58 |
| 17                                                      | 2.83 | 6.08 | 4.27 | 4.25  | 7.58  | 6.43 | 6.45 | 7.18 | 4.89 | 4.00 | 4.70 | 7.24 |
| 18                                                      | 3.07 | 4.50 | 4.10 | 6.46  | 8.61  | 6.14 | 6.80 | 6.57 | 2.47 | 4.08 | 4.69 | 7.00 |
| 19                                                      | 4.23 | 3.85 | 3.98 | 7.20  | 7.93  | 5.77 | 8.95 | 5.07 | 2.30 | 4.10 | 4.74 | 8.15 |
| 20                                                      | 4.75 | 4.04 | 3.86 | 10.73 | 6.05  | 6.12 | 8.10 | 4.71 | 3.61 | 4.21 | 4.71 | 7.67 |
| 21                                                      | 4.34 | 4.15 | 5.75 | 11.75 | 6.07  | 6.66 | 7.66 | 3.89 | 3.46 | 4.47 | 4.71 | 7.14 |
| 22                                                      | 5.02 | 4.00 | 7.52 | 11.86 | 6.45  | 6.74 | 7.09 | 4.01 | 3.57 | 4.37 | 4.76 | 7.35 |
| 23                                                      | 4.20 | 4.96 | 4.98 | 9.70  | 6.45  | 6.61 | 7.21 | 4.45 | 4.29 | 4.34 | 4.91 | 6.81 |
| 24                                                      | 2.50 | 5.00 | 5.90 | 10.22 | 5.98  | 6.62 | 7.15 | 5.06 | 4.40 | 4.46 | 4.94 | 6.43 |
| 25                                                      | 2.68 | 4.87 | 6.94 | 9.00  | 5.79  | 6.93 | 8.75 | 5.00 | 2.53 | 4.58 | 5.01 | 6.48 |
| 26                                                      | 4.05 | 5.02 | 4.34 | 8.82  | 5.47  | 6.79 | 7.70 | 4.68 | 2.27 | 4.63 | 4.82 | 6.53 |
| 27                                                      | 5.02 | 5.24 | 4.24 | 7.93  | 5.11  | 6.98 | 7.43 | 3.58 | 3.11 | 4.60 | 4.76 | 6.25 |
| 28                                                      | 5.09 | 4.25 | 5.95 | 8.49  | 5.26  | 7.47 | 7.12 | 3.26 | 3.33 | 4.60 | 4.75 | 6.54 |
| 29                                                      | 4.97 | 4.36 | 5.50 | 7.58  | 6.06  | 7.36 | 6.47 | 3.32 | 3.70 | 4.64 | 4.83 | 6.46 |
| 30                                                      | 5.15 | 4.45 | 4.73 | 5.10  | ---   | 7.33 | 6.22 | 4.11 | 3.57 | 4.45 | 4.77 | 6.50 |
| 31                                                      | 4.34 | ---  | 4.90 | 5.14  | ---   | 7.11 | ---  | 4.42 | ---  | 4.56 | 4.73 | ---  |
| MEAN                                                    | 4.24 | 4.39 | 4.81 | 6.66  | 7.52  | 6.71 | 7.05 | 5.40 | 3.60 | 4.01 | 4.74 | 6.42 |
| MAX                                                     | 5.78 | 7.59 | 7.52 | 11.86 | 11.29 | 7.62 | 8.95 | 7.30 | 5.28 | 4.64 | 5.01 | 8.15 |
| MIN                                                     | 2.50 | 3.00 | 3.86 | 3.96  | 5.11  | 5.65 | 6.14 | 3.26 | 2.27 | 2.48 | 4.55 | 4.64 |
| WTR YR 1988      MEAN 5.45      MAX 11.86      MIN 2.27 |      |      |      |       |       |      |      |      |      |      |      |      |

## 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 Ochillee Creek, 8 mi southeast of Columbus, and 12 mi upstream from mouth.

DRAINAGE AREA.--342 mi<sup>2</sup>.

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.--Estimated daily discharges: Nov. 12-23. Records good, except for the period Nov. 12-23, which are fair.

AVERAGE DISCHARGE.--20 years, 450 ft<sup>3</sup>/s, 17.87 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,300 ft<sup>3</sup>/s, Apr. 1, 1981, gage height, 21.06 ft; minimum, 72 ft<sup>3</sup>/s, July 16, Aug. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 3,500 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Jan. 20 | 1330 | *3,330                            | *9.77               |

Minimum discharge, 76 ft<sup>3</sup>/s, June 29 to July 2.

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           | 97    | 114    | 141      | 190      | 317    | 267       | 275      | 349  | 112  | 76   | 88   | 184  |
| 2           | 93    | 113    | 136      | 342      | 312    | 259       | 273      | 320  | 108  | 78   | 84   | 145  |
| 3           | 90    | 115    | 134      | 434      | 489    | 264       | 290      | 290  | 106  | 154  | 91   | 134  |
| 4           | 88    | 116    | 133      | 467      | 958    | 580       | 290      | 268  | 103  | 309  | 92   | 336  |
| 5           | 92    | 120    | 131      | 356      | 967    | 640       | 274      | 257  | 101  | 239  | 92   | 526  |
| 6           | 96    | 117    | 129      | 274      | 616    | 474       | 292      | 239  | 101  | 158  | 93   | 381  |
| 7           | 96    | 113    | 129      | 256      | 480    | 384       | 363      | 222  | 124  | 125  | 92   | 223  |
| 8           | 94    | 112    | 131      | 409      | 418    | 337       | 307      | 211  | 139  | 110  | 97   | 157  |
| 9           | 93    | 119    | 132      | 384      | 381    | 360       | 262      | 203  | 122  | 97   | 100  | 156  |
| 10          | 95    | 142    | 135      | 355      | 355    | 790       | 241      | 226  | 119  | 94   | 119  | 203  |
| 11          | 98    | 196    | 138      | 362      | 337    | 633       | 280      | 354  | 121  | 106  | 118  | 201  |
| 12          | 100   | 241    | 135      | 340      | 326    | 484       | 1110     | 294  | 109  | 166  | 115  | 175  |
| 13          | 99    | 169    | 132      | 314      | 306    | 429       | 652      | 237  | 101  | 218  | 102  | 149  |
| 14          | 97    | 133    | 135      | 295      | 295    | 387       | 459      | 242  | 95   | 160  | 92   | 136  |
| 15          | 97    | 122    | 273      | 274      | 313    | 341       | 363      | 215  | 92   | 129  | 91   | 125  |
| 16          | 99    | 120    | 333      | 253      | 318    | 317       | 315      | 195  | 89   | 117  | 98   | 119  |
| 17          | 102   | 251    | 257      | 300      | 249    | 304       | 283      | 199  | 87   | 107  | 103  | 125  |
| 18          | 103   | 379    | 201      | 629      | 241    | 337       | 322      | 187  | 86   | 99   | 101  | 131  |
| 19          | 104   | 288    | 174      | 1050     | 603    | 521       | 2050     | 166  | 83   | 94   | 93   | 132  |
| 20          | 104   | 208    | 167      | 2170     | 725    | 451       | 1410     | 153  | 101  | 95   | 89   | 123  |
| 21          | 105   | 165    | 184      | 1510     | 538    | 369       | 768      | 144  | 93   | 93   | 194  | 115  |
| 22          | 100   | 147    | 302      | 835      | 426    | 324       | 540      | 139  | 87   | 126  | 186  | 107  |
| 23          | 101   | 143    | 295      | 630      | 371    | 301       | 498      | 136  | 87   | 149  | 148  | 102  |
| 24          | 105   | 141    | 223      | 520      | 347    | 289       | 595      | 139  | 89   | 127  | 123  | 101  |
| 25          | 109   | 140    | 195      | 490      | 319    | 297       | 521      | 203  | 94   | 107  | 115  | 102  |
| 26          | 116   | 141    | 184      | 466      | 303    | 469       | 951      | 200  | 89   | 96   | 100  | 101  |
| 27          | 126   | 143    | 178      | 397      | 296    | 481       | 809      | 163  | 88   | 92   | 91   | 99   |
| 28          | 131   | 146    | 229      | 359      | 291    | 375       | 573      | 140  | 85   | 91   | 86   | 97   |
| 29          | 124   | 150    | 282      | 336      | 278    | 320       | 436      | 128  | 78   | 88   | 85   | 95   |
| 30          | 118   | 146    | 231      | 327      | ---    | 298       | 372      | 121  | 79   | 88   | 110  | 93   |
| 31          | 114   | ---    | 197      | 321      | ---    | 285       | ---      | 116  | ---  | 94   | 127  | ---  |
| TOTAL       | 3186  | 4750   | 5776     | 15645    | 12175  | 12367     | 16174    | 6456 | 2968 | 3882 | 3315 | 4873 |
| MEAN        | 103   | 158    | 186      | 505      | 420    | 399       | 539      | 208  | 98.9 | 125  | 107  | 162  |
| MAX         | 131   | 379    | 333      | 2170     | 967    | 790       | 2050     | 354  | 139  | 309  | 194  | 526  |
| MIN         | 88    | 112    | 129      | 190      | 241    | 259       | 241      | 116  | 78   | 76   | 84   | 93   |
| CFSM        | .30   | .46    | .54      | 1.48     | 1.23   | 1.17      | 1.58     | .61  | .29  | .37  | .31  | .47  |
| IN.         | .35   | .52    | .63      | 1.70     | 1.32   | 1.35      | 1.76     | .70  | .32  | .42  | .36  | .53  |
| CAL YR 1987 | TOTAL | 137355 | MEAN 376 | MAX 4260 | MIN 88 | CFSM 1.10 | IN 14.94 |      |      |      |      |      |
| WTR YR 1988 | TOTAL | 91567  | MEAN 250 | MAX 2170 | MIN 76 | CFSM .73  | IN 9.96  |      |      |      |      |      |



## 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 mi<sup>2</sup>, 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.--13 years, 10,540 ft<sup>3</sup>/s, 17.43 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 131,000 ft<sup>3</sup>/s, Jan. 27, 1978, maximum headwater gage height, 118.12 ft, Jan. 27, 1978, maximum tailwater gage height, 116.66 ft, Jan. 27, 1978; no flow due to non-typical operation pattern, except for an undetermined amount of leakage Nov. 22, 1987.

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, 30,800 ft<sup>3</sup>/s, Jan. 20, maximum headwater gage height, 103.29 ft, May 3, maximum tailwater gage height, 90.28 ft, Jan. 20; no flow due to non-typical operation pattern, except for an undetermined amount of leakage, Nov. 22.

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           | 7610   | 798      | 2890   | 9430   | 8250   | 7780   | 9800   | 1120   | 7590   | 3770  | 1890  | 2840   |     |       |
| 2           | 7480   | 5160     | 2790   | 2240   | 10200  | 7790   | 1610   | 5810   | 7030   | 1860  | 2520  | 5770   |     |       |
| 3           | 1380   | 6410     | 2440   | 1780   | 9770   | 8130   | 1450   | 7230   | 7710   | 2110  | 2330  | 1500   |     |       |
| 4           | 651    | 6290     | 2690   | 8400   | 11700  | 13200  | 7280   | 7470   | 2020   | 4200  | 2330  | 1620   |     |       |
| 5           | 5040   | 6410     | 1770   | 7820   | 18100  | 4880   | 7540   | 7360   | 888    | 3910  | 2550  | 5270   |     |       |
| 6           | 7950   | 6410     | 605    | 7520   | 15400  | 3070   | 9800   | 7270   | 3990   | 3290  | 1250  | 5770   |     |       |
| 7           | 7370   | 1730     | 4630   | 4690   | 14300  | 10500  | 7560   | 1620   | 5510   | 3080  | 918   | 5110   |     |       |
| 8           | 7280   | 762      | 6160   | 4300   | 16800  | 11800  | 7450   | 1020   | 7100   | 2920  | 2160  | 5170   |     |       |
| 9           | 7370   | 1770     | 6360   | 1070   | 16700  | 13000  | 1180   | 8320   | 8330   | 1230  | 2370  | 5510   |     |       |
| 10          | 1760   | 3120     | 6200   | 1000   | 16600  | 12700  | 1230   | 9540   | 8790   | 825   | 2430  | 1950   |     |       |
| 11          | 737    | 3040     | 6350   | 7560   | 16700  | 12400  | 6870   | 10700  | 1880   | 2690  | 2600  | 1720   |     |       |
| 12          | 5090   | 2810     | 2260   | 8500   | 16200  | 8150   | 7560   | 11000  | 894    | 3530  | 2610  | 5990   |     |       |
| 13          | 6940   | 3000     | 872    | 8480   | 8050   | 2190   | 7850   | 10300  | 5670   | 3470  | 1230  | 4530   |     |       |
| 14          | 6760   | 1760     | 4620   | 8560   | 7730   | 10300  | 5300   | 2080   | 6420   | 3020  | 804   | 5060   |     |       |
| 15          | 7060   | 705      | 6270   | 8760   | 9490   | 11500  | 7440   | 1190   | 6860   | 3060  | 2040  | 4980   |     |       |
| 16          | 7020   | 2710     | 6270   | 1820   | 9880   | 10800  | 1350   | 9580   | 6860   | 2230  | 2410  | 5130   |     |       |
| 17          | 1640   | 4270     | 6340   | 980    | 9980   | 9050   | 1520   | 10900  | 6890   | 1130  | 2520  | 1120   |     |       |
| 18          | 660    | 3340     | 6260   | 8310   | 10100  | 9550   | 6870   | 11100  | 2120   | 2340  | 2430  | 1050   |     |       |
| 19          | 4810   | 3090     | 2310   | 11500  | 12400  | 2340   | 11500  | 11200  | 849    | 2620  | 2300  | 5920   |     |       |
| 20          | 11100  | 3870     | 882    | 19900  | 10900  | 1280   | 14700  | 11100  | 3800   | 2540  | 1030  | 6570   |     |       |
| 21          | 7050   | 1120     | 5670   | 21700  | 7270   | 5970   | 14200  | 2000   | 5680   | 2690  | 880   | 5660   |     |       |
| 22          | 8650   | .00      | 7660   | 29000  | 10100  | 5150   | 15000  | 890    | 4930   | 2140  | 1840  | 6530   |     |       |
| 23          | 6130   | 2670     | 7770   | 14100  | 10600  | 5410   | 3340   | 5170   | 5010   | 1130  | 2390  | 3070   |     |       |
| 24          | 2110   | 4200     | 7330   | 12200  | 10700  | 5350   | 1730   | 6360   | 5410   | 906   | 2250  | 807    |     |       |
| 25          | 553    | 4130     | 7450   | 18800  | 10600  | 5780   | 7940   | 8850   | 1750   | 2090  | 2580  | 3540   |     |       |
| 26          | 6010   | 4070     | 2070   | 19400  | 10300  | 2810   | 14400  | 8680   | 716    | 3290  | 2660  | 6710   |     |       |
| 27          | 7090   | 3570     | 932    | 18900  | 2120   | 3140   | 11000  | 8650   | 2630   | 2350  | 1120  | 5880   |     |       |
| 28          | 7470   | 1630     | 7920   | 12400  | 1460   | 7660   | 11000  | 2320   | 3720   | 2320  | 689   | 4760   |     |       |
| 29          | 7370   | 763      | 9420   | 12000  | 6730   | 7640   | 11100  | 1030   | 3450   | 2540  | 2450  | 4930   |     |       |
| 30          | 7500   | 2480     | 9290   | 2470   | ---    | 9930   | 1710   | 6010   | 3340   | 1120  | 2900  | 4720   |     |       |
| 31          | 1770   | ---      | 9450   | 1360   | ---    | 10000  | ---    | 7150   | ---    | 766   | 2920  | ---    |     |       |
| TOTAL       | 167411 | 92088.00 | 153931 | 294950 | 319130 | 239250 | 217280 | 203020 | 137837 | 75167 | 63401 | 129187 |     |       |
| MEAN        | 5400   | 3070     | 4966   | 9515   | 11000  | 7718   | 7243   | 6549   | 4595   | 2425  | 2045  | 4306   |     |       |
| MAX         | 11100  | 6410     | 9450   | 29000  | 18100  | 13200  | 15000  | 11200  | 8790   | 4200  | 2920  | 6710   |     |       |
| MIN         | 553    | .00      | 605    | 980    | 1460   | 1280   | 1180   | 890    | 716    | 766   | 689   | 807    |     |       |
| CAL YR 1987 | TOTAL  | 3378708  | MEAN   | 9257   | MAX    | 54300  | MIN    | .00    | MEAN†  | 8841  | CFSM† | 1.08   | IN† | 14.66 |
| WTR YR 1988 | TOTAL  | 2092652  | MEAN   | 5718   | MAX    | 29000  | MIN    | .00    | MEAN†  | 5661  | CFSM† | .69    | IN† | 9.36  |

†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 1987 TO SEPTEMBER 1988

| DATE         | TIME       | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>MG/L AS<br>HCO3 | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|--------------|------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| NOV<br>05... | 1115 11300 |                                                 | 86                                                | 93                                                       | 7.20                           | 7.60                                  | 18.5                                 | 7.5                                 | 80                                                             | 21                                                              | 20                                                              | 20                                                        |
| JAN<br>21... | 0900 18100 |                                                 | 84                                                | 91                                                       | 7.27                           | 7.70                                  | 10.0                                 | 10.2                                | 90                                                             | 21                                                              | 17                                                              | 17                                                        |
| MAR<br>24... | 0815 5740  |                                                 | 74                                                | 77                                                       | 6.97                           | 7.40                                  | 14.5                                 | 9.8                                 | 95                                                             | 24                                                              | 20                                                              | 16                                                        |
| MAY<br>18... | 0815 2670  |                                                 | 80                                                | 83                                                       | 7.10                           | 7.40                                  | 21.5                                 | 5.7                                 | 65                                                             | 21                                                              | 17                                                              | 17                                                        |
| JUL<br>21... | 0730 492   |                                                 | 74                                                | 78                                                       | 7.21                           | 7.50                                  | 28.0                                 | 5.8                                 | 74                                                             | 25                                                              | 21                                                              | 21                                                        |
| AUG<br>25... | 0800 1810  |                                                 | 93                                                | 91                                                       | 7.22                           | 7.60                                  | 28.5                                 | 4.6                                 | 60                                                             | --                                                              | --                                                              | 25                                                        |

| DATE         | TUR-<br>BID-<br>ITY<br>(FTU) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CACO3 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) |
|--------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|
| NOV<br>05... | 2.6                          | 24                                                             | 45                                                                 | 19                                              | 0                                                                 | 5.4                                          | 1.4                                                  | 7.5                                          | 42                | 0.8                                     | 2.6                                                 |
| JAN<br>21... | 14                           | 170                                                            | 340                                                                | 17                                              | 0                                                                 | 4.8                                          | 1.3                                                  | 7.9                                          | 46                | 0.9                                     | 2.4                                                 |
| MAR<br>24... | 4.3                          | 18                                                             | 22                                                                 | 19                                              | 3                                                                 | 5.6                                          | 1.1                                                  | 5.7                                          | 37                | 0.6                                     | 2.2                                                 |
| MAY<br>18... | 2.7                          | 63                                                             | 5                                                                  | 20                                              | 3                                                                 | 6.0                                          | 1.3                                                  | 5.8                                          | 36                | 0.6                                     | 1.5                                                 |
| JUL<br>21... | 7.4                          | 42                                                             | 28                                                                 | 23                                              | 2                                                                 | 6.8                                          | 1.5                                                  | 5.2                                          | 31                | 0.5                                     | 1.7                                                 |
| AUG<br>25... | 2.2                          | 62                                                             | 63                                                                 | 24                                              | 0                                                                 | 7.1                                          | 1.6                                                  | 6.8                                          | 36                | 0.6                                     | 2.0                                                 |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITU-<br>ENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| NOV<br>05... | 12                                            | 5.2                                                 | 0.20                                               | 8.9                                               | 59                                                                 | 57                                                                  | 1800                                              | 0.08                                                |
| JAN<br>21... | 14                                            | 6.2                                                 | 0.20                                               | 6.4                                               | 58                                                                 | 56                                                                  | 2830                                              | 0.08                                                |
| MAR<br>24... | 13                                            | 5.4                                                 | 0.20                                               | 6.9                                               | 52                                                                 | 54                                                                  | 806                                               | 0.07                                                |
| MAY<br>18... | 11                                            | 4.9                                                 | 0.20                                               | 5.3                                               | 49                                                                 | 48                                                                  | 353                                               | 0.07                                                |
| JUL<br>21... | 9.2                                           | 4.8                                                 | 0.20                                               | 6.6                                               | 59                                                                 | 50                                                                  | 78.4                                              | 0.08                                                |
| AUG<br>25... | 9.5                                           | 5.7                                                 | 0.10                                               | 7.0                                               | 56                                                                 | 64                                                                  | 274                                               | 0.08                                                |

## APALACHICOLA RIVER BASIN

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02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) |
|--------------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>05... | <0.010                                                        | 0.120                                                         | 0.080                                                | 0.090                                                         | 0.52                                                 | 0.60                                                               | 0.030                                       | 0.010                                                | 0.010                                                          |
| JAN<br>21... | 0.020                                                         | 0.370                                                         | 0.090                                                | 0.070                                                         | 0.91                                                 | 1.0                                                                | 0.040                                       | 0.020                                                | <0.010                                                         |
| MAR<br>24... | <0.010                                                        | 0.390                                                         | 0.010                                                | 0.030                                                         | 0.39                                                 | 0.40                                                               | 0.030                                       | 0.030                                                | <0.010                                                         |
| MAY<br>18... | <0.010                                                        | 0.190                                                         | 0.050                                                | 0.050                                                         | 0.45                                                 | 0.50                                                               | 0.030                                       | 0.020                                                | <0.010                                                         |
| JUL<br>21... | <0.010                                                        | 0.160                                                         | 0.030                                                | 0.050                                                         | 0.57                                                 | 0.60                                                               | 0.040                                       | 0.010                                                | <0.010                                                         |
| AUG<br>25... | <0.010                                                        | 0.160                                                         | 0.150                                                | 0.140                                                         | 6.2                                                  | 6.4                                                                | 0.050                                       | 0.010                                                | <0.010                                                         |

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| NOV<br>05... | 20                                                  | <1                                           | 17                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 4                                            | 19                                         | <5                                         |
| JAN<br>21... | 60                                                  | <1                                           | 16                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 2                                            | 110                                        | <5                                         |
| MAY<br>18... | 10                                                  | <1                                           | 18                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 1                                            | 19                                         | <5                                         |
| AUG<br>25... | <10                                                 | <1                                           | 17                                           | <0.5                                                 | 1                                            | <1                                                  | <3                                           | 4                                            | 34                                         | <5                                         |

| DATE         | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| NOV<br>05... | <4                                           | 8                                                    | 0.2                                          | <10                                                   | <1                                           | <1                                                  | <1.0                                         | 29                                                   | <6                                                 | 11                                         |
| JAN<br>21... | <4                                           | 13                                                   | <0.1                                         | <10                                                   | 3                                            | <1                                                  | 1.0                                          | 24                                                   | <6                                                 | 9                                          |
| MAY<br>18... | <4                                           | 3                                                    | <0.1                                         | <10                                                   | 1                                            | <1                                                  | <1.0                                         | 29                                                   | <6                                                 | <3                                         |
| AUG<br>25... | <4                                           | 4                                                    | <0.1                                         | <10                                                   | 1                                            | <1                                                  | 1.0                                          | 35                                                   | <6                                                 | 15                                         |

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|------|-------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| NOV<br>05... | 1120 | 11300                                           | 18.5                                 | 19                                        | 580                                                           | 76                                                            |
| JAN<br>21... | 0905 | 18100                                           | 10.0                                 | 27                                        | 1320                                                          | 73                                                            |
| MAR<br>24... | 0820 | 5740                                            | 14.5                                 | 6                                         | 93                                                            | 84                                                            |
| MAY<br>18... | 0820 | 2670                                            | 21.5                                 | 7                                         | 50                                                            | 79                                                            |
| JUL<br>21... | 0735 | 492                                             | 28.0                                 | 15                                        | 20                                                            | 78                                                            |
| AUG<br>25... | 0805 | 1810                                            | 28.5                                 | 6                                         | 29                                                            | 84                                                            |

## 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1215 | 95                                                | 92                                                       | 6.60                           | 7.20                                  | 19.0                                 | 20.0                               | 9.5                                 | 103                                                            |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1350 | 118                                               | 111                                                      | 7.30                           | 7.40                                  | 16.5                                 | 24.0                               | 9.8                                 | 101                                                            |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1400 | 149                                               | 141                                                      | 7.20                           | 7.40                                  | 14.5                                 | 17.5                               | 9.2                                 | 91                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1350 | 92                                                | 86                                                       | 7.30                           | 7.40                                  | 11.0                                 | 22.0                               | 12.0                                | 110                                                            |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1350 | 99                                                | 94                                                       | 7.00                           | 7.60                                  | 10.0                                 | 9.0                                | 12.4                                | 111                                                            |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 16... | 1355 | 83                                                | 80                                                       | --                             | 7.50                                  | 15.0                                 | 14.0                               | 11.8                                | 117                                                            |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1330 | 110                                               | 111                                                      | 6.90                           | 7.20                                  | 19.0                                 | 23.5                               | 10.2                                | 112                                                            |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1340 | 100                                               | 98                                                       | 6.60                           | 7.20                                  | 26.0                                 | 31.5                               | 8.9                                 | 112                                                            |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1240 | 92                                                | 88                                                       | 6.80                           | 6.90                                  | 28.5                                 | 34.5                               | 9.4                                 | 122                                                            |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1240 | 95                                                | 91                                                       | --                             | 7.60                                  | 30.0                                 | 32.0                               | 9.8                                 | 131                                                            |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1235 | 108                                               | 105                                                      | --                             | 7.50                                  | 29.0                                 | 31.0                               | 8.4                                 | 110                                                            |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1245 | 107                                               | 109                                                      | 7.70                           | 7.10                                  | 29.0                                 | 32.0                               | 9.0                                 | 118                                                            |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 21... | 10                                           | 8.0                          | 10                                                             | 2.2                                                            | 230                                              | 24                                                            | 6                                                                 |
| NOV   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 18... | 40                                           | 6.0                          | 11                                                             | 2.4                                                            | 460                                              | 32                                                            | 9                                                                 |
| DEC   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 15... | 40                                           | 10                           | 26                                                             | 3.6                                                            | --                                               | 35                                                            | 19                                                                |
| JAN   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 19... | 25                                           | 10                           | 13                                                             | 1.1                                                            | 230                                              | 19                                                            | 17                                                                |
| FEB   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 18... | 40                                           | 14                           | 7                                                              | 1.4                                                            | 80                                               | 22                                                            | 15                                                                |
| MAR   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 16... | 15                                           | 14                           | 4                                                              | 1.4                                                            | 220                                              | 19                                                            | 16                                                                |
| APR   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 19... | 40                                           | 11                           | 15                                                             | 1.5                                                            | 1400                                             | 29                                                            | 9                                                                 |
| MAY   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 18... | 10                                           | 20                           | 17                                                             | 1.9                                                            | 140                                              | 25                                                            | 41                                                                |
| JUN   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 22... | --                                           | 5.0                          | 16                                                             | 1.4                                                            | 20                                               | 22                                                            | 1                                                                 |
| JUL   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 20... | 25                                           | 10                           | --                                                             | 1.8                                                            | 130                                              | 27                                                            | 15                                                                |
| AUG   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 17... | 10                                           | 3.0                          | --                                                             | 1.2                                                            | 80                                               | 30                                                            | 6                                                                 |
| SEP   |                                              |                              |                                                                |                                                                |                                                  |                                                               |                                                                   |
| 21... | 10                                           | 10                           | --                                                             | 1.7                                                            | 230                                              | 28                                                            | 10                                                                |

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT<br>21... | 0.150                                                | 0.030                                                | 0.57                                                 | 0.60                                                               | 0.75                                      | 0.060                                       | 6.1                                           |
| NOV<br>18... | 0.220                                                | 0.030                                                | 0.57                                                 | 0.60                                                               | 0.82                                      | 0.060                                       | 6.5                                           |
| DEC<br>15... | 0.310                                                | 0.080                                                | 0.42                                                 | 0.50                                                               | 0.81                                      | 0.080                                       | 6.6                                           |
| JAN<br>19... | 0.410                                                | 0.030                                                | 0.37                                                 | 0.40                                                               | 0.81                                      | 0.040                                       | 2.5                                           |
| FEB<br>18... | 0.500                                                | 0.070                                                | 0.63                                                 | 0.70                                                               | 1.2                                       | 0.070                                       | 7.4                                           |
| MAR<br>16... | 0.490                                                | 0.040                                                | 0.56                                                 | 0.60                                                               | 1.1                                       | 0.080                                       | 5.1                                           |
| APR<br>19... | 0.490                                                | <0.020                                               | --                                                   | 0.30                                                               | 0.79                                      | 0.050                                       | 3.8                                           |
| MAY<br>18... | 0.270                                                | 0.250                                                | 0.45                                                 | 0.70                                                               | 0.97                                      | 0.080                                       | 6.8                                           |
| JUN<br>22... | 0.130                                                | 0.060                                                | 0.44                                                 | 0.50                                                               | 0.63                                      | 0.040                                       | 7.2                                           |
| JUL<br>20... | 0.210                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.040                                       | 4.2                                           |
| AUG<br>17... | 0.310                                                | 0.120                                                | --                                                   | --                                                                 | --                                        | 0.030                                       | 3.3                                           |
| SEP<br>21... | 0.240                                                | <0.030                                               | --                                                   | --                                                                 | --                                        | 0.090                                       | 3.6                                           |

## 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 mi<sup>2</sup>.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 0940 | 155                                               | 145                                                      | 7.20                           | 7.10                                  | 14.0                                 | 15.0                               | 7.8                                 | 78                                                             |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1045 | 160                                               | 155                                                      | 6.90                           | 6.90                                  | 15.0                                 | 21.5                               | 5.2                                 | 53                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1055 | 140                                               | 135                                                      | 7.10                           | 7.20                                  | 7.0                                  | 5.5                                | 8.8                                 | 74                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1130 | 112                                               | 109                                                      | 7.00                           | 7.00                                  | 4.0                                  | 4.5                                | 11.2                                | 86                                                             |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1120 | 88                                                | 85                                                       | 6.70                           | 6.80                                  | 15.0                                 | 19.5                               | 6.5                                 | 66                                                             |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1200 | 140                                               | 136                                                      | 7.10                           | 7.20                                  | 10.0                                 | 20.5                               | 9.9                                 | 89                                                             |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 0930 | 100                                               | 94                                                       | 6.90                           | 7.10                                  | 17.0                                 | 21.5                               | 7.2                                 | 76                                                             |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 0915 | 138                                               | 139                                                      | 7.00                           | 7.10                                  | 16.0                                 | 17.5                               | 6.8                                 | 71                                                             |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1015 | 159                                               | 152                                                      | 7.10                           | 7.00                                  | 21.0                                 | 27.0                               | 5.9                                 | 68                                                             |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0940 | --                                                | 174                                                      | 7.20                           | 7.10                                  | 22.0                                 | 24.0                               | 5.6                                 | 65                                                             |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1215 | 161                                               | 166                                                      | 7.10                           | 7.20                                  | 26.5                                 | 34.0                               | 5.9                                 | 75                                                             |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1010 | 109                                               | 106                                                      | 7.10                           | 7.00                                  | 20.0                                 | 21.0                               | 6.6                                 | 74                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 14                           | 1.3                                                            | 940                                              | 41                                                              | 10                                                               | 0.280                                                | 0.060                                                | 0.060                                       | 3.1                                           |
| NOV   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 04... | 9.0                          | 2.4                                                            | 330                                              | 49                                                              | 11                                                               | 0.040                                                | 0.050                                                | 0.090                                       | 15                                            |
| DEC   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 02... | 14                           | 2.4                                                            | 130                                              | 41                                                              | 17                                                               | 0.320                                                | 0.160                                                | 0.050                                       | 3.3                                           |
| JAN   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 06... | 7.0                          | 2.1                                                            | --                                               | 30                                                              | 6                                                                | 0.330                                                | 0.180                                                | 0.040                                       | 2.5                                           |
| FEB   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 110                          | 4.7                                                            | 4600                                             | 20                                                              | 65                                                               | 0.330                                                | 0.350                                                | 0.190                                       | 6.9                                           |
| MAR   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 02... | 11                           | 2.1                                                            | 330                                              | 36                                                              | 4                                                                | 0.430                                                | 0.240                                                | 0.050                                       | 2.8                                           |
| APR   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | 10                           | 0.8                                                            | 1100                                             | 26                                                              | 11                                                               | 0.230                                                | 0.140                                                | 0.070                                       | 5.3                                           |
| MAY   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 04... | 20                           | 1.5                                                            | --                                               | 35                                                              | 15                                                               | 0.530                                                | 0.180                                                | 0.140                                       | 5.5                                           |
| JUN   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 24                           | 3.3                                                            | --                                               | 40                                                              | 28                                                               | 0.400                                                | 0.140                                                | 0.090                                       | 4.6                                           |
| JUL   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 06... | 15                           | 3.1                                                            | 330                                              | 44                                                              | 9                                                                | 0.530                                                | 0.110                                                | 0.070                                       | 5.2                                           |
| AUG   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 34                           | 1.4                                                            | 1700                                             | 40                                                              | 24                                                               | 0.340                                                | 0.110                                                | 0.090                                       | 5.6                                           |
| SEP   |                              |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 19                           | 0.9                                                            | 1100                                             | 28                                                              | 7                                                                | 0.320                                                | 0.270                                                | 0.040                                       | 4.6                                           |

## APALACHICOLA RIVER BASIN

265

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 mi<sup>2</sup>.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1015 | 135                                               | 127                                                      | 7.10                           | 7.00                                  | 15.0                                 | 17.0                               | 7.7                                 | 78                                                             |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1115 | 159                                               | 152                                                      | 6.70                           | 6.80                                  | 17.0                                 | 22.5                               | 2.6                                 | 28                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1130 | 418                                               | 402                                                      | 7.20                           | 7.40                                  | 11.5                                 | 10.0                               | 7.8                                 | 73                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1210 | 92                                                | 87                                                       | 6.90                           | 6.80                                  | 4.0                                  | 4.5                                | 10.4                                | 80                                                             |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1215 | 98                                                | 90                                                       | 6.70                           | 6.60                                  | 15.0                                 | 20.0                               | 6.4                                 | 65                                                             |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1230 | 128                                               | 124                                                      | 7.20                           | 7.30                                  | 12.0                                 | 22.0                               | 9.8                                 | 93                                                             |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1000 | 96                                                | 95                                                       | 6.60                           | 7.10                                  | 16.5                                 | 24.0                               | 6.4                                 | 67                                                             |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1015 | 124                                               | 126                                                      | 6.90                           | 7.00                                  | 16.0                                 | 17.5                               | 6.0                                 | 62                                                             |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1045 | 155                                               | 151                                                      | 7.10                           | 7.00                                  | 21.0                                 | 28.0                               | 5.6                                 | 65                                                             |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1015 | 198                                               | 192                                                      | 7.10                           | 7.00                                  | 22.0                                 | 25.0                               | 4.4                                 | 51                                                             |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1145 | 121                                               | 123                                                      | 6.90                           | 7.00                                  | 26.0                                 | 33.0                               | 4.2                                 | 53                                                             |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1040 | 90                                                | 88                                                       | 6.80                           | 6.70                                  | 20.5                                 | 23.0                               | 5.8                                 | 66                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 41                           | 1.4                                                            | 410                                              | 32                                                            | 33                                                               | 0.140                                                | 0.050                                                | 0.130                                       | 4.2                                           |
| NOV   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 04... | 8.0                          | 1.1                                                            | 170                                              | 43                                                            | 27                                                               | <0.020                                               | 0.230                                                | 0.190                                       | 16                                            |
| DEC   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 02... | 15                           | 6.1                                                            | 4900                                             | 86                                                            | 26                                                               | 0.300                                                | 11.3                                                 | 3.39                                        | 14                                            |
| JAN   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 06... | 10                           | 1.8                                                            | --                                               | 26                                                            | 20                                                               | 0.240                                                | 0.100                                                | 0.070                                       | 2.8                                           |
| FEB   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 61                           | 2.5                                                            | 2300                                             | 21                                                            | 33                                                               | 0.650                                                | 0.150                                                | 0.180                                       | 6.5                                           |
| MAR   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 02... | 12                           | 1.3                                                            | 60                                               | 33                                                            | 7                                                                | 0.240                                                | 0.090                                                | 0.080                                       | 3.9                                           |
| APR   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 05... | 30                           | 1.2                                                            | 790                                              | 33                                                            | 24                                                               | 0.260                                                | 0.140                                                | 0.140                                       | 6.2                                           |
| MAY   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 04... | 43                           | 1.3                                                            | --                                               | 33                                                            | 26                                                               | 0.450                                                | 0.130                                                | 0.180                                       | 17                                            |
| JUN   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 25                           | 2.1                                                            | --                                               | 44                                                            | 21                                                               | 0.230                                                | 0.070                                                | 0.130                                       | 5.0                                           |
| JUL   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 06... | 17                           | 2.8                                                            | 490                                              | 50                                                            | 10                                                               | 0.350                                                | 0.140                                                | 0.140                                       | 5.7                                           |
| AUG   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 03... | 24                           | 1.0                                                            | 230                                              | 30                                                            | 10                                                               | 0.290                                                | 0.110                                                | 0.130                                       | 5.5                                           |
| SEP   |                              |                                                                |                                                  |                                                               |                                                                  |                                                      |                                                      |                                             |                                               |
| 07... | 35                           | 0.7                                                            | 220                                              | 17                                                            | 18                                                               | 0.250                                                | 0.110                                                | 0.150                                       | 5.5                                           |



## 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 mi<sup>2</sup>.

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: Oct. 1-15. Records good, except those for the periods of estimated daily discharge, which are poor. Discharge affected by diversion by the Clayton County Water Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,690 ft<sup>3</sup>/s, Oct. 15, 1986, gage height, 15.16 ft; minimum daily discharge, 12 ft<sup>3</sup>/s, Oct. 20, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Jan. 21 | 0700 | 1,510                             | 10.22               | Feb. 5 | 0600 | *2,520                            | *12.25              |

Minimum daily discharge, 12 ft<sup>3</sup>/s, Oct. 20.

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     | 48   | 22   | 50   | 91   | 90   | 75   | 72   | 87   | 28   | 24   | 45   | 25   |
| 2     | 42   | 23   | 48   | 111  | 90   | 73   | 78   | 78   | 23   | 23   | 28   | 23   |
| 3     | 23   | 20   | 50   | 200  | 202  | 73   | 82   | 66   | 22   | 21   | 24   | 23   |
| 4     | 22   | 21   | 47   | 267  | 1340 | 82   | 95   | 60   | 28   | 22   | 21   | 91   |
| 5     | 21   | 23   | 46   | 291  | 2110 | 99   | 154  | 74   | 25   | 29   | 27   | 661  |
| 6     | 21   | 23   | 45   | 151  | 727  | 88   | 96   | 79   | 21   | 26   | 88   | 887  |
| 7     | 20   | 22   | 44   | 109  | 269  | 78   | 81   | 54   | 20   | 24   | 110  | 207  |
| 8     | 19   | 22   | 44   | 110  | 191  | 74   | 77   | 49   | 20   | 20   | 40   | 62   |
| 9     | 18   | 24   | 45   | 106  | 163  | 79   | 68   | 46   | 19   | 19   | 80   | 40   |
| 10    | 18   | 41   | 48   | 107  | 147  | 152  | 65   | 61   | 21   | 22   | 87   | 54   |
| 11    | 17   | 78   | 51   | 133  | 132  | 204  | 67   | 134  | 21   | 19   | 43   | 65   |
| 12    | 16   | 88   | 52   | 156  | 120  | 118  | 241  | 139  | 18   | 23   | 89   | 51   |
| 13    | 16   | 43   | 48   | 147  | 109  | 106  | 602  | 73   | 17   | 28   | 89   | 40   |
| 14    | 15   | 32   | 46   | 160  | 101  | 186  | 225  | 68   | 16   | 28   | 34   | 28   |
| 15    | 15   | 29   | 68   | 157  | 102  | 141  | 122  | 64   | 15   | 29   | 30   | 23   |
| 16    | 16   | 28   | 210  | 110  | 120  | 95   | 94   | 56   | 15   | 42   | 26   | 24   |
| 17    | 15   | 49   | 280  | 109  | 123  | 85   | 80   | 63   | 14   | 27   | 24   | 56   |
| 18    | 15   | 164  | 106  | 316  | 102  | 84   | 90   | 71   | 15   | 23   | 22   | 408  |
| 19    | 16   | 295  | 73   | 514  | 107  | 125  | 263  | 49   | 21   | 21   | 20   | 346  |
| 20    | 12   | 105  | 64   | 638  | 133  | 159  | 346  | 42   | 39   | 20   | 21   | 92   |
| 21    | 13   | 64   | 69   | 1290 | 120  | 106  | 165  | 38   | 36   | 20   | 25   | 67   |
| 22    | 17   | 53   | 141  | 533  | 98   | 91   | 103  | 34   | 24   | 21   | 41   | 104  |
| 23    | 17   | 46   | 310  | 221  | 90   | 87   | 93   | 34   | 22   | 28   | 30   | 59   |
| 24    | 18   | 42   | 156  | 161  | 87   | 83   | 322  | 36   | 19   | 81   | 55   | 36   |
| 25    | 18   | 41   | 93   | 146  | 86   | 87   | 593  | 49   | 17   | 54   | 105  | 30   |
| 26    | 13   | 41   | 92   | 155  | 81   | 178  | 294  | 45   | 16   | 29   | 62   | 32   |
| 27    | 19   | 42   | 79   | 145  | 79   | 250  | 471  | 37   | 16   | 25   | 31   | 26   |
| 28    | 49   | 45   | 131  | 113  | 79   | 131  | 195  | 33   | 19   | 23   | 26   | 26   |
| 29    | 53   | 46   | 399  | 101  | 78   | 104  | 121  | 29   | 21   | 31   | 23   | 25   |
| 30    | 27   | 49   | 280  | 97   | ---  | 91   | 97   | 28   | 21   | 31   | 22   | 23   |
| 31    | 21   | ---  | 123  | 93   | ---  | 79   | ---  | 29   | ---  | 105  | 20   | ---  |
| TOTAL | 670  | 1621 | 3338 | 7038 | 7276 | 3463 | 5452 | 1805 | 629  | 938  | 1388 | 3634 |
| MEAN  | 21.6 | 54.0 | 108  | 227  | 251  | 112  | 182  | 58.2 | 21.0 | 30.3 | 44.8 | 121  |
| MAX   | 53   | 295  | 399  | 1290 | 2110 | 250  | 602  | 139  | 39   | 105  | 110  | 887  |
| MIN   | 12   | 20   | 44   | 91   | 78   | 73   | 65   | 28   | 14   | 19   | 20   | 23   |
| CFSM  | .17  | .42  | .83  | 1.75 | 1.93 | .86  | 1.40 | .45  | .16  | .23  | .35  | .93  |
| IN.   | .19  | .46  | .96  | 2.01 | 2.08 | .99  | 1.56 | .52  | .18  | .27  | .40  | 1.04 |

|             |       |       |          |          |        |           |          |
|-------------|-------|-------|----------|----------|--------|-----------|----------|
| CAL YR 1987 | TOTAL | 48587 | MEAN 133 | MAX 2040 | MIN 12 | CFSM 1.02 | IN 13.90 |
| WTR YR 1988 | TOTAL | 37252 | MEAN 102 | MAX 2110 | MIN 12 | CFSM .79  | IN 10.66 |

## APALACHICOLA RIVER BASIN

267

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 mi<sup>2</sup>.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 07... | 1115 | 27                                              | 124                                               | 120                                                      | 7.20                           | 7.10                                  | 14.0                                 | 20.0                               | 8.9                                 | 88                                                             |
| NOV 04... | 1200 | 23                                              | 145                                               | 141                                                      | 7.10                           | 7.00                                  | 15.5                                 | 23.5                               | 7.5                                 | 77                                                             |
| DEC 02... | 1230 | 48                                              | 141                                               | 138                                                      | 7.20                           | 7.40                                  | 8.5                                  | 12.0                               | 9.6                                 | 84                                                             |
| JAN 06... | 1250 | 155                                             | 78                                                | 74                                                       | 6.90                           | 6.70                                  | 4.5                                  | 4.5                                | 11.0                                | 86                                                             |
| FEB 03... | 1300 | 192                                             | 84                                                | 78                                                       | 6.80                           | 6.70                                  | 14.0                                 | 20.0                               | 9.4                                 | 93                                                             |
| MAR 02... | 1305 | --                                              | 103                                               | 100                                                      | 7.30                           | 7.40                                  | 11.0                                 | 23.0                               | 10.7                                | 99                                                             |
| APR 05... | 1130 | 162                                             | 98                                                | 100                                                      | 6.90                           | 7.10                                  | 19.0                                 | 27.0                               | 7.1                                 | 78                                                             |
| JUN 07... | 1130 | 21                                              | 128                                               | 123                                                      | 7.20                           | 7.10                                  | 21.0                                 | 27.0                               | 6.8                                 | 78                                                             |
| JUL 07... | 0915 | 22                                              | 130                                               | 128                                                      | 6.80                           | 7.40                                  | 21.0                                 | 23.0                               | 6.3                                 | 72                                                             |
| AUG 03... | 1100 | 20                                              | 116                                               | 117                                                      | 7.00                           | 7.00                                  | 26.0                                 | 34.5                               | 6.3                                 | 79                                                             |
| SEP 07... | 1130 | 262                                             | 72                                                | 69                                                       | 6.50                           | 6.70                                  | 20.5                                 | 23.5                               | 5.6                                 | 64                                                             |

| DATE      | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 07... | 15                           | 0.8                                                            | 80                                               | 28                                                              | 6                                                                | 0.410                                                | 0.050                                                | 0.590                                       | 4.4                                           |
| NOV 04... | 5.0                          | 0.6                                                            | <20                                              | 34                                                              | <1                                                               | 0.040                                                | 0.080                                                | 0.570                                       | 13                                            |
| DEC 02... | 11                           | 1.7                                                            | 20                                               | 41                                                              | 14                                                               | 0.370                                                | 0.320                                                | 0.970                                       | 4.7                                           |
| JAN 06... | 12                           | 1.8                                                            | --                                               | 17                                                              | 7                                                                | 0.300                                                | 0.040                                                | 0.250                                       | 3.4                                           |
| FEB 03... | 55                           | 1.5                                                            | 230                                              | 19                                                              | 38                                                               | 0.470                                                | 0.310                                                | 0.360                                       | 5.6                                           |
| MAR 02... | 11                           | 0.9                                                            | 20                                               | 26                                                              | 3                                                                | 0.330                                                | 0.080                                                | 0.590                                       | 3.9                                           |
| APR 05... | 20                           | 0.9                                                            | 130                                              | 29                                                              | 21                                                               | 0.480                                                | 0.110                                                | 0.330                                       | 7.4                                           |
| JUN 07... | 15                           | 1.4                                                            | --                                               | 36                                                              | 6                                                                | 0.490                                                | 0.110                                                | 0.280                                       | 4.6                                           |
| JUL 07... | 20                           | 1.3                                                            | 210                                              | 37                                                              | 6                                                                | 0.360                                                | 0.100                                                | 0.240                                       | 4.3                                           |
| AUG 03... | 19                           | 1.1                                                            | 20                                               | 19                                                              | 6                                                                | 0.360                                                | 0.080                                                | 0.180                                       | 5.9                                           |
| SEP 07... | 40                           | 0.9                                                            | 360                                              | 10                                                              | 13                                                               | 0.170                                                | 0.040                                                | 0.180                                       | 6.2                                           |

## 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 mi<sup>2</sup>.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1200 | 12                                              | 122                                               | 115                                                      | 7.10                           | 7.10                                  | 15.5                                 | 23.5                               | 8.1                                 | 83                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1230 | 12                                              | 151                                               | 149                                                      | 7.00                           | 7.10                                  | 16.5                                 | 24.0                               | 6.6                                 | 69                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1300 | 35                                              | 129                                               | 125                                                      | 7.20                           | 7.20                                  | 9.0                                  | 13.0                               | 9.2                                 | 81                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1330 | 150                                             | 73                                                | 71                                                       | 6.90                           | 6.70                                  | 5.0                                  | 5.0                                | 10.8                                | 85                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1330 | 120                                             | 87                                                | 83                                                       | 6.90                           | 7.00                                  | 15.5                                 | 20.5                               | 9.4                                 | 96                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1330 | 51                                              | 93                                                | 91                                                       | 7.20                           | 7.40                                  | 11.0                                 | 24.5                               | 10.2                                | 94                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1200 | 73                                              | 105                                               | 104                                                      | 7.00                           | 7.30                                  | 18.5                                 | 27.5                               | 7.5                                 | 82                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1100 | 42                                              | 105                                               | 107                                                      | 7.00                           | 6.90                                  | 16.0                                 | 18.0                               | 7.1                                 | 74                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1215 | 5.7                                             | 140                                               | 135                                                      | 7.20                           | 7.10                                  | 23.0                                 | 28.0                               | 5.7                                 | 68                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1000 | 11                                              | 150                                               | 149                                                      | 7.10                           | 7.40                                  | 22.5                                 | 26.0                               | 5.2                                 | 61                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 0945 | 11                                              | 119                                               | 115                                                      | 7.00                           | 6.90                                  | 26.5                                 | 33.5                               | 4.5                                 | 57                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 07... | 1215 | 1230                                            | 64                                                | 62                                                       | 6.40                           | 6.30                                  | 20.5                                 | 24.0                               | 5.5                                 | 62                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
| OCT   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 07... | 20                           | 13                                                             | 0.8                                                            | 490                                              | 21                                                              | 2                                                                |
| NOV   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 04... | 5.0                          | 13                                                             | 0.7                                                            | <20                                              | 34                                                              | 4                                                                |
| DEC   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 02... | 10                           | 10                                                             | 1.6                                                            | 70                                               | 22                                                              | 18                                                               |
| JAN   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 06... | 12                           | 10                                                             | 2.1                                                            | --                                               | 16                                                              | 9                                                                |
| FEB   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 03... | 15                           | 11                                                             | 1.1                                                            | 1300                                             | 21                                                              | --                                                               |
| MAR   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 02... | 10                           | 12                                                             | 0.8                                                            | 40                                               | 26                                                              | 3                                                                |
| APR   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 05... | 14                           | 13                                                             | 0.8                                                            | 80                                               | 31                                                              | 9                                                                |
| MAY   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 04... | 19                           | 16                                                             | 1.4                                                            | --                                               | 26                                                              | 13                                                               |
| JUN   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 07... | 16                           | 19                                                             | 1.7                                                            | --                                               | 38                                                              | 7                                                                |
| JUL   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 07... | 17                           | 27                                                             | 1.0                                                            | 70                                               | 39                                                              | 10                                                               |
| AUG   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 03... | 25                           | 18                                                             | 1.1                                                            | 490                                              | 18                                                              | 8                                                                |
| SEP   |                              |                                                                |                                                                |                                                  |                                                                 |                                                                  |
| 07... | 42                           | 12                                                             | 1.2                                                            | 330                                              | 7                                                               | 8                                                                |

## APALACHICOLA RIVER BASIN

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02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT<br>07... | 0.330                                                | 0.040                                                | 0.26                                                 | 0.30                                                               | 0.63                                      | 0.390                                       | 4.6                                           |
| NOV<br>04... | <0.020                                               | 0.070                                                | 0.03                                                 | 0.10                                                               | --                                        | 0.520                                       | 16                                            |
| DEC<br>02... | 0.240                                                | 0.070                                                | 0.43                                                 | 0.50                                                               | 0.74                                      | 0.530                                       | 5.6                                           |
| JAN<br>06... | 0.230                                                | 0.030                                                | 0.37                                                 | 0.40                                                               | 0.63                                      | 0.190                                       | 3.5                                           |
| FEB<br>03... | 0.450                                                | 0.070                                                | 0.33                                                 | 0.40                                                               | 0.85                                      | 0.300                                       | 5.3                                           |
| MAR<br>02... | 0.220                                                | 0.060                                                | 0.24                                                 | 0.30                                                               | 0.52                                      | 0.460                                       | 3.3                                           |
| APR<br>05... | 0.480                                                | 0.160                                                | 0.14                                                 | 0.30                                                               | 0.78                                      | 0.290                                       | 2.0                                           |
| MAY<br>04... | 0.860                                                | 0.080                                                | 0.32                                                 | 0.40                                                               | 1.3                                       | 0.300                                       | 4.1                                           |
| JUN<br>07... | 0.380                                                | 0.070                                                | 0.33                                                 | 0.40                                                               | 0.78                                      | 0.280                                       | 4.2                                           |
| JUL<br>07... | 0.380                                                | 0.110                                                | --                                                   | --                                                                 | --                                        | 0.290                                       | 5.1                                           |
| AUG<br>03... | 0.660                                                | 0.090                                                | 0.61                                                 | 0.70                                                               | 1.4                                       | 0.200                                       | 6.6                                           |
| SEP<br>07... | 0.230                                                | <0.030                                               | --                                                   | 0.50                                                               | 0.73                                      | 0.120                                       | 7.3                                           |

## 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 mi<sup>2</sup>.

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.--No estimated daily discharges. Records good, except those less than 6 ft<sup>3</sup>/s and those greater than 100 ft<sup>3</sup>/s, which are fair. Some diurnal fluctuation at low flow. City of Griffin diverts approximately 8 ft<sup>3</sup>/s for municipal supply at pumping plant 6 mi upstream from gage. Approximately 1 ft<sup>3</sup>/s of the diversion discharged as sewage effluent into tributaries of Towaliga River, and approximately 3 ft<sup>3</sup>/s returned as sewage effluent to Flint River approximately 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.--51 years, 346 ft<sup>3</sup>/s, 17.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft<sup>3</sup>/s, Nov. 27, 1948, gage height, 18.0 ft; minimum daily discharge, 0.79 ft<sup>3</sup>/s, July 2, 3, 1988.

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 ft<sup>3</sup>/s.

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

| Date                                                         | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|--------------------------------------------------------------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Feb. 6                                                       | 0700 | *3,000                         | *11.82           | No other peak greater than base discharge. |      |                                |                  |
| Minimum daily discharge, 0.79 ft <sup>3</sup> /s, July 2, 3. |      |                                |                  |                                            |      |                                |                  |

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     | 30    | 34   | 52   | 201   | 164   | 125  | 129  | 147  | 26    | 1.0    | 48     | 61   |
| 2     | 56    | 30   | 54   | 199   | 155   | 122  | 127  | 127  | 27    | .79    | 53     | 29   |
| 3     | 77    | 28   | 53   | 252   | 285   | 121  | 129  | 106  | 21    | .79    | 24     | 22   |
| 4     | 46    | 26   | 53   | 378   | 922   | 138  | 141  | 93   | 16    | 5.0    | 21     | 229  |
| 5     | 37    | 22   | 53   | 391   | 2320  | 154  | 145  | 88   | 19    | 14     | 21     | 1410 |
| 6     | 30    | 23   | 54   | 400   | 2810  | 162  | 186  | 91   | 23    | 18     | 19     | 952  |
| 7     | 26    | 25   | 58   | 277   | 1490  | 150  | 148  | 102  | 16    | 19     | 31     | 881  |
| 8     | 21    | 23   | 49   | 229   | 629   | 130  | 119  | 80   | 14    | 13     | 147    | 712  |
| 9     | 18    | 24   | 48   | 207   | 355   | 137  | 111  | 72   | 14    | 10     | 62     | 220  |
| 10    | 15    | 26   | 49   | 206   | 292   | 190  | 105  | 70   | 14    | 7.1    | 55     | 142  |
| 11    | 12    | 45   | 52   | 207   | 258   | 245  | 124  | 93   | 11    | 4.4    | 76     | 134  |
| 12    | 12    | 73   | 57   | 219   | 233   | 274  | 310  | 144  | 9.4   | 12     | 55     | 167  |
| 13    | 10    | 97   | 61   | 248   | 211   | 203  | 373  | 158  | 11    | 12     | 66     | 124  |
| 14    | 6.8   | 67   | 62   | 252   | 191   | 177  | 536  | 103  | 10    | 9.5    | 80     | 94   |
| 15    | 5.1   | 47   | 82   | 254   | 184   | 218  | 412  | 90   | 6.5   | 12     | 52     | 72   |
| 16    | 4.8   | 40   | 130  | 244   | 184   | 197  | 197  | 84   | 4.1   | 14     | 27     | 56   |
| 17    | 4.4   | 76   | 188  | 223   | 190   | 150  | 152  | 74   | 3.2   | 19     | 20     | 370  |
| 18    | 11    | 128  | 256  | 365   | 191   | 142  | 160  | 78   | 2.8   | 21     | 15     | 838  |
| 19    | 17    | 161  | 151  | 464   | 196   | 176  | 340  | 86   | 3.1   | 12     | 11     | 549  |
| 20    | 15    | 234  | 105  | 873   | 206   | 200  | 422  | 64   | 5.9   | 6.3    | 7.7    | 590  |
| 21    | 11    | 148  | 96   | 1290  | 213   | 217  | 445  | 57   | 14    | 3.6    | 7.1    | 282  |
| 22    | 11    | 89   | 164  | 1360  | 195   | 166  | 268  | 51   | 29    | 2.5    | 9.8    | 156  |
| 23    | 8.4   | 74   | 210  | 1080  | 164   | 146  | 183  | 46   | 22    | 2.3    | 24     | 174  |
| 24    | 7.1   | 60   | 282  | 506   | 155   | 141  | 196  | 43   | 12    | 4.7    | 41     | 136  |
| 25    | 11    | 52   | 219  | 317   | 147   | 139  | 309  | 50   | 7.3   | 23     | 33     | 95   |
| 26    | 21    | 52   | 142  | 280   | 140   | 174  | 646  | 61   | 6.2   | 48     | 66     | 77   |
| 27    | 22    | 55   | 129  | 252   | 137   | 236  | 477  | 60   | 4.7   | 25     | 66     | 66   |
| 28    | 18    | 54   | 176  | 231   | 136   | 290  | 473  | 49   | 2.5   | 15     | 34     | 63   |
| 29    | 19    | 56   | 253  | 196   | 134   | 193  | 300  | 43   | 1.8   | 16     | 22     | 51   |
| 30    | 59    | 57   | 327  | 178   | ---   | 155  | 181  | 39   | 1.3   | 14     | 17     | 50   |
| 31    | 45    | ---  | 355  | 170   | ---   | 141  | ---  | 31   | ---   | 18     | 96     | ---  |
| TOTAL | 686.6 | 1926 | 4020 | 11949 | 12887 | 5409 | 7844 | 2480 | 357.8 | 382.98 | 1306.6 | 8802 |
| MEAN  | 22.1  | 64.2 | 130  | 385   | 444   | 174  | 261  | 80.0 | 11.9  | 12.4   | 42.1   | 293  |
| MAX   | 77    | 234  | 355  | 1360  | 2810  | 290  | 646  | 158  | 29    | 48     | 147    | 1410 |
| MIN   | 4.4   | 22   | 48   | 170   | 134   | 121  | 105  | 31   | 1.3   | .79    | 7.1    | 22   |
| CFSM  | .08   | .24  | .48  | 1.42  | 1.63  | .64  | .96  | .29  | .04   | .05    | .16    | 1.08 |
| IN.   | .09   | .26  | .55  | 1.63  | 1.76  | .74  | 1.07 | .34  | .05   | .05    | .18    | 1.20 |

|             |       |          |      |     |     |      |     |     |      |     |    |       |
|-------------|-------|----------|------|-----|-----|------|-----|-----|------|-----|----|-------|
| CAL YR 1987 | TOTAL | 87381.60 | MEAN | 239 | MAX | 3780 | MIN | 4.4 | CFSM | .88 | IN | 11.95 |
| WTR YR 1988 | TOTAL | 58050.98 | MEAN | 159 | MAX | 2810 | MIN | .79 | CFSM | .59 | IN | 7.94  |

## 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 mi<sup>2</sup>, approximately.

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

REVISED RECORDS.--WDR GA-87-1: 1986 (m).

GAGE.--Water-stage recorder. Elevation of gage is 740 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Aug. 8-26. Records good, except those for the periods of estimated discharges, Aug. 8-26, 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.--24 years, 127 ft<sup>3</sup>/s, 17.08 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft<sup>3</sup>/s, Nov. 5, 1977, gage height, 14.88 ft; minimum daily discharge, 1.0 ft<sup>3</sup>/s, Oct. 7, 1986.

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

| Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Feb. 5 | 1100 | *2,030                         | *10.18           | No other peak greater than base discharge. |      |                                |                  |

Minimum daily discharge, 1.9 ft<sup>3</sup>/s, July 1, 2.

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     | 15    | 9.5   | 18   | 60   | 69   | 56   | 58   | 44    | 6.8   | 1.9  | 2.5   | 4.2    |
| 2     | 13    | 12    | 16   | 81   | 69   | 54   | 55   | 37    | 6.0   | 1.9  | 2.7   | 3.9    |
| 3     | 11    | 11    | 17   | 98   | 199  | 53   | 56   | 35    | 5.9   | 2.1  | 2.3   | 4.3    |
| 4     | 8.8   | 10    | 16   | 129  | 924  | 63   | 77   | 35    | 5.7   | 2.4  | 3.0   | 39     |
| 5     | 6.7   | 12    | 17   | 110  | 1830 | 69   | 77   | 29    | 5.2   | 2.7  | 2.7   | 258    |
| 6     | 5.7   | 8.9   | 19   | 82   | 843  | 64   | 68   | 28    | 4.9   | 3.6  | 3.4   | 208    |
| 7     | 5.1   | 7.2   | 19   | 70   | 358  | 60   | 61   | 23    | 4.8   | 3.4  | 8.6   | 78     |
| 8     | 6.2   | 8.4   | 18   | 75   | 215  | 57   | 54   | 20    | 4.4   | 2.8  | 18    | 33     |
| 9     | 3.7   | 9.2   | 14   | 70   | 168  | 64   | 45   | 24    | 4.3   | 3.0  | 25    | 19     |
| 10    | 4.7   | 23    | 15   | 66   | 141  | 91   | 42   | 25    | 3.9   | 3.1  | 17    | 19     |
| 11    | 4.5   | 26    | 19   | 67   | 123  | 100  | 46   | 44    | 3.6   | 3.0  | 10    | 17     |
| 12    | 4.3   | 23    | 23   | 63   | 113  | 82   | 251  | 47    | 3.4   | 3.6  | 7.0   | 15     |
| 13    | 5.2   | 21    | 25   | 67   | 101  | 78   | 435  | 29    | 3.1   | 3.1  | 5.5   | 13     |
| 14    | 2.8   | 21    | 28   | 79   | 92   | 93   | 256  | 22    | 3.0   | 3.1  | 4.5   | 9.7    |
| 15    | 4.3   | 21    | 57   | 76   | 90   | 84   | 119  | 19    | 2.9   | 3.2  | 4.0   | 8.1    |
| 16    | 4.6   | 20    | 85   | 64   | 101  | 69   | 85   | 21    | 2.7   | 3.2  | 4.0   | 7.9    |
| 17    | 4.5   | 45    | 75   | 68   | 96   | 61   | 63   | 19    | 2.6   | 2.9  | 3.5   | 148    |
| 18    | 4.2   | 87    | 53   | 160  | 87   | 60   | 74   | 18    | 26    | 3.3  | 3.0   | 533    |
| 19    | 4.4   | 70    | 40   | 224  | 106  | 85   | 196  | 15    | 9.6   | 2.8  | 3.0   | 251    |
| 20    | 9.3   | 44    | 34   | 351  | 106  | 84   | 195  | 14    | 4.1   | 2.7  | 3.5   | 84     |
| 21    | 8.7   | 28    | 38   | 777  | 96   | 71   | 119  | 12    | 3.8   | 3.5  | 4.0   | 86     |
| 22    | 6.7   | 20    | 87   | 472  | 82   | 64   | 81   | 11    | 3.0   | 3.4  | 6.0   | 51     |
| 23    | 6.6   | 17    | 94   | 204  | 74   | 58   | 80   | 11    | 2.9   | 6.2  | 11    | 27     |
| 24    | 6.5   | 15    | 70   | 138  | 73   | 52   | 144  | 13    | 2.6   | 5.5  | 14    | 17     |
| 25    | 6.6   | 15    | 55   | 126  | 76   | 51   | 218  | 18    | 2.5   | 3.7  | 12    | 16     |
| 26    | 9.3   | 15    | 46   | 122  | 71   | 91   | 164  | 15    | 2.5   | 3.5  | 9.0   | 14     |
| 27    | 12    | 16    | 44   | 100  | 65   | 122  | 145  | 12    | 2.3   | 3.1  | 5.9   | 13     |
| 28    | 13    | 17    | 88   | 85   | 61   | 91   | 99   | 11    | 2.2   | 2.9  | 5.1   | 12     |
| 29    | 10    | 18    | 153  | 78   | 59   | 73   | 69   | 9.5   | 2.1   | 2.9  | 3.6   | 11     |
| 30    | 9.0   | 18    | 113  | 74   | ---  | 65   | 53   | 8.7   | 2.0   | 2.8  | 4.3   | 10     |
| 31    | 8.5   | ---   | 73   | 71   | ---  | 61   | ---  | 7.5   | ---   | 2.4  | 4.5   | ---    |
| TOTAL | 224.9 | 668.2 | 1469 | 4307 | 6488 | 2226 | 3485 | 676.7 | 138.8 | 97.7 | 212.6 | 2010.1 |
| MEAN  | 7.25  | 22.3  | 47.4 | 139  | 224  | 71.8 | 116  | 21.8  | 4.63  | 3.15 | 6.86  | 67.0   |
| MAX   | 15    | 87    | 153  | 777  | 1830 | 122  | 435  | 47    | 26    | 6.2  | 25    | 533    |
| MIN   | 2.8   | 7.2   | 14   | 60   | 59   | 51   | 42   | 7.5   | 2.0   | 1.9  | 2.3   | 3.9    |
| CFSM  | .07   | .22   | .47  | 1.38 | 2.22 | .71  | 1.15 | .22   | .05   | .03  | .07   | .66    |
| IN.   | .08   | .25   | .54  | 1.59 | 2.39 | .82  | 1.28 | .25   | .05   | .04  | .08   | .74    |

|             |       |         |      |      |     |      |     |     |      |     |    |       |
|-------------|-------|---------|------|------|-----|------|-----|-----|------|-----|----|-------|
| CAL YR 1987 | TOTAL | 35494.4 | MEAN | 97.2 | MAX | 1540 | MIN | 2.8 | CFSM | .96 | IN | 13.07 |
| WTR YR 1988 | TOTAL | 22004.0 | MEAN | 60.1 | MAX | 1830 | MIN | 1.9 | CFSM | .60 | IN | 8.10  |



## 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 mi<sup>2</sup>, 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 ft<sup>3</sup>/s, which are fair.

AVERAGE DISCHARGE.--22 years, 1,560 ft<sup>3</sup>/s, 17.36 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,400 ft<sup>3</sup>/s, Mar. 3, 1971, gage height, 18.4 ft, from floodmarks; minimum daily discharge, 55 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date                                                     | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|----------------------------------------------------------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Feb. 7                                                   | 0200 | *7,110                            | *11.41              | No other peak greater than base discharge. |      |                                   |                     |
| Minimum daily discharge, 65 ft <sup>3</sup> /s, Aug. 21. |      |                                   |                     |                                            |      |                                   |                     |

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     | 250  | 209   | 360   | 1080  | 1030  | 816   | 803   | 910   | 257  | 93   | 116  | 155   |
| 2     | 269  | 205   | 350   | 1130  | 1010  | 794   | 801   | 813   | 238  | 90   | 109  | 193   |
| 3     | 246  | 195   | 346   | 1340  | 1350  | 792   | 790   | 737   | 221  | 97   | 101  | 155   |
| 4     | 252  | 203   | 340   | 1690  | 2840  | 990   | 814   | 678   | 209  | 129  | 132  | 243   |
| 5     | 241  | 200   | 333   | 1650  | 4780  | 1070  | 845   | 652   | 194  | 133  | 150  | 1610  |
| 6     | 211  | 201   | 326   | 1450  | 6620  | 1020  | 853   | 621   | 180  | 124  | 183  | 3020  |
| 7     | 177  | 196   | 321   | 1290  | 6880  | 948   | 854   | 589   | 181  | 117  | 162  | 2340  |
| 8     | 157  | 191   | 330   | 1180  | 5100  | 892   | 765   | 565   | 188  | 115  | 125  | 1620  |
| 9     | 148  | 199   | 331   | 1070  | 2450  | 900   | 691   | 519   | 185  | 115  | 180  | 1230  |
| 10    | 142  | 237   | 336   | 1020  | 1670  | 1110  | 652   | 567   | 184  | 107  | 247  | 669   |
| 11    | 139  | 251   | 346   | 1010  | 1460  | 1220  | 673   | 677   | 169  | 103  | 185  | 507   |
| 12    | 130  | 294   | 351   | 1010  | 1330  | 1200  | 1570  | 683   | 157  | 105  | 173  | 437   |
| 13    | 148  | 310   | 356   | 1030  | 1220  | 1140  | 1900  | 684   | 151  | 131  | 181  | 428   |
| 14    | 128  | 330   | 368   | 1060  | 1130  | 1020  | 1970  | 660   | 139  | 145  | 159  | 371   |
| 15    | 114  | 316   | 485   | 1060  | 1110  | 964   | 1930  | 556   | 130  | 141  | 181  | 311   |
| 16    | 112  | 286   | 672   | 1020  | 1130  | 963   | 1280  | 510   | 125  | 120  | 191  | 316   |
| 17    | 111  | 781   | 763   | 1060  | 1110  | 901   | 934   | 502   | 118  | 104  | 157  | 778   |
| 18    | 110  | 1110  | 747   | 1740  | 1090  | 847   | 943   | 485   | 112  | 105  | 119  | 3170  |
| 19    | 111  | 975   | 746   | 2350  | 1210  | 955   | 1990  | 455   | 101  | 100  | 93   | 3530  |
| 20    | 110  | 798   | 608   | 4380  | 1260  | 1020  | 2220  | 437   | 104  | 94   | 73   | 2660  |
| 21    | 112  | 713   | 583   | 5610  | 1210  | 991   | 1860  | 401   | 151  | 86   | 65   | 1610  |
| 22    | 116  | 563   | 932   | 5300  | 1120  | 948   | 1490  | 366   | 134  | 83   | 75   | 941   |
| 23    | 117  | 453   | 1160  | 4620  | 1040  | 863   | 1180  | 342   | 127  | 106  | 89   | 681   |
| 24    | 120  | 401   | 1070  | 3340  | 987   | 820   | 1150  | 346   | 136  | 106  | 91   | 572   |
| 25    | 124  | 360   | 996   | 2040  | 942   | 827   | 1220  | 374   | 165  | 92   | 97   | 483   |
| 26    | 123  | 345   | 849   | 1730  | 905   | 981   | 2630  | 356   | 167  | 81   | 147  | 398   |
| 27    | 142  | 343   | 715   | 1520  | 878   | 1040  | 2520  | 365   | 156  | 83   | 142  | 346   |
| 28    | 156  | 359   | 840   | 1340  | 853   | 1090  | 1790  | 352   | 133  | 127  | 149  | 316   |
| 29    | 167  | 363   | 1100  | 1210  | 835   | 1050  | 1450  | 325   | 114  | 124  | 140  | 295   |
| 30    | 175  | 362   | 1250  | 1120  | ---   | 908   | 1100  | 298   | 101  | 139  | 110  | 270   |
| 31    | 177  | ---   | 1210  | 1060  | ---   | 838   | ---   | 274   | ---  | 161  | 101  | ---   |
| TOTAL | 4835 | 11749 | 19520 | 57510 | 54550 | 29918 | 39668 | 16099 | 4727 | 3456 | 4223 | 29655 |
| MEAN  | 156  | 392   | 630   | 1855  | 1881  | 965   | 1322  | 519   | 158  | 111  | 136  | 989   |
| MAX   | 269  | 1110  | 1250  | 5610  | 6880  | 1220  | 2630  | 910   | 257  | 161  | 247  | 3530  |
| MIN   | 110  | 191   | 321   | 1010  | 835   | 792   | 652   | 274   | 101  | 81   | 65   | 155   |
| CFSM  | .13  | .32   | .52   | 1.52  | 1.54  | .79   | 1.08  | .43   | .13  | .09  | .11  | .81   |
| IN.   | .15  | .36   | .60   | 1.75  | 1.66  | .91   | 1.21  | .49   | .14  | .11  | .13  | .90   |

|             |       |        |      |      |     |       |     |     |      |     |    |       |
|-------------|-------|--------|------|------|-----|-------|-----|-----|------|-----|----|-------|
| CAL YR 1987 | TOTAL | 428635 | MEAN | 1174 | MAX | 11100 | MIN | 110 | CFSM | .96 | IN | 13.07 |
| WTR YR 1988 | TOTAL | 275910 | MEAN | 754  | MAX | 6880  | MIN | 65  | CFSM | .62 | IN | 8.41  |

## 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 mi<sup>2</sup>, 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.--65 years (water years 1912-22, 1929-31, 1938-88), 2,343 ft<sup>3</sup>/s, 17.20 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,000 ft<sup>3</sup>/s, Mar. 15, 1929, gage height, 38.4 ft, from graph based on gage readings; minimum, 81 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date                                                                     | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------------------------------------------------------------------------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20                                                                  | 1700 | *11,300                           | *13.32              | No other peak greater than base discharge. |      |                                   |                     |
| Minimum discharge, 117 ft <sup>3</sup> /s July 28, gage height, 1.00 ft. |      |                                   |                     |                                            |      |                                   |                     |

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     | 276  | 260   | 503   | 1360  | 1390  | 1110  | 1130  | 1380  | 415  | 145  | 223  | 279   |
| 2     | 330  | 283   | 498   | 1400  | 1340  | 1080  | 1090  | 1180  | 388  | 140  | 194  | 264   |
| 3     | 334  | 275   | 482   | 1810  | 1690  | 1060  | 1080  | 1060  | 361  | 157  | 159  | 269   |
| 4     | 310  | 265   | 478   | 2350  | 3700  | 1320  | 1080  | 966   | 335  | 180  | 146  | 351   |
| 5     | 317  | 275   | 469   | 2360  | 6090  | 1720  | 1100  | 920   | 313  | 244  | 157  | 1120  |
| 6     | 288  | 270   | 462   | 2000  | 7310  | 1570  | 1110  | 869   | 294  | 232  | 191  | 3090  |
| 7     | 264  | 267   | 459   | 1750  | 7820  | 1410  | 1130  | 820   | 285  | 200  | 231  | 2870  |
| 8     | 232  | 261   | 460   | 1770  | 6540  | 1300  | 1070  | 781   | 282  | 177  | 249  | 1830  |
| 9     | 214  | 262   | 473   | 1600  | 3910  | 1240  | 929   | 741   | 289  | 170  | 226  | 1500  |
| 10    | 208  | 287   | 482   | 1460  | 2470  | 1700  | 882   | 749   | 296  | 158  | 229  | 996   |
| 11    | 200  | 365   | 490   | 1450  | 2090  | 1980  | 863   | 921   | 290  | 187  | 274  | 705   |
| 12    | 194  | 375   | 492   | 1450  | 1870  | 1840  | 1740  | 938   | 264  | 199  | 232  | 601   |
| 13    | 184  | 392   | 496   | 1420  | 1700  | 1750  | 2760  | 883   | 245  | 184  | 214  | 538   |
| 14    | 199  | 402   | 498   | 1440  | 1560  | 1620  | 2560  | 872   | 229  | 218  | 214  | 515   |
| 15    | 182  | 419   | 583   | 1440  | 1500  | 1440  | 2570  | 792   | 216  | 227  | 206  | 460   |
| 16    | 175  | 394   | 818   | 1380  | 1580  | 1350  | 2000  | 709   | 205  | 208  | 219  | 413   |
| 17    | 174  | 871   | 936   | 1380  | 1530  | 1300  | 1380  | 795   | 197  | 182  | 232  | 582   |
| 18    | 174  | 2000  | 906   | 2560  | 1470  | 1210  | 1220  | 774   | 188  | 164  | 201  | 2980  |
| 19    | 172  | 1500  | 896   | 4260  | 1890  | 1310  | 4630  | 692   | 179  | 148  | 169  | 4130  |
| 20    | 170  | 1120  | 821   | 8510  | 2230  | 1450  | 4350  | 648   | 165  | 147  | 141  | 3200  |
| 21    | 166  | 921   | 732   | 8950  | 1970  | 1430  | 3120  | 605   | 166  | 140  | 128  | 2090  |
| 22    | 168  | 809   | 1110  | 7030  | 1730  | 1360  | 2420  | 558   | 198  | 149  | 132  | 1220  |
| 23    | 170  | 665   | 1550  | 5850  | 1570  | 1260  | 1890  | 531   | 183  | 285  | 230  | 830   |
| 24    | 173  | 590   | 1470  | 4620  | 1450  | 1170  | 1740  | 518   | 174  | 197  | 219  | 683   |
| 25    | 183  | 551   | 1280  | 3140  | 1370  | 1120  | 1690  | 562   | 194  | 161  | 201  | 605   |
| 26    | 188  | 514   | 1150  | 2540  | 1280  | 1320  | 3760  | 593   | 224  | 140  | 175  | 522   |
| 27    | 192  | 502   | 932   | 2210  | 1230  | 1560  | 3920  | 554   | 249  | 125  | 209  | 453   |
| 28    | 221  | 506   | 990   | 1910  | 1190  | 1520  | 2910  | 538   | 210  | 118  | 207  | 411   |
| 29    | 242  | 516   | 1440  | 1710  | 1150  | 1490  | 2210  | 508   | 181  | 161  | 193  | 383   |
| 30    | 246  | 509   | 1560  | 1560  | ---   | 1350  | 1750  | 477   | 161  | 218  | 194  | 361   |
| 31    | 254  | ---   | 1500  | 1460  | ---   | 1210  | ---   | 442   | ---  | 244  | 246  | ---   |
| TOTAL | 6800 | 16626 | 25416 | 84130 | 72620 | 43550 | 60084 | 23376 | 7376 | 5605 | 6241 | 34251 |
| MEAN  | 219  | 554   | 820   | 2714  | 2504  | 1405  | 2003  | 754   | 246  | 181  | 201  | 1142  |
| MAX   | 334  | 2000  | 1560  | 8950  | 7820  | 1980  | 4630  | 1380  | 415  | 285  | 274  | 4130  |
| MIN   | 166  | 260   | 459   | 1360  | 1150  | 1060  | 863   | 442   | 161  | 118  | 128  | 264   |
| CFSM  | .12  | .30   | .44   | 1.47  | 1.35  | .76   | 1.08  | .41   | .13  | .10  | .11  | .62   |
| IN.   | .14  | .33   | .51   | 1.69  | 1.46  | .88   | 1.21  | .47   | .15  | .11  | .13  | .69   |

|             |       |        |      |      |     |       |     |     |      |     |    |       |
|-------------|-------|--------|------|------|-----|-------|-----|-----|------|-----|----|-------|
| CAL YR 1987 | TOTAL | 665053 | MEAN | 1822 | MAX | 20600 | MIN | 166 | CFSM | .99 | IN | 13.37 |
| WTR YR 1988 | TOTAL | 386075 | MEAN | 1055 | MAX | 8950  | MIN | 118 | CFSM | .57 | IN | 7.76  |

## 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 mi<sup>2</sup>, 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.--Estimated daily discharges: Nov. 18-24, Dec. 17-21, 23, 29. Records good, except those of no gage height record, Nov. 18-24, Dec. 17-21, 23, 29, which are fair. 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.--66 years (water years 1905-12, 1931-88), 3,519 ft<sup>3</sup>/s, 16.48 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,900 ft<sup>3</sup>/s, Nov. 30, 1948, gage height, 25.2 ft; minimum, 440 ft<sup>3</sup>/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 ft<sup>3</sup>/s, from rating curve extended above 10,000 ft<sup>3</sup>/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 ft<sup>3</sup>/s, from rating curve extended above 65,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 13,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Jan. 25 | 0300 | *9,400                            | *11.53              |

Minimum discharge, 541 ft<sup>3</sup>/s, July 22, Aug. 21.

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     | 726   | 749   | 1110  | 2080   | 2430   | 1980  | 2000  | 2780  | 926   | 592   | 663   | 732   |
| 2     | 715   | 755   | 1090  | 2080   | 2330   | 1920  | 1910  | 2350  | 892   | 581   | 678   | 761   |
| 3     | 743   | 763   | 1070  | 2260   | 2290   | 1890  | 1870  | 2080  | 863   | 593   | 657   | 744   |
| 4     | 774   | 787   | 1060  | 2730   | 2600   | 2260  | 1850  | 1890  | 831   | 650   | 621   | 788   |
| 5     | 785   | 798   | 1050  | 3140   | 3820   | 2830  | 1830  | 1760  | 805   | 760   | 601   | 1110  |
| 6     | 779   | 796   | 1040  | 3160   | 5450   | 3100  | 1820  | 1660  | 793   | 767   | 620   | 1660  |
| 7     | 779   | 793   | 1030  | 2810   | 6340   | 2880  | 1810  | 1570  | 789   | 722   | 601   | 2870  |
| 8     | 755   | 783   | 1030  | 2610   | 6920   | 2520  | 1830  | 1490  | 781   | 668   | 621   | 3250  |
| 9     | 732   | 786   | 1030  | 2630   | 7440   | 2350  | 1790  | 1420  | 824   | 619   | 654   | 2620  |
| 10    | 709   | 796   | 1040  | 2570   | 7590   | 2410  | 1680  | 1380  | 874   | 591   | 656   | 2210  |
| 11    | 697   | 805   | 1050  | 2440   | 5460   | 2910  | 1610  | 1410  | 825   | 637   | 618   | 1920  |
| 12    | 691   | 837   | 1050  | 2380   | 3400   | 3170  | 1780  | 1540  | 801   | 620   | 622   | 1560  |
| 13    | 683   | 882   | 1040  | 2320   | 2910   | 2980  | 2470  | 1630  | 769   | 633   | 639   | 1350  |
| 14    | 671   | 898   | 1040  | 2260   | 2660   | 2770  | 3340  | 1690  | 739   | 628   | 608   | 1190  |
| 15    | 664   | 911   | 1100  | 2240   | 2510   | 2580  | 3250  | 1600  | 709   | 614   | 594   | 1090  |
| 16    | 671   | 926   | 1260  | 2180   | 2430   | 2340  | 3120  | 1490  | 681   | 632   | 598   | 1020  |
| 17    | 666   | 1080  | 1400  | 2110   | 2430   | 2190  | 2780  | 1390  | 663   | 631   | 593   | 1060  |
| 18    | 661   | 1400  | 1600  | 2400   | 2390   | 2160  | 2260  | 1360  | 649   | 603   | 597   | 1190  |
| 19    | 661   | 1900  | 1700  | 3690   | 2690   | 2290  | 2630  | 1380  | 652   | 571   | 598   | 2170  |
| 20    | 660   | 2600  | 1800  | 5180   | 3320   | 2490  | 4780  | 1290  | 670   | 551   | 564   | 3760  |
| 21    | 653   | 2200  | 1500  | 6640   | 3810   | 2560  | 6280  | 1220  | 650   | 547   | 545   | 3720  |
| 22    | 645   | 1700  | 1540  | 7550   | 3480   | 2410  | 5960  | 1160  | 631   | 548   | 577   | 2870  |
| 23    | 642   | 1500  | 1800  | 8370   | 2990   | 2260  | 4240  | 1110  | 610   | 556   | 634   | 2050  |
| 24    | 647   | 1300  | 2400  | 9230   | 2660   | 2130  | 3320  | 1070  | 607   | 613   | 716   | 1560  |
| 25    | 662   | 1240  | 2600  | 9170   | 2450   | 2030  | 3000  | 1200  | 600   | 677   | 752   | 1300  |
| 26    | 672   | 1190  | 2400  | 7400   | 2300   | 2100  | 3390  | 1290  | 606   | 647   | 677   | 1160  |
| 27    | 685   | 1150  | 2200  | 4550   | 2180   | 2340  | 4330  | 1230  | 652   | 610   | 615   | 1060  |
| 28    | 700   | 1130  | 2000  | 3550   | 2100   | 2520  | 5180  | 1130  | 687   | 567   | 574   | 976   |
| 29    | 709   | 1120  | 1600  | 3070   | 2040   | 2400  | 4490  | 1070  | 667   | 577   | 588   | 903   |
| 30    | 725   | 1110  | 1940  | 2760   | ---    | 2280  | 3370  | 1020  | 622   | 596   | 594   | 850   |
| 31    | 742   | ---   | 2120  | 2570   | ---    | 2150  | ---   | 972   | ---   | 632   | 644   | ---   |
| TOTAL | 21704 | 33685 | 45690 | 118130 | 101420 | 75200 | 89970 | 45632 | 21868 | 19233 | 19319 | 49574 |
| MEAN  | 700   | 1123  | 1474  | 3811   | 3497   | 2426  | 2999  | 1472  | 729   | 620   | 623   | 1650  |
| MAX   | 785   | 2600  | 2600  | 9230   | 7590   | 3170  | 6280  | 2780  | 926   | 767   | 752   | 3760  |
| MIN   | 642   | 749   | 1030  | 2080   | 2040   | 1890  | 1610  | 972   | 600   | 547   | 545   | 732   |
| CFSM  | .24   | .39   | .51   | 1.31   | 1.21   | .84   | 1.03  | .51   | .25   | .21   | .22   | .57   |
| IN.   | .28   | .43   | .59   | 1.52   | 1.30   | .96   | 1.15  | .59   | .28   | .25   | .25   | .64   |

|             |       |         |      |      |     |       |     |     |      |      |    |       |
|-------------|-------|---------|------|------|-----|-------|-----|-----|------|------|----|-------|
| CAL YR 1987 | TOTAL | 1085706 | MEAN | 2975 | MAX | 24300 | MIN | 642 | CFSM | 1.03 | IN | 13.93 |
| WTR YR 1988 | TOTAL | 641355  | MEAN | 1752 | MAX | 9230  | MIN | 545 | CFSM | .60  | IN | 8.23  |

## APALACHICOLA RIVER BASIN

275

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY  | OCT | NOV  | DEC  | JAN   | FEB  | MAR  | APR  | MAY  | JUN  | JUL | AUG | SEP  |
|------|-----|------|------|-------|------|------|------|------|------|-----|-----|------|
| 1    | .82 | .87  | 1.73 | 3.57  | 4.10 | 3.38 | 3.41 | 4.61 | 1.28 | .39 | .59 | .79  |
| 2    | .79 | .89  | 1.69 | 3.58  | 3.95 | 3.28 | 3.26 | 3.98 | 1.20 | .35 | .64 | .86  |
| 3    | .86 | .91  | 1.65 | 3.87  | 3.89 | 3.22 | 3.18 | 3.54 | 1.13 | .39 | .58 | .82  |
| 4    | .94 | .97  | 1.63 | 4.57  | 4.34 | 3.82 | 3.16 | 3.22 | 1.04 | .55 | .47 | .93  |
| 5    | .96 | 1.00 | 1.60 | 5.15  | 5.98 | 4.68 | 3.12 | 3.00 | .98  | .86 | .41 | 1.70 |
| 6    | .95 | .99  | 1.59 | 5.17  | 7.84 | 5.07 | 3.10 | 2.81 | .95  | .88 | .47 | 2.80 |
| 7    | .95 | .98  | 1.56 | 4.68  | 8.75 | 4.76 | 3.09 | 2.65 | .94  | .76 | .41 | 4.73 |
| 8    | .89 | .96  | 1.56 | 4.39  | 9.31 | 4.24 | 3.12 | 2.49 | .92  | .61 | .47 | 5.27 |
| 9    | .83 | .97  | 1.56 | 4.43  | 9.81 | 3.97 | 3.05 | 2.35 | 1.03 | .47 | .57 | 4.38 |
| 10   | .77 | .99  | 1.58 | 4.34  | 9.95 | 4.06 | 2.85 | 2.28 | 1.15 | .38 | .57 | 3.76 |
| 11   | .74 | 1.01 | 1.61 | 4.14  | 7.81 | 4.80 | 2.72 | 2.33 | 1.03 | .52 | .46 | 3.27 |
| 12   | .73 | 1.09 | 1.60 | 4.05  | 5.46 | 5.17 | 3.03 | 2.59 | .97  | .47 | .47 | 2.62 |
| 13   | .71 | 1.21 | 1.59 | 3.96  | 4.81 | 4.90 | 4.15 | 2.77 | .88  | .51 | .52 | 2.21 |
| 14   | .68 | 1.25 | 1.60 | 3.86  | 4.45 | 4.61 | 5.38 | 2.87 | .80  | .49 | .43 | 1.89 |
| 15   | .66 | 1.28 | 1.73 | 3.83  | 4.23 | 4.32 | 5.27 | 2.69 | .72  | .45 | .39 | 1.66 |
| 16   | .68 | 1.32 | 2.07 | 3.74  | 4.10 | 3.95 | 5.09 | 2.50 | .64  | .50 | .40 | 1.51 |
| 17   | .66 | 1.67 | ---  | 3.63  | 4.10 | 3.73 | 4.62 | 2.29 | .59  | .50 | .39 | 1.59 |
| 18   | .65 | ---  | ---  | 4.07  | 4.05 | 3.67 | 3.84 | 2.24 | .55  | .42 | .40 | 1.88 |
| 19   | .65 | ---  | ---  | 5.84  | 4.49 | 3.88 | 4.39 | 2.27 | .56  | .32 | .40 | 3.61 |
| 20   | .65 | ---  | ---  | 7.55  | 5.35 | 4.20 | 7.09 | 2.10 | .61  | .26 | .30 | 5.92 |
| 21   | .63 | ---  | ---  | 9.04  | 5.99 | 4.29 | 8.69 | 1.94 | .56  | .25 | .24 | 5.88 |
| 22   | .61 | ---  | 2.62 | 9.90  | 5.57 | 4.07 | 8.37 | 1.81 | .50  | .25 | .34 | 4.73 |
| 23   | .60 | ---  | ---  | 10.66 | 4.92 | 3.83 | 6.49 | 1.70 | .44  | .28 | .51 | 3.48 |
| 24   | .61 | ---  | ---  | 11.39 | 4.44 | 3.62 | 5.35 | 1.61 | .43  | .45 | .74 | 2.63 |
| 25   | .65 | 2.02 | ---  | 11.34 | 4.12 | 3.46 | 4.92 | 1.91 | .41  | .63 | .84 | 2.12 |
| 26   | .68 | 1.91 | ---  | 9.75  | 3.90 | 3.57 | 5.45 | 2.10 | .43  | .55 | .63 | 1.81 |
| 27   | .71 | 1.83 | ---  | 6.85  | 3.71 | 3.95 | 6.60 | 1.96 | .56  | .44 | .45 | 1.60 |
| 28   | .75 | 1.78 | ---  | 5.66  | 3.57 | 4.23 | 7.56 | 1.75 | .66  | .31 | .33 | 1.40 |
| 29   | .77 | 1.76 | ---  | 5.02  | 3.48 | 4.05 | 6.79 | 1.61 | .61  | .34 | .37 | 1.23 |
| 30   | .81 | 1.75 | 3.34 | 4.59  | ---  | 3.87 | 5.42 | 1.51 | .47  | .40 | .39 | 1.09 |
| 31   | .86 | ---  | 3.63 | 4.31  | ---  | 3.65 | ---  | 1.39 | ---  | .50 | .54 | ---  |
| MEAN | .75 | ---  | ---  | 5.71  | 5.40 | 4.07 | 4.75 | 2.42 | .77  | .47 | .47 | 2.61 |
| MAX  | .96 | ---  | ---  | 11.39 | 9.95 | 5.17 | 8.69 | 4.61 | 1.28 | .88 | .84 | 5.92 |
| MIN  | .60 | ---  | ---  | 3.57  | 3.48 | 3.22 | 2.72 | 1.39 | .41  | .25 | .24 | .79  |

## APALACHICOLA RIVER BASIN

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to July 1974, August 1976 to current year.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1100 | 661                                             | 54                                                | 51                                                       | 6.70                           | 7.00                                  | 17.0                                 | 24.0                               | 9.3                                 | 98                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1445 | 1130                                            | 52                                                | 47                                                       | 6.80                           | 7.10                                  | 14.0                                 | 20.0                               | 9.2                                 | 91                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1240 | 1040                                            | 55                                                | 54                                                       | 7.00                           | 7.10                                  | 13.0                                 | 23.0                               | 10.3                                | 99                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1245 | 2360                                            | 50                                                | 46                                                       | 7.00                           | 7.00                                  | 6.5                                  | 16.0                               | 11.7                                | 97                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 16... | 1250 | 2410                                            | 48                                                | 45                                                       | 6.80                           | 6.90                                  | 7.0                                  | 10.5                               | 10.9                                | 91                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1245 | 2550                                            | 53                                                | 47                                                       | 6.70                           | 6.70                                  | 13.5                                 | 8.5                                | 9.8                                 | 95                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1130 | 2230                                            | 54                                                | 52                                                       | 6.90                           | 7.00                                  | 16.0                                 | 18.0                               | 9.0                                 | 93                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1115 | 1380                                            | 53                                                | 55                                                       | 6.50                           | 7.00                                  | 23.5                                 | 30.5                               | 8.4                                 | 101                                                            |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1145 | 628                                             | 44                                                | 43                                                       | 6.60                           | 7.00                                  | 27.0                                 | 35.0                               | 7.7                                 | 98                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1025 | 547                                             | 42                                                | 39                                                       | 6.80                           | 6.80                                  | 29.0                                 | 32.0                               | 7.9                                 | 104                                                            |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 16... | 1055 | 574                                             | 47                                                | 44                                                       | 7.30                           | 7.00                                  | 27.5                                 | 31.0                               | 8.2                                 | 106                                                            |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1135 | 3800                                            | 53                                                | 57                                                       | 7.00                           | 6.80                                  | 24.5                                 | 30.0                               | 7.4                                 | 90                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>IDITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|----------------------------------------------|--------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 20... | 20                                           | 4.0                            | 2.2                                                            | 20                                               | 17                                                              | <1                                                               | 0.160                                                | <0.020                                               | 0.030                                       | 6.5                                           |
| NOV   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 17... | 90                                           | 5.0                            | 1.8                                                            | 330                                              | 15                                                              | 7                                                                | 0.200                                                | 0.090                                                | 0.040                                       | 4.4                                           |
| DEC   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 14... | 36                                           | 6.0                            | 0.7                                                            | 20                                               | 15                                                              | 15                                                               | 0.180                                                | 0.070                                                | <0.020                                      | 3.0                                           |
| JAN   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 18... | 60                                           | 11                             | 0.6                                                            | 20                                               | 11                                                              | 6                                                                | 0.320                                                | 0.160                                                | 0.070                                       | 3.8                                           |
| FEB   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 16... | 50                                           | 16                             | 0.9                                                            | 20                                               | 12                                                              | 17                                                               | 0.270                                                | 0.060                                                | 0.060                                       | 2.6                                           |
| MAR   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 15... | 50                                           | 17                             | 0.6                                                            | 40                                               | 16                                                              | 23                                                               | 0.210                                                | 0.030                                                | 0.080                                       | 3.8                                           |
| APR   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 18... | 80                                           | 21                             | 0.8                                                            | <20                                              | 15                                                              | 35                                                               | 0.230                                                | <0.020                                               | 0.080                                       | 5.3                                           |
| MAY   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 17... | 50                                           | 12                             | 0.2                                                            | 20                                               | 15                                                              | 9                                                                | 0.320                                                | 0.530                                                | 0.040                                       | 3.4                                           |
| JUN   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 21... | 35                                           | 7.0                            | 0.9                                                            | 70                                               | 12                                                              | <1                                                               | 0.270                                                | 0.080                                                | <0.020                                      | --                                            |
| JUL   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 19... | 30                                           | 7.0                            | 0.7                                                            | 20                                               | 10                                                              | 5                                                                | 0.230                                                | 0.030                                                | <0.020                                      | 2.5                                           |
| AUG   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 16... | 60                                           | 6.0                            | 0.5                                                            | 20                                               | 11                                                              | 4                                                                | 0.190                                                | 0.060                                                | <0.020                                      | 3.1                                           |
| SEP   |                                              |                                |                                                                |                                                  |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 20... | 60                                           | 70                             | 0.8                                                            | --                                               | 11                                                              | 98                                                               | 0.310                                                | 0.030                                                | 0.220                                       | 6.0                                           |



## APALACHICOLA RIVER BASIN

277

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 mi<sup>2</sup>, 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.--30 years, 45.7 ft<sup>3</sup>/s, 13.79 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,820 ft<sup>3</sup>/s, Apr. 1, 1981, gage height, 13.82 ft; minimum discharge, 0.1 ft<sup>3</sup>/s, July 28, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|
| Mar. 4 | 1800 | *63                               | *7.13               |

Minimum discharge, 2.0 ft<sup>3</sup>/s, Aug. 9-11, 19, 20.

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                 | 4.0     | 5.8   | 5.6   | 5.0       | 15      | 21      | 20        | 9.3      | 4.6   | 2.7  | 2.8   | 3.6   |
| 2                 | 3.9     | 5.9   | 5.5   | 8.3       | 15      | 20      | 20        | 8.0      | 4.4   | 2.7  | 2.9   | 3.7   |
| 3                 | 4.0     | 6.0   | 5.5   | 14        | 15      | 20      | 19        | 7.2      | 4.4   | 3.0  | 2.6   | 3.9   |
| 4                 | 4.2     | 6.2   | 5.5   | 12        | 20      | 52      | 19        | 6.9      | 4.4   | 3.2  | 2.4   | 4.9   |
| 5                 | 4.2     | 6.6   | 5.4   | 8.0       | 20      | 55      | 17        | 7.5      | 4.3   | 2.9  | 2.7   | 7.7   |
| 6                 | 4.1     | 6.3   | 5.5   | 6.9       | 17      | 38      | 15        | 6.5      | 4.4   | 2.6  | 4.7   | 4.5   |
| 7                 | 4.2     | 6.4   | 5.4   | 6.9       | 14      | 31      | 14        | 6.0      | 4.4   | 2.3  | 2.5   | 3.7   |
| 8                 | 4.1     | 6.5   | 5.5   | 7.9       | 13      | 28      | 13        | 5.6      | 4.2   | 2.4  | 2.2   | 3.5   |
| 9                 | 4.1     | 6.7   | 5.6   | 7.5       | 13      | 34      | 11        | 5.5      | 4.3   | 2.2  | 2.2   | 6.5   |
| 10                | 3.9     | 6.8   | 5.7   | 7.9       | 12      | 50      | 10        | 5.6      | 4.3   | 2.2  | 2.1   | 5.4   |
| 11                | 3.9     | 6.8   | 5.7   | 7.5       | 12      | 48      | 10        | 5.8      | 4.2   | 3.2  | 2.1   | 4.9   |
| 12                | 4.0     | 6.9   | 5.5   | 6.9       | 12      | 38      | 15        | 5.4      | 3.9   | 3.3  | 2.2   | 4.2   |
| 13                | 4.2     | 6.9   | 5.3   | 6.7       | 11      | 34      | 15        | 5.4      | 3.8   | 3.6  | 2.2   | 3.7   |
| 14                | 4.3     | 6.6   | 5.6   | 6.5       | 11      | 31      | 13        | 5.5      | 3.7   | 3.2  | 2.6   | 3.5   |
| 15                | 4.4     | 6.5   | 6.9   | 6.3       | 12      | 27      | 11        | 5.3      | 3.8   | 2.7  | 4.0   | 3.5   |
| 16                | 4.5     | 6.5   | 6.5   | 6.3       | 14      | 25      | 9.3       | 5.1      | 3.8   | 2.7  | 2.7   | 3.6   |
| 17                | 4.4     | 22    | 5.4   | 8.1       | 13      | 24      | 8.2       | 5.1      | 3.7   | 2.4  | 3.4   | 4.9   |
| 18                | 4.4     | 14    | 5.2   | 13        | 13      | 26      | 8.6       | 4.9      | 3.6   | 2.3  | 2.5   | 5.7   |
| 19                | 4.4     | 7.9   | 5.2   | 32        | 44      | 34      | 32        | 4.6      | 3.5   | 2.2  | 2.2   | 4.4   |
| 20                | 4.7     | 6.6   | 5.3   | 38        | 51      | 30      | 30        | 4.4      | 3.3   | 2.2  | 2.2   | 4.0   |
| 21                | 4.9     | 6.3   | 5.7   | 33        | 54      | 27      | 22        | 4.3      | 3.2   | 2.2  | 3.6   | 3.8   |
| 22                | 5.1     | 6.1   | 8.9   | 26        | 42      | 26      | 16        | 4.3      | 3.1   | 2.2  | 8.3   | 3.6   |
| 23                | 5.2     | 6.0   | 6.8   | 22        | 34      | 26      | 14        | 4.2      | 2.9   | 2.8  | 6.7   | 3.4   |
| 24                | 5.3     | 6.0   | 5.7   | 20        | 30      | 24      | 15        | 4.4      | 2.6   | 2.7  | 8.7   | 3.4   |
| 25                | 5.1     | 5.9   | 5.5   | 23        | 27      | 23      | 13        | 4.9      | 2.6   | 2.6  | 4.2   | 3.4   |
| 26                | 5.0     | 6.0   | 5.3   | 23        | 25      | 28      | 18        | 4.8      | 3.1   | 2.4  | 3.3   | 3.4   |
| 27                | 5.4     | 6.2   | 5.3   | 20        | 23      | 30      | 25        | 4.5      | 3.5   | 2.4  | 3.1   | 3.5   |
| 28                | 5.6     | 6.1   | 5.4   | 17        | 24      | 26      | 19        | 4.3      | 3.1   | 2.3  | 3.1   | 3.4   |
| 29                | 5.6     | 5.9   | 5.4   | 16        | 23      | 23      | 13        | 4.5      | 2.9   | 2.5  | 3.2   | 3.3   |
| 30                | 5.7     | 5.7   | 5.1   | 16        | ---     | 21      | 10        | 4.5      | 2.7   | 2.5  | 3.2   | 3.4   |
| 31                | 5.7     | ---   | 5.0   | 16        | ---     | 20      | ---       | 4.5      | ---   | 2.6  | 3.5   | ---   |
| TOTAL             | 142.5   | 214.1 | 175.9 | 447.7     | 629     | 940     | 475.1     | 168.8    | 110.7 | 81.2 | 104.1 | 124.4 |
| MEAN              | 4.60    | 7.14  | 5.67  | 14.4      | 21.7    | 30.3    | 15.8      | 5.45     | 3.69  | 2.62 | 3.36  | 4.15  |
| MAX               | 5.7     | 22    | 8.9   | 38        | 54      | 55      | 32        | 9.3      | 4.6   | 3.6  | 8.7   | 7.7   |
| MIN               | 3.9     | 5.7   | 5.0   | 5.0       | 11      | 20      | 8.2       | 4.2      | 2.6   | 2.2  | 2.1   | 3.3   |
| CFSM              | .10     | .16   | .13   | .32       | .48     | .67     | .35       | .12      | .08   | .06  | .08   | .09   |
| IN.               | .12     | .18   | .15   | .37       | .52     | .78     | .39       | .14      | .09   | .07  | .09   | .10   |
| CAL YR 1987 TOTAL | 16748.0 |       |       | MEAN 45.9 | MAX 648 | MIN 3.1 | CFSM 1.02 | IN 13.84 |       |      |       |       |
| WTR YR 1988 TOTAL | 3613.5  |       |       | MEAN 9.87 | MAX 55  | MIN 2.1 | CFSM .22  | IN 2.99  |       |      |       |       |



## APALACHICOLA RIVER BASIN

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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1030 | 73                                                | 70                                                       | 6.50                           | 7.00                                  | 17.0                                 | 21.0                               | 8.2                                 | 86                                                             |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1520 | 97                                                | 92                                                       | 7.00                           | 7.10                                  | 13.0                                 | 19.0                               | 9.4                                 | 91                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 14... | 1200 | 99                                                | 99                                                       | 7.00                           | 7.30                                  | 12.0                                 | 20.0                               | 9.7                                 | 91                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1130 | 112                                               | 153                                                      | 7.20                           | 7.20                                  | 7.0                                  | 15.0                               | 10.5                                | 88                                                             |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 16... | 1140 | 84                                                | 82                                                       | 6.70                           | 7.00                                  | 7.0                                  | 7.0                                | 10.2                                | 85                                                             |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1140 | 84                                                | 75                                                       | 7.00                           | 7.00                                  | 13.0                                 | 7.5                                | 8.3                                 | 80                                                             |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1005 | 77                                                | 75                                                       | 6.70                           | 7.10                                  | 16.5                                 | 19.0                               | 8.0                                 | 84                                                             |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 0950 | 85                                                | 85                                                       | 6.60                           | 7.10                                  | 24.0                                 | 29.0                               | 7.4                                 | 90                                                             |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1050 | 82                                                | 76                                                       | --                             | 7.40                                  | 27.0                                 | 33.0                               | 6.5                                 | 83                                                             |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 0935 | 72                                                | 67                                                       | 6.60                           | 6.90                                  | 30.0                                 | 31.0                               | 7.0                                 | 94                                                             |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 16... | 1000 | 70                                                | 66                                                       | 6.70                           | 7.00                                  | 27.5                                 | 28.0                               | 6.7                                 | 86                                                             |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1030 | 96                                                | 95                                                       | 7.20                           | 7.00                                  | 25.0                                 | 30.5                               | 7.5                                 | 92                                                             |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 20... | 35                                           | 5.0                          | 1.1                                                            | 50                                               | 18                                                              | 0.240                                                | <0.020                                               | 0.030                                       | 3.8                                           |
| NOV   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 17... | 60                                           | 5.0                          | 0.8                                                            | 50                                               | 19                                                              | 0.180                                                | 0.090                                                | 0.030                                       | 4.6                                           |
| DEC   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 14... | 50                                           | 7.0                          | 0.5                                                            | 20                                               | 19                                                              | 0.260                                                | 0.130                                                | 0.040                                       | 5.1                                           |
| JAN   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 18... | 65                                           | 15                           | 0.8                                                            | 790                                              | 19                                                              | 0.450                                                | 0.140                                                | 0.090                                       | 4.7                                           |
| FEB   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 16... | 75                                           | 16                           | 0.9                                                            | 130                                              | 15                                                              | 0.330                                                | 0.110                                                | 0.060                                       | 4.6                                           |
| MAR   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 15... | 60                                           | 15                           | 0.7                                                            | 220                                              | 18                                                              | 0.270                                                | 0.140                                                | 0.090                                       | 5.0                                           |
| APR   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 18... | 60                                           | 16                           | 0.8                                                            | 50                                               | 19                                                              | 0.270                                                | 0.040                                                | 0.070                                       | 5.0                                           |
| MAY   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 17... | 75                                           | 13                           | 0.6                                                            | 130                                              | 20                                                              | 0.340                                                | 0.070                                                | 0.050                                       | 4.2                                           |
| JUN   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 21... | 50                                           | 10                           | 0.8                                                            | <20                                              | 33                                                              | 0.270                                                | 0.090                                                | 0.040                                       | --                                            |
| JUL   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 19... | 40                                           | 10                           | 0.5                                                            | 130                                              | 14                                                              | 0.310                                                | 0.050                                                | 0.040                                       | 3.6                                           |
| AUG   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 16... | 50                                           | 11                           | 1.1                                                            | 20                                               | 14                                                              | 0.250                                                | 0.090                                                | 0.040                                       | 5.0                                           |
| SEP   |                                              |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 20... | 60                                           | 16                           | 0.5                                                            | --                                               | 12                                                              | 0.350                                                | <0.030                                               | 0.120                                       | --                                            |

## 02350512 FLINT RIVER AT STATE HIGHWAY 32 NEAR OAKFIELD, GA.

LOCATION.--Lat 31°43'30", long 84°01'07", Worth-Lee County line. Hydrologic Unit 03130006, on downstream end of pier of bridge on State Highway 32, 5 mi southwest of Oakfield, 3.2 mi downstream from Jones Creek, 13.9 mi downstream from Crisp County damsite, and at river mile 120.8.

DRAINAGE AREA.--3,880 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1929 to December 1958, May 1987 to current year. Monthly discharge only, October 1929 to January 1930 and June 1933 to October 1934 (published in WSP 1304). Prior to May 1987, published as "at Oakfield" (station 02350500).

GAGE.--Water-stage recorder. Elevation of gage is 190 ft above National Geodetic Vertical Datum of 1929 (from topographic map). January 9, 1930 to June 23, 1933 and October 1, 1934 to December 31, 1958, recording gage at site 4.2 mi upstream at datum 193.29 ft above National Geodetic Vertical Datum of 1929, supplementary adjustment of 1936.

REMARKS.--Estimated daily discharges: June 22-27, 1988. Records good, except those of questionable gage-height record, June 22-27, which are fair. Flow regulated by powerplant at Warwick Reservoir since 1930, capacity about 35,000 acre-ft. Normal operation of powerplant does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--30 years (water years 1930-58, 1988), 4,335 ft<sup>3</sup>/s, 15.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,500 ft<sup>3</sup>/s, Dec. 3, 1948, gage height, 30.1 ft; minimum daily discharge, 152 ft<sup>3</sup>/s, June 8, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1898, 35.1 ft, Jan. 20, 1925, from floodmarks, 90,000 ft<sup>3</sup>/s. Flood in March 1929 reached a stage of 34.0 ft, from floodmarks, 85,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT PERIOD--May to September 1987: Maximum discharge, 7,840 ft<sup>3</sup>/s, June 28, gage height, 8.39 ft; minimum daily discharge, 693 ft<sup>3</sup>/s, Sept. 18.

Water year 1988: Maximum discharge 12,100 ft<sup>3</sup>/s, Jan. 25, gage height, 11.07 ft; minimum daily discharge, 588 ft<sup>3</sup>/s, 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     |     |     |     |     |     |     |     | 2100  | 3150   | 5760  | 944   | 762   |
| 2     |     |     |     |     |     |     |     | 1730  | 2860   | 6020  | 1580  | 901   |
| 3     |     |     |     |     |     |     |     | 1180  | 2410   | 4360  | 1430  | 1050  |
| 4     |     |     |     |     |     |     |     | 3220  | 1260   | 3490  | 1320  | 998   |
| 5     |     |     |     |     |     |     |     | 2700  | 921    | 3130  | 1810  | 1230  |
| 6     |     |     |     |     |     |     |     | 2580  | 865    | 4590  | 1790  | 1080  |
| 7     |     |     |     |     |     |     |     | 3160  | 862    | 6150  | 1050  | 1320  |
| 8     |     |     |     |     |     |     |     | 2980  | 864    | 7100  | 1910  | 1710  |
| 9     |     |     |     |     |     |     |     | 2330  | 841    | 5970  | 2090  | 1580  |
| 10    |     |     |     |     |     |     |     | 1900  | 1030   | 5270  | 3120  | 1010  |
| 11    |     |     |     |     |     |     |     | 3830  | 1210   | 5230  | 2440  | 854   |
| 12    |     |     |     |     |     |     |     | 2810  | 860    | 3980  | 1100  | 730   |
| 13    |     |     |     |     |     |     |     | 3070  | 917    | 3390  | 1390  | 963   |
| 14    |     |     |     |     |     |     |     | 3260  | 925    | 2670  | 3580  | 2680  |
| 15    |     |     |     |     |     |     |     | 2730  | 939    | 1260  | 938   | 3070  |
| 16    |     |     |     |     |     |     |     | 3750  | 2350   | 1610  | 2450  | 2360  |
| 17    |     |     |     |     |     |     |     | 3740  | 3470   | 2540  | 2110  | 1590  |
| 18    |     |     |     |     |     |     |     | 4040  | 4860   | 1280  | 1540  | 693   |
| 19    |     |     |     |     |     |     |     | 4180  | 4960   | 1320  | 1220  | 1490  |
| 20    |     |     |     |     |     |     |     | 4250  | 3990   | 1740  | 1540  | 1080  |
| 21    |     |     |     |     |     |     |     | 1970  | 3160   | 2000  | 961   | 913   |
| 22    |     |     |     |     |     |     |     | 5320  | 5560   | 2200  | 778   | 1190  |
| 23    |     |     |     |     |     |     |     | 4910  | 6570   | 2440  | 759   | 1180  |
| 24    |     |     |     |     |     |     |     | 4740  | 6560   | 2030  | 1520  | 734   |
| 25    |     |     |     |     |     |     |     | 3320  | 6280   | 1120  | 1290  | 702   |
| 26    |     |     |     |     |     |     |     | 2720  | 3690   | 1040  | 1200  | 1050  |
| 27    |     |     |     |     |     |     |     | 2870  | 7290   | 1370  | 1180  | 754   |
| 28    |     |     |     |     |     |     |     | 2590  | 7770   | 1780  | 1310  | 1190  |
| 29    |     |     |     |     |     |     |     | 2740  | 7770   | 1550  | 942   | 1050  |
| 30    |     |     |     |     |     |     |     | 1970  | 7120   | 1240  | 823   | 1340  |
| 31    |     |     |     |     |     |     |     | 2220  | ---    | 1070  | 954   | ---   |
| TOTAL |     |     |     |     |     |     |     | 94910 | 101314 | 94700 | 47069 | 37254 |
| MEAN  |     |     |     |     |     |     |     | 3062  | 3377   | 3055  | 1518  | 1242  |
| MAX   |     |     |     |     |     |     |     | 5320  | 7770   | 7100  | 3580  | 3070  |
| MIN   |     |     |     |     |     |     |     | 1180  | 841    | 1040  | 759   | 693   |
| CFSM  |     |     |     |     |     |     |     | .79   | .87    | .79   | .39   | .32   |
| IN.   |     |     |     |     |     |     |     | .91   | .97    | .91   | .45   | .36   |

## APALACHICOLA RIVER BASIN

02350512 FLINT RIVER AT STATE HIGHWAY 32 NEAR OAKFIELD, GA.--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     | 1210  | 741   | 1950  | 1860   | 3110   | 3030   | 3320   | 4110  | 2230  | 886   | 638   | 643   |
| 2     | 754   | 738   | 2140  | 4540   | 3790   | 3290   | 3320   | 3830  | 3010  | 888   | 756   | 681   |
| 3     | 744   | 739   | 1950  | 5520   | 3220   | 3360   | 2580   | 2870  | 1600  | 823   | 642   | 782   |
| 4     | 749   | 745   | 1670  | 5480   | 3580   | 6140   | 3290   | 2890  | 901   | 923   | 603   | 832   |
| 5     | 753   | 741   | 1660  | 5000   | 6300   | 5160   | 3260   | 3160  | 910   | 923   | 602   | 866   |
| 6     | 751   | 738   | 1520  | 3370   | 5910   | 4490   | 2720   | 3150  | 915   | 931   | 588   | 1240  |
| 7     | 893   | 745   | 1670  | 5330   | 6790   | 5080   | 2950   | 1640  | 920   | 911   | 635   | 3540  |
| 8     | 909   | 744   | 1630  | 5070   | 7070   | 4610   | 2740   | 1680  | 1000  | 876   | 784   | 2390  |
| 9     | 1040  | 741   | 1850  | 3590   | 5840   | 6060   | 2730   | 2330  | 969   | 894   | 757   | 3530  |
| 10    | 836   | 753   | 1670  | 2270   | 7430   | 5310   | 2720   | 2760  | 952   | 869   | 653   | 3670  |
| 11    | 745   | 881   | 1460  | 2270   | 7740   | 6920   | 2450   | 2480  | 943   | 801   | 673   | 3380  |
| 12    | 849   | 777   | 1510  | 2010   | 7530   | 6370   | 3580   | 1810  | 897   | 777   | 674   | 4060  |
| 13    | 991   | 775   | 1510  | 2450   | 5450   | 6240   | 2870   | 2120  | 801   | 717   | 675   | 2790  |
| 14    | 1040  | 884   | 1450  | 3590   | 3130   | 3920   | 3220   | 2200  | 794   | 1010  | 676   | 2180  |
| 15    | 1240  | 988   | 1520  | 3660   | 3900   | 5810   | 4350   | 1660  | 795   | 1480  | 683   | 2080  |
| 16    | 1370  | 1120  | 1540  | 3190   | 4540   | 4430   | 4530   | 3260  | 1020  | 924   | 683   | 1520  |
| 17    | 899   | 2120  | 953   | 2680   | 2300   | 2940   | 4530   | 2320  | 1210  | 680   | 676   | 1340  |
| 18    | 750   | 2450  | 1210  | 4760   | 4960   | 3610   | 2890   | 1300  | 944   | 626   | 683   | 1370  |
| 19    | 769   | 2020  | 1130  | 6220   | 5200   | 4360   | 6030   | 2300  | 873   | 631   | 681   | 1870  |
| 20    | 770   | 3720  | 1070  | 6330   | 6070   | 3000   | 5280   | 1710  | 1270  | 621   | 676   | 2890  |
| 21    | 1020  | 1870  | 1500  | 6450   | 7090   | 3900   | 7310   | 2180  | 1450  | 619   | 667   | 4540  |
| 22    | 983   | 2340  | 3070  | 7510   | 5820   | 4150   | 6380   | 1970  | 1800  | 623   | 668   | 4420  |
| 23    | 823   | 2500  | 3080  | 7720   | 6420   | 3320   | 7980   | 2030  | 1300  | 623   | 717   | 3360  |
| 24    | 774   | 2230  | 2470  | 7850   | 5020   | 4240   | 6490   | 2360  | 1000  | 620   | 763   | 3360  |
| 25    | 768   | 1890  | 2560  | 9720   | 5490   | 3260   | 5300   | 1050  | 850   | 621   | 760   | 2910  |
| 26    | 775   | 1700  | 2560  | 11100  | 3220   | 4190   | 5990   | 851   | 800   | 620   | 758   | 2880  |
| 27    | 773   | 1540  | 2560  | 9020   | 3300   | 3480   | 6150   | 1060  | 750   | 619   | 758   | 2520  |
| 28    | 1180  | 1220  | 2580  | 6990   | 3400   | 4030   | 6610   | 1630  | 764   | 598   | 757   | 1140  |
| 29    | 1130  | 1250  | 2990  | 4260   | 3630   | 4110   | 6860   | 1540  | 805   | 610   | 690   | 1310  |
| 30    | 741   | 1940  | 2940  | 3580   | ---    | 3630   | 5790   | 1910  | 867   | 618   | 590   | 1660  |
| 31    | 740   | ---   | 1540  | 4320   | ---    | 3560   | ---    | 1910  | ---   | 617   | 601   | ---   |
| TOTAL | 27769 | 41640 | 58913 | 157710 | 147250 | 136000 | 134220 | 68071 | 33340 | 23979 | 21167 | 69754 |
| MEAN  | 896   | 1388  | 1900  | 5087   | 5078   | 4387   | 4474   | 2196  | 1111  | 774   | 683   | 2325  |
| MAX   | 1370  | 3720  | 3080  | 11100  | 7740   | 6920   | 7980   | 4110  | 3010  | 1480  | 784   | 4540  |
| MIN   | 740   | 738   | 953   | 1860   | 2300   | 2940   | 2450   | 851   | 750   | 598   | 588   | 643   |
| CFSM  | .23   | .36   | .49   | 1.31   | 1.31   | 1.13   | 1.15   | .57   | .29   | .20   | .18   | .60   |
| IN.   | .27   | .40   | .56   | 1.51   | 1.41   | 1.30   | 1.29   | .65   | .32   | .23   | .20   | .67   |

WTR YR 1988 TOTAL 919813 MEAN 2513 MAX 11100 MIN 588 CFSM .65 IN 8.82

## 02350600 KINCHAFONNEE 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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|
| JUN<br>02... | 1130 | 31                                              | 37                                                | 37                                                       | 7.05                           | 7.10                                  | 20.5                                 | 7.4                                 | 83                                                             |
| AUG<br>29... | 1130 | 16                                              | 36                                                | 35                                                       | 6.91                           | 7.60                                  | 24.0                                 | 7.4                                 | 88                                                             |

| DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|
| JUN<br>02... | 130                                          | 18                           | 13                                              | 3                                                                 | 3.9                                          | 0.74                                                 | 1.6                                          | 20                | 0.2                                     | 0.60                                                | 10                                                          |
| AUG<br>29... | 85                                           | 12                           | 11                                              | 2                                                                 | 3.4                                          | 0.68                                                 | 1.8                                          | 25                | 0.2                                     | 0.60                                                | 9.0                                                         |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>AC-FT) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
| JUN<br>02... | --                                            | 3.2                                                 | 0.20                                               | 6.9                                               | 34                                                                 | --                                                                  | --                                                | --                                           | 0.300                                                | 0.220                                                         | 0.060                                                | 0.090                                                         |
| AUG<br>29... | 3.7                                           | 3.0                                                 | 0.10                                               | 8.2                                               | 27                                                                 | 23                                                                  | 1.17                                              | 0.04                                         | 0.200                                                | 0.260                                                         | 0.030                                                | 0.040                                                         |

| DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) |
|--------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|-------------------------------------|----------------------------------------------|
| JUN<br>02... | 0.44                                                 | 0.41                                                          | 0.50                                                               | 0.50                                                              | 0.80                                      | 0.72                                               | 0.030                                       | 0.020                                                | 5.3                                           | 20                                                  | <1                                  | <1                                           |
| AUG<br>29... | 0.67                                                 | 0.16                                                          | 0.70                                                               | 0.20                                                              | 0.90                                      | 0.46                                               | 0.030                                       | <0.010                                               | 4.2                                           | 20                                                  | 1                                   | <1                                           |

| DATE         | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------|
| JUN<br>02... | <1                                           | <1                                                  | 3                                            | 840                                        | <5                                                    | <5                                         | 170                                                  | --                                                      | --                                           | <1                                                  | 5                                          |
| AUG<br>29... | 1                                            | 3                                                   | 1                                            | 580                                        | <5                                                    | <5                                         | 140                                                  | 0.10                                                    | --                                           | <1                                                  | 14                                         |

## APALACHICOLA RIVER BASIN

02350900 KINCHAFOONEE CREEK NEAR DAWSON, GA.

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 mi<sup>2</sup>, 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 ft<sup>3</sup>/s, Apr. 6, 1960, gage height, 19.45 ft, minimum daily discharge, 39 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Feb. 21 | 0600 | *1,280                            | *8.62               |

Minimum discharge, 52 ft<sup>3</sup>/s, Aug. 9-11, gage height, 2.39.

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     | 116  | 135  | 234  | 265   | 409   | 408   | 410   | 364  | 113  | 70   | 66   | 75   |
| 2     | 115  | 133  | 227  | 283   | 399   | 394   | 390   | 316  | 102  | 79   | 103  | 106  |
| 3     | 113  | 134  | 219  | 473   | 392   | 390   | 383   | 285  | 90   | 84   | 114  | 119  |
| 4     | 108  | 134  | 213  | 689   | 403   | 626   | 393   | 260  | 85   | 114  | 124  | 133  |
| 5     | 103  | 136  | 209  | 722   | 436   | 1010  | 387   | 268  | 82   | 200  | 100  | 298  |
| 6     | 102  | 140  | 207  | 628   | 464   | 1120  | 363   | 264  | 82   | 193  | 78   | 431  |
| 7     | 99   | 140  | 206  | 497   | 501   | 1120  | 342   | 247  | 112  | 163  | 63   | 447  |
| 8     | 100  | 140  | 206  | 416   | 507   | 1010  | 316   | 223  | 174  | 135  | 57   | 328  |
| 9     | 96   | 144  | 207  | 420   | 416   | 891   | 296   | 205  | 198  | 111  | 53   | 259  |
| 10    | 96   | 145  | 211  | 450   | 372   | 1040  | 280   | 201  | 183  | 93   | 53   | 289  |
| 11    | 101  | 147  | 216  | 461   | 355   | 976   | 276   | 213  | 166  | 87   | 60   | 323  |
| 12    | 103  | 153  | 218  | 427   | 345   | 900   | 384   | 218  | 145  | 85   | 64   | 362  |
| 13    | 103  | 160  | 216  | 387   | 337   | 845   | 446   | 220  | 131  | 91   | 60   | 342  |
| 14    | 103  | 162  | 213  | 356   | 328   | 761   | 423   | 208  | 119  | 118  | 58   | 288  |
| 15    | 104  | 156  | 212  | 330   | 328   | 622   | 373   | 192  | 106  | 131  | 56   | 232  |
| 16    | 106  | 153  | 239  | 312   | 358   | 535   | 323   | 180  | 93   | 120  | 60   | 197  |
| 17    | 109  | 178  | 326  | 305   | 386   | 478   | 287   | 171  | 84   | 122  | 69   | 182  |
| 18    | 110  | 337  | 355  | 419   | 391   | 458   | 267   | 171  | 79   | 134  | 87   | 169  |
| 19    | 109  | 473  | 328  | 799   | 630   | 510   | 465   | 156  | 75   | 119  | 78   | 162  |
| 20    | 105  | 534  | 277  | 1080  | 1060  | 544   | 664   | 144  | 70   | 102  | 68   | 159  |
| 21    | 105  | 499  | 258  | 1100  | 1270  | 540   | 662   | 136  | 65   | 92   | 60   | 153  |
| 22    | 103  | 377  | 291  | 1070  | 1200  | 505   | 627   | 130  | 65   | 81   | 56   | 145  |
| 23    | 104  | 281  | 376  | 1130  | 1080  | 451   | 627   | 126  | 63   | 78   | 61   | 142  |
| 24    | 107  | 248  | 431  | 1170  | 842   | 419   | 466   | 121  | 59   | 88   | 64   | 140  |
| 25    | 113  | 233  | 416  | 996   | 601   | 405   | 444   | 125  | 62   | 97   | 67   | 130  |
| 26    | 114  | 230  | 355  | 691   | 516   | 461   | 835   | 138  | 56   | 89   | 73   | 124  |
| 27    | 120  | 231  | 306  | 614   | 472   | 629   | 1110  | 184  | 57   | 78   | 72   | 117  |
| 28    | 125  | 241  | 293  | 564   | 445   | 721   | 878   | 189  | 62   | 71   | 66   | 116  |
| 29    | 131  | 242  | 318  | 500   | 425   | 665   | 612   | 155  | 66   | 68   | 62   | 112  |
| 30    | 134  | 238  | 312  | 444   | ---   | 535   | 464   | 135  | 69   | 61   | 62   | 107  |
| 31    | 134  | ---  | 285  | 422   | ---   | 448   | ---   | 123  | ---  | 61   | 63   | ---  |
| TOTAL | 3391 | 6654 | 8380 | 18420 | 15668 | 20417 | 14193 | 6068 | 2913 | 3215 | 2177 | 6187 |
| MEAN  | 109  | 222  | 270  | 594   | 540   | 659   | 473   | 196  | 97.1 | 104  | 70.2 | 206  |
| MAX   | 134  | 534  | 431  | 1170  | 1270  | 1120  | 1110  | 364  | 198  | 200  | 124  | 447  |
| MIN   | 96   | 133  | 206  | 265   | 328   | 390   | 267   | 121  | 56   | 61   | 53   | 75   |
| CFSM  | .21  | .42  | .51  | 1.13  | 1.03  | 1.25  | .90   | .37  | .18  | .20  | .13  | .39  |
| IN.   | .24  | .47  | .59  | 1.30  | 1.11  | 1.44  | 1.00  | .43  | .21  | .23  | .15  | .44  |

|             |       |        |          |          |        |          |          |
|-------------|-------|--------|----------|----------|--------|----------|----------|
| CAL YR 1987 | TOTAL | 185370 | MEAN 508 | MAX 2520 | MIN 96 | CFSM .96 | IN 13.08 |
| WTR YR 1988 | TOTAL | 107683 | MEAN 294 | MAX 1270 | MIN 53 | CFSM .56 | IN 7.60  |

## APALACHICOLA RIVER BASIN

283

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 mi<sup>2</sup>.

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.--No estimated daily discharges. Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

AVERAGE DISCHARGE.--8 years (water years 1981-88), 342 ft<sup>3</sup>/s, 12.83 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,290 ft<sup>3</sup>/s, Feb. 7, 1985, gage height, 13.91 ft; minimum discharge, 12 ft<sup>3</sup>/s, July 20, 1986.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Apr. 27 | 0200 | *1,040                            | *9.77               |

Minimum discharge, 34 ft<sup>3</sup>/s, June 24, gage height, 2.49 ft.

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           | 76    | 103    | 165  | 196   | 283   | 325   | 307   | 306  | 61   | 61   | 37   | 76    |
| 2           | 81    | 104    | 162  | 215   | 272   | 294   | 284   | 248  | 56   | 55   | 46   | 77    |
| 3           | 86    | 105    | 157  | 295   | 265   | 290   | 272   | 221  | 51   | 59   | 87   | 78    |
| 4           | 82    | 107    | 152  | 395   | 266   | 402   | 271   | 194  | 49   | 92   | 111  | 89    |
| 5           | 79    | 109    | 146  | 449   | 279   | 524   | 274   | 203  | 48   | 103  | 94   | 145   |
| 6           | 77    | 112    | 144  | 498   | 288   | 625   | 259   | 196  | 50   | 133  | 71   | 186   |
| 7           | 76    | 113    | 144  | 497   | 292   | 703   | 247   | 181  | 151  | 140  | 76   | 209   |
| 8           | 77    | 114    | 144  | 446   | 304   | 692   | 225   | 164  | 141  | 117  | 57   | 224   |
| 9           | 77    | 107    | 145  | 365   | 282   | 701   | 208   | 150  | 117  | 98   | 47   | 233   |
| 10          | 78    | 100    | 149  | 318   | 254   | 825   | 196   | 144  | 112  | 74   | 40   | 210   |
| 11          | 77    | 100    | 156  | 307   | 242   | 850   | 190   | 151  | 120  | 61   | 40   | 249   |
| 12          | 78    | 104    | 157  | 301   | 237   | 746   | 226   | 154  | 119  | 65   | 47   | 252   |
| 13          | 79    | 114    | 154  | 288   | 231   | 677   | 288   | 148  | 98   | 83   | 42   | 256   |
| 14          | 81    | 122    | 154  | 266   | 225   | 592   | 352   | 144  | 80   | 92   | 40   | 227   |
| 15          | 82    | 125    | 153  | 243   | 228   | 508   | 338   | 134  | 68   | 86   | 46   | 186   |
| 16          | 82    | 125    | 156  | 223   | 240   | 439   | 272   | 123  | 56   | 97   | 49   | 146   |
| 17          | 82    | 149    | 170  | 220   | 241   | 383   | 223   | 116  | 50   | 77   | 51   | 133   |
| 18          | 85    | 203    | 193  | 280   | 253   | 353   | 201   | 112  | 46   | 67   | 56   | 122   |
| 19          | 86    | 241    | 205  | 422   | 390   | 371   | 350   | 101  | 46   | 58   | 57   | 119   |
| 20          | 85    | 292    | 196  | 549   | 593   | 390   | 451   | 90   | 46   | 51   | 55   | 117   |
| 21          | 84    | 348    | 190  | 713   | 864   | 401   | 461   | 84   | 39   | 48   | 48   | 115   |
| 22          | 83    | 354    | 216  | 734   | 933   | 395   | 480   | 79   | 40   | 52   | 44   | 115   |
| 23          | 83    | 308    | 236  | 702   | 851   | 362   | 468   | 77   | 43   | 47   | 44   | 116   |
| 24          | 82    | 212    | 253  | 664   | 729   | 323   | 368   | 76   | 37   | 54   | 57   | 110   |
| 25          | 83    | 173    | 263  | 634   | 583   | 312   | 313   | 78   | 37   | 60   | 59   | 98    |
| 26          | 84    | 163    | 253  | 548   | 442   | 344   | 610   | 82   | 39   | 59   | 58   | 90    |
| 27          | 89    | 164    | 226  | 436   | 374   | 397   | 941   | 92   | 41   | 51   | 58   | 82    |
| 28          | 94    | 162    | 214  | 401   | 341   | 458   | 783   | 107  | 40   | 44   | 54   | 78    |
| 29          | 96    | 168    | 224  | 380   | 327   | 496   | 583   | 92   | 37   | 39   | 45   | 74    |
| 30          | 101   | 170    | 220  | 352   | ---   | 454   | 412   | 74   | 41   | 38   | 42   | 70    |
| 31          | 103   | ---    | 208  | 309   | ---   | 367   | ---   | 69   | ---  | 37   | 56   | ---   |
| TOTAL       | 2588  | 4871   | 5705 | 12646 | 11109 | 14999 | 10853 | 4190 | 1959 | 2198 | 1714 | 4282  |
| MEAN        | 83.5  | 162    | 184  | 408   | 383   | 484   | 362   | 135  | 65.3 | 70.9 | 55.3 | 143   |
| MAX         | 103   | 354    | 263  | 734   | 933   | 850   | 941   | 306  | 151  | 140  | 111  | 256   |
| MIN         | 76    | 100    | 144  | 196   | 225   | 290   | 190   | 69   | 37   | 37   | 37   | 70    |
| CFSM        | .23   | .45    | .51  | 1.13  | 1.06  | 1.34  | 1.00  | .37  | .18  | .20  | .15  | .40   |
| IN.         | .27   | .50    | .59  | 1.30  | 1.14  | 1.54  | 1.12  | .43  | .20  | .23  | .18  | .44   |
| CAL YR 1987 | TOTAL | 128406 | MEAN | 352   | MAX   | 2460  | MIN   | 64   | CFSM | .97  | IN   | 13.20 |
| WTR YR 1988 | TOTAL | 77114  | MEAN | 211   | MAX   | 941   | MIN   | 37   | CFSM | .58  | IN   | 7.92  |



## 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 mi<sup>2</sup>, 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.--78 years (water years 1902-20, 1930-88), 6,202 ft<sup>3</sup>/s, 15.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,000 ft<sup>3</sup>/s, Mar. 7, 1966, gage height, 34.72 ft; minimum daily, 327 ft<sup>3</sup>/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 ft<sup>3</sup>/s, from rating curve extended above 75,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Jan. 26 | 1430 | *14,800                           | *11.25              |

Minimum daily discharge, 606 ft<sup>3</sup>/s, July 25.

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     | 2270  | 1100  | 2510  | 1110   | 4590   | 3870   | 4440   | 5900  | 2350  | 1050  | 993   | 838   |
| 2     | 1310  | 944   | 2880  | 4610   | 4420   | 4090   | 4230   | 3560  | 2650  | 1180  | 1090  | 939   |
| 3     | 883   | 880   | 2150  | 7030   | 3970   | 4140   | 4040   | 4320  | 2850  | 1240  | 1050  | 992   |
| 4     | 890   | 1280  | 2260  | 6610   | 4010   | 7930   | 3610   | 3580  | 1240  | 1260  | 911   | 1380  |
| 5     | 896   | 1070  | 1800  | 6410   | 6430   | 8490   | 4520   | 3920  | 1130  | 1210  | 1000  | 1410  |
| 6     | 903   | 877   | 1790  | 3610   | 7010   | 7300   | 3210   | 3410  | 1250  | 1380  | 974   | 1660  |
| 7     | 901   | 884   | 2360  | 8120   | 7660   | 8870   | 4060   | 3000  | 1330  | 1330  | 693   | 3750  |
| 8     | 1400  | 1090  | 2020  | 5420   | 8770   | 6550   | 3550   | 1460  | 1380  | 1270  | 636   | 3150  |
| 9     | 1270  | 1580  | 1840  | 3930   | 6750   | 10100  | 3580   | 3000  | 1320  | 1240  | 1020  | 4300  |
| 10    | 1270  | 929   | 2260  | 3430   | 8400   | 7440   | 3570   | 3240  | 1480  | 1190  | 866   | 4480  |
| 11    | 1140  | 1200  | 1890  | 2790   | 8720   | 11400  | 3000   | 3070  | 1500  | 1160  | 987   | 3490  |
| 12    | 967   | 1060  | 1750  | 3030   | 8710   | 9780   | 3780   | 2690  | 1350  | 1100  | 984   | 4300  |
| 13    | 923   | 942   | 1860  | 2520   | 6880   | 9450   | 5000   | 2200  | 1180  | 1020  | 983   | 3720  |
| 14    | 1350  | 1010  | 2330  | 4500   | 4260   | 6070   | 3130   | 2780  | 1120  | 1100  | 886   | 2860  |
| 15    | 1320  | 1430  | 1980  | 5060   | 3520   | 6880   | 5290   | 3350  | 1080  | 1490  | 833   | 2700  |
| 16    | 1250  | 1450  | 1910  | 2610   | 5890   | 6220   | 5440   | 1830  | 1110  | 1640  | 847   | 2310  |
| 17    | 1610  | 2090  | 1880  | 2990   | 2900   | 4930   | 5320   | 3600  | 1430  | 1130  | 854   | 1810  |
| 18    | 1340  | 3440  | 1170  | 6630   | 4670   | 4550   | 3510   | 2100  | 1300  | 950   | 854   | 1760  |
| 19    | 1160  | 2570  | 1420  | 10300  | 6870   | 6260   | 7830   | 2070  | 1100  | 774   | 865   | 1800  |
| 20    | 1010  | 3830  | 2150  | 9160   | 6410   | 4060   | 8120   | 2630  | 1100  | 957   | 870   | 2660  |
| 21    | 1010  | 3910  | 2040  | 9410   | 11100  | 5540   | 9540   | 1790  | 1490  | 881   | 850   | 4290  |
| 22    | 1350  | 2170  | 3160  | 9810   | 6460   | 5380   | 8030   | 3090  | 1810  | 924   | 850   | 4920  |
| 23    | 1170  | 2950  | 3310  | 10200  | 10800  | 4900   | 9870   | 1770  | 2380  | 1140  | 882   | 3850  |
| 24    | 1170  | 3290  | 2950  | 10400  | 8310   | 5450   | 8560   | 2460  | 2390  | 905   | 873   | 3290  |
| 25    | 1160  | 2490  | 3500  | 11500  | 6380   | 4260   | 6830   | 1970  | 1740  | 606   | 861   | 4000  |
| 26    | 1100  | 1810  | 3380  | 14200  | 5870   | 5330   | 6780   | 1250  | 1220  | 657   | 877   | 2520  |
| 27    | 911   | 2020  | 3140  | 12000  | 4010   | 5600   | 9960   | 1320  | 935   | 713   | 865   | 3090  |
| 28    | 806   | 1850  | 2670  | 9200   | 4520   | 5330   | 9370   | 1910  | 1040  | 783   | 1270  | 1480  |
| 29    | 1630  | 1780  | 3370  | 5650   | 4760   | 5860   | 9140   | 1660  | 1140  | 796   | 920   | 1650  |
| 30    | 1180  | 2080  | 3590  | 5000   | ---    | 4960   | 7850   | 2330  | 1060  | 840   | 844   | 1580  |
| 31    | 1150  | ---   | 2620  | 4730   | ---    | 5090   | ---    | 1970  | ---   | 763   | 828   | ---   |
| TOTAL | 36700 | 54006 | 73940 | 201970 | 183050 | 196080 | 175160 | 83230 | 44455 | 32679 | 28116 | 80979 |
| MEAN  | 1184  | 1800  | 2385  | 6515   | 6312   | 6325   | 5839   | 2685  | 1482  | 1054  | 907   | 2699  |
| MAX   | 2270  | 3910  | 3590  | 14200  | 11100  | 11400  | 9960   | 5900  | 2850  | 1640  | 1270  | 4920  |
| MIN   | 806   | 877   | 1170  | 1110   | 2900   | 3870   | 3000   | 1250  | 935   | 606   | 636   | 838   |
| CFSM  | .22   | .34   | .45   | 1.23   | 1.19   | 1.19   | 1.10   | .51   | .28   | .20   | .17   | .51   |
| IN.   | .26   | .38   | .52   | 1.41   | 1.28   | 1.37   | 1.23   | .58   | .31   | .23   | .20   | .57   |

|             |       |         |      |      |     |       |     |     |      |      |    |       |
|-------------|-------|---------|------|------|-----|-------|-----|-----|------|------|----|-------|
| CAL YR 1987 | TOTAL | 1963678 | MEAN | 5380 | MAX | 25900 | MIN | 731 | CFSM | 1.01 | IN | 13.76 |
| WTR YR 1988 | TOTAL | 1190365 | MEAN | 3252 | MAX | 14200 | MIN | 606 | CFSM | .61  | IN | 8.34  |

## APALACHICOLA RIVER BASIN

285

02352500 FLINT RIVER AT ALBANY, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT       | NOV  | DEC       | JAN      | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|-----------|------|-----------|----------|------|------|------|------|------|------|------|------|
| 1           | 3.78      | 2.49 | 4.00      | 2.46     | 5.40 | 4.94 | 5.33 | 6.10 | 3.85 | 2.40 | 2.30 | 2.09 |
| 2           | 2.68      | 2.26 | 4.28      | 5.38     | 5.30 | 5.12 | 5.21 | 4.77 | 4.02 | 2.60 | 2.47 | 2.25 |
| 3           | 2.16      | 2.16 | 3.50      | 6.75     | 5.02 | 5.11 | 5.10 | 5.17 | 4.16 | 2.68 | 2.41 | 2.34 |
| 4           | 2.18      | 2.68 | 3.73      | 6.52     | 5.05 | 7.23 | 4.78 | 4.78 | 2.68 | 2.71 | 2.20 | 2.84 |
| 5           | 2.19      | 2.41 | 3.34      | 6.41     | 6.41 | 7.51 | 5.38 | 5.03 | 2.54 | 2.63 | 2.35 | 2.87 |
| 6           | 2.20      | 2.07 | 3.33      | 4.54     | 6.73 | 6.90 | 4.54 | 4.66 | 2.67 | 2.76 | 2.31 | 3.17 |
| 7           | 2.20      | 2.16 | 3.86      | 7.31     | 7.08 | 7.72 | 5.10 | 4.40 | 2.73 | 2.71 | 1.80 | 4.80 |
| 8           | 2.84      | 2.48 | 3.55      | 5.75     | 7.65 | 6.47 | 4.78 | 2.83 | 2.84 | 2.66 | 1.70 | 4.44 |
| 9           | 2.73      | 3.04 | 3.37      | 4.70     | 6.59 | 8.43 | 4.81 | 4.30 | 2.71 | 2.69 | 2.30 | 5.20 |
| 10          | 2.72      | 2.23 | 3.77      | 4.36     | 7.47 | 6.94 | 4.80 | 4.44 | 2.89 | 2.62 | 2.12 | 5.36 |
| 11          | 2.55      | 2.56 | 3.41      | 4.12     | 7.62 | 9.09 | 4.38 | 4.39 | 2.95 | 2.54 | 2.33 | 4.74 |
| 12          | 2.30      | 2.39 | 3.29      | 4.41     | 7.62 | 8.21 | 4.90 | 4.03 | 2.82 | 2.46 | 2.32 | 5.25 |
| 13          | 2.23      | 2.26 | 3.40      | 3.96     | 6.67 | 7.99 | 5.61 | 3.67 | 2.56 | 2.37 | 2.32 | 4.83 |
| 14          | 2.80      | 2.36 | 3.79      | 5.35     | 5.21 | 6.15 | 4.29 | 4.10 | 2.49 | 2.49 | 2.17 | 4.26 |
| 15          | 2.77      | 2.91 | 3.49      | 5.66     | 4.72 | 6.66 | 5.80 | 4.56 | 2.41 | 2.93 | 2.08 | 4.16 |
| 16          | 2.67      | 2.88 | 3.44      | 4.07     | 6.12 | 6.27 | 5.87 | 3.16 | 2.47 | 3.05 | 2.11 | 3.83 |
| 17          | 3.12      | 3.53 | 3.40      | 4.38     | 4.24 | 5.51 | 5.81 | 4.40 | 2.86 | 2.53 | 2.12 | 3.34 |
| 18          | 2.81      | 4.52 | 2.56      | 6.52     | 5.40 | 5.30 | 4.59 | 3.59 | 2.75 | 2.27 | 2.12 | 3.29 |
| 19          | 2.57      | 4.03 | 2.90      | 8.49     | 6.64 | 6.32 | 7.17 | 3.55 | 2.49 | 1.97 | 2.14 | 3.33 |
| 20          | 2.37      | 4.93 | 3.67      | 7.87     | 6.40 | 5.05 | 7.32 | 3.98 | 2.43 | 2.23 | 2.14 | 4.07 |
| 21          | 2.36      | 4.86 | 3.59      | 7.99     | 8.94 | 5.89 | 8.07 | 3.30 | 2.88 | 2.14 | 2.11 | 5.23 |
| 22          | 2.78      | 3.71 | 4.48      | 8.19     | 6.30 | 5.82 | 7.25 | 4.36 | 3.24 | 2.21 | 2.11 | 5.56 |
| 23          | 2.59      | 4.32 | 4.61      | 8.40     | 8.81 | 5.58 | 8.22 | 3.27 | 3.77 | 2.55 | 2.16 | 4.92 |
| 24          | 2.58      | 4.60 | 4.36      | 8.53     | 7.41 | 5.88 | 7.54 | 3.94 | 3.81 | 2.16 | 2.15 | 4.60 |
| 25          | 2.57      | 3.95 | 4.74      | 9.19     | 6.38 | 5.23 | 6.64 | 3.42 | 3.15 | 1.65 | 2.13 | 5.02 |
| 26          | 2.49      | 3.34 | 4.67      | 10.84    | 6.07 | 5.82 | 6.58 | 2.67 | 2.63 | 1.75 | 2.16 | 3.92 |
| 27          | 2.20      | 3.56 | 4.50      | 9.47     | 5.06 | 5.97 | 8.31 | 2.78 | 2.23 | 1.86 | 2.14 | 4.45 |
| 28          | 2.02      | 3.39 | 4.12      | 7.87     | 5.33 | 5.82 | 7.96 | 3.43 | 2.34 | 1.99 | 2.69 | 2.97 |
| 29          | 2.97      | 3.31 | 4.66      | 5.99     | 5.45 | 6.11 | 7.85 | 3.18 | 2.55 | 2.02 | 2.22 | 3.18 |
| 30          | 2.58      | 3.53 | 4.81      | 5.64     | ---  | 5.61 | 7.17 | 3.78 | 2.41 | 2.08 | 2.10 | 3.09 |
| 31          | 2.56      | ---  | 4.03      | 5.48     | ---  | 5.69 | ---  | 3.49 | ---  | 1.96 | 2.07 | ---  |
| MEAN        | 2.57      | 3.16 | 3.83      | 6.34     | 6.31 | 6.33 | 6.04 | 3.98 | 2.88 | 2.38 | 2.19 | 3.98 |
| MAX         | 3.78      | 4.93 | 4.81      | 10.84    | 8.94 | 9.09 | 8.31 | 6.10 | 4.16 | 3.05 | 2.69 | 5.56 |
| MIN         | 2.02      | 2.07 | 2.56      | 2.46     | 4.24 | 4.94 | 4.29 | 2.67 | 2.23 | 1.65 | 1.70 | 2.09 |
| CAL YR 1987 | MEAN 5.57 |      | MAX 19.20 | MIN 1.87 |      |      |      |      |      |      |      |      |
| WTR YR 1988 | MEAN 4.16 |      | MAX 10.84 | MIN 1.65 |      |      |      |      |      |      |      |      |

## APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA.--Continued

## WATER-QUALITY RECORDS

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| DEC<br>14... | 1000 | 3580                                            | 93                                                | 92                                                       | 7.20                           | 7.20                                  | 13.0                                 | 16.5                               | 9.8                                 | 94                                                             |
| MAR<br>15... | 1010 | 8890                                            | 96                                                | 86                                                       | 6.90                           | 7.30                                  | 12.0                                 | 7.0                                | 9.8                                 | 92                                                             |
| JUN<br>21... | 0950 | 670                                             | 118                                               | 102                                                      | --                             | 7.40                                  | 27.0                                 | 32.0                               | 7.5                                 | 95                                                             |
| SEP<br>20... | 0930 | 3330                                            | 96                                                | 95                                                       | 7.40                           | 7.50                                  | 26.0                                 | 29.0                               | 7.8                                 | 97                                                             |

| DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|----------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| DEC<br>14... | 35                                           | 6.0                          | 0.7                                                            | 330                                              | 23                                                            | 0.270                                                | 0.050                                                | <0.020                                      | 4.2                                           |
| MAR<br>15... | 50                                           | 10                           | 0.9                                                            | 130                                              | 29                                                            | 0.530                                                | 0.020                                                | 0.060                                       | 5.8                                           |
| JUN<br>21... | 20                                           | 5.0                          | 0.9                                                            | 110                                              | 32                                                            | 0.550                                                | 0.080                                                | 0.050                                       | --                                            |
| SEP<br>20... | 30                                           | 5.0                          | 0.3                                                            | --                                               | 27                                                            | 0.320                                                | <0.030                                               | 0.080                                       | 9.0                                           |

## APALACHICOLA RIVER BASIN

287

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 mi<sup>2</sup>, 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 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| DEC 15... | 1520 | 2420                                            | 115                                               | 128                                                      | 7.40                           | 7.60                                  | 14.5                                 | 17.5                               | 8.8                                 | 88                                                             |
| MAR 16... | 1545 | 4740                                            | 112                                               | 104                                                      | --                             | 7.60                                  | 15.0                                 | 13.5                               | 10.0                                | 100                                                            |
| JUN 22... | 1425 | 1680                                            | 120                                               | 115                                                      | --                             | 7.50                                  | 28.0                                 | 35.0                               | 8.4                                 | 109                                                            |
| SEP 21... | 1425 | 4270                                            | 105                                               | 107                                                      | 7.30                           | 7.50                                  | 27.5                                 | 32.0                               | 8.0                                 | 102                                                            |

| DATE      | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-----------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------|
| DEC 15... | 40                                           | 6.0                          | --                                                             | --                                                             | --                                               | 37                                                       | 11                                                               |
| MAR 16... | 55                                           | 10                           | --                                                             | 0.8                                                            | 230                                              | 33                                                       | <1                                                               |
| JUN 22... | --                                           | 5.0                          | --                                                             | 0.6                                                            | 70                                               | 36                                                       | 1                                                                |
| SEP 21... | 30                                           | 8.0                          | 33                                                             | 0.5                                                            | 230                                              | 26                                                       | 2                                                                |

| DATE      | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| DEC 15... | 0.570                                                | 0.130                                                | --                                                   | --                                                                 | --                                        | 0.100                                       | 3.6                                           |
| MAR 16... | 0.660                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.070                                       | 5.5                                           |
| JUN 22... | 0.320                                                | 0.140                                                | --                                                   | --                                                                 | --                                        | 0.060                                       | 3.4                                           |
| SEP 21... | 0.330                                                | <0.030                                               | --                                                   | 0.20                                                               | 0.53                                      | 0.120                                       | 3.1                                           |

## 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 mi<sup>2</sup>, 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.--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.--44 years (water years 1939-50, 1957-88), 6,809 ft<sup>3</sup>/s, 16.11 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,600 ft<sup>3</sup>/s, Mar. 9, 1966, gage height, 34.9 ft; minimum discharge, 790 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 20,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Jan. 26 | 2400 | *12,900                           | *12.54              |

Minimum discharge, 940 ft<sup>3</sup>/s, Aug. 8, 9, gage height, 3.15 ft.

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     | 1870  | 1500  | 2530  | 2650   | 5960   | 5620   | 6120   | 8040   | 2780  | 1480  | 1140  | 1130  |
| 2     | 2640  | 1450  | 3040  | 2610   | 5180   | 5110   | 5400   | 5520   | 3190  | 1550  | 1460  | 1140  |
| 3     | 1540  | 1280  | 3420  | 6080   | 5170   | 5350   | 5300   | 5820   | 3510  | 1640  | 1510  | 1270  |
| 4     | 1340  | 1280  | 2460  | 6640   | 4900   | 7130   | 4810   | 4500   | 2560  | 1760  | 1360  | 1370  |
| 5     | 1330  | 1720  | 2710  | 6470   | 5620   | 9910   | 5150   | 4950   | 1860  | 1690  | 1310  | 1900  |
| 6     | 1320  | 1320  | 2240  | 5950   | 7620   | 9400   | 5050   | 4910   | 1720  | 1650  | 1330  | 1710  |
| 7     | 1310  | 1270  | 2330  | 5240   | 7530   | 9210   | 4670   | 4140   | 2030  | 1790  | 1300  | 2390  |
| 8     | 1380  | 1270  | 2940  | 6520   | 8300   | 8710   | 4690   | 3540   | 2020  | 1790  | 1020  | 4410  |
| 9     | 1760  | 1510  | 2280  | 6460   | 8070   | 9070   | 4560   | 3230   | 2020  | 1710  | 1020  | 3760  |
| 10    | 1650  | 1830  | 2440  | 4210   | 7990   | 10200  | 4540   | 4040   | 2080  | 1660  | 1310  | 4910  |
| 11    | 1630  | 1310  | 2600  | 3540   | 8690   | 10300  | 4360   | 4050   | 2110  | 1630  | 1260  | 4540  |
| 12    | 1490  | 1520  | 2350  | 3330   | 8780   | 11000  | 4090   | 3980   | 1890  | 1680  | 1300  | 4340  |
| 13    | 1330  | 1420  | 2230  | 3700   | 8380   | 10100  | 5240   | 3200   | 1830  | 1540  | 1290  | 4930  |
| 14    | 1330  | 1300  | 2460  | 3710   | 6560   | 9040   | 4940   | 3630   | 1720  | 1470  | 1290  | 3830  |
| 15    | 1770  | 1410  | 2590  | 4720   | 4560   | 7620   | 5020   | 3790   | 1630  | 1600  | 1220  | 3350  |
| 16    | 1640  | 1830  | 2430  | 4730   | 5660   | 8130   | 5930   | 3180   | 1590  | 2290  | 1190  | 3200  |
| 17    | 1710  | 2020  | 2350  | 3480   | 5520   | 7330   | 6100   | 4180   | 1750  | 1770  | 1180  | 2680  |
| 18    | 1870  | 3610  | 2220  | 5280   | 3970   | 5160   | 5590   | 3040   | 1910  | 1520  | 1180  | 2380  |
| 19    | 1700  | 2810  | 1570  | 7830   | 7340   | 7380   | 6420   | 2760   | 1690  | 1380  | 1180  | 2290  |
| 20    | 1490  | 3410  | 1950  | 9290   | 7060   | 6550   | 8730   | 3400   | 1540  | 1190  | 1180  | 2720  |
| 21    | 1380  | 4850  | 2560  | 9030   | 9700   | 5430   | 9300   | 2760   | 1810  | 1390  | 1180  | 3590  |
| 22    | 1410  | 3100  | 2700  | 9250   | 9560   | 6740   | 9270   | 3350   | 2090  | 1280  | 1170  | 5330  |
| 23    | 1690  | 2880  | 3810  | 9600   | 9440   | 6600   | 9400   | 3020   | 2510  | 1360  | 1170  | 4750  |
| 24    | 1530  | 3790  | 3500  | 9860   | 9880   | 5960   | 9780   | 2890   | 2920  | 1500  | 1180  | 3860  |
| 25    | 1520  | 3520  | 3560  | 10100  | 8140   | 6180   | 8180   | 3180   | 2770  | 1210  | 1220  | 4490  |
| 26    | 1510  | 2780  | 3970  | 12100  | 8100   | 5680   | 7630   | 2230   | 1990  | 1030  | 1180  | 3480  |
| 27    | 1430  | 2460  | 3810  | 12300  | 5520   | 6970   | 9160   | 1920   | 1710  | 1050  | 1190  | 3650  |
| 28    | 1240  | 2490  | 3550  | 10200  | 5780   | 6300   | 9730   | 2040   | 1440  | 1090  | 1250  | 3020  |
| 29    | 1410  | 2300  | 3350  | 8160   | 5560   | 6670   | 9660   | 2560   | 1590  | 1140  | 1530  | 2150  |
| 30    | 1760  | 2410  | 3920  | 6550   | ---    | 6930   | 9230   | 2730   | 1650  | 1140  | 1220  | 2150  |
| 31    | 1570  | ---   | 3760  | 5740   | ---    | 5720   | ---    | 2620   | ---   | 1190  | 1160  | ---   |
| TOTAL | 48550 | 65650 | 87630 | 205330 | 204540 | 231500 | 198050 | 113200 | 61910 | 46170 | 38480 | 94720 |
| MEAN  | 1566  | 2188  | 2827  | 6624   | 7053   | 7468   | 6602   | 3652   | 2064  | 1489  | 1241  | 3157  |
| MAX   | 2640  | 4850  | 3970  | 12300  | 9880   | 11000  | 9780   | 8040   | 3510  | 2290  | 1530  | 5330  |
| MIN   | 1240  | 1270  | 1570  | 2610   | 3970   | 5110   | 4090   | 1920   | 1440  | 1030  | 1020  | 1130  |
| CFSM  | .27   | .38   | .49   | 1.15   | 1.23   | 1.30   | 1.15   | .64    | .36   | .26   | .22   | .55   |
| IN.   | .31   | .43   | .57   | 1.33   | 1.33   | 1.50   | 1.28   | .73    | .40   | .30   | .25   | .61   |

|             |       |         |      |      |     |       |     |      |      |      |    |       |
|-------------|-------|---------|------|------|-----|-------|-----|------|------|------|----|-------|
| CAL YR 1987 | TOTAL | 2214240 | MEAN | 6066 | MAX | 25700 | MIN | 1240 | CFSM | 1.06 | IN | 14.35 |
| WTR YR 1988 | TOTAL | 1395730 | MEAN | 3813 | MAX | 12300 | MIN | 1020 | CFSM | .66  | IN | 9.05  |

## 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 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>MG/L AS<br>HCO3 | ALKA-<br>LINITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3 | ALKA-<br>LINITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------|
| NOV<br>05... | 1530 | 1800                                            | 160                                               | 171                                               | 7.70                           | 8.10                                  | 21.0                                 | 7.8                                 | 88                                                             | 69                                                              | 56                                                                | 56                                                          |
| JAN<br>21... | 1400 | 8760                                            | 100                                               | 107                                               | 7.29                           | 7.80                                  | 11.0                                 | 10.6                                | 96                                                             | 30                                                              | 25                                                                | 25                                                          |
| MAR<br>24... | 1300 | 5560                                            | 138                                               | 142                                               | 7.37                           | 7.70                                  | 17.0                                 | 8.6                                 | 88                                                             | 59                                                              | 49                                                                | 50                                                          |
| MAY<br>18... | 1300 | 2870                                            | 120                                               | 126                                               | 7.65                           | 7.90                                  | 24.0                                 | 7.8                                 | 93                                                             | 59                                                              | 48                                                                | 48                                                          |
| JUL<br>21... | 1200 | 1500                                            | 172                                               | 173                                               | 7.89                           | 8.00                                  | 28.5                                 | 6.7                                 | 86                                                             | 86                                                              | 71                                                                | 72                                                          |
| AUG<br>25... | 1300 | 1230                                            | 170                                               | 167                                               | 7.87                           | 8.30                                  | 29.0                                 | 6.5                                 | 85                                                             | 79                                                              | 65                                                                | 63                                                          |

| DATE         | TUR-<br>BID-<br>ITY<br>(FTU) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CACO3 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>PERCENT | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) |
|--------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|
| NOV<br>05... | 2.3                          | 200                                                            | 37                                                                 | 52                                              | 0                                                                 | 19                                           | 1.1                                                  | 10                                           | 29                | 0.6                                     | 1.5                                                 |
| JAN<br>21... | 16                           | 300                                                            | 270                                                                | 26                                              | 1                                                                 | 8.9                                          | 1.0                                                  | 8.4                                          | 39                | 0.7                                     | 1.5                                                 |
| MAR<br>24... | 5.4                          | 66                                                             | 100                                                                | 52                                              | 2                                                                 | 19                                           | 1.1                                                  | 6.7                                          | 21                | 0.4                                     | 1.5                                                 |
| MAY<br>18... | 6.8                          | 60                                                             | 6                                                                  | 50                                              | 2                                                                 | 18                                           | 1.1                                                  | 4.5                                          | 16                | 0.3                                     | 1.3                                                 |
| JUL<br>21... | 1.2                          | 36                                                             | 12                                                                 | 73                                              | 1                                                                 | 27                                           | 1.3                                                  | 8.7                                          | 20                | 0.5                                     | 1.2                                                 |
| AUG<br>25... | 1.6                          | 60                                                             | 7                                                                  | 60                                              | 0                                                                 | 22                                           | 1.3                                                  | 9.4                                          | 25                | 0.6                                     | 1.2                                                 |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| NOV<br>05... | 11                                            | 9.3                                                 | 0.10                                               | 8.4                                               | 97                                                                 | 98                                                                  | 471                                               | 0.13                                                |
| JAN<br>21... | 16                                            | 8.6                                                 | 0.10                                               | 9.3                                               | 76                                                                 | 72                                                                  | 1800                                              | 0.10                                                |
| MAR<br>24... | 15                                            | 7.4                                                 | 0.10                                               | 7.3                                               | 91                                                                 | 91                                                                  | 1370                                              | 0.12                                                |
| MAY<br>18... | 8.7                                           | 4.5                                                 | 0.20                                               | 8.9                                               | 76                                                                 | 77                                                                  | 589                                               | 0.10                                                |
| JUL<br>21... | 8.4                                           | 6.6                                                 | 0.20                                               | 8.0                                               | 111                                                                | 108                                                                 | 450                                               | 0.15                                                |
| AUG<br>25... | 8.5                                           | 8.0                                                 | 0.10                                               | 8.3                                               | 96                                                                 | 101                                                                 | 319                                               | 0.13                                                |



APALACHICOLA RIVER BASIN  
02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE      | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) |
|-----------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
| NOV 05... | <0.010                                                        | 0.720                                                         | 0.060                                                | 0.060                                                         | 0.34                                                 | 0.40                                                               | 0.110                                       | 0.100                                                | 0.100                                                          |
| JAN 21... | 0.010                                                         | 0.430                                                         | 0.110                                                | 0.100                                                         | 0.69                                                 | 0.80                                                               | 0.080                                       | 0.040                                                | 0.010                                                          |
| MAR 24... | <0.010                                                        | 0.640                                                         | 0.050                                                | 0.090                                                         | 0.65                                                 | 0.70                                                               | 0.150                                       | 0.150                                                | 0.120                                                          |
| MAY 18... | 0.010                                                         | 0.560                                                         | 0.020                                                | 0.040                                                         | 0.28                                                 | 0.30                                                               | 0.050                                       | 0.040                                                | <0.010                                                         |
| JUL 21... | <0.010                                                        | 0.820                                                         | <0.010                                               | 0.020                                                         | --                                                   | 0.40                                                               | 0.070                                       | 0.070                                                | 0.070                                                          |
| AUG 25... | <0.010                                                        | 0.630                                                         | 0.020                                                | 0.010                                                         | 0.28                                                 | 0.30                                                               | 0.150                                       | 0.140                                                | 0.110                                                          |

| DATE      | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|-----------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| NOV 05... | 20                                                  | <1                                           | 17                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 3                                            | 130                                        | <5                                         |
| JAN 21... | 80                                                  | <1                                           | 18                                           | <0.5                                                 | <1                                           | 1                                                   | <3                                           | 2                                            | 590                                        | <5                                         |
| MAY 18... | 100                                                 | <1                                           | 19                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 1                                            | 460                                        | <5                                         |
| AUG 25... | <10                                                 | <1                                           | 17                                           | <0.5                                                 | <1                                           | <1                                                  | <3                                           | 2                                            | 8                                          | <5                                         |

| DATE      | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|-----------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| NOV 05... | 10                                           | 11                                                   | <0.1                                         | <10                                                   | <1                                           | <1                                                  | <1.0                                         | 33                                                   | <6                                                 | 16                                         |
| JAN 21... | <4                                           | 30                                                   | <0.1                                         | <10                                                   | 1                                            | <1                                                  | <1.0                                         | 22                                                   | <6                                                 | 9                                          |
| MAY 18... | 10                                           | 10                                                   | <0.1                                         | <10                                                   | 1                                            | <1                                                  | <1.0                                         | 30                                                   | <6                                                 | 3                                          |
| AUG 25... | <4                                           | 10                                                   | <0.1                                         | <10                                                   | 1                                            | <1                                                  | <1.0                                         | 39                                                   | <6                                                 | 27                                         |

## APALACHICOLA RIVER BASIN

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02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) |
|-------|------|-------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------------------------------|
| OCT   |      |                                                 |                                      |                                           |                                                               |
| 23... | 1451 | 1620                                            | 18.5                                 | 6                                         | 26                                                            |
| 23... | 1456 | 1620                                            | 18.5                                 | 16                                        | 70                                                            |
| NOV   |      |                                                 |                                      |                                           |                                                               |
| 05... | 1535 | 1800                                            | 21.0                                 | 14                                        | 68                                                            |
| DEC   |      |                                                 |                                      |                                           |                                                               |
| 04... | 1421 | 2700                                            | 15.0                                 | 18                                        | 131                                                           |
| 04... | 1426 | 2700                                            | 15.0                                 | 14                                        | 102                                                           |
| JAN   |      |                                                 |                                      |                                           |                                                               |
| 15... | 1411 | 4500                                            | 8.0                                  | 13                                        | 158                                                           |
| 15... | 1416 | 4500                                            | 8.0                                  | 12                                        | 146                                                           |
| 21... | 1405 | 8760                                            | 11.0                                 | 24                                        | 568                                                           |
| FEB   |      |                                                 |                                      |                                           |                                                               |
| 26... | 1741 | 8380                                            | 11.5                                 | 22                                        | 498                                                           |
| 26... | 1746 | 8380                                            | 11.5                                 | 21                                        | 475                                                           |
| MAR   |      |                                                 |                                      |                                           |                                                               |
| 24... | 1305 | 5560                                            | 17.0                                 | 8                                         | 120                                                           |
| APR   |      |                                                 |                                      |                                           |                                                               |
| 08... | 0758 | 4740                                            | 19.0                                 | 7                                         | 90                                                            |
| 08... | 0803 | 4740                                            | 19.0                                 | 7                                         | 90                                                            |
| MAY   |      |                                                 |                                      |                                           |                                                               |
| 18... | 1305 | 2870                                            | 24.0                                 | 8                                         | 62                                                            |
| 27... | 1044 | 1960                                            | 23.0                                 | 5                                         | 27                                                            |
| 27... | 1049 | 1960                                            | 23.0                                 | 7                                         | 37                                                            |
| JUL   |      |                                                 |                                      |                                           |                                                               |
| 13... | 1234 | 1580                                            | 29.0                                 | 8                                         | 34                                                            |
| 13... | 1239 | 1580                                            | 29.0                                 | 5                                         | 21                                                            |
| 21... | 1205 | 1500                                            | 28.5                                 | 4                                         | 16                                                            |
| AUG   |      |                                                 |                                      |                                           |                                                               |
| 19... | 1300 | 1190                                            | 29.5                                 | 6                                         | 19                                                            |
| 19... | 1305 | 1190                                            | 29.5                                 | 6                                         | 19                                                            |
| 25... | 1305 | 1230                                            | 29.0                                 | 4                                         | 13                                                            |
| SEP   |      |                                                 |                                      |                                           |                                                               |
| 13... | 1516 | 5220                                            | 26.0                                 | 16                                        | 225                                                           |
| 13... | 1521 | 5220                                            | 26.0                                 | 16                                        | 225                                                           |

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|-------|------|-------------------------------------------------|---------------------------------------------------------------|
| NOV   |      |                                                 |                                                               |
| 05... | 1535 | 1800                                            | 68                                                            |
| JAN   |      |                                                 |                                                               |
| 21... | 1405 | 8760                                            | 84                                                            |
| MAR   |      |                                                 |                                                               |
| 24... | 1305 | 5560                                            | 91                                                            |
| MAY   |      |                                                 |                                                               |
| 18... | 1305 | 2870                                            | 90                                                            |
| JUL   |      |                                                 |                                                               |
| 21... | 1205 | 1500                                            | 81                                                            |
| AUG   |      |                                                 |                                                               |
| 25... | 1305 | 1230                                            | 62                                                            |

## APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.125 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.250 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.500 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>1.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>2.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>4.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>8.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>16.0 MM |
|-------|------|-------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
|       |      |                                                 |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |
| AUG   |      |                                                 |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |
| 19... | 1403 | 1190                                            | <1                                                          | 3                                                           | 29                                                          | 81                                                          | 99                                                          | 100                                                         | 100                                                         | --                                                          |
| 19... | 1404 | 1190                                            | 2                                                           | 3                                                           | 16                                                          | 41                                                          | 77                                                          | 95                                                          | 100                                                         | 100                                                         |
| 19... | 1405 | 1190                                            | 2                                                           | 3                                                           | 9                                                           | 20                                                          | 48                                                          | 85                                                          | 95                                                          | 100                                                         |
| 19... | 1406 | 1190                                            | 1                                                           | 3                                                           | 5                                                           | 22                                                          | 80                                                          | 98                                                          | 100                                                         | --                                                          |
| SEP   |      |                                                 |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |
| 13... | 1438 | 5220                                            | 1                                                           | 5                                                           | 21                                                          | 35                                                          | 51                                                          | 65                                                          | 84                                                          | 100                                                         |
| 13... | 1439 | 5220                                            | 2                                                           | 4                                                           | 21                                                          | 43                                                          | 69                                                          | 86                                                          | 98                                                          | 100                                                         |
| 13... | 1440 | 5220                                            | 1                                                           | 3                                                           | 11                                                          | 24                                                          | 59                                                          | 88                                                          | 98                                                          | 100                                                         |
| 13... | 1441 | 5220                                            | 2                                                           | 4                                                           | 5                                                           | 26                                                          | 84                                                          | 99                                                          | 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 mi<sup>2</sup>, 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.--51 years (water years 1906-07, 1940-88), 780 ft<sup>3</sup>/s, 17.08 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft<sup>3</sup>/s, Jan. 27, 1978, gage height, 15.08 ft; minimum discharge, 45 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|
| Mar. 7 | 0600 | *2,630                            | *5.30               |

Minimum discharge, 80 ft<sup>3</sup>/s, June 26, gage height, 0.39.

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     | 167  | 199  | 305   | 436   | 547   | 737   | 746   | 544   | 170  | 141   | 207  | 146  |
| 2     | 166  | 198  | 300   | 402   | 534   | 688   | 689   | 495   | 163  | 200   | 193  | 157  |
| 3     | 164  | 198  | 292   | 493   | 524   | 682   | 669   | 465   | 155  | 261   | 183  | 155  |
| 4     | 160  | 206  | 285   | 647   | 518   | 1150  | 658   | 432   | 152  | 372   | 165  | 168  |
| 5     | 155  | 208  | 281   | 793   | 542   | 2030  | 644   | 419   | 150  | 544   | 159  | 249  |
| 6     | 152  | 212  | 281   | 884   | 647   | 2430  | 630   | 419   | 157  | 812   | 153  | 432  |
| 7     | 155  | 220  | 278   | 804   | 697   | 2600  | 609   | 434   | 158  | 947   | 138  | 546  |
| 8     | 156  | 220  | 277   | 665   | 642   | 2400  | 571   | 419   | 194  | 503   | 120  | 576  |
| 9     | 162  | 217  | 279   | 558   | 549   | 2060  | 536   | 384   | 215  | 285   | 119  | 421  |
| 10    | 162  | 220  | 283   | 533   | 516   | 1940  | 508   | 357   | 236  | 223   | 132  | 481  |
| 11    | 161  | 221  | 293   | 517   | 510   | 2030  | 499   | 413   | 237  | 287   | 126  | 553  |
| 12    | 166  | 226  | 306   | 487   | 500   | 2060  | 525   | 592   | 227  | 345   | 122  | 566  |
| 13    | 168  | 231  | 300   | 462   | 480   | 1910  | 588   | 615   | 199  | 498   | 119  | 513  |
| 14    | 167  | 231  | 292   | 439   | 452   | 1570  | 638   | 530   | 172  | 626   | 116  | 405  |
| 15    | 167  | 230  | 296   | 426   | 444   | 1210  | 625   | 435   | 160  | 481   | 123  | 325  |
| 16    | 168  | 233  | 293   | 415   | 475   | 965   | 560   | 386   | 145  | 348   | 143  | 278  |
| 17    | 170  | 255  | 311   | 413   | 530   | 850   | 501   | 351   | 123  | 449   | 171  | 252  |
| 18    | 172  | 317  | 345   | 489   | 555   | 795   | 478   | 324   | 115  | 479   | 180  | 248  |
| 19    | 173  | 449  | 339   | 769   | 784   | 822   | 662   | 300   | 117  | 477   | 170  | 246  |
| 20    | 171  | 548  | 323   | 1200  | 1440  | 853   | 918   | 268   | 115  | 437   | 156  | 240  |
| 21    | 169  | 587  | 311   | 1780  | 2130  | 839   | 1060  | 240   | 103  | 370   | 147  | 234  |
| 22    | 168  | 496  | 342   | 2080  | 2510  | 794   | 999   | 217   | 101  | 364   | 144  | 226  |
| 23    | 167  | 398  | 421   | 2040  | 2480  | 712   | 870   | 216   | 96   | 435   | 146  | 208  |
| 24    | 169  | 323  | 479   | 1570  | 2100  | 671   | 836   | 211   | 88   | 429   | 124  | 195  |
| 25    | 173  | 300  | 472   | 1090  | 1510  | 669   | 849   | 228   | 86   | 426   | 125  | 189  |
| 26    | 178  | 304  | 426   | 863   | 1080  | 849   | 993   | 256   | 84   | 326   | 154  | 186  |
| 27    | 181  | 305  | 382   | 768   | 881   | 1220  | 1160  | 254   | 85   | 269   | 142  | 174  |
| 28    | 185  | 308  | 360   | 724   | 819   | 1380  | 915   | 224   | 112  | 369   | 126  | 170  |
| 29    | 191  | 309  | 364   | 662   | 779   | 1330  | 723   | 205   | 156  | 363   | 114  | 172  |
| 30    | 199  | 308  | 442   | 603   | ---   | 1110  | 613   | 190   | 135  | 281   | 106  | 166  |
| 31    | 199  | ---  | 490   | 566   | ---   | 876   | ---   | 186   | ---  | 234   | 116  | ---  |
| TOTAL | 5261 | 8677 | 10448 | 24578 | 26175 | 40232 | 21272 | 11009 | 4406 | 12581 | 4439 | 8877 |
| MEAN  | 170  | 289  | 337   | 793   | 903   | 1298  | 709   | 355   | 147  | 406   | 143  | 296  |
| MAX   | 199  | 587  | 490   | 2080  | 2510  | 2600  | 1160  | 615   | 237  | 947   | 207  | 576  |
| MIN   | 152  | 198  | 277   | 402   | 444   | 669   | 478   | 186   | 84   | 141   | 106  | 146  |
| CFSM  | .27  | .47  | .54   | 1.28  | 1.46  | 2.09  | 1.14  | .57   | .24  | .66   | .23  | .48  |
| IN.   | .32  | .52  | .63   | 1.47  | 1.57  | 2.41  | 1.28  | .66   | .26  | .75   | .27  | .53  |

|             |       |        |          |          |         |           |          |
|-------------|-------|--------|----------|----------|---------|-----------|----------|
| CAL YR 1987 | TOTAL | 236194 | MEAN 647 | MAX 3270 | MIN 125 | CFSM 1.04 | IN 14.17 |
| WTR YR 1988 | TOTAL | 177955 | MEAN 486 | MAX 2600 | MIN 84  | CFSM .78  | IN 10.68 |

## 02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

|  |  | DATE         | TIME                                                 | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS)               | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)                  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)          | PH<br>(STAND-<br>ARD<br>UNITS)                                     | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)                               | TEMPER-<br>ATURE<br>WATER<br>(DEG C)                 | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)                     | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION)         |                                                                        |                                                                        |                                              |
|--|--|--------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------|
|  |  | JUN<br>02... | 1330                                                 | 162                                                           | 108                                                                | 108                                                               | 7.65                                                               | 8.00                                                                | 24.0                                                 | 6.6                                                     | 79                                                                     |                                                                        |                                                                        |                                              |
|  |  | AUG<br>29... | 1400                                                 | 115                                                           | 94                                                                 | 92                                                                | 7.54                                                               | 7.90                                                                | 26.0                                                 | 7.1                                                     | 87                                                                     |                                                                        |                                                                        |                                              |
|  |  | DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)         | TUR-<br>BID-<br>ITY<br>(FTU)                                  | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CACO3)                    | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CACO3 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)                       | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)                | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)         | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO                 | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)                    | ALKA-<br>LINITY<br>WAT.DIS<br>FET<br>LAB<br>CACO3<br>(MG/L)            |                                                                        |                                              |
|  |  | JUN<br>02... | 50                                                   | 5.3                                                           | 47                                                                 | 6                                                                 | 17                                                                 | 1.2                                                                 | 2.4                                                  | 10                                                      | 0.2                                                                    | 0.60                                                                   | 41                                                                     |                                              |
|  |  | AUG<br>29... | 35                                                   | 2.7                                                           | 40                                                                 | 6                                                                 | 14                                                                 | 1.2                                                                 | 3.3                                                  | 15                                                      | 0.2                                                                    | 0.70                                                                   | 34                                                                     |                                              |
|  |  | DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)        | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)           | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)                 | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2)                 | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY)    | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT)     | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS N) |                                              |
|  |  | JUN<br>02... | 5.0                                                  | 5.3                                                           | 0.20                                                               | 6.5                                                               | 71                                                                 | 44                                                                  | 31.1                                                 | 0.10                                                    | 1.10                                                                   | 1.10                                                                   | <0.010                                                                 | 0.030                                        |
|  |  | AUG<br>29... | 3.9                                                  | 4.7                                                           | 0.10                                                               | 7.9                                                               | 55                                                                 | 40                                                                  | 17.1                                                 | 0.07                                                    | 0.800                                                                  | 0.750                                                                  | <0.010                                                                 | 0.020                                        |
|  |  | DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N)                          | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)                   | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P)          | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)    | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)                          | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL)                    | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)                                    | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) |
|  |  | JUN<br>02... | --                                                   | 0.17                                                          | 0.20                                                               | 0.20                                                              | 1.3                                                                | 1.3                                                                 | 0.020                                                | 0.020                                                   | 3.5                                                                    | 30                                                                     | <1                                                                     | <1                                           |
|  |  | AUG<br>29... | --                                                   | 0.18                                                          | 0.20                                                               | 0.20                                                              | 1.0                                                                | 0.95                                                                | 0.040                                                | 0.010                                                   | 3.2                                                                    | 10                                                                     | <1                                                                     | <1                                           |
|  |  | DATE         | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD)         | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR)           | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU)                       | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)                        | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)              | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB)                          | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG)                           | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE)                    | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN)                             |                                              |
|  |  | JUN<br>02... | <1                                                   | <1                                                            | 1                                                                  | 550                                                               | <5                                                                 | <5                                                                  | 57                                                   | <0.10                                                   | --                                                                     | <1                                                                     | <3                                                                     |                                              |
|  |  | AUG<br>29... | <1                                                   | <1                                                            | 1                                                                  | 430                                                               | <5                                                                 | <5                                                                  | 51                                                   | <0.10                                                   | <0.1                                                                   | <1                                                                     | 6                                                                      |                                              |

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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.

DRAINAGE AREA.--7,570 mi<sup>2</sup>, approximately.

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.

Chemical analyses: February 1968 to September 1973.

Annual peaks: Water years 1972-76, 1978-88.

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 ft<sup>3</sup>/s, 15.68 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,200 ft<sup>3</sup>/s, Mar. 21, 1929, gage height, 37.73 ft; minimum daily discharge, 1,340 ft<sup>3</sup>/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 ft<sup>3</sup>/s, from rating curve extended above 70,000 ft<sup>3</sup>/s on basis of slope-conveyance studies.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,500 ft<sup>3</sup>/s, Mar. 10, gage height, 20.72 ft.

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 18.51 | 18.28 | 18.13 | 18.81 | 18.30 | 18.96 | 19.52 | 19.56 | 17.45 | 17.67 | 17.96 | 18.13 |
| 2    | 18.64 | 18.05 | 18.03 | 18.77 | 18.36 | 19.02 | 19.46 | 19.24 | 17.67 | 17.71 | 17.98 | 18.18 |
| 3    | 18.69 | 18.08 | 18.00 | 18.66 | 18.42 | 19.16 | 19.14 | 19.09 | 17.87 | 17.78 | 18.05 | 18.40 |
| 4    | 18.32 | 18.23 | 17.98 | 18.76 | 18.55 | 19.74 | 18.95 | 19.17 | 17.90 | 17.85 | 18.08 | 18.45 |
| 5    | 18.03 | 18.41 | 17.81 | 19.01 | 18.73 | 20.11 | 18.97 | 19.09 | 17.58 | 18.01 | 18.11 | 18.55 |
| 6    | 18.10 | 18.51 | 17.60 | 19.21 | 19.39 | 20.18 | 19.16 | 19.07 | 17.31 | 18.09 | 18.16 | 18.62 |
| 7    | 18.22 | 18.56 | 17.36 | 19.20 | 19.54 | 20.06 | 19.27 | 18.88 | 17.29 | 18.14 | 18.10 | 18.61 |
| 8    | 18.26 | 18.38 | 17.43 | 19.41 | 19.57 | 20.37 | 19.24 | 18.32 | 17.42 | 18.24 | 18.04 | 18.65 |
| 9    | 18.32 | 18.20 | 17.56 | 19.34 | 19.73 | 20.36 | 19.14 | 17.87 | 17.62 | 18.25 | 18.07 | 18.81 |
| 10   | 18.39 | 18.26 | 17.66 | 19.09 | 19.74 | 20.57 | 18.83 | 17.97 | 17.76 | 18.17 | 18.12 | 19.00 |
| 11   | 18.16 | 18.19 | 17.79 | 18.84 | 19.88 | 20.24 | 18.64 | 17.93 | 17.85 | 18.24 | 18.13 | 18.97 |
| 12   | 17.96 | 18.06 | 17.84 | 18.90 | 20.02 | 20.38 | 18.62 | 18.09 | 17.59 | 18.33 | 18.16 | 18.85 |
| 13   | 17.91 | 18.07 | 17.62 | 18.91 | 19.94 | 20.40 | 18.68 | 18.20 | 17.33 | 18.40 | 18.20 | 19.01 |
| 14   | 17.96 | 18.13 | 17.45 | 18.82 | 19.48 | 20.25 | 18.80 | 18.19 | 17.37 | 18.45 | 18.18 | 19.07 |
| 15   | 18.07 | 18.05 | 17.65 | 18.89 | 19.16 | 20.06 | 18.69 | 17.80 | ---   | 18.50 | 18.11 | 19.07 |
| 16   | 18.19 | 18.02 | 17.78 | 18.87 | 19.07 | 20.14 | 18.81 | 17.46 | ---   | 18.53 | 18.14 | 19.09 |
| 17   | 18.22 | 18.39 | 17.81 | 18.45 | 19.18 | 19.96 | 18.64 | 17.44 | ---   | 18.52 | 18.19 | 19.14 |
| 18   | 17.97 | 18.66 | 17.84 | 18.20 | 19.13 | 19.59 | 18.59 | 17.88 | ---   | 18.44 | 18.23 | 18.92 |
| 19   | 17.73 | 18.83 | 17.81 | 18.59 | 19.57 | 19.43 | 18.88 | 18.24 | ---   | 18.45 | 18.24 | 18.69 |
| 20   | 17.75 | 18.84 | 17.57 | 19.20 | 19.80 | 19.34 | 19.50 | 18.38 | ---   | 18.45 | 18.27 | 18.76 |
| 21   | 18.07 | 18.85 | 17.36 | 19.63 | 19.83 | 19.08 | 19.82 | 18.61 | ---   | 18.48 | 18.20 | 18.88 |
| 22   | 18.16 | 18.71 | 17.49 | 19.92 | 19.99 | 19.13 | 19.85 | 18.20 | 17.50 | 18.49 | 18.12 | 19.07 |
| 23   | 18.31 | 18.44 | 17.72 | 19.90 | 19.90 | 19.13 | 19.89 | 17.90 | 17.60 | 18.51 | 18.12 | 19.25 |
| 24   | 18.33 | 18.44 | 17.95 | 19.44 | 20.29 | 19.10 | 19.80 | 17.76 | 17.72 | 18.47 | 18.17 | 19.17 |
| 25   | 18.12 | 18.55 | 18.13 | 19.48 | 20.30 | 19.15 | 19.68 | 17.64 | 17.84 | 18.38 | 18.23 | 18.95 |
| 26   | 17.91 | 18.54 | 18.28 | 19.82 | 19.98 | 19.15 | 19.69 | 17.73 | 17.72 | 18.35 | 18.23 | 18.82 |
| 27   | 18.04 | 18.55 | 18.13 | 20.26 | 19.73 | 19.08 | 19.50 | 17.84 | 17.60 | 18.32 | 18.23 | 18.86 |
| 28   | 18.16 | 18.51 | 18.07 | 20.21 | 19.12 | 18.96 | 19.57 | 17.93 | 17.48 | 18.26 | 18.15 | 18.97 |
| 29   | 18.30 | 18.39 | 18.30 | 19.75 | 18.92 | 19.10 | 19.71 | 17.64 | 17.49 | 18.23 | 18.09 | 18.88 |
| 30   | 18.47 | 18.19 | 18.50 | 19.30 | ---   | 19.33 | 19.90 | 17.29 | 17.60 | 18.21 | 18.14 | 18.82 |
| 31   | 18.54 | ---   | 18.72 | 18.66 | ---   | 19.48 | ---   | 17.35 | ---   | 18.08 | 18.12 | ---   |
| MEAN | 18.19 | 18    |       |       |       |       |       |       |       |       |       |       |



## 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 mi<sup>2</sup>, approximately.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1045 | 171                                               | 166                                                      | --                             | 8.00                                  | 18.0                                 | 18.0                               | 9.0                                 | 95                                                             |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1215 | 172                                               | 164                                                      | 7.70                           | 7.90                                  | 17.5                                 | 24.0                               | 8.8                                 | 92                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 15... | 1245 | 149                                               | 150                                                      | 7.50                           | 7.90                                  | 16.0                                 | 16.5                               | 8.7                                 | 89                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1230 | 139                                               | 131                                                      | 7.50                           | 7.80                                  | 12.0                                 | 23.0                               | 10.4                                | 98                                                             |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1245 | 140                                               | 120                                                      | 7.10                           | 7.70                                  | 10.0                                 | 9.5                                | 11.0                                | 98                                                             |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 16... | 1225 | 132                                               | 124                                                      | --                             | 7.60                                  | 16.0                                 | 12.0                               | 11.0                                | 112                                                            |
| APR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 19... | 1200 | 146                                               | 147                                                      | 7.40                           | 7.60                                  | 19.0                                 | 26.0                               | 8.1                                 | 89                                                             |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 18... | 1150 | 155                                               | 156                                                      | --                             | 7.80                                  | 24.0                                 | 29.0                               | 8.1                                 | 98                                                             |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 22... | 1120 | 176                                               | 174                                                      | --                             | 7.80                                  | 27.5                                 | 34.0                               | 8.8                                 | 113                                                            |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 20... | 1045 | 155                                               | 148                                                      | --                             | 7.90                                  | 28.5                                 | 33.0                               | 8.3                                 | 108                                                            |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 17... | 1045 | 177                                               | 172                                                      | --                             | 8.00                                  | 28.5                                 | 31.0                               | 8.1                                 | 106                                                            |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 21... | 1120 | 152                                               | 158                                                      | 7.60                           | 7.80                                  | 26.5                                 | 33.0                               | 8.3                                 | 104                                                            |

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|----------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 21... | 10                                           | 1.0                          | 6                                                              | 1.1                                                            | 70                                               | 63                                                              | <1                                                                |
| NOV   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 18... | 25                                           | 3.0                          | 5                                                              | 1.1                                                            | 110                                              | 62                                                              | <1                                                                |
| DEC   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 15... | 25                                           | 5.0                          | 4                                                              | 2.2                                                            | --                                               | 54                                                              | 11                                                                |
| JAN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 19... | 45                                           | 7.0                          | 10                                                             | 1.0                                                            | 1100                                             | 43                                                              | 10                                                                |
| FEB   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 18... | 65                                           | 15                           | 9                                                              | 1.1                                                            | 460                                              | 39                                                              | 12                                                                |
| MAR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 16... | 45                                           | 10                           | 5                                                              | 1.1                                                            | 90                                               | 48                                                              | 7                                                                 |
| APR   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 19... | 45                                           | 10                           | 9                                                              | 1.2                                                            | 130                                              | 46                                                              | 8                                                                 |
| MAY   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 18... | 30                                           | 8.0                          | 6                                                              | 1.2                                                            | 110                                              | 62                                                              | 4                                                                 |
| JUN   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 22... | --                                           | 4.0                          | 17                                                             | 0.5                                                            | <20                                              | 71                                                              | --                                                                |
| JUL   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 20... | 20                                           | 5.0                          | --                                                             | 0.4                                                            | 80                                               | 59                                                              | 5                                                                 |
| AUG   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 17... | 15                                           | 1.0                          | --                                                             | 0.9                                                            | <20                                              | 71                                                              | 5                                                                 |
| SEP   |                                              |                              |                                                                |                                                                |                                                  |                                                                 |                                                                   |
| 21... | 10                                           | 4.0                          | --                                                             | 1.4                                                            | 50                                               | 55                                                              | 3                                                                 |

## APALACHICOLA RIVER BASIN

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02356015 FLINT RIVER BELOW BAINBRIDGE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 21... | 0.940                                                | 0.300                                                | 0.30                                                 | 0.60                                                               | 1.5                                       | 0.060                                       | 3.1                                           |
| NOV   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 18... | 0.720                                                | 0.140                                                | 0.36                                                 | 0.50                                                               | 1.2                                       | 0.060                                       | 2.6                                           |
| DEC   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 15... | 1.00                                                 | 0.190                                                | 0.71                                                 | 0.90                                                               | 1.9                                       | 0.070                                       | 2.9                                           |
| JAN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 19... | 0.810                                                | 0.170                                                | 0.33                                                 | 0.50                                                               | 1.3                                       | 0.060                                       | 3.6                                           |
| FEB   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 18... | 1.35                                                 | 0.860                                                | 0.54                                                 | 1.4                                                                | 2.7                                       | 0.170                                       | 4.7                                           |
| MAR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 16... | 0.650                                                | <0.020                                               | --                                                   | 0.50                                                               | 1.2                                       | 0.070                                       | 5.9                                           |
| APR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 19... | 1.42                                                 | 0.820                                                | 0.18                                                 | 1.0                                                                | 2.4                                       | 0.150                                       | 4.2                                           |
| MAY   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 18... | 1.02                                                 | 0.120                                                | 0.18                                                 | 0.30                                                               | 1.3                                       | 0.050                                       | 3.4                                           |
| JUN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 22... | 1.01                                                 | 0.160                                                | 0.14                                                 | 0.30                                                               | 1.3                                       | 0.040                                       | 2.1                                           |
| JUL   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 20... | 0.830                                                | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.040                                       | --                                            |
| AUG   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 17... | 0.880                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.050                                       | 2.2                                           |
| SEP   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 21... | 0.820                                                | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.100                                       | 2.4                                           |

## 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 mi<sup>2</sup>, 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.--No estimated daily discharges. Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

AVERAGE DISCHARGE.--40 years (water years 1938-70, 1978, 1983-88), 490 ft<sup>3</sup>/s, 13.72 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft<sup>3</sup>/s Apr. 12, 1975, gage height, 19.43 ft; maximum gage height 19.9 ft, Apr. 2, 1948; minimum discharge, 5.0 ft<sup>3</sup>/s, Aug. 14, 15, 18, and 19, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 5.3 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Feb. 23 | 2100 | 3,480                             | 13.74               | Mar. 7 | 1800 | *4,540                            | *14.78              |

Minimum discharge, 23 ft<sup>3</sup>/s, July 2.

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           | 54    | 32     | 57       | 76       | 543    | 1120      | 992      | 607  | 88   | 24   | 125  | 38   |
| 2           | 52    | 31     | 55       | 77       | 511    | 1020      | 847      | 524  | 80   | 24   | 112  | 34   |
| 3           | 49    | 31     | 54       | 91       | 489    | 965       | 763      | 469  | 75   | 28   | 99   | 32   |
| 4           | 47    | 34     | 52       | 128      | 474    | 1260      | 718      | 433  | 70   | 36   | 90   | 35   |
| 5           | 46    | 36     | 51       | 155      | 467    | 1910      | 689      | 399  | 67   | 43   | 79   | 42   |
| 6           | 45    | 37     | 50       | 182      | 483    | 3210      | 665      | 367  | 67   | 58   | 69   | 57   |
| 7           | 43    | 38     | 49       | 205      | 498    | 4410      | 645      | 349  | 68   | 67   | 60   | 79   |
| 8           | 41    | 39     | 48       | 228      | 520    | 4000      | 599      | 331  | 72   | 63   | 54   | 115  |
| 9           | 40    | 39     | 47       | 243      | 536    | 2980      | 559      | 303  | 77   | 55   | 50   | 139  |
| 10          | 39    | 39     | 47       | 233      | 539    | 2510      | 522      | 279  | 83   | 48   | 47   | 136  |
| 11          | 39    | 38     | 47       | 225      | 520    | 2480      | 492      | 265  | 104  | 49   | 43   | 124  |
| 12          | 39    | 38     | 47       | 232      | 483    | 2490      | 483      | 297  | 121  | 56   | 39   | 129  |
| 13          | 38    | 37     | 48       | 241      | 446    | 2440      | 474      | 334  | 112  | 56   | 35   | 147  |
| 14          | 37    | 37     | 48       | 232      | 420    | 2170      | 471      | 311  | 96   | 67   | 38   | 165  |
| 15          | 36    | 36     | 49       | 216      | 409    | 1800      | 480      | 279  | 83   | 88   | 48   | 170  |
| 16          | 36    | 36     | 60       | 201      | 408    | 1480      | 480      | 251  | 72   | 114  | 59   | 158  |
| 17          | 35    | 43     | 66       | 193      | 400    | 1280      | 462      | 229  | 62   | 124  | 68   | 131  |
| 18          | 35    | 56     | 74       | 212      | 416    | 1140      | 439      | 215  | 55   | 118  | 69   | 115  |
| 19          | 34    | 65     | 70       | 247      | 601    | 1050      | 604      | 201  | 50   | 211  | 66   | 105  |
| 20          | 33    | 71     | 64       | 328      | 912    | 974       | 679      | 183  | 45   | 440  | 60   | 100  |
| 21          | 33    | 69     | 62       | 537      | 1530   | 916       | 787      | 165  | 43   | 461  | 54   | 97   |
| 22          | 32    | 64     | 61       | 833      | 2530   | 871       | 905      | 151  | 43   | 328  | 50   | 102  |
| 23          | 32    | 61     | 61       | 1060     | 3360   | 842       | 970      | 140  | 41   | 271  | 49   | 99   |
| 24          | 33    | 58     | 63       | 1160     | 3260   | 801       | 939      | 132  | 39   | 260  | 56   | 90   |
| 25          | 33    | 56     | 66       | 1090     | 2610   | 759       | 988      | 126  | 35   | 268  | 85   | 84   |
| 26          | 33    | 54     | 65       | 941      | 2010   | 795       | 1100     | 120  | 32   | 284  | 122  | 78   |
| 27          | 33    | 53     | 65       | 795      | 1640   | 857       | 1190     | 117  | 29   | 291  | 91   | 70   |
| 28          | 32    | 52     | 66       | 696      | 1390   | 962       | 1010     | 118  | 27   | 265  | 67   | 64   |
| 29          | 32    | 55     | 68       | 639      | 1240   | 1050      | 789      | 116  | 26   | 210  | 55   | 58   |
| 30          | 33    | 59     | 72       | 607      | ---    | 1150      | 681      | 108  | 25   | 167  | 48   | 56   |
| 31          | 32    | ---    | 75       | 578      | ---    | 1150      | ---      | 98   | ---  | 141  | 42   | ---  |
| TOTAL       | 1176  | 1394   | 1807     | 12881    | 29645  | 50842     | 21422    | 8017 | 1887 | 4715 | 2029 | 2849 |
| MEAN        | 37.9  | 46.5   | 58.3     | 416      | 1022   | 1640      | 714      | 259  | 62.9 | 152  | 65.5 | 95.0 |
| MAX         | 54    | 71     | 75       | 1160     | 3360   | 4410      | 1190     | 607  | 121  | 461  | 125  | 170  |
| MIN         | 32    | 31     | 47       | 76       | 400    | 759       | 439      | 98   | 25   | 24   | 35   | 32   |
| CFSM        | .08   | .10    | .12      | .86      | 2.11   | 3.38      | 1.47     | .53  | .13  | .31  | .14  | .20  |
| IN.         | .09   | .11    | .14      | .99      | 2.27   | 3.90      | 1.64     | .61  | .14  | .36  | .16  | .22  |
| CAL YR 1987 | TOTAL | 209298 | MEAN 573 | MAX 3600 | MIN 31 | CFSM 1.18 | IN 16.05 |      |      |      |      |      |
| WTR YR 1988 | TOTAL | 138664 | MEAN 379 | MAX 4410 | MIN 24 | CFSM .78  | IN 10.64 |      |      |      |      |      |

## 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 mi<sup>2</sup>, 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, 1,689,900 acre-ft Apr. 25, elevation, 1,063.77 ft; minimum, 1,492,600 acre-ft Dec. 14, elevation, 1,057.90 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|---------------------|-------------------------|--------------------|------------------------------------------|
|               |                     |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 1062.47             | 1644800                 | -                  | -                                        |
| Oct. 31.....  | 1059.55             | 1546300                 | -98500             | -1602                                    |
| Nov. 30.....  | 1058.33             | 1506500                 | -39800             | -669                                     |
| Dec. 31.....  | 1058.51             | 1512300                 | +5800              | +94                                      |
| CAL YR 1987   | -                   | -                       | -60900             | -84                                      |
| Jan. 31.....  | 1061.14             | 1599400                 | +87100             | +1420                                    |
| Feb. 29.....  | 1062.08             | 1631400                 | +32000             | +556                                     |
| Mar. 31.....  | 1062.26             | 1637600                 | +6200              | +101                                     |
| Apr. 30.....  | 1063.73             | 1688500                 | +50900             | +855                                     |
| May 31.....   | 1063.02             | 1663700                 | -24800             | -403                                     |
| June 30.....  | 1061.40             | 1608300                 | -55400             | -931                                     |
| July 31.....  | 1060.07             | 1563500                 | -44800             | -729                                     |
| Aug. 31.....  | 1058.46             | 1510700                 | -52800             | -859                                     |
| Sept. 30..... | 1058.04             | 1497100                 | -13600             | -229                                     |
| WTR YR 1988   | -                   | -                       | -147700            | -203                                     |

## 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 mi<sup>2</sup>, 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, 557,400 acre-ft May 15, elevation, 636.12 ft; minimum, 308,800 acre-ft Nov. 27, elevation, 623.66 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|---------------------|-------------------------|--------------------|------------------------------------------|
|               |                     |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 627.73              | 436800                  | -                  | -                                        |
| Oct. 31.....  | 625.54              | 339800                  | -97000             | -1577                                    |
| Nov. 30.....  | 624.03              | 314700                  | -25100             | -422                                     |
| Dec. 31.....  | 625.09              | 332100                  | +17400             | +283                                     |
| CAL YR 1987   | -                   | -                       | -160000            | -221                                     |
| Jan. 31.....  | 628.13              | 385900                  | +53800             | +875                                     |
| Feb. 29.....  | 627.33              | 371200                  | -14700             | -256                                     |
| Mar. 31.....  | 630.32              | 428500                  | +57300             | +932                                     |
| Apr. 30.....  | 635.51              | 542700                  | +114200            | +1919                                    |
| May 31.....   | 634.35              | 515400                  | -27300             | -444                                     |
| June 30.....  | 629.21              | 406500                  | -108900            | -1830                                    |
| July 31.....  | 630.12              | 424400                  | +17900             | +291                                     |
| Aug. 31.....  | 630.24              | 426900                  | +2500              | +41                                      |
| Sept. 30..... | 634.17              | 511200                  | +84300             | +1417                                    |
| WTR YR 1988   | -                   | -                       | +74400             | +102                                     |

## 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 mi<sup>2</sup>, 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 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet)† | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|----------------------|-------------------------|--------------------|------------------------------------------|
|               |                      |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 519.7                | 173000                  | -                  | -                                        |
| Oct. 31.....  | 518.8                | 168000                  | -5000              | -81                                      |
| Nov. 30.....  | 519.4                | 171000                  | +3000              | +50                                      |
| Dec. 31.....  | 519.9                | 174000                  | +3000              | +49                                      |
| CAL YR 1987   | -                    | -                       | +7000              | +10                                      |
| Jan. 31.....  | 519.6                | 173000                  | -1000              | -16                                      |
| Feb. 29.....  | 519.8                | 174000                  | +1000              | +17                                      |
| Mar. 31.....  | 520.1                | 176000                  | +2000              | +33                                      |
| Apr. 30.....  | 520.3                | 177000                  | +1000              | +17                                      |
| May 31.....   | 520.0                | 175000                  | -2000              | -33                                      |
| June 30.....  | 520.0                | 175000                  | 0                  | 0                                        |
| July 31.....  | 520.2                | 176000                  | +1000              | +16                                      |
| Aug. 31.....  | 520.3                | 177000                  | +1000              | +16                                      |
| Sept. 30..... | 517.3                | 159000                  | -18000             | -302                                     |
| WTR YR 1988   | -                    | -                       | -14000             | -19                                      |

## 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 mi<sup>2</sup>, 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, 943,200 acre-ft Apr. 25, elevation, 190.19 ft; minimum, 719,000 acre-ft June 24, elevation, 184.78 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|---------------------|-------------------------|--------------------|------------------------------------------|
|               |                     |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 187.99              | 846700                  | -                  | -                                        |
| Oct. 31.....  | 185.15              | 733000                  | -113700            | -1849                                    |
| Nov. 30.....  | 187.42              | 823000                  | +90000             | +1512                                    |
| Dec. 31.....  | 186.60              | 789600                  | -33400             | -543                                     |
| CAL YR 1987   | -                   | -                       | -87500             | -121                                     |
| Jan. 31.....  | 188.22              | 856500                  | +66900             | +1088                                    |
| Feb. 29.....  | 188.16              | 854000                  | -2500              | -43                                      |
| Mar. 31.....  | 189.67              | 919800                  | +65800             | +1070                                    |
| Apr. 30.....  | 189.44              | 909600                  | -10200             | -171                                     |
| May 31.....   | 185.92              | 762600                  | -147000            | -2391                                    |
| June 30.....  | 185.06              | 729500                  | -33100             | -556                                     |
| July 31.....  | 187.60              | 830500                  | +10100             | +1643                                    |
| Aug. 31.....  | 187.82              | 839600                  | +9100              | +148                                     |
| Sept. 30..... | 189.06              | 892700                  | +53100             | +892                                     |
| WTR YR 1988   | -                   | -                       | +46000             | +63                                      |

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

## LAKES IN APALACHICOLA RIVER BASIN--Continued

301

## 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 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1959, published as Jim Woodruff Reservoir at Chattahoochee.

REVISIONS.--WSP 1554: 1955-57.

GAGE.--Water-stage recorder. Datum of gage is at 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 391,400 acre-ft Mar. 16, elevation, 77.62 ft; minimum, 308,800 acre-ft May 30, elevation 75.33 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|---------------------|-------------------------|--------------------|------------------------------------------|
|               |                     |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 76.58               | 352100                  | -                  | -                                        |
| Oct. 31.....  | 76.63               | 353900                  | +1800              | +29                                      |
| Nov. 30.....  | 76.23               | 339400                  | -14500             | -244                                     |
| Dec. 31.....  | 76.83               | 361100                  | +21700             | +353                                     |
| CAL YR 1987   | -                   | -                       | -10100             | -14                                      |
| Jan. 31.....  | 76.13               | 335800                  | -25300             | -411                                     |
| Feb. 29.....  | 76.60               | 352800                  | +17000             | +296                                     |
| Mar. 31.....  | 77.52               | 387500                  | +34700             | +564                                     |
| Apr. 30.....  | 77.43               | 384000                  | -3500              | -59                                      |
| May 31.....   | 75.49               | 314000                  | -70000             | -1138                                    |
| June 30.....  | 75.17               | 321400                  | +7400              | +124                                     |
| July 31.....  | 76.11               | 335100                  | +13700             | +223                                     |
| Aug. 31.....  | 76.32               | 342700                  | +7600              | +124                                     |
| Sept. 30..... | 76.99               | 366900                  | +24200             | +407                                     |
| WTR YR 1988   | -                   | -                       | +14800             | +20                                      |



## 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 mi<sup>2</sup>.

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.--36 years (water years 1939-49, 1964-88), 502 ft<sup>3</sup>/s, 28.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft<sup>3</sup>/s, Oct. 4, 1964, gage height, 17.63 ft; minimum discharge, 65 ft<sup>3</sup>/s, Sept. 3, 1988.

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 ft<sup>3</sup>/s, and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|
| Jan. 20 | 0715 | *3,160                            | *4.82               |

Minimum discharge, 65 ft<sup>3</sup>/s, Sept. 3.

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           | 129   | 112    | 140      | 312      | 216    | 191       | 248      | 263  | 154  | 110  | 86   | 76   |
| 2           | 114   | 109    | 139      | 340      | 340    | 189       | 288      | 253  | 152  | 105  | 108  | 69   |
| 3           | 107   | 108    | 136      | 275      | 553    | 191       | 269      | 246  | 146  | 133  | 109  | 72   |
| 4           | 105   | 106    | 139      | 294      | 815    | 239       | 350      | 254  | 144  | 174  | 144  | 328  |
| 5           | 105   | 106    | 136      | 256      | 608    | 237       | 314      | 258  | 141  | 149  | 114  | 292  |
| 6           | 106   | 102    | 134      | 224      | 437    | 210       | 308      | 239  | 136  | 124  | 129  | 150  |
| 7           | 103   | 101    | 133      | 220      | 361    | 200       | 300      | 230  | 133  | 111  | 158  | 116  |
| 8           | 99    | 103    | 133      | 257      | 328    | 195       | 273      | 224  | 130  | 102  | 124  | 102  |
| 9           | 100   | 105    | 135      | 220      | 303    | 290       | 258      | 234  | 126  | 97   | 106  | 99   |
| 10          | 101   | 181    | 140      | 204      | 283    | 427       | 248      | 410  | 124  | 93   | 96   | 101  |
| 11          | 101   | 174    | 141      | 197      | 268    | 399       | 258      | 283  | 122  | 95   | 114  | 107  |
| 12          | 100   | 124    | 138      | 194      | 268    | 332       | 1120     | 243  | 119  | 113  | 127  | 109  |
| 13          | 101   | 113    | 136      | 236      | 251    | 586       | 692      | 229  | 115  | 123  | 102  | 120  |
| 14          | 101   | 111    | 141      | 263      | 241    | 427       | 486      | 232  | 113  | 121  | 89   | 107  |
| 15          | 99    | 109    | 275      | 224      | 261    | 350       | 408      | 224  | 111  | 108  | 83   | 96   |
| 16          | 97    | 107    | 260      | 206      | 268    | 310       | 369      | 217  | 108  | 101  | 98   | 91   |
| 17          | 98    | 357    | 189      | 438      | 242    | 285       | 338      | 206  | 108  | 146  | 92   | 168  |
| 18          | 98    | 281    | 165      | 930      | 233    | 277       | 417      | 197  | 109  | 118  | 84   | 204  |
| 19          | 97    | 189    | 155      | 761      | 237    | 281       | 708      | 192  | 123  | 100  | 77   | 145  |
| 20          | 107   | 164    | 167      | 2260     | 238    | 258       | 562      | 189  | 118  | 90   | 163  | 129  |
| 21          | 124   | 151    | 182      | 961      | 224    | 247       | 464      | 186  | 125  | 95   | 160  | 120  |
| 22          | 111   | 143    | 175      | 525      | 216    | 239       | 412      | 184  | 111  | 196  | 111  | 105  |
| 23          | 109   | 140    | 161      | 400      | 214    | 230       | 381      | 183  | 107  | 203  | 98   | 98   |
| 24          | 109   | 139    | 193      | 339      | 213    | 226       | 359      | 195  | 104  | 130  | 105  | 106  |
| 25          | 108   | 139    | 276      | 327      | 205    | 292       | 329      | 212  | 106  | 100  | 98   | 201  |
| 26          | 106   | 144    | 228      | 293      | 201    | 332       | 317      | 190  | 104  | 95   | 87   | 151  |
| 27          | 120   | 157    | 258      | 261      | 200    | 274       | 302      | 174  | 100  | 102  | 80   | 126  |
| 28          | 124   | 152    | 456      | 246      | 197    | 251       | 284      | 169  | 93   | 100  | 78   | 109  |
| 29          | 115   | 153    | 352      | 235      | 194    | 241       | 274      | 164  | 87   | 97   | 77   | 101  |
| 30          | 113   | 147    | 255      | 227      | ---    | 238       | 268      | 159  | 96   | 98   | 77   | 96   |
| 31          | 112   | ---    | 216      | 221      | ---    | 235       | ---      | 155  | ---  | 90   | 78   | ---  |
| TOTAL       | 3319  | 4327   | 5884     | 12346    | 8615   | 8679      | 11604    | 6794 | 3565 | 3619 | 3252 | 3894 |
| MEAN        | 107   | 144    | 190      | 398      | 297    | 280       | 387      | 219  | 119  | 117  | 105  | 130  |
| MAX         | 129   | 357    | 456      | 2260     | 815    | 586       | 1120     | 410  | 154  | 203  | 163  | 328  |
| MIN         | 97    | 101    | 133      | 194      | 194    | 189       | 248      | 155  | 87   | 90   | 77   | 69   |
| CFSM        | .45   | .61    | .81      | 1.69     | 1.26   | 1.19      | 1.64     | .93  | .50  | .50  | .45  | .55  |
| IN.         | .52   | .68    | .93      | 1.95     | 1.36   | 1.37      | 1.83     | 1.07 | .56  | .57  | .51  | .61  |
| CAL YR 1987 | TOTAL | 129642 | MEAN 355 | MAX 3090 | MIN 97 | CFSM 1.50 | IN 20.43 |      |      |      |      |      |
| WTR YR 1988 | TOTAL | 75898  | MEAN 207 | MAX 2260 | MIN 69 | CFSM .88  | IN 11.96 |      |      |      |      |      |

## 303

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 1011 (revised), 3.6 mi upstream from mouth, and 4.5 mi northeast of Talking Rock.

DRAINAGE AREA.--9.99 mi<sup>2</sup>

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.--No estimated daily discharges. Records good, except those less than 5 ft<sup>3</sup>/s, which are fair.

REMARKS.--NO estimated daily discharges. Records good  
AVERAGE DISCHARGE.--14 years, 17.1 ft<sup>3</sup>/s, 23.24 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft<sup>3</sup>/s, May 29, 1973, gage height, 16.96 ft, from floodmarks; minimum daily discharge, 1.1 ft<sup>3</sup>/s, June 26, 27, 1986.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Jan. 20 | 0145 | *333                              | *3.84               | Apr. 12 | 0300 | 314                               | 3.73                |

Minimum daily discharge, 1.4 ft<sup>3</sup>/s, Aug. 19.

| DAY         | OCT   | NOV      | DEC   | JAN   | FEB     | MAR     | APR       | MAY      | JUN  | JUL   | AUG  | SEP   |
|-------------|-------|----------|-------|-------|---------|---------|-----------|----------|------|-------|------|-------|
| 1           | 4.2   | 3.0      | 4.6   | 13    | 8.3     | 6.0     | 9.1       | 9.2      | 3.6  | 2.7   | 2.0  | 1.7   |
| 2           | 4.2   | 3.0      | 4.2   | 14    | 14      | 6.0     | 10        | 9.0      | 3.6  | 2.4   | 2.0  | 1.7   |
| 3           | 3.7   | 3.0      | 4.2   | 13    | 16      | 6.0     | 9.4       | 8.7      | 3.4  | 3.0   | 5.7  | 3.4   |
| 4           | 3.6   | 3.0      | 4.2   | 13    | 30      | 8.9     | 12        | 8.9      | 3.0  | 3.0   | 5.9  | 13    |
| 5           | 3.6   | 3.0      | 4.2   | 13    | 18      | 7.9     | 10        | 8.7      | 3.0  | 3.0   | 5.4  | 8.3   |
| 6           | 3.6   | 3.0      | 4.2   | 13    | 14      | 6.2     | 11        | 8.0      | 3.0  | 2.8   | 3.7  | 5.6   |
| 7           | 3.0   | 3.0      | 4.2   | 13    | 12      | 6.0     | 9.5       | 7.6      | 3.0  | 2.3   | 2.5  | 3.2   |
| 8           | 2.5   | 3.0      | 4.2   | 11    | 11      | 6.0     | 11        | 7.1      | 3.0  | 2.1   | 2.4  | 3.0   |
| 9           | 2.5   | 3.3      | 4.2   | 11    | 11      | 12      | 14        | 7.0      | 3.0  | 2.0   | 2.1  | 3.0   |
| 10          | 2.5   | 9.0      | 4.2   | 11    | 11      | 21      | 13        | 7.7      | 3.0  | 1.7   | 2.0  | 3.0   |
| 11          | 2.5   | 4.0      | 4.2   | 11    | 8.4     | 14      | 27        | 7.1      | 3.0  | 1.8   | 3.9  | 3.0   |
| 12          | 2.5   | 3.6      | 4.2   | 9.4   | 7.7     | 12      | 113       | 6.4      | 3.0  | 4.1   | 2.4  | 4.3   |
| 13          | 2.5   | 3.6      | 4.2   | 11    | 7.2     | 16      | 28        | 6.4      | 2.6  | 3.1   | 2.0  | 5.3   |
| 14          | 2.8   | 3.6      | 4.2   | 10    | 7.2     | 12      | 20        | 6.2      | 2.5  | 3.2   | 1.7  | 4.7   |
| 15          | 3.0   | 3.6      | 9.3   | 8.9   | 8.5     | 11      | 16        | 5.9      | 2.1  | 2.4   | 1.7  | 2.5   |
| 16          | 3.0   | 3.6      | 7.3   | 8.4   | 8.1     | 10      | 14        | 5.6      | 1.7  | 6.0   | 1.7  | 2.3   |
| 17          | 3.0   | 19       | 5.0   | 23    | 7.6     | 10      | 12        | 5.5      | 2.1  | 4.5   | 1.7  | 7.1   |
| 18          | 3.0   | 8.8      | 4.2   | 21    | 7.0     | 10      | 16        | 5.4      | 5.5  | 2.4   | 1.6  | 6.7   |
| 19          | 3.0   | 6.8      | 4.2   | 20    | 6.8     | 9.7     | 30        | 4.9      | 4.3  | 2.0   | 1.4  | 4.8   |
| 20          | 3.2   | 5.8      | 4.6   | 98    | 6.8     | 9.0     | 19        | 5.1      | 3.9  | 1.7   | 6.7  | 4.7   |
| 21          | 3.3   | 5.3      | 5.1   | 22    | 6.6     | 8.9     | 16        | 5.1      | 4.0  | 8.7   | 5.2  | 4.1   |
| 22          | 3.0   | 5.3      | 5.3   | 14    | 6.4     | 9.0     | 14        | 4.9      | 2.9  | 7.2   | 2.6  | 3.6   |
| 23          | 3.0   | 5.3      | 5.3   | 13    | 6.4     | 8.4     | 13        | 4.9      | 2.7  | 7.3   | 2.0  | 3.6   |
| 24          | 3.0   | 5.0      | 10    | 13    | 6.2     | 8.1     | 13        | 5.4      | 2.7  | 4.0   | 2.8  | 3.2   |
| 25          | 3.0   | 3.6      | 9.9   | 13    | 6.0     | 10      | 11        | 5.7      | 2.6  | 2.7   | 2.5  | 3.0   |
| 26          | 3.0   | 4.3      | 9.1   | 12    | 6.0     | 9.6     | 11        | 5.2      | 2.3  | 2.5   | 1.9  | 3.0   |
| 27          | 3.5   | 5.3      | 13    | 12    | 6.0     | 8.5     | 10        | 4.8      | 2.0  | 5.4   | 1.9  | 2.9   |
| 28          | 3.4   | 4.9      | 23    | 11    | 6.0     | 8.5     | 9.7       | 4.2      | 2.0  | 4.8   | 2.1  | 2.5   |
| 29          | 3.0   | 4.9      | 11    | 9.4   | 6.0     | 7.9     | 9.4       | 4.2      | 1.7  | 3.4   | 2.1  | 2.4   |
| 30          | 3.0   | 4.9      | 9.0   | 9.4   | ---     | 7.6     | 9.4       | 3.8      | 2.3  | 2.8   | 2.1  | 2.1   |
| 31          | 3.0   | ---      | 8.7   | 9.4   | ---     | 7.6     | ---       | 3.6      | ---  | 2.5   | 1.9  | ---   |
| TOTAL       | 96.1  | 147.5    | 203.2 | 483.9 | 276.2   | 293.8   | 520.5     | 192.2    | 87.5 | 107.5 | 85.6 | 121.7 |
| MEAN        | 3.10  | 4.92     | 6.55  | 15.6  | 9.52    | 9.48    | 17.4      | 6.20     | 2.92 | 3.47  | 2.76 | 4.06  |
| MAX         | 4.2   | 19       | 23    | 98    | 30      | 21      | 113       | 9.2      | 5.5  | 8.7   | 6.7  | 13    |
| MIN         | 2.5   | 3.0      | 4.2   | 8.4   | 6.0     | 6.0     | 9.1       | 3.6      | 1.7  | 1.7   | 1.4  | 1.7   |
| CFSM        | .31   | .49      | .66   | 1.56  | .95     | .95     | 1.74      | .62      | .29  | .35   | .28  | .41   |
| IN.         | .36   | .55      | .76   | 1.80  | 1.03    | 1.09    | 1.94      | .72      | .33  | .40   | .32  | .45   |
| CAL YR 1987 | TOTAL | 4081.7   | MEAN  | 11.2  | MAX 185 | MIN 1.2 | CFSM 1.12 | IN 15.20 |      |       |      |       |
| WTR YR 1988 | TOTAL | 2615.7</ |       |       |         |         |           |          |      |       |      |       |

## MOBILE RIVER BASIN

02381950 SCARECORN CREEK ABOVE HINTON, GA.

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.

DRAINAGE AREA.--6.4 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Elevation of gage is 1,120 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 241 ft<sup>3</sup>/s, Sept. 3, 1986, gage height, 2.83 ft; minimum daily discharge, 0.12 ft<sup>3</sup>/s, July 22, 23, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.61 ft, Jan. 20, discharge not determined; minimum daily discharge, 0.16 ft<sup>3</sup>/s, Sept. 2.

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           | .98   | 1.1     | 1.5       | 8.3     | 3.2     | 2.9      | 4.9      | 3.6  | 1.0   | .44   | .53   | .20   |
| 2           | .91   | 1.2     | 1.4       | 9.6     | 6.3     | 2.9      | 5.4      | 3.6  | 1.0   | .55   | .51   | .16   |
| 3           | .72   | 1.3     | 1.4       | 7.2     | 11      | 3.1      | 5.0      | 3.2  | .95   | .81   | .91   | .77   |
| 4           | .66   | 1.5     | 1.4       | 8.9     | 22      | 4.8      | 6.7      | 3.6  | .88   | .85   | .69   | 8.3   |
| 5           | .73   | 1.5     | 1.3       | 6.9     | 20      | 3.9      | 5.7      | 3.7  | .85   | .84   | .99   | 3.6   |
| 6           | .66   | 1.5     | 1.4       | 5.2     | 11      | 3.3      | 5.9      | 3.1  | .76   | .61   | .61   | 1.1   |
| 7           | .62   | 1.5     | 1.4       | 6.2     | 8.3     | 3.1      | 5.2      | 2.8  | .76   | .44   | .53   | .66   |
| 8           | .65   | 1.6     | 1.3       | 5.1     | 7.1     | 3.0      | 4.7      | 2.6  | .74   | .32   | .62   | .46   |
| 9           | .62   | 1.7     | 1.5       | 3.7     | 6.3     | 7.3      | 4.0      | 2.8  | .67   | .28   | .79   | .57   |
| 10          | .55   | 5.6     | 1.7       | 3.3     | 5.6     | 20       | 3.6      | 3.3  | .67   | .27   | .53   | .86   |
| 11          | .53   | 2.0     | 1.5       | 2.9     | 5.1     | 14       | 9.1      | 2.6  | .70   | .35   | .39   | 1.2   |
| 12          | .47   | 1.2     | 1.4       | 3.1     | 4.8     | 10       | 51       | 2.4  | .58   | .55   | .39   | 4.0   |
| 13          | .53   | 1.1     | 1.3       | 6.7     | 4.1     | 10       | 33       | 2.3  | .55   | 1.3   | .37   | 3.8   |
| 14          | .60   | 1.1     | 1.4       | 7.2     | 4.0     | 8.5      | 14       | 2.3  | .52   | 1.4   | .33   | 1.3   |
| 15          | .47   | 1.1     | 7.0       | 5.6     | 5.7     | 7.4      | 9.6      | 2.1  | .50   | .58   | .28   | .88   |
| 16          | .51   | 1.2     | 4.3       | 4.8     | 4.9     | 6.6      | 8.0      | 2.0  | .55   | .46   | .28   | .78   |
| 17          | .58   | 14      | 2.3       | 16      | 4.0     | 6.0      | 7.0      | 3.1  | .70   | .43   | .28   | 3.5   |
| 18          | .61   | 4.3     | 1.9       | 30      | 4.0     | 6.3      | 9.8      | 2.2  | .75   | .37   | .27   | 3.7   |
| 19          | .63   | 2.0     | 1.9       | 27      | 4.8     | 6.5      | 16       | 2.1  | .98   | .37   | .25   | 1.8   |
| 20          | .67   | 1.9     | 2.2       | 122     | 4.4     | 5.6      | 13       | 2.0  | .82   | .35   | .48   | 2.4   |
| 21          | .55   | 1.6     | 3.0       | 39      | 3.8     | 5.3      | 10       | 1.8  | .64   | 4.5   | .58   | 3.8   |
| 22          | .53   | 1.5     | 2.8       | 14      | 3.9     | 4.9      | 8.4      | 1.7  | .58   | 3.9   | .64   | 1.5   |
| 23          | .58   | 1.5     | 2.2       | 8.1     | 3.9     | 4.7      | 7.5      | 1.9  | .51   | 5.7   | .47   | 1.1   |
| 24          | .57   | 1.5     | 3.8       | 6.5     | 3.7     | 4.6      | 8.1      | 2.3  | .47   | 1.2   | .53   | 1.0   |
| 25          | .59   | 1.5     | 5.7       | 6.5     | 3.4     | 5.4      | 6.4      | 2.2  | .44   | .72   | .42   | 1.1   |
| 26          | .73   | 1.7     | 4.5       | 5.3     | 3.3     | 5.9      | 6.0      | 1.8  | .43   | .66   | .31   | .91   |
| 27          | 1.2   | 2.1     | 8.8       | 4.2     | 3.3     | 4.8      | 5.3      | 1.5  | .48   | .66   | .25   | .75   |
| 28          | 1.0   | 1.8     | 33        | 3.7     | 3.3     | 4.3      | 4.5      | 1.4  | .44   | .75   | .23   | .67   |
| 29          | .98   | 1.7     | 10        | 3.6     | 3.2     | 4.0      | 4.1      | 1.3  | .41   | .65   | .23   | .66   |
| 30          | 1.0   | 1.5     | 5.9       | 3.3     | ---     | 4.0      | 3.8      | 1.1  | .43   | .75   | .24   | .66   |
| 31          | 1.0   | ---     | 4.2       | 3.3     | ---     | 3.9      | ---      | 1.1  | ---   | .78   | .25   | ---   |
| TOTAL       | 21.43 | 64.8    | 123.4     | 387.2   | 178.4   | 187.0    | 285.7    | 73.5 | 19.76 | 31.84 | 14.18 | 52.19 |
| MEAN        | .69   | 2.16    | 3.98      | 12.5    | 6.15    | 6.03     | 9.52     | 2.37 | .66   | 1.03  | .46   | 1.74  |
| MAX         | 1.2   | 14      | 33        | 122     | 22      | 20       | 51       | 3.7  | 1.0   | 5.7   | .99   | 8.3   |
| MIN         | .47   | 1.1     | 1.3       | 2.9     | 3.2     | 2.9      | 3.6      | 1.1  | .41   | .27   | .23   | .16   |
| CFSM        | .11   | .34     | .62       | 1.95    | .96     | .94      | 1.49     | .37  | .10   | .16   | .07   | .27   |
| IN.         | .12   | .38     | .72       | 2.25    | 1.04    | 1.09     | 1.66     | .43  | .11   | .19   | .08   | .30   |
| CAL YR 1987 | TOTAL | 2179.54 | MEAN 5.97 | MAX 113 | MIN .18 | CFSM .93 | IN 12.67 |      |       |       |       |       |
| WTR YR 1988 | TOTAL | 1439.40 | MEAN 3.93 | MAX 122 | MIN .16 | CFSM .61 | IN 8.37  |      |       |       |       |       |

## 02382000 SCARECORN CREEK AT HINTON, GA.

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.

DRAINAGE AREA.--21.1 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1939 to December 1943, May 1959 to September 1974, August 1986 to current year.

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: Feb. 1-2, 11-14, 19-22, Feb. 29 to Mar. 3. Records good, except those for the period June 20 to Sept. 30 greater than 10 ft<sup>3</sup>/s and those for periods of estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--20 years (water years 1940-1942, 1960-1974, 1987-1988), 27.4 ft<sup>3</sup>/s, 17.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.2 ft, Feb. 16, 1942 (discharge not determined); minimum daily

discharge, 0.45 ft<sup>3</sup>/s, Sept. 2, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge at 600 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height |
|---------|------|-----------------------------------|-------------|--------------------------------------------|------|-----------------------------------|-------------|
| Jan. 20 | 0200 | *880                              | *5.17       | No other peak greater than base discharge. |      |                                   |             |

Minimum daily discharge, 0.45 ft<sup>3</sup>/s, Sept. 2.

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           | 3.8   | 3.5     | 4.5       | 22      | 12      | 11       | 13       | 13    | 3.6   | 1.2    | 2.4   | .57    |
| 2           | 3.2   | 3.6     | 4.4       | 24      | 17      | 9.6      | 14       | 12    | 3.5   | 1.1    | 2.0   | .45    |
| 3           | 2.7   | 3.6     | 4.4       | 18      | 31      | 10       | 13       | 11    | 3.4   | 2.1    | 3.1   | .66    |
| 4           | 2.6   | 3.8     | 4.5       | 21      | 79      | 14       | 17       | 12    | 3.2   | 2.6    | 2.5   | 18     |
| 5           | 2.9   | 3.9     | 4.5       | 17      | 51      | 12       | 14       | 12    | 3.3   | 2.6    | 5.2   | 10     |
| 6           | 2.9   | 3.7     | 4.5       | 14      | 31      | 11       | 14       | 10    | 3.0   | 2.0    | 3.3   | 3.8    |
| 7           | 2.8   | 3.8     | 4.5       | 14      | 25      | 10       | 13       | 9.6   | 2.8   | 1.3    | 2.7   | 2.4    |
| 8           | 2.7   | 4.1     | 4.4       | 14      | 23      | 10       | 12       | 9.0   | 2.5   | .93    | 3.1   | 1.7    |
| 9           | 2.8   | 4.3     | 4.6       | 12      | 21      | 21       | 11       | 8.8   | 2.3   | .57    | 3.3   | 1.6    |
| 10          | 2.7   | 8.7     | 5.1       | 11      | 20      | 44       | 11       | 10    | 2.2   | .57    | 2.4   | 2.3    |
| 11          | 2.7   | 5.9     | 4.9       | 11      | 18      | 30       | 26       | 9.1   | 2.2   | .54    | 1.9   | 3.5    |
| 12          | 2.6   | 4.4     | 4.7       | 11      | 16      | 22       | 141      | 7.8   | 2.1   | 1.3    | 1.7   | 5.0    |
| 13          | 2.7   | 4.1     | 4.5       | 18      | 14      | 24       | 70       | 7.6   | 1.9   | 2.9    | 1.5   | 8.2    |
| 14          | 2.9   | 4.1     | 4.6       | 18      | 13      | 19       | 40       | 7.8   | 1.8   | 4.0    | 1.3   | 3.9    |
| 15          | 2.9   | 3.9     | 13        | 15      | 17      | 17       | 28       | 7.3   | 1.8   | 2.7    | 1.5   | 2.8    |
| 16          | 2.9   | 4.0     | 9.7       | 13      | 15      | 16       | 22       | 7.0   | 1.8   | 2.6    | 1.2   | 2.2    |
| 17          | 2.7   | 33      | 6.5       | 38      | 13      | 15       | 19       | 9.4   | 1.8   | 2.6    | .92   | 5.3    |
| 18          | 2.7   | 11      | 5.6       | 60      | 13      | 15       | 29       | 7.7   | 1.9   | 1.7    | .73   | 7.2    |
| 19          | 2.8   | 6.3     | 5.3       | 52      | 14      | 16       | 54       | 6.5   | 2.8   | 1.3    | .64   | 4.6    |
| 20          | 2.9   | 5.7     | 6.2       | 318     | 13      | 14       | 38       | 6.2   | 2.3   | .95    | 1.4   | 5.9    |
| 21          | 2.8   | 4.7     | 7.4       | 80      | 12      | 14       | 29       | 5.6   | 2.2   | 29     | 2.1   | 7.4    |
| 22          | 2.7   | 4.5     | 7.4       | 38      | 12      | 13       | 24       | 5.3   | 1.8   | 16     | 3.2   | 4.2    |
| 23          | 3.0   | 4.5     | 6.3       | 23      | 12      | 13       | 22       | 5.5   | 1.5   | 18     | 1.7   | 3.3    |
| 24          | 3.0   | 4.5     | 9.4       | 19      | 11      | 12       | 24       | 6.9   | 1.3   | 5.6    | 1.7   | 2.9    |
| 25          | 3.1   | 4.4     | 13        | 19      | 11      | 15       | 19       | 6.9   | 1.3   | 3.4    | 1.5   | 3.1    |
| 26          | 3.2   | 4.9     | 11        | 16      | 10      | 16       | 17       | 5.5   | 1.1   | 2.8    | .98   | 2.7    |
| 27          | 3.9   | 6.0     | 25        | 14      | 11      | 13       | 15       | 5.0   | 1.2   | 2.8    | .74   | 2.3    |
| 28          | 3.8   | 5.4     | 91        | 13      | 11      | 12       | 14       | 4.5   | .98   | 2.6    | .61   | 2.1    |
| 29          | 3.3   | 5.2     | 30        | 13      | 11      | 12       | 13       | 4.3   | .83   | 2.6    | .58   | 1.9    |
| 30          | 3.4   | 5.0     | 17        | 13      | ---     | 12       | 13       | 3.9   | .90   | 2.8    | .58   | 1.7    |
| 31          | 3.4   | ---     | 13        | 14      | ---     | 12       | ---      | 3.7   | ---   | 3.7    | .62   | ---    |
| TOTAL       | 92.5  | 174.5   | 340.9     | 983     | 557     | 484.6    | 789      | 240.9 | 63.31 | 124.86 | 57.10 | 121.68 |
| MEAN        | 2.98  | 5.82    | 11.0      | 31.7    | 19.2    | 15.6     | 26.3     | 7.77  | 2.11  | 4.03   | 1.84  | 4.06   |
| MAX         | 3.9   | 33      | 91        | 318     | 79      | 44       | 141      | 13    | 3.6   | 29     | 5.2   | 18     |
| MIN         | 2.6   | 3.5     | 4.4       | 11      | 10      | 9.6      | 11       | 3.7   | .83   | .54    | .58   | .45    |
| CFSM        | .14   | .27     | .52       | 1.49    | .90     | .73      | 1.24     | .37   | .10   | .19    | .09   | .19    |
| IN.         | .16   | .30     | .60       | 1.72    | .97     | .85      | 1.38     | .42   | .11   | .22    | .10   | .21    |
| CAL YR 1987 | TOTAL | 6709.20 | MEAN 18.4 | MAX 460 | MIN 1.2 | CFSM .86 | IN 11.72 |       |       |        |       |        |
| WTR YR 1988 | TOTAL | 4029.35 | MEAN 11.0 | MAX 318 | MIN .45 | CFSM .52 | IN 7.04  |       |       |        |       |        |

## MOBILE RIVER BASIN

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 mi<sup>2</sup>.

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 less than 50 ft<sup>3</sup>/s, which are fair.

AVERAGE DISCHARGE.--14 years (water years 1975-88), 183 ft<sup>3</sup>/s, 20.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft<sup>3</sup>/s, Mar. 4, 1979, gage height, 14.18 ft; minimum daily discharge, 6.1 ft<sup>3</sup>/s, July 11, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1973, reached a stage of 15.45 ft, from floodmarks; discharge, 18,400 ft<sup>3</sup>/s from rating curve extended above 3,100 ft<sup>3</sup>/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 ft<sup>3</sup>/s, and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20 | 0415 | *2,530                            | *5.90               | No other peak greater than base discharge. |      |                                   |                     |

Minimum daily discharge, 6.1 ft<sup>3</sup>/s, July 11.

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           | 28    | 24      | 31   | 109  | 69   | 59   | 78   | 76   | 32   | 14    | 17   | 11    |
| 2           | 23    | 24      | 30   | 125  | 97   | 57   | 89   | 73   | 30   | 18    | 15   | 9.6   |
| 3           | 21    | 24      | 29   | 91   | 174  | 60   | 82   | 69   | 28   | 22    | 15   | 9.0   |
| 4           | 19    | 24      | 30   | 104  | 355  | 77   | 111  | 72   | 26   | 26    | 32   | 78    |
| 5           | 20    | 23      | 29   | 85   | 256  | 72   | 96   | 74   | 25   | 28    | 59   | 72    |
| 6           | 20    | 22      | 28   | 69   | 168  | 68   | 96   | 65   | 24   | 24    | 31   | 31    |
| 7           | 19    | 22      | 28   | 70   | 130  | 66   | 94   | 62   | 23   | 18    | 27   | 20    |
| 8           | 18    | 22      | 28   | 83   | 114  | 63   | 86   | 59   | 22   | 13    | 40   | 16    |
| 9           | 18    | 23      | 29   | 68   | 102  | 111  | 81   | 59   | 20   | 8.7   | 29   | 14    |
| 10          | 19    | 48      | 32   | 63   | 93   | 195  | 78   | 66   | 20   | 7.1   | 22   | 17    |
| 11          | 19    | 41      | 31   | 60   | 87   | 152  | 110  | 59   | 20   | 6.1   | 18   | 21    |
| 12          | 19    | 28      | 29   | 63   | 82   | 117  | 844  | 55   | 19   | 14    | 24   | 28    |
| 13          | 19    | 25      | 29   | 90   | 75   | 158  | 320  | 54   | 19   | 28    | 19   | 45    |
| 14          | 19    | 25      | 31   | 108  | 73   | 124  | 206  | 55   | 18   | 29    | 16   | 26    |
| 15          | 18    | 24      | 73   | 83   | 85   | 103  | 161  | 54   | 17   | 24    | 14   | 19    |
| 16          | 18    | 24      | 69   | 71   | 83   | 94   | 136  | 53   | 15   | 27    | 13   | 17    |
| 17          | 19    | 158     | 48   | 179  | 73   | 87   | 120  | 53   | 14   | 45    | 13   | 31    |
| 18          | 19    | 79      | 42   | 291  | 71   | 86   | 154  | 51   | 25   | 22    | 12   | 54    |
| 19          | 18    | 48      | 39   | 211  | 73   | 90   | 281  | 46   | 53   | 18    | 11   | 37    |
| 20          | 19    | 40      | 42   | 1210 | 72   | 81   | 219  | 46   | 37   | 14    | 22   | 33    |
| 21          | 21    | 35      | 50   | 304  | 69   | 75   | 175  | 45   | 34   | 44    | 50   | 38    |
| 22          | 20    | 33      | 50   | 179  | 68   | 73   | 148  | 41   | 30   | 81    | 25   | 26    |
| 23          | 20    | 31      | 44   | 127  | 68   | 70   | 136  | 43   | 26   | 71    | 20   | 22    |
| 24          | 21    | 31      | 55   | 103  | 67   | 70   | 136  | 47   | 24   | 39    | 21   | 22    |
| 25          | 22    | 30      | 102  | 104  | 63   | 92   | 112  | 54   | 23   | 26    | 22   | 21    |
| 26          | 21    | 32      | 71   | 92   | 62   | 106  | 102  | 45   | 21   | 22    | 16   | 22    |
| 27          | 24    | 37      | 90   | 80   | 61   | 85   | 94   | 40   | 20   | 24    | 14   | 19    |
| 28          | 27    | 39      | 307  | 78   | 60   | 77   | 86   | 38   | 15   | 31    | 12   | 18    |
| 29          | 25    | 35      | 143  | 73   | 59   | 73   | 82   | 36   | 14   | 24    | 12   | 17    |
| 30          | 25    | 33      | 86   | 70   | ---  | 71   | 79   | 34   | 12   | 23    | 12   | 16    |
| 31          | 24    | ---     | 68   | 69   | ---  | 72   | ---  | 33   | ---  | 21    | 11   | ---   |
| TOTAL       | 642   | 1084    | 1793 | 4512 | 2909 | 2784 | 4592 | 1657 | 706  | 811.9 | 664  | 809.6 |
| MEAN        | 20.7  | 36.1    | 57.8 | 146  | 100  | 89.8 | 153  | 53.5 | 23.5 | 26.2  | 21.4 | 27.0  |
| MAX         | 28    | 158     | 307  | 1210 | 355  | 195  | 844  | 76   | 53   | 81    | 59   | 78    |
| MIN         | 18    | 22      | 28   | 60   | 59   | 57   | 78   | 33   | 12   | 6.1   | 11   | 9.0   |
| CFSM        | .17   | .30     | .49  | 1.23 | .84  | .76  | 1.29 | .45  | .20  | .22   | .18  | .23   |
| IN.         | .20   | .34     | .56  | 1.41 | .91  | .87  | 1.44 | .52  | .22  | .25   | .21  | .25   |
| CAL YR 1987 | TOTAL | 39515.7 | MEAN | 108  | MAX  | 1990 | MIN  | 6.2  | CFSM | .91   | IN   | 12.35 |
| WTR YR 1988 | TOTAL | 22964.5 | MEAN | 62.7 | MAX  | 1210 | MIN  | 6.1  | CFSM | .53   | IN   | 7.18  |



## 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, 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 mi<sup>2</sup>.

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.--41 years (water years 1897-1908, 1919-23, 1962-71, 1975-88), 1,173 ft<sup>3</sup>/s, 30.57 in/yr, adjusted for storage since 1975.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,500 ft<sup>3</sup>/s Nov. 19, 1906, gage height, 30.6 ft, present datum; minimum daily, 122 ft<sup>3</sup>/s, regulated Nov. 15, 1974; minimum discharge observed prior to regulation, 184 ft<sup>3</sup>/s several days during September to November 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29 or 30, 1951, reached a stage of about 36 ft, from floodmarks; discharge 57,000 ft<sup>3</sup>/s, from rating curve extended above 24,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,730 ft<sup>3</sup>/s, Apr. 14, gage height, 6.78 ft; minimum daily discharge, 215 ft<sup>3</sup>/s, Dec. 14.

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                 | 353    | 318  | 333      | 283      | 348     | 377       | 345        | 826        | 360  | 311   | 348   | 333   |
| 2                 | 352    | 278  | 308      | 295      | 382     | 379       | 369        | 751        | 322  | 323   | 358   | 348   |
| 3                 | 353    | 295  | 317      | 321      | 383     | 379       | 369        | 715        | 339  | 324   | 364   | 356   |
| 4                 | 320    | 319  | 295      | 278      | 382     | 382       | 446        | 771        | 335  | 298   | 370   | 357   |
| 5                 | 287    | 311  | 317      | 277      | 403     | 387       | 505        | 757        | 325  | 309   | 345   | 300   |
| 6                 | 298    | 293  | 346      | 290      | 410     | 371       | 476        | 633        | 318  | 309   | 351   | 299   |
| 7                 | 287    | 290  | 295      | 289      | 370     | 373       | 483        | 371        | 336  | 318   | 350   | 314   |
| 8                 | 294    | 295  | 307      | 303      | 683     | 369       | 489        | 357        | 343  | 353   | 332   | 343   |
| 9                 | 314    | 316  | 263      | 319      | 1120    | 343       | 492        | 358        | 330  | 348   | 342   | 318   |
| 10                | 316    | 300  | 264      | 297      | 1140    | 375       | 486        | 353        | 338  | 312   | 371   | 341   |
| 11                | 307    | 306  | 261      | 301      | 1150    | 389       | 566        | 347        | 350  | 301   | 357   | 351   |
| 12                | 321    | 316  | 258      | 310      | 932     | 372       | 796        | 357        | 321  | 324   | 343   | 344   |
| 13                | 329    | 308  | 242      | 289      | 709     | 345       | 1350       | 360        | 318  | 325   | 352   | 344   |
| 14                | 306    | 296  | 215      | 308      | 734     | 351       | 1660       | 362        | 317  | 327   | 323   | 355   |
| 15                | 288    | 284  | 276      | 320      | 647     | 416       | 1470       | 357        | 310  | 303   | 323   | 323   |
| 16                | 369    | 286  | 318      | 289      | 693     | 390       | 1010       | 343        | 315  | 293   | 327   | 343   |
| 17                | 664    | 283  | 291      | 294      | 698     | 377       | 1020       | 329        | 323  | 285   | 337   | 329   |
| 18                | 317    | 284  | 313      | 272      | 676     | 351       | 1120       | 353        | 355  | 294   | 345   | 322   |
| 19                | 291    | 267  | 312      | 273      | 669     | 347       | 1130       | 370        | 324  | 310   | 332   | 362   |
| 20                | 339    | 280  | 283      | 311      | 668     | 338       | 1070       | 371        | 333  | 329   | 333   | 374   |
| 21                | 309    | 298  | 278      | 294      | 667     | 352       | 1040       | 363        | 323  | 332   | 321   | 356   |
| 22                | 288    | 281  | 283      | 308      | 580     | 356       | 1030       | 325        | 337  | 343   | 325   | 323   |
| 23                | 292    | 284  | 291      | 296      | 466     | 373       | 1070       | 308        | 368  | 377   | 331   | 348   |
| 24                | 291    | 301  | 296      | 285      | 403     | 388       | 1040       | 352        | 347  | 348   | 358   | 326   |
| 25                | 281    | 296  | 301      | 298      | 377     | 383       | 1050       | 344        | 330  | 327   | 358   | 318   |
| 26                | 282    | 298  | 317      | 338      | 386     | 379       | 1050       | 344        | 310  | 324   | 340   | 327   |
| 27                | 304    | 282  | 287      | 364      | 396     | 375       | 1070       | 360        | 319  | 348   | 317   | 349   |
| 28                | 291    | 280  | 308      | 373      | 376     | 375       | 1020       | 360        | 330  | 375   | 304   | 355   |
| 29                | 308    | 268  | 301      | 384      | 372     | 353       | 1000       | 338        | 319  | 395   | 325   | 378   |
| 30                | 330    | 286  | 319      | 381      | ---     | 357       | 862        | 324        | 302  | 370   | 318   | 336   |
| 31                | 332    | ---  | 285      | 339      | ---     | 350       | ---        | 326        | ---  | 336   | 325   | ---   |
| TOTAL             | 10013  | 8799 | 9080     | 9579     | 17220   | 11452     | 25884      | 13185      | 9897 | 10171 | 10525 | 10172 |
| MEAN              | 323    | 293  | 293      | 309      | 594     | 369       | 863        | 425        | 330  | 328   | 340   | 339   |
| MAX               | 664    | 319  | 346      | 384      | 1150    | 416       | 1660       | 826        | 368  | 395   | 371   | 378   |
| MIN               | 281    | 267  | 215      | 272      | 348     | 338       | 345        | 308        | 302  | 285   | 304   | 299   |
| MEAN†             | 175    | 251  | 359      | 863      | 587     | 632       | 828        | 379        | 219  | 227   | 244   | 305   |
| CFSM†             | .34    | .48  | .69      | 1.66     | 1.13    | 1.21      | 1.59       | .73        | .42  | .44   | .47   | .59   |
| INT†              | .39    | .54  | .80      | 1.91     | 1.22    | 1.40      | 1.77       | .84        | .47  | .51   | .54   | .66   |
| CAL YR 1987 TOTAL | 267867 |      | MEAN 734 | MAX 3700 | MIN 215 | MEAN† 686 | CFSM† 1.32 | INT† 17.87 |      |       |       |       |
| WTR YR 1988 TOTAL | 145977 |      | MEAN 399 | MAX 1660 | MIN 215 | MEAN† 421 | CFSM† .81  | INT† 11.00 |      |       |       |       |

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.



## MOBILE RIVER BASIN

## 02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.

LOCATION.--Lat 34°33'51", long 84°49'59", Gordon County, Hydrologic Unit 03150102, on right bank at downstream side of highway bridge, 1.4 mi downstream from Sallacoa Creek, 8.7 mi upstream from confluence with Conasauga River, and 2.4 mi east of Pine Chapel.

DRAINAGE AREA.--831 mi<sup>2</sup>.

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 Oostanula River at Resaca used as auxiliary gage, due to bridge construction.

REMARKS.--Estimated daily discharges: Nov. 3 to Dec. 15. 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.--50 years, 1,464 ft<sup>3</sup>/s, 23.92 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,200 ft<sup>3</sup>/s, Mar. 30, 1951, gage height, 34.2 ft at current base gage, 30 ft at current auxiliary gage; minimum daily discharge, 188 ft<sup>3</sup>/s, Sept. 11, 1976, minimum unregulated daily discharge, 220 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,290 ft<sup>3</sup>/s, Jan. 21, gage height, 14.43 ft; minimum daily discharge, 286 ft<sup>3</sup>/s, Dec. 14.

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                 | 398    | 355   | 387   | 463   | 507   | 509     | 500   | 1010  | 369    | 306   | 354   | 365   |
| 2                 | 400    | 316   | 364   | 523   | 580   | 512     | 530   | 956   | 395    | 324   | 401   | 386   |
| 3                 | 393    | 308   | 373   | 545   | 880   | 516     | 529   | 877   | 363    | 332   | 403   | 400   |
| 4                 | 374    | 330   | 367   | 546   | 1600  | 546     | 570   | 902   | 374    | 324   | 405   | 547   |
| 5                 | 338    | 362   | 353   | 521   | 1630  | 569     | 678   | 938   | 360    | 302   | 422   | 511   |
| 6                 | 325    | 330   | 410   | 464   | 1060  | 540     | 651   | 896   | 345    | 317   | 395   | 423   |
| 7                 | 332    | 319   | 365   | 481   | 852   | 501     | 638   | 520   | 357    | 307   | 445   | 415   |
| 8                 | 326    | 312   | 368   | 468   | 803   | 516     | 639   | 458   | 382    | 334   | 393   | 426   |
| 9                 | 326    | 342   | 335   | 476   | 1420  | 625     | 631   | 452   | 363    | 366   | 395   | 418   |
| 10                | 359    | 343   | 319   | 462   | 1470  | 960     | 622   | 443   | 355    | 354   | 417   | 429   |
| 11                | 341    | 343   | 317   | 432   | 1440  | 1060    | 653   | 446   | 380    | 309   | 427   | 445   |
| 12                | 360    | 338   | 324   | 449   | 1350  | 829     | 2310  | 444   | 363    | 320   | 385   | 466   |
| 13                | 353    | 346   | 311   | 514   | 978   | 1330    | 2590  | 437   | 335    | 370   | 394   | 651   |
| 14                | 346    | 342   | 286   | 670   | 959   | 888     | 2300  | 434   | 338    | 347   | 381   | 482   |
| 15                | 327    | 319   | 329   | 605   | 908   | 782     | 2080  | 439   | 324    | 324   | 346   | 399   |
| 16                | 316    | 326   | 446   | 520   | 936   | 706     | 1460  | 422   | 333    | 334   | 369   | 385   |
| 17                | 699    | 356   | 416   | 749   | 936   | 648     | 1310  | 405   | 332    | 351   | 368   | 441   |
| 18                | 461    | 410   | 392   | 1890  | 897   | 616     | 1420  | 400   | 368    | 302   | 395   | 421   |
| 19                | 322    | 333   | 393   | 1130  | 885   | 590     | 2190  | 423   | 372    | 329   | 369   | 441   |
| 20                | 337    | 334   | 380   | 3400  | 931   | 571     | 1940  | 440   | 342    | 325   | 402   | 450   |
| 21                | 377    | 347   | 370   | 3230  | 912   | 551     | 1580  | 422   | 346    | 361   | 388   | 503   |
| 22                | 299    | 328   | 372   | 1040  | 854   | 538     | 1450  | 398   | 337    | 359   | 361   | 399   |
| 23                | 324    | 334   | 370   | 793   | 667   | 535     | 1410  | 365   | 375    | 410   | 373   | 389   |
| 24                | 316    | 346   | 393   | 672   | 618   | 539     | 1370  | 397   | 386    | 401   | 401   | 387   |
| 25                | 310    | 359   | 449   | 644   | 532   | 558     | 1340  | 409   | 335    | 347   | 399   | 367   |
| 26                | 302    | 358   | 448   | 647   | 538   | 632     | 1320  | 392   | 351    | 349   | 404   | 358   |
| 27                | 327    | 356   | 449   | 610   | 545   | 605     | 1300  | 403   | 316    | 353   | 362   | 392   |
| 28                | 326    | 346   | 850   | 592   | 542   | 562     | 1260  | 410   | 337    | 426   | 365   | 374   |
| 29                | 320    | 345   | 738   | 590   | 514   | 544     | 1220  | 393   | 321    | 445   | 345   | 417   |
| 30                | 353    | 327   | 540   | 587   | ---   | 503     | 1100  | 371   | 324    | 412   | 353   | 382   |
| 31                | 365    | ---   | 453   | 547   | ---   | 523     | ---   | 365   | ---    | 390   | 359   | ---   |
| TOTAL             | 11052  | 10210 | 12667 | 25260 | 26744 | 19904   | 37591 | 16067 | 10578  | 10830 | 11976 | 12869 |
| MEAN              | 357    | 340   | 409   | 815   | 922   | 642     | 1253  | 518   | 353    | 349   | 386   | 429   |
| MAX               | 699    | 410   | 850   | 3400  | 1630  | 1330    | 2590  | 1010  | 395    | 445   | 445   | 651   |
| MIN               | 299    | 308   | 286   | 432   | 507   | 501     | 500   | 365   | 316    | 302   | 345   | 358   |
| CAL YR 1987 TOTAL | 383156 |       |       | 1050  | 8350  | MIN 286 | MEAN† | 1002  | CFSMT† | 1.21  | IN†   | 16.37 |
| WTR YR 1988 TOTAL | 205748 |       |       | 562   | 3400  | MIN 286 | MEAN† | 584   | CFSMT† | .70   | IN†   | 9.57  |

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

## MOBILE RIVER BASIN

309

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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1215 | 334                                             | 73                                                | 74                                                       | 7.40                           | 7.00                                  | 15.0                                 | 19.0                               | 8.1                                 | 82                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 0950 | 331                                             | 75                                                | 76                                                       | 7.40                           | 7.50                                  | 8.0                                  | 14.0                               | 10.4                                | 88                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 30... | 1120 | 539                                             | 95                                                | 91                                                       | 7.40                           | 7.50                                  | 9.0                                  | 7.5                                | 9.0                                 | 78                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1415 | 598                                             | 110                                               | 111                                                      | 7.50                           | 7.50                                  | 5.0                                  | 9.0                                | 10.6                                | 83                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1120 | 674                                             | 86                                                | 84                                                       | 7.40                           | 7.50                                  | 8.5                                  | 15.5                               | 11.8                                | 103                                                            |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1015 | 561                                             | 90                                                | 92                                                       | 7.20                           | 7.80                                  | 13.5                                 | 21.5                               | 10.6                                | 103                                                            |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 0815 | 1300                                            | 66                                                | 65                                                       | 6.90                           | 7.20                                  | 14.5                                 | 17.0                               | 10.2                                | 103                                                            |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 25... | 1200 | 411                                             | 80                                                | 81                                                       | 7.50                           | 7.50                                  | 19.5                                 | 23.0                               | 6.6                                 | 73                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1215 | 342                                             | 62                                                | 61                                                       | 7.00                           | 7.30                                  | 23.0                                 | 28.0                               | 8.0                                 | 95                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 1030 | 378                                             | 61                                                | 62                                                       | 7.30                           | 7.40                                  | 22.5                                 | 29.5                               | 7.9                                 | 93                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 0915 | 411                                             | 77                                                | 84                                                       | 7.20                           | 7.50                                  | 21.5                                 | 20.5                               | 7.9                                 | 91                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+N03<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 27... | 5.0                          | 1.7                                                            | --                                               | 27                                              | 1                                                                 | 26                                                            | 0.170                                                | <0.020                                               | 0.030                                       | --                                            |
| NOV   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 23... | 4.0                          | 1.8                                                            | 50                                               | 27                                              | 0                                                                 | 29                                                            | 0.190                                                | 0.030                                                | <0.020                                      | 2.1                                           |
| DEC   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 30... | 20                           | --                                                             | --                                               | 39                                              | 9                                                                 | 30                                                            | 0.360                                                | 0.030                                                | 0.060                                       | 3.8                                           |
| JAN   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 27... | 16                           | 1.1                                                            | 80                                               | 160                                             | 120                                                               | 40                                                            | 0.530                                                | 0.080                                                | 0.040                                       | 1.9                                           |
| FEB   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 23... | 6.0                          | 0.9                                                            | <20                                              | 36                                              | 5                                                                 | 31                                                            | 0.350                                                | 0.040                                                | <0.020                                      | 2.2                                           |
| MAR   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 29... | 4.0                          | 0.6                                                            | 80                                               | 45                                              | 8                                                                 | 37                                                            | 0.250                                                | <0.020                                               | <0.020                                      | 2.4                                           |
| APR   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 26... | 13                           | 1.4                                                            | --                                               | 30                                              | 7                                                                 | 23                                                            | 0.250                                                | 0.040                                                | 0.040                                       | 1.9                                           |
| MAY   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 25... | 24                           | 1.7                                                            | 80                                               | 33                                              | 3                                                                 | 30                                                            | 0.270                                                | 0.050                                                | <0.020                                      | 1.9                                           |
| JUN   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 28... | 7.0                          | 1.0                                                            | --                                               | 36                                              | 13                                                                | 23                                                            | 0.210                                                | 0.020                                                | <0.020                                      | 4.1                                           |
| JUL   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 26... | 7.0                          | 1.0                                                            | 80                                               | 21                                              | 0                                                                 | 21                                                            | 0.190                                                | <0.020                                               | <0.020                                      | 2.0                                           |
| SEP   |                              |                                                                |                                                  |                                                 |                                                                   |                                                               |                                                      |                                                      |                                             |                                               |
| 27... | 7.0                          | 2.0                                                            | 330                                              | 36                                              | 10                                                                | 26                                                            | 0.280                                                | 0.040                                                | <0.020                                      | 1.6                                           |

## MOBILE RIVER BASIN

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 mi<sup>2</sup>.

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: Dec. 28 to Jan. 6, and Mar. 15-16. Records good, except those for periods of estimated discharges, which are fair.

AVERAGE DISCHARGE.--7 years (1982-88), 396 ft<sup>3</sup>/s, 21.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,200 ft<sup>3</sup>/s, Mar. 17, 1973, gage height, 18.59 ft, present datum; minimum discharge, 23 ft<sup>3</sup>/s, July 11, 1988.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 21 | 0600 | *4,940                            | *12.10              | No other peak greater than base discharge. |      |                                   |                     |

Minimum discharge, 23 ft<sup>3</sup>/s, July 11, minimum gage height, 1.98 ft, Oct. 13.

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     | 99   | 50   | 53   | 178   | 165  | 116  | 140  | 128  | 66   | 26   | 46   | 66   |
| 2     | 69   | 49   | 51   | 239   | 175  | 110  | 183  | 123  | 65   | 28   | 42   | 54   |
| 3     | 47   | 48   | 49   | 289   | 445  | 108  | 184  | 118  | 64   | 35   | 39   | 57   |
| 4     | 39   | 48   | 46   | 258   | 446  | 113  | 205  | 123  | 60   | 41   | 77   | 323  |
| 5     | 36   | 47   | 45   | 214   | 429  | 133  | 201  | 203  | 56   | 53   | 163  | 1120 |
| 6     | 34   | 46   | 45   | 152   | 370  | 125  | 186  | 154  | 55   | 64   | 141  | 479  |
| 7     | 33   | 45   | 45   | 139   | 288  | 117  | 226  | 132  | 54   | 46   | 117  | 266  |
| 8     | 33   | 48   | 45   | 150   | 265  | 113  | 186  | 124  | 51   | 38   | 71   | 172  |
| 9     | 32   | 45   | 45   | 162   | 229  | 118  | 164  | 120  | 50   | 33   | 63   | 129  |
| 10    | 32   | 61   | 45   | 162   | 203  | 546  | 146  | 135  | 48   | 28   | 135  | 109  |
| 11    | 32   | 69   | 45   | 154   | 184  | 718  | 144  | 147  | 46   | 24   | 84   | 100  |
| 12    | 33   | 92   | 45   | 123   | 176  | 482  | 296  | 136  | 46   | 29   | 64   | 202  |
| 13    | 32   | 70   | 45   | 126   | 173  | 678  | 506  | 119  | 43   | 39   | 52   | 171  |
| 14    | 32   | 57   | 45   | 240   | 148  | 589  | 371  | 115  | 42   | 136  | 51   | 94   |
| 15    | 32   | 51   | 57   | 184   | 160  | 500  | 290  | 119  | 40   | 95   | 43   | 80   |
| 16    | 32   | 48   | 146  | 137   | 234  | 420  | 245  | 113  | 39   | 66   | 41   | 71   |
| 17    | 33   | 56   | 95   | 202   | 218  | 273  | 207  | 110  | 38   | 49   | 58   | 82   |
| 18    | 32   | 91   | 71   | 955   | 194  | 271  | 208  | 101  | 36   | 56   | 55   | 136  |
| 19    | 33   | 104  | 66   | 1020  | 185  | 226  | 504  | 95   | 38   | 44   | 45   | 143  |
| 20    | 40   | 70   | 63   | 3440  | 196  | 202  | 599  | 90   | 72   | 36   | 511  | 116  |
| 21    | 44   | 58   | 78   | 3530  | 186  | 177  | 452  | 87   | 63   | 37   | 707  | 101  |
| 22    | 70   | 53   | 76   | 718   | 167  | 160  | 353  | 84   | 53   | 41   | 289  | 90   |
| 23    | 63   | 50   | 79   | 461   | 154  | 148  | 285  | 82   | 48   | 109  | 177  | 78   |
| 24    | 49   | 48   | 103  | 357   | 155  | 142  | 245  | 91   | 40   | 70   | 130  | 80   |
| 25    | 45   | 47   | 155  | 357   | 147  | 140  | 205  | 99   | 35   | 57   | 102  | 107  |
| 26    | 46   | 47   | 192  | 354   | 134  | 157  | 182  | 111  | 34   | 45   | 86   | 146  |
| 27    | 47   | 47   | 329  | 275   | 129  | 152  | 167  | 89   | 35   | 41   | 72   | 107  |
| 28    | 46   | 48   | 343  | 230   | 124  | 133  | 151  | 82   | 28   | 64   | 62   | 92   |
| 29    | 48   | 53   | 269  | 207   | 120  | 126  | 139  | 77   | 26   | 64   | 55   | 82   |
| 30    | 51   | 55   | 193  | 187   | ---  | 123  | 133  | 72   | 27   | 51   | 50   | 76   |
| 31    | 52   | ---  | 152  | 174   | ---  | 138  | ---  | 69   | ---  | 44   | 80   | ---  |
| TOTAL | 1346 | 1701 | 3116 | 15374 | 6199 | 7554 | 7503 | 3448 | 1398 | 1589 | 3708 | 4929 |
| MEAN  | 43.4 | 56.7 | 101  | 496   | 214  | 244  | 250  | 111  | 46.6 | 51.3 | 120  | 164  |
| MAX   | 99   | 104  | 343  | 3530  | 446  | 718  | 599  | 203  | 72   | 136  | 707  | 1120 |
| MIN   | 32   | 45   | 45   | 123   | 120  | 108  | 133  | 69   | 26   | 24   | 39   | 54   |
| CFSM  | .17  | .23  | .40  | 1.97  | .85  | .97  | .99  | .44  | .19  | .20  | .48  | .65  |
| IN.   | .20  | .25  | .46  | 2.27  | .92  | 1.12 | 1.11 | .51  | .21  | .23  | .55  | .73  |

|             |       |        |          |          |        |           |          |
|-------------|-------|--------|----------|----------|--------|-----------|----------|
| CAL YR 1987 | TOTAL | 115435 | MEAN 316 | MAX 5520 | MIN 27 | CFSM 1.25 | IN 17.04 |
| WTR YR 1988 | TOTAL | 57865  | MEAN 158 | MAX 3530 | MIN 24 | CFSM .63  | IN 8.54  |

## 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 mi<sup>2</sup>.

## 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.--Estimated daily discharges: Oct. 5-19, Nov. 7-9, Dec. 3-7. Records fair, except those for the period affected by beaverdams, Feb. 3 to June 8, and those for periods of estimated record, which are fair to poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 363 ft<sup>3</sup>/s, Jan. 20, 1988, gage height, 3.81 ft; minimum daily discharge, 0.55 ft<sup>3</sup>/s, Oct. 10, 1987.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20 | 0200 | *363                              | *3.81               | No other peak greater than base discharge. |      |                                   |                     |

Minimum daily discharge, 0.55 ft<sup>3</sup>/s, Oct. 10.

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     | 1.5   | 1.1   | 1.4   | 19    | 12    | 7.6   | 12    | 5.8   | 1.6   | 1.3   | 1.3   | 3.3   |
| 2     | 1.2   | 1.1   | 1.3   | 22    | 19    | 7.3   | 12    | 6.0   | 1.5   | 1.1   | 1.3   | 2.7   |
| 3     | 1.1   | .96   | 1.2   | 13    | 28    | 7.7   | 12    | 5.8   | 1.3   | 1.7   | 2.9   | 15    |
| 4     | 1.1   | .96   | 1.1   | 13    | 24    | 7.9   | 11    | 11    | 1.2   | 3.4   | 2.2   | 152   |
| 5     | 1.0   | .99   | 1.1   | 9.7   | 20    | 7.6   | 10    | 8.1   | 1.9   | 2.4   | 2.8   | 71    |
| 6     | .95   | .95   | 1.1   | 7.6   | 17    | 7.7   | 11    | 7.9   | 1.8   | 1.8   | 3.5   | 29    |
| 7     | .90   | .90   | 1.2   | 12    | 20    | 7.8   | 11    | 6.4   | 1.6   | 1.3   | 11    | 18    |
| 8     | .75   | .85   | 1.3   | 13    | 13    | 11    | 10    | 5.9   | 1.7   | 1.1   | 5.3   | 13    |
| 9     | .65   | .90   | 1.5   | 7.0   | 12    | 11    | 9.8   | 7.6   | 1.9   | .94   | 2.9   | 11    |
| 10    | .55   | 4.3   | 1.5   | 5.8   | 11    | 22    | 9.5   | 9.2   | 2.2   | .87   | 2.1   | 9.2   |
| 11    | .60   | 2.1   | 1.5   | 5.4   | 9.9   | 24    | 9.8   | 8.0   | 1.5   | .81   | 2.8   | 8.6   |
| 12    | .80   | 1.3   | 1.4   | 5.6   | 10    | 16    | 22    | 7.0   | 1.3   | 1.3   | 3.2   | 8.0   |
| 13    | .90   | 1.1   | 1.4   | 13    | 8.7   | 33    | 26    | 6.5   | 1.3   | 2.1   | 1.8   | 6.9   |
| 14    | .95   | 1.1   | 1.6   | 9.4   | 8.9   | 24    | 20    | 6.4   | 1.2   | 4.0   | 1.4   | 6.1   |
| 15    | .80   | 1.0   | 11    | 8.0   | 10    | 17    | 17    | 5.9   | 1.1   | 1.8   | 15    | 5.3   |
| 16    | .95   | 1.1   | 5.3   | 7.0   | 10    | 13    | 15    | 5.8   | 1.1   | 1.3   | 14    | 4.8   |
| 17    | 1.2   | 6.6   | 2.7   | 24    | 9.3   | 11    | 13    | 5.0   | 1.4   | 1.4   | 5.0   | 9.4   |
| 18    | 1.2   | 2.8   | 2.0   | 57    | 9.0   | 12    | 16    | 4.4   | 2.3   | 1.1   | 3.0   | 7.9   |
| 19    | .95   | 1.7   | 1.8   | 53    | 9.2   | 11    | 31    | 3.8   | 3.6   | .96   | 24    | 6.3   |
| 20    | 3.4   | 1.3   | 2.6   | 171   | 7.9   | 10    | 27    | 3.2   | 2.2   | .86   | 115   | 5.6   |
| 21    | 2.8   | 1.1   | 3.3   | 52    | 8.4   | 10    | 21    | 2.7   | 1.7   | 7.9   | 29    | 4.8   |
| 22    | 1.7   | 1.0   | 2.7   | 26    | 8.3   | 9.7   | 17    | 2.7   | 1.6   | 4.5   | 18    | 4.2   |
| 23    | 1.4   | 1.0   | 2.3   | 17    | 8.8   | 9.5   | 14    | 3.1   | 1.4   | 2.6   | 13    | 4.0   |
| 24    | 1.4   | 1.1   | 4.3   | 14    | 8.8   | 9.7   | 12    | 5.7   | 1.2   | 1.6   | 9.8   | 6.4   |
| 25    | 1.5   | 1.1   | 7.7   | 16    | 8.4   | 12    | 9.9   | 5.6   | 1.1   | 1.1   | 7.7   | 11    |
| 26    | 1.4   | 1.2   | 7.1   | 13    | 8.3   | 12    | 9.0   | 3.6   | .95   | 1.1   | 6.0   | 7.1   |
| 27    | 1.8   | 1.2   | 11    | 11    | 8.1   | 11    | 8.0   | 2.7   | .82   | 1.7   | 4.8   | 6.2   |
| 28    | 1.6   | 1.3   | 16    | 9.6   | 8.0   | 11    | 7.3   | 2.8   | .74   | 1.2   | 4.0   | 5.1   |
| 29    | 1.4   | 1.8   | 11    | 8.6   | 7.6   | 11    | 7.0   | 2.4   | .68   | 2.7   | 4.0   | 4.5   |
| 30    | 1.3   | 1.6   | 7.3   | 8.0   | ---   | 12    | 6.4   | 2.0   | .82   | 3.8   | 4.2   | 4.1   |
| 31    | 1.2   | ---   | 5.6   | 11    | ---   | 12    | ---   | 1.6   | ---   | 1.5   | 3.8   | ---   |
| TOTAL | 38.95 | 45.51 | 122.3 | 661.7 | 343.6 | 388.5 | 416.7 | 164.6 | 44.71 | 61.24 | 324.8 | 450.5 |
| MEAN  | 1.26  | 1.52  | 3.95  | 21.3  | 11.8  | 12.5  | 13.9  | 5.31  | 1.49  | 1.98  | 10.5  | 15.0  |
| MAX   | 3.4   | 6.6   | 16    | 171   | 28    | 33    | 31    | 11    | 3.6   | 7.9   | 115   | 152   |
| MIN   | .55   | .85   | 1.1   | 5.4   | 7.6   | 7.3   | 6.4   | 1.6   | .68   | .81   | 1.3   | 2.7   |
| CFSM  | .15   | .18   | .48   | 2.58  | 1.43  | 1.51  | 1.68  | .64   | .18   | .24   | 1.27  | 1.81  |
| IN.   | .18   | .20   | .55   | 2.98  | 1.55  | 1.75  | 1.87  | .74   | .20   | .28   | 1.46  | 2.03  |

|             |       |         |           |         |         |           |          |
|-------------|-------|---------|-----------|---------|---------|-----------|----------|
| CAL YR 1987 | TOTAL | 4697.54 | MEAN 12.9 | MAX 167 | MIN .55 | CFSM 1.56 | IN 21.13 |
| WTR YR 1988 | TOTAL | 3063.11 | MEAN 8.37 | MAX 171 | MIN .55 | CFSM 1.01 | IN 13.78 |

## MOBILE RIVER BASIN

02384748 CONASAUGA RIVER NEAR DALTON, GA.

LOCATION.--Lat 34°47'20", long 84°52'30", Whitfield-Murray County line, Hydrologic Unit 03150101, at Dalton waterworks intake, 0.4 mi upstream from U.S. Highway 76, and 5.5 mi east of Dalton.

DRAINAGE AREA.--308 mi<sup>2</sup>.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1400 | 16                                              | 155                                               | 159                                                      | 7.50                           | 7.30                                  | 14.0                                 | 16.0                               | 7.2                                 | 71                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1240 | 12                                              | 120                                               | 118                                                      | 7.70                           | 7.60                                  | 7.0                                  | 19.0                               | 10.6                                | 88                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 30... | 0845 | 207                                             | 85                                                | 79                                                       | 7.30                           | 7.30                                  | 7.5                                  | 3.0                                | 10.5                                | 88                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1145 | 280                                             | 107                                               | 107                                                      | 7.50                           | 7.50                                  | 4.0                                  | 3.0                                | 12.2                                | 93                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1420 | 138                                             | 110                                               | 105                                                      | 7.60                           | 7.60                                  | 9.0                                  | 17.0                               | 10.6                                | 94                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1300 | 90                                              | 120                                               | 123                                                      | 7.70                           | 7.80                                  | 16.0                                 | 24.0                               | 9.4                                 | 97                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 1100 | 145                                             | 99                                                | 99                                                       | 7.40                           | 7.50                                  | 18.0                                 | 23.0                               | 8.0                                 | 87                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 25... | 0900 | 38                                              | 120                                               | 123                                                      | 7.50                           | 7.40                                  | 19.0                                 | 21.0                               | 6.2                                 | 68                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1445 | --                                              | 135                                               | 130                                                      | 7.70                           | 7.70                                  | 27.5                                 | 33.0                               | 6.4                                 | 83                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 1315 | 94                                              | 102                                               | 103                                                      | 7.50                           | 7.70                                  | 26.5                                 | 33.0                               | 6.9                                 | 88                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1150 | 140                                             | 62                                                | 60                                                       | 7.20                           | 7.20                                  | 24.5                                 | 25.5                               | 6.8                                 | 83                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1200 | 66                                              | 89                                                | 85                                                       | 7.40                           | 7.50                                  | 22.5                                 | 23.0                               | 7.3                                 | 86                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 27... | 5.0                          | 1.9                                                            | --                                               | 72                                              | 2                                                                 | 70                                                              | 1                                                                | <0.020                                               | 0.030                                                | 0.030                                       | --                                            |
| NOV   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 23... | 4.0                          | 2.2                                                            | 50                                               | 60                                              | 7                                                                 | 53                                                              | 52                                                               | 0.040                                                | 0.030                                                | 0.030                                       | 2.7                                           |
| DEC   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 30... | 8.0                          | --                                                             | --                                               | 42                                              | 13                                                                | 29                                                              | 12                                                               | 0.130                                                | <0.020                                               | 0.040                                       | 3.2                                           |
| JAN   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 27... | 8.0                          | 1.2                                                            | 60                                               | 57                                              | 17                                                                | 40                                                              | 5                                                                | 0.500                                                | 0.080                                                | <0.020                                      | 2.7                                           |
| FEB   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 23... | 5.0                          | 1.1                                                            | 40                                               | 54                                              | 8                                                                 | 46                                                              | <1                                                               | 0.170                                                | 0.090                                                | <0.020                                      | 2.5                                           |
| MAR   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 29... | 5.0                          | 1.9                                                            | 20                                               | 150                                             | 92                                                                | 58                                                              | 18                                                               | 0.090                                                | 0.040                                                | <0.020                                      | 3.3                                           |
| APR   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 26... | 11                           | 1.3                                                            | --                                               | 57                                              | 14                                                                | 43                                                              | 22                                                               | 0.170                                                | 0.050                                                | 0.030                                       | 1.8                                           |
| MAY   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 25... | 14                           | 1.0                                                            | 180                                              | 54                                              | 0                                                                 | 56                                                              | 23                                                               | 0.190                                                | 0.080                                                | 0.030                                       | 1.9                                           |
| JUN   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 28... | 11                           | 1.5                                                            | --                                               | 69                                              | 7                                                                 | 62                                                              | 13                                                               | 0.140                                                | 0.030                                                | 0.040                                       | 3.0                                           |
| JUL   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 26... | 11                           | 1.1                                                            | 80                                               | 45                                              | 0                                                                 | 46                                                              | 18                                                               | 0.160                                                | 0.030                                                | 0.040                                       | 3.0                                           |
| AUG   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 23... | 22                           | 1.0                                                            | 1700                                             | 21                                              | 0                                                                 | 24                                                              | 33                                                               | 0.140                                                | 0.040                                                | 0.060                                       | 3.4                                           |
| SEP   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |                                                      |                                                      |                                             |                                               |
| 27... | 16                           | 1.0                                                            | 170                                              | 36                                              | 0                                                                 | 38                                                              | 21                                                               | 0.230                                                | 0.040                                                | 0.050                                       | 2.7                                           |



## 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 mi<sup>2</sup>.

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.--28 years, 117 ft<sup>3</sup>/s, 24.83 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft<sup>3</sup>/s, Mar. 4, 1979, gage height, 12.54 ft; minimum daily discharge, 1.2 ft<sup>3</sup>/s, Oct. 10, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft<sup>3</sup>/s and maximum (\*):

| Date                                                      | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|-----------------------------------------------------------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Jan. 20                                                   | 1700 | *1,910                         | *8.81            | No other peak greater than base discharge. |      |                                |                  |
| Minimum daily discharge, 1.2 ft <sup>3</sup> /s, Oct. 10. |      |                                |                  |                                            |      |                                |                  |

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                 | 3.0     | 6.1   | 7.0   | 38        | 45       | 30      | 37        | 32       | 8.7   | 3.0   | 3.4   | 8.1    |
| 2                 | 3.5     | 4.9   | 6.0   | 82        | 59       | 26      | 55        | 29       | 8.5   | 4.3   | 3.3   | 6.5    |
| 3                 | 2.7     | 5.1   | 5.3   | 49        | 131      | 27      | 46        | 27       | 8.3   | 5.9   | 3.0   | 26     |
| 4                 | 2.4     | 5.3   | 5.6   | 67        | 118      | 43      | 49        | 41       | 7.8   | 20    | 14    | 499    |
| 5                 | 2.3     | 5.4   | 5.4   | 46        | 105      | 43      | 44        | 43       | 7.8   | 14    | 55    | 418    |
| 6                 | 2.1     | 4.9   | 5.8   | 33        | 85       | 34      | 44        | 30       | 7.1   | 7.2   | 8.5   | 90     |
| 7                 | 1.7     | 4.5   | 6.2   | 26        | 69       | 31      | 44        | 26       | 6.6   | 5.4   | 30    | 50     |
| 8                 | 1.4     | 4.4   | 6.2   | 41        | 67       | 29      | 39        | 24       | 6.2   | 4.3   | 16    | 35     |
| 9                 | 1.3     | 4.9   | 7.0   | 33        | 60       | 55      | 36        | 22       | 5.6   | 3.9   | 7.9   | 26     |
| 10                | 1.2     | 11    | 7.3   | 26        | 56       | 166     | 33        | 155      | 4.9   | 3.0   | 5.5   | 23     |
| 11                | 1.7     | 21    | 8.1   | 23        | 51       | 195     | 42        | 65       | 5.1   | 2.7   | 6.1   | 24     |
| 12                | 1.8     | 9.3   | 9.2   | 27        | 53       | 107     | 594       | 41       | 4.7   | 5.3   | 7.7   | 24     |
| 13                | 2.1     | 6.1   | 9.3   | 82        | 46       | 227     | 235       | 32       | 4.3   | 9.5   | 4.8   | 19     |
| 14                | 1.7     | 6.5   | 10    | 76        | 43       | 139     | 117       | 28       | 3.3   | 11    | 4.2   | 14     |
| 15                | 1.8     | 5.6   | 86    | 49        | 57       | 97      | 82        | 25       | 3.0   | 7.8   | 3.4   | 13     |
| 16                | 2.5     | 5.6   | 52    | 38        | 68       | 75      | 69        | 23       | 2.7   | 5.3   | 4.6   | 11     |
| 17                | 2.7     | 33    | 18    | 114       | 56       | 63      | 57        | 20       | 2.0   | 5.4   | 5.9   | 31     |
| 18                | 2.0     | 42    | 12    | 404       | 52       | 59      | 72        | 18       | 2.7   | 4.2   | 4.5   | 45     |
| 19                | 2.0     | 13    | 9.9   | 292       | 51       | 60      | 461       | 16       | 15    | 3.3   | 3.9   | 23     |
| 20                | 3.3     | 7.7   | 12    | 1350      | 55       | 51      | 255       | 15       | 12    | 2.8   | 201   | 17     |
| 21                | 8.5     | 7.0   | 16    | 493       | 48       | 47      | 135       | 14       | 6.5   | 2.6   | 52    | 14     |
| 22                | 7.4     | 6.1   | 15    | 155       | 43       | 43      | 97        | 14       | 4.2   | 16    | 23    | 13     |
| 23                | 4.6     | 5.9   | 12    | 103       | 42       | 40      | 76        | 14       | 3.2   | 10    | 14    | 10     |
| 24                | 4.2     | 5.9   | 19    | 82        | 41       | 38      | 65        | 18       | 8.7   | 7.4   | 13    | 11     |
| 25                | 4.3     | 5.5   | 43    | 92        | 37       | 43      | 55        | 23       | 7.1   | 4.9   | 12    | 72     |
| 26                | 4.9     | 5.7   | 31    | 79        | 35       | 54      | 50        | 15       | 4.5   | 3.8   | 9.7   | 36     |
| 27                | 4.8     | 6.4   | 36    | 64        | 35       | 41      | 45        | 12       | 3.7   | 6.1   | 8.7   | 21     |
| 28                | 5.1     | 6.6   | 67    | 58        | 34       | 36      | 40        | 12       | 2.8   | 5.3   | 7.5   | 16     |
| 29                | 5.8     | 8.5   | 51    | 53        | 32       | 34      | 36        | 11       | 2.9   | 5.9   | 7.4   | 14     |
| 30                | 5.6     | 8.4   | 31    | 50        | ---      | 34      | 34        | 10       | 2.6   | 5.5   | 9.4   | 11     |
| 31                | 5.7     | ---   | 22    | 47        | ---      | 37      | ---       | 9.0      | ---   | 4.1   | 9.3   | ---    |
| TOTAL             | 104.1   | 272.3 | 631.3 | 4172      | 1674     | 2004    | 3044      | 864.0    | 172.5 | 199.9 | 558.7 | 1620.6 |
| MEAN              | 3.36    | 9.08  | 20.4  | 135       | 57.7     | 64.6    | 101       | 27.9     | 5.75  | 6.45  | 18.0  | 54.0   |
| MAX               | 8.5     | 42    | 86    | 1350      | 131      | 227     | 594       | 155      | 15    | 20    | 201   | 499    |
| MIN               | 1.2     | 4.4   | 5.3   | 23        | 32       | 26      | 33        | 9.0      | 2.0   | 2.6   | 3.0   | 6.5    |
| CFSM              | .05     | .14   | .32   | 2.11      | .90      | 1.01    | 1.58      | .44      | .09   | .10   | .28   | .84    |
| IN.               | .06     | .16   | .37   | 2.42      | .97      | 1.16    | 1.77      | .50      | .10   | .12   | .32   | .94    |
| CAL YR 1987 TOTAL | 29413.8 |       |       | MEAN 80.6 | MAX 1940 | MIN 1.2 | CFSM 1.26 | IN 17.10 |       |       |       |        |
| WTR YR 1988 TOTAL | 15317.4 |       |       | MEAN 41.9 | MAX 1350 | MIN 1.2 | CFSM .66  | IN 8.90  |       |       |       |        |



## 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 mi<sup>2</sup>.

## 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: Oct. 24-29, June 18 to July 1, and July 14-20. Records good, except for estimated discharges, which are poor. Flow affected by withdrawals and return flow by the city of Dalton, Ga.

AVERAGE DISCHARGE.--51 years, 1,183 ft<sup>3</sup>/s, 23.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft<sup>3</sup>/s, Mar. 30, 1951, gage height, 30.2 ft backwater from the Coosawattee River; minimum daily discharge, 12 ft<sup>3</sup>/s, July 24, 1986.

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

| Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Jan. 22 | 0500 | *7,820                         | *16.67           | No other peak greater than base discharge. |      |                                |                  |

Minimum daily discharge, 28 ft<sup>3</sup>/s, June 11.

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           | 86    | 74     | 132      | 378       | 482    | 261       | 364      | 291  | 125  | 29   | 111  | 67    |
| 2           | 123   | 80     | 110      | 417       | 440    | 248       | 462      | 277  | 93   | 31   | 95   | 74    |
| 3           | 135   | 88     | 107      | 561       | 849    | 242       | 506      | 240  | 81   | 34   | 80   | 89    |
| 4           | 117   | 81     | 107      | 613       | 1330   | 295       | 530      | 241  | 76   | 73   | 104  | 775   |
| 5           | 112   | 75     | 109      | 545       | 1130   | 320       | 492      | 278  | 93   | 109  | 157  | 1900  |
| 6           | 107   | 74     | 100      | 453       | 917    | 321       | 459      | 336  | 104  | 117  | 303  | 1510  |
| 7           | 89    | 76     | 110      | 383       | 771    | 283       | 440      | 268  | 84   | 122  | 321  | 615   |
| 8           | 81    | 77     | 116      | 379       | 628    | 247       | 479      | 259  | 60   | 99   | 267  | 377   |
| 9           | 43    | 83     | 104      | 416       | 557    | 299       | 413      | 262  | 42   | 81   | 179  | 282   |
| 10          | 34    | 119    | 94       | 385       | 492    | 621       | 377      | 389  | 32   | 74   | 151  | 223   |
| 11          | 39    | 144    | 93       | 324       | 511    | 1750      | 344      | 503  | 28   | 73   | 325  | 235   |
| 12          | 42    | 122    | 92       | 291       | 436    | 1490      | 1360     | 325  | 31   | 67   | 196  | 800   |
| 13          | 52    | 115    | 103      | 332       | 385    | 1430      | 2020     | 261  | 61   | 49   | 126  | 1110  |
| 14          | 59    | 111    | 113      | 551       | 365    | 1680      | 1320     | 234  | 59   | 220  | 98   | 397   |
| 15          | 50    | 104    | 257      | 581       | 382    | 1170      | 828      | 239  | 39   | 160  | 83   | 234   |
| 16          | 47    | 118    | 262      | 466       | 463    | 929       | 670      | 245  | 37   | 110  | 74   | 180   |
| 17          | 46    | 154    | 323      | 608       | 512    | 749       | 574      | 197  | 32   | 80   | 76   | 385   |
| 18          | 46    | 197    | 245      | 1800      | 454    | 604       | 561      | 174  | 33   | 90   | 90   | 430   |
| 19          | 47    | 169    | 182      | 3080      | 418    | 594       | 1590     | 152  | 41   | 72   | 88   | 369   |
| 20          | 53    | 178    | 169      | 7200      | 408    | 539       | 2310     | 144  | 74   | 68   | 749  | 286   |
| 21          | 95    | 143    | 181      | 7530      | 417    | 472       | 1460     | 146  | 60   | 67   | 1350 | 233   |
| 22          | 122   | 130    | 152      | 7330      | 388    | 412       | 983      | 160  | 52   | 180  | 774  | 197   |
| 23          | 108   | 139    | 147      | 2330      | 303    | 389       | 775      | 181  | 45   | 138  | 372  | 174   |
| 24          | 99    | 123    | 191      | 1170      | 283    | 366       | 629      | 158  | 39   | 182  | 265  | 157   |
| 25          | 86    | 102    | 354      | 969       | 276    | 379       | 537      | 164  | 35   | 159  | 208  | 300   |
| 26          | 81    | 98     | 323      | 862       | 255    | 455       | 461      | 182  | 35   | 125  | 158  | 341   |
| 27          | 82    | 111    | 429      | 768       | 246    | 444       | 426      | 187  | 37   | 125  | 128  | 261   |
| 28          | 83    | 137    | 626      | 658       | 266    | 380       | 388      | 170  | 33   | 217  | 116  | 196   |
| 29          | 82    | 144    | 734      | 587       | 288    | 332       | 345      | 178  | 29   | 181  | 112  | 168   |
| 30          | 76    | 152    | 581      | 548       | ---    | 322       | 320      | 175  | 30   | 170  | 85   | 155   |
| 31          | 74    | ---    | 423      | 524       | ---    | 334       | ---      | 167  | ---  | 138  | 67   | ---   |
| TOTAL       | 2396  | 3518   | 7069     | 43039     | 14652  | 18357     | 22423    | 7183 | 1620 | 3440 | 7308 | 12520 |
| MEAN        | 77.3  | 117    | 228      | 1388      | 505    | 592       | 747      | 232  | 54.0 | 111  | 236  | 417   |
| MAX         | 135   | 197    | 734      | 7530      | 1330   | 1750      | 2310     | 503  | 125  | 220  | 1350 | 1900  |
| MIN         | 34    | 74     | 92       | 291       | 246    | 242       | 320      | 144  | 28   | 29   | 67   | 67    |
| CFSM        | .11   | .17    | .33      | 2.02      | .74    | .86       | 1.09     | .34  | .08  | .16  | .34  | .61   |
| IN.         | .13   | .19    | .38      | 2.33      | .79    | .99       | 1.21     | .39  | .09  | .19  | .40  | .68   |
| CAL YR 1987 | TOTAL | 282417 | MEAN 774 | MAX 11300 | MIN 20 | CFSM 1.13 | IN 15.29 |      |      |      |      |       |
| WTR YR 1988 | TOTAL | 143525 | MEAN 392 | MAX 7530  | MIN 28 | CFSM .57  | IN 7.77  |      |      |      |      |       |

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 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, 646 microsiemens Oct. 26, 1987; minimum recorded, 34 microsiemens Mar. 23, 1980.

pH: Maximum recorded, 10.65 units Feb. 13, 1988; 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, 15.7 mg/L June 12, 1988; minimum recorded, 0.2 mg/L May 13, 1987.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 646 microsiemens Oct. 26; minimum, 65 microsiemens Sept. 6.

pH: Maximum, 10.65 units Feb. 13; minimum, 7.00 units Aug. 22.

WATER TEMPERATURE: Maximum recorded, 32.5°C June 26, 27; minimum recorded, 1.0°C Jan. 7.

DISSOLVED OXYGEN: Maximum recorded, 15.7 mg/L June 12; minimum, 0.7 mg/L Nov. 5.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1300 | 110                                             | 626                                               | 630                                                      | 7.40                           | 7.20                                  | 17.0                                 | 19.0                               | 1.0                                 | 11                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1115 | 142                                             | 405                                               | 399                                                      | 7.60                           | 7.70                                  | 9.0                                  | 18.5                               | 6.3                                 | 55                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 30... | 0945 | 594                                             | 248                                               | 232                                                      | 7.50                           | 7.50                                  | 9.0                                  | 6.5                                | 9.1                                 | 79                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1245 | 753                                             | 199                                               | 193                                                      | 7.50                           | 7.50                                  | 5.0                                  | 9.5                                | 11.4                                | 90                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1315 | 297                                             | 159                                               | 153                                                      | 7.70                           | 7.60                                  | 8.0                                  | 16.0                               | 10.4                                | 90                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1140 | 329                                             | 210                                               | 219                                                      | 7.60                           | 7.70                                  | 15.5                                 | 23.5                               | 7.9                                 | 80                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 0940 | 462                                             | 170                                               | 169                                                      | 7.30                           | 7.40                                  | 18.5                                 | 22.0                               | 6.3                                 | 69                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 25... | 1000 | 164                                             | 190                                               | 193                                                      | 7.30                           | 7.40                                  | 21.0                                 | 22.0                               | 4.2                                 | 48                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1340 | 27                                              | 252                                               | 250                                                      | 8.80                           | 8.70                                  | 29.0                                 | 30.5                               | 12.3                                | 163                                                            |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 1300 | 123                                             | 212                                               | 217                                                      | 7.90                           | 7.90                                  | 27.0                                 | 32.0                               | 7.5                                 | 96                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1020 | 372                                             | 120                                               | 118                                                      | 7.20                           | 7.10                                  | 25.0                                 | 25.5                               | 5.5                                 | 68                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1045 | 264                                             | 178                                               | 175                                                      | 7.30                           | 7.50                                  | 22.0                                 | 22.5                               | 6.0                                 | 70                                                             |

## MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
| OCT   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 27... | 7.0                          | 160                                                            | >6.9                                                           | --                                               | 140                                             | 10                                                                | 130                                                             | <1                                                               |
| NOV   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 23... | 7.0                          | 63                                                             | 5.8                                                            | 170                                              | 110                                             | 5                                                                 | 105                                                             | 12                                                               |
| DEC   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 30... | 18                           | 31                                                             | --                                                             | --                                               | 81                                              | 12                                                                | 69                                                              | 19                                                               |
| JAN   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 27... | 15                           | 24                                                             | 2.6                                                            | 4900                                             | 66                                              | 11                                                                | 55                                                              | 14                                                               |
| FEB   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 23... | 7.0                          | 9                                                              | 1.2                                                            | 7000                                             | 72                                              | 9                                                                 | 63                                                              | <1                                                               |
| MAR   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 29... | 7.0                          | 26                                                             | 3.3                                                            | 790                                              | 90                                              | 15                                                                | 75                                                              | 18                                                               |
| APR   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 26... | 19                           | 9                                                              | --                                                             | --                                               | 66                                              | 9                                                                 | 57                                                              | 21                                                               |
| MAY   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 25... | 10                           | 19                                                             | 2.0                                                            | 1200                                             | 75                                              | 8                                                                 | 67                                                              | 13                                                               |
| JUN   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 28... | 9.0                          | 45                                                             | 2.5                                                            | --                                               | 93                                              | 24                                                                | 69                                                              | 8                                                                |
| JUL   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 26... | 9.0                          | 15                                                             | 1.4                                                            | 50                                               | 63                                              | 0                                                                 | 69                                                              | 4                                                                |
| AUG   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 23... | 76                           | 22                                                             | 1.6                                                            | 790                                              | 45                                              | 10                                                                | 35                                                              | 88                                                               |
| SEP   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 27... | 46                           | <5                                                             | 1.6                                                            | 790                                              | 81                                              | 25                                                                | 56                                                              | 43                                                               |

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | <0.020                                               | 5.60                                                 | 2.5                                                  | 8.1                                                                | --                                        | 6.85                                        | --                                            |
| NOV   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 23... | 0.170                                                | 2.22                                                 | 8.4                                                  | 11                                                                 | 11                                        | 3.67                                        | 27                                            |
| DEC   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 30... | 0.270                                                | 0.720                                                | 1.7                                                  | 2.4                                                                | 2.7                                       | 1.45                                        | 11                                            |
| JAN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | 0.550                                                | 0.570                                                | 1.0                                                  | 1.6                                                                | 2.1                                       | 1.12                                        | 9.3                                           |
| FEB   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 23... | 0.250                                                | 0.090                                                | 0.51                                                 | 0.60                                                               | 0.85                                      | 0.160                                       | 4.6                                           |
| MAR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 29... | 0.320                                                | 0.410                                                | --                                                   | --                                                                 | --                                        | 1.04                                        | 9.1                                           |
| APR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 26... | 0.430                                                | 0.420                                                | 0.68                                                 | 1.1                                                                | 1.5                                       | 0.830                                       | 6.7                                           |
| MAY   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 25... | 0.780                                                | 0.500                                                | 0.40                                                 | 0.90                                                               | 1.7                                       | 0.480                                       | 4.6                                           |
| JUN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 28... | 0.580                                                | 0.030                                                | 1.5                                                  | 1.5                                                                | 2.1                                       | 0.890                                       | 9.8                                           |
| JUL   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 26... | 0.520                                                | 0.030                                                | 0.67                                                 | 0.70                                                               | 1.2                                       | 0.300                                       | 3.0                                           |
| AUG   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 23... | 0.430                                                | 0.130                                                | 0.77                                                 | 0.90                                                               | 1.3                                       | 0.330                                       | 8.6                                           |
| SEP   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | 0.690                                                | 0.080                                                | 0.62                                                 | 0.70                                                               | 1.4                                       | 0.360                                       | 6.1                                           |

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
| 1     | 611     | 596 | 592      | 576 | 425      | 409 | 298     | 285 | 265      | 259 | 289       | 257 |
| 2     | 599     | 589 | 595      | 580 | 461      | 425 | 303     | 291 | 269      | 226 | 264       | 254 |
| 3     | 584     | 473 | 593      | 571 | 493      | 464 | 300     | 235 | 238      | 190 | 266       | 263 |
| 4     | 485     | 468 | 571      | 543 | 502      | 492 | 240     | 224 | 221      | 187 | 268       | 257 |
| 5     | 490     | 483 | 572      | 545 | 505      | 501 | 265     | 229 | 216      | 197 | 274       | 253 |
| 6     | 490     | 484 | 598      | 572 | 510      | 500 | 294     | 263 | 201      | 172 | 251       | 213 |
| 7     | 497     | 482 | 614      | 598 | 521      | 510 | 304     | 295 | 206      | 171 | 211       | 207 |
| 8     | 541     | 500 | 616      | 613 | 517      | 484 | 329     | 307 | 219      | 206 | 238       | 210 |
| 9     | 553     | 540 | 621      | 614 | 502      | 483 | 310     | 302 | 220      | 214 | 247       | 239 |
| 10    | 567     | 550 | 613      | 531 | 526      | 503 | 319     | 304 | 219      | 211 | 257       | 200 |
| 11    | 576     | 512 | 552      | 422 | 544      | 526 | 346     | 321 | 292      | 215 | 210       | 164 |
| 12    | 507     | 413 | 467      | 423 | 544      | 526 | 373     | 340 | 274      | 256 | 166       | 143 |
| 13    | 468     | 414 | 471      | 446 | 540      | 527 | 376     | 361 | 283      | 206 | 155       | 130 |
| 14    | 506     | 469 | 485      | 472 | 532      | 478 | 363     | 295 | 203      | 180 | 145       | 129 |
| 15    | 570     | 508 | 491      | 472 | 477      | 316 | 293     | 287 | 206      | 180 | 147       | 143 |
| 16    | 613     | 571 | 505      | 478 | 356      | 329 | 304     | 291 | 228      | 210 | 156       | 147 |
| 17    | 624     | 593 | 477      | 404 | 349      | 310 | 308     | 259 | 217      | 208 | 166       | 150 |
| 18    | 630     | 623 | 447      | 351 | 343      | 311 | 261     | 190 | 223      | 215 | 184       | 167 |
| 19    | 624     | 617 | 384      | 355 | 346      | 316 | 186     | 116 | 221      | 213 | 189       | 184 |
| 20    | 617     | 588 | 382      | 331 | 351      | 342 | 109     | 95  | 218      | 194 | 188       | 176 |
| 21    | 587     | 571 | 389      | 337 | 353      | 345 | 99      | 83  | 194      | 183 | 184       | 176 |
| 22    | 597     | 550 | 413      | 386 | 366      | 344 | 117     | 87  | 203      | 185 | 210       | 186 |
| 23    | 610     | 583 | 415      | 399 | 393      | 367 | 190     | 121 | 212      | 167 | 221       | 210 |
| 24    | 637     | 610 | 414      | 396 | 378      | 299 | 220     | 192 | 168      | 166 | 239       | 222 |
| 25    | 644     | 637 | 463      | 416 | 338      | 251 | 233     | 195 | 169      | 166 | 244       | 236 |
| 26    | 646     | 628 | 493      | 466 | 289      | 258 | 185     | 175 | 168      | 164 | 247       | 231 |
| 27    | 628     | 621 | 509      | 494 | 313      | 258 | 230     | 178 | 166      | 162 | 230       | 200 |
| 28    | 621     | 610 | 506      | 429 | 304      | 265 | 245     | 233 | 182      | 166 | 201       | 192 |
| 29    | 625     | 605 | 436      | 420 | 260      | 240 | 254     | 246 | 251      | 195 | 235       | 204 |
| 30    | 631     | 625 | 435      | 411 | 262      | 240 | 259     | 254 | ---      | --- | 245       | 236 |
| 31    | 621     | 589 | ---      | --- | 285      | 262 | 261     | 256 | ---      | --- | 256       | 241 |
| MONTH | 646     | 413 | 621      | 331 | 544      | 240 | 376     | 83  | 292      | 162 | 289       | 129 |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| 1     | 261     | 243 | 218      | 153 | 198      | 192 | 257     | 247 | 261      | 258 | 266       | 232 |
| 2     | 243     | 213 | 164      | 154 | 195      | 192 | 283     | 259 | 268      | 262 | 298       | 266 |
| 3     | 216     | 191 | 161      | 154 | 213      | 196 | 311     | 285 | 267      | 260 | 289       | 261 |
| 4     | 205     | 190 | 170      | 156 | 225      | 211 | 312     | 295 | 272      | 262 | 265       | 197 |
| 5     | 218     | 207 | 180      | 162 | 225      |     |         |     |          |     |           |     |

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-----------|------|
|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
| 1     | 7.55    | 7.51 | 7.36     | 7.33 | 7.46     | 7.39 | 7.52    | 7.47 | 7.55     | 7.49 | 7.79      | 7.75 |
| 2     | 7.54    | 7.51 | 7.37     | 7.31 | 7.48     | 7.44 | 7.49    | 7.46 | 7.49     | 7.43 | 7.93      | 7.71 |
| 3     | 7.54    | 7.45 | 7.30     | 7.26 | 7.46     | 7.43 | 7.49    | 7.44 | 7.47     | 7.40 | 7.98      | 7.65 |
| 4     | 7.48    | 7.45 | 7.30     | 7.27 | 7.43     | 7.42 | 7.44    | 7.39 | 7.58     | 7.40 | 7.75      | 7.68 |
| 5     | 7.47    | 7.43 | 7.35     | 7.28 | 7.44     | 7.42 | 7.42    | 7.36 | 7.58     | 7.53 | 7.75      | 7.56 |
| 6     | 7.44    | 7.41 | 7.40     | 7.34 | 7.44     | 7.42 | 7.41    | 7.36 | 7.95     | 7.56 | 7.69      | 7.57 |
| 7     | 7.43    | 7.41 | 7.45     | 7.39 | 7.43     | 7.42 | 7.47    | 7.41 | 8.29     | 7.75 | 7.79      | 7.63 |
| 8     | 7.43    | 7.40 | 7.45     | 7.43 | 7.49     | 7.43 | 7.46    | 7.45 | 8.91     | 8.35 | 7.87      | 7.64 |
| 9     | 7.44    | 7.40 | 7.44     | 7.40 | 7.44     | 7.39 | 7.50    | 7.45 | 9.00     | 8.63 | 7.74      | 7.67 |
| 10    | 7.44    | 7.36 | 7.42     | 7.39 | 7.40     | 7.37 | 7.49    | 7.48 | 8.51     | 7.99 | 7.69      | 7.53 |
| 11    | 7.45    | 7.39 | 7.43     | 7.38 | 7.42     | 7.39 | 7.50    | 7.47 | 9.32     | 7.99 | 7.61      | 7.52 |
| 12    | 7.45    | 7.37 | 7.49     | 7.38 | 7.42     | 7.39 | 7.50    | 7.46 | 8.97     | 7.87 | 7.53      | 7.46 |
| 13    | 7.43    | 7.38 | 7.52     | 7.49 | 7.42     | 7.39 | 7.45    | 7.44 | 10.65    | 7.84 | 7.47      | 7.41 |
| 14    | 7.45    | 7.40 | 7.51     | 7.45 | 7.40     | 7.38 | 7.50    | 7.46 | 7.93     | 7.75 | 7.50      | 7.42 |
| 15    | 7.46    | 7.41 | 7.45     | 7.43 | 7.40     | 7.33 | 7.48    | 7.47 | 7.74     | 7.64 | 7.50      | 7.48 |
| 16    | 7.46    | 7.43 | 7.44     | 7.41 | 7.52     | 7.40 | 7.49    | 7.47 | 7.63     | 7.52 | 7.56      | 7.50 |
| 17    | 7.45    | 7.43 | 7.41     | 7.36 | 7.52     | 7.41 | 7.47    | 7.39 | 7.60     | 7.54 | 7.68      | 7.54 |
| 18    | 7.44    | 7.41 | 7.38     | 7.34 | 7.55     | 7.43 | 7.39    | 7.18 | 7.61     | 7.58 | 7.69      | 7.65 |
| 19    | 7.44    | 7.41 | 7.43     | 7.38 | 7.53     | 7.49 | 7.34    | 7.10 | 7.57     | 7.52 | 7.74      | 7.65 |
| 20    | 7.44    | 7.41 | 7.41     | 7.36 | 7.48     | 7.45 | 7.25    | 7.02 | 7.56     | 7.49 | 7.76      | 7.71 |
| 21    | 7.45    | 7.41 | 7.52     | 7.37 | 7.50     | 7.45 | 7.24    | 7.07 | 7.62     | 7.57 | 7.73      | 7.68 |
| 22    | 7.48    | 7.41 | 7.52     | 7.51 | 7.51     | 7.48 | 7.14    | 7.07 | 7.68     | 7.57 | 7.70      | 7.64 |
| 23    | 7.55    | 7.44 | 7.51     | 7.47 | 7.52     | 7.49 | 7.38    | 7.11 | 7.73     | 7.51 | 7.67      | 7.59 |
| 24    | 7.73    | 7.53 | 7.49     | 7.45 | 7.51     | 7.48 | 7.51    | 7.39 | 7.73     | 7.70 | 7.77      | 7.59 |
| 25    | 7.52    | 7.49 | 7.45     | 7.41 | 7.51     | 7.49 | 7.54    | 7.50 | 7.84     | 7.71 | 7.78      | 7.62 |
| 26    | 7.52    | 7.50 | 7.43     | 7.38 | 7.51     | 7.46 | 7.59    | 7.54 | 7.88     | 7.84 | 7.66      | 7.54 |
| 27    | 7.50    | 7.48 | 7.37     | 7.34 | 7.48     | 7.46 | 7.65    | 7.59 | 7.94     | 7.87 | 7.63      | 7.58 |
| 28    | 7.62    | 7.50 | 7.37     | 7.33 | 7.51     | 7.46 | 7.67    | 7.64 | 8.06     | 7.95 | 7.73      | 7.61 |
| 29    | 7.58    | 7.46 | 7.41     | 7.35 | 7.60     | 7.50 | 7.65    | 7.62 | 8.03     | 7.80 | 7.77      | 7.64 |
| 30    | 7.45    | 7.38 | 7.42     | 7.38 | 7.60     | 7.58 | 7.63    | 7.59 | ---      | ---  | 7.69      | 7.55 |
| 31    | 7.37    | 7.32 | ---      | ---  | 7.59     | 7.52 | 7.59    | 7.55 | ---      | ---  | 7.98      | 7.50 |
| MONTH | 7.73    | 7.32 | 7.52     | 7.26 | 7.60     | 7.33 | 7.67    | 7.02 | 10.65    | 7.40 | 7.98      | 7.41 |
|       | APRIL   |      | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
| 1     | 7.80    | 7.61 | 7.46     | 7.27 | 8.08     | 7.36 | 9.06    | 7.43 | 7.94     | 7.26 | 7.50      | 7.25 |
| 2     | 7.67    | 7.55 | 7.56     | 7.42 | 8.37     | 7.35 | 7.75    | 7.39 | 8.01     | 7.30 | 7.50      | 7.32 |
| 3     | 7.72    | 7.63 | 7.55     | 7.43 | 7.85     | 7.29 | 7.61    | 7.26 | 8.15     | 7.37 | 7.74      | 7.36 |
| 4     | 7.78    | 7.65 | 7.56     | 7.38 | 7.98     | 7.33 | 7.24    | 7.13 | 8.13     | 7.35 | 7.45      | 7.28 |
| 5     | 7.72    | 7.60 | 7.47     | 7.37 | 7.95     | 7.39 | 7.43    | 7.11 | 7.80     | 7.33 | 7.32      | 7.03 |
| 6     | 7.66    | 7.55 | 7.57     | 7.39 | 8.02     | 7.35 | 8.14    | 7.28 | 7.42     | 7.30 | 7.18      | 7.02 |
| 7     | 7.74    | 7.52 | 7.54     | 7.37 | 8.51     | 7.44 | 8.52    | 7.44 | 7.35     | 7.27 | 7.35      | 7.19 |
| 8     | 7.73    | 7.60 | 7.60     | 7.48 | 8.62     | 7.48 | 8.92    | 7.46 | 7.39     | 7.25 | 7.40      | 7.31 |
| 9     | 7.61    | 7.55 | 7.58     | 7.41 | 8.68     | 7.51 | 8.90    | 7.58 | 7.38     | 7.24 | 7.38      | 7.30 |
| 10    | 7.58    | 7.51 | 7.48     | 7.31 | 9.02     | 7.53 | 9.02    | 7.74 | 7.82     | 7.27 | 7.37      | 7.30 |
| 11    | 7.54    | 7.48 | 7.57     | 7.25 | 9.23     | 7.59 | 8.85    | 7.79 | 7.57     | 7.32 | 7.48      | 7.34 |
| 12    | 7.55    | 7.37 | 7.29     | 7.20 | 9.24     | 7.63 | 8.64    | 7.65 | 7.41     | 7.32 | 7.47      | 7.27 |
| 13    | 7.48    | 7.30 | 7.27     | 7.19 | 9.04     | 7.67 | 7.99    | 7.48 | 7.43     | 7.30 | 7.57      | 7.36 |
| 14    | 7.37    | 7.30 | 7.31     | 7.19 | 9.04     | 7.71 | 8.54    | 7.34 | 7.47     | 7.31 | 7.39      | 7.25 |
| 15    | 7.53    | 7.36 | 7.38     | 7.28 | 9.07     | 7.84 | 7.72    | 7.33 | 7.48     | 7.26 | 7.40      | 7.26 |
| 16    | 7.49    | 7.44 | 7.41     | 7.30 | 8.97     | 7.66 | 7.83    | 7.30 | 7.74     | 7.24 | 7.42      | 7.37 |
| 17    | 7.59    | 7.45 | 7.32     | 7.18 | 8.98     | 7.80 | 7.53    | 7.22 | 7.84     | 7.22 | 7.42      | 7.30 |
| 18    | 7.62    | 7.41 | 7.22     | 7.14 | 8.91     | 7.72 | 7.95    | 7.20 | 7.59     | 7.10 | 7.41      | 7.31 |
| 19    | 7.43    | 7.33 | 7.25     | 7.16 | ---      | ---  | 8.56    | 7.20 | 7.73     | 7.22 | 7.43      | 7.37 |
| 20    | 7.39    | 7.27 | 7.27     | 7.17 | ---      | ---  | 8.68    | 7.25 | 7.77     | 7.07 | 7.44      | 7.40 |
| 21    | 7.51    | 7.41 | 7.38     | 7.18 | ---      | ---  | 8.09    | 7.34 | 7.26     | 7.05 | 7.45      | 7.36 |
| 22    | 7.40    | 7.32 | 7.44     | 7.23 | ---      | ---  | 7.52    | 7.28 | 7.21     | 7.00 | 7.43      | 7.35 |
| 23    | 7.51    | 7.31 | 7.41     | 7.24 | 8.73     | 7.41 | 7.62    | 7.23 | 7.27     | 7.15 | 7.41      | 7.36 |
| 24    | 7.36    | 7.30 | 7.45     | 7.28 | 8.43     | 7.26 | 7.81    | 7.29 | 7.24     | 7.14 | 7.60      | 7.35 |
| 25    | 7.41    | 7.33 | 7.42     | 7.27 | 8.47     | 7.23 | 7.78    | 7.31 | 7.29     | 7.22 | 7.56      | 7.34 |
| 26    | 7.42    | 7.33 | 7.52     | 7.32 | 8.60     | 7.16 | 8.10    | 7.34 | 7.31     | 7.22 | 7.45      | 7.32 |
| 27    | 7.39    | 7.30 | 7.41     | 7.29 | 8.73     | 7.20 | 7.90    | 7.30 | 7.34     | 7.24 | 7.40      | 7.32 |
| 28    | 7.33    | 7.28 | 7.78     | 7.34 | 8.94     | 7.32 | 7.63    | 7.24 | 7.37     | 7.24 | 7.38      | 7.32 |
| 29    | 7.43    | 7.30 | 7.81     | 7.39 | 9.08     | 7.36 | 7.30    | 7.16 | 7.35     | 7.26 | 7.40      | 7.32 |
| 30    | 7.31    | 7.25 | 8.05     | 7.43 | 8.28     | 7.54 | 7.56    | 7.27 | 7.34     | 7.24 | 7.40      | 7.33 |
| 31    | ---     | ---  | 8.23     | 7.41 | ---      | ---  | 7.83    | 7.28 | 7.38     | 7.25 | ---       | ---  |
| MONTH | 7.80    | 7.25 | 8.23     | 7.14 | 9.24     | 7.16 | 9.06    | 7.11 | 8.15     | 7.00 | 7.74      | 7.02 |
| YEAR  | 10.65   | 7.00 |          |      |          |      |         |      |          |      |           |      |



## 02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

## TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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



## 02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
|-------|---------|-----|----------|-----|----------|-----|---------|------|----------|------|-----------|------|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |      | FEBRUARY |      | MARCH     |      |
| 1     | 5.4     | 1.9 | 2.7      | .9  | 4.5      | 3.4 | 9.8     | 9.4  | 10.5     | 9.7  | 10.3      | 9.5  |
| 2     | 3.0     | 1.6 | 3.0      | 1.4 | 5.0      | 4.2 | 9.8     | 9.3  | 9.6      | 9.1  | 10.8      | 9.9  |
| 3     | 3.3     | 1.3 | 1.7      | .9  | 5.0      | 4.1 | 10.7    | 9.6  | 9.0      | 8.5  | 10.8      | 9.0  |
| 4     | 2.6     | 2.0 | 1.7      | .8  | 4.4      | 4.1 | 10.8    | 10.6 | 8.9      | 8.6  | 9.4       | 7.8  |
| 5     | 3.9     | 1.9 | 1.9      | .7  | 5.0      | 4.1 | 10.9    | 10.6 | 9.5      | 8.7  | 8.7       | 7.3  |
| 6     | 4.1     | 2.4 | 1.9      | .8  | 5.3      | 4.6 | 11.3    | 10.8 | 10.7     | 9.6  | 9.2       | 7.7  |
| 7     | 4.6     | 2.4 | 2.1      | .9  | 5.1      | 4.6 | 11.6    | 11.1 | 11.5     | 10.8 | 9.6       | 8.1  |
| 8     | 3.5     | 2.0 | 2.0      | 1.1 | 5.8      | 4.9 | 11.9    | 11.5 | 11.9     | 11.5 | 9.9       | 8.6  |
| 9     | 3.2     | 1.8 | 1.8      | .9  | 5.1      | 4.3 | 12.0    | 11.8 | 11.8     | 11.3 | 9.0       | 7.3  |
| 10    | 4.0     | 1.9 | 2.3      | 1.3 | 4.4      | 3.8 | 11.9    | 11.7 | 11.3     | 10.2 | 8.0       | 6.7  |
| 11    | 3.6     | 2.0 | 3.2      | 1.6 | 4.5      | 3.7 | 11.9    | 11.6 | 10.9     | 9.7  | 9.4       | 7.9  |
| 12    | 3.8     | 1.9 | 3.7      | 2.8 | 4.9      | 4.0 | 11.7    | 11.3 | 9.7      | 5.5  | 9.7       | 9.4  |
| 13    | 3.6     | 2.0 | 4.0      | 3.2 | 4.7      | 4.0 | 11.3    | 11.1 | 10.8     | 8.3  | 9.8       | 9.4  |
| 14    | 3.6     | 2.0 | 3.7      | 3.0 | 5.0      | 3.8 | 11.8    | 11.0 | 11.9     | 10.1 | 9.8       | 9.6  |
| 15    | 3.5     | 1.9 | 3.5      | 2.9 | 6.7      | 4.7 | 12.0    | 11.6 | 11.7     | 10.6 | 10.6      | 9.8  |
| 16    | 3.1     | 1.7 | 3.4      | 2.7 | 6.8      | 5.7 | 12.0    | 11.7 | 10.7     | 9.8  | 11.2      | 10.6 |
| 17    | 2.9     | 1.6 | 4.0      | 2.9 | 7.3      | 6.8 | 11.8    | 11.3 | 11.0     | 10.4 | 11.3      | 10.9 |
| 18    | 2.8     | 1.3 | 4.0      | 2.8 | 8.1      | 7.1 | 11.3    | 10.6 | 10.9     | 10.4 | 10.8      | 10.3 |
| 19    | 2.5     | 1.4 | 4.7      | 3.6 | 8.2      | 7.8 | ---     | ---  | 10.4     | 9.6  | 10.6      | 10.1 |
| 20    | 1.8     | 1.2 | 5.4      | 4.4 | 8.4      | 7.8 | ---     | ---  | 9.5      | 9.3  | 10.8      | 10.2 |
| 21    | 1.7     | 1.1 | 6.6      | 5.3 | 7.8      | 7.1 | ---     | ---  | 10.1     | 9.5  | 10.7      | 9.9  |
| 22    | 1.7     | 1.1 | 6.8      | 5.9 | 7.2      | 6.3 | ---     | ---  | 10.6     | 10.0 | 10.0      | 9.2  |
| 23    | 2.8     | 1.5 | 7.1      | 6.1 | 7.2      | 6.2 | ---     | ---  | 10.8     | 9.5  | 9.4       | 8.5  |
| 24    | 5.5     | 1.9 | 6.4      | 5.4 | 8.3      | 6.4 | 10.7    | 10.3 | 10.6     | 10.0 | 8.5       | 7.8  |
| 25    | 1.7     | 1.0 | 5.4      | 4.3 | 8.6      | 7.3 | 10.8    | 10.6 | 11.5     | 10.3 | 7.8       | 7.0  |
| 26    | 1.2     | .9  | 4.6      | 3.6 | 8.2      | 7.1 | 11.4    | 10.8 | 12.1     | 11.2 | 7.1       | 6.2  |
| 27    | 1.4     | 1.0 | 3.5      | 2.9 | 7.3      | 6.8 | 11.4    | 11.2 | 12.2     | 11.6 | 7.7       | 6.5  |
| 28    | 3.9     | 1.3 | 4.3      | 3.0 | 7.7      | 7.0 | 11.5    | 11.4 | 12.4     | 11.7 | 9.1       | 7.0  |
| 29    | 3.6     | 1.9 | 4.7      | 3.7 | 8.7      | 7.7 | 11.6    | 11.4 | 12.7     | 10.2 | 8.5       | 7.0  |
| 30    | 2.1     | 1.2 | 4.6      | 3.7 | 9.6      | 8.7 | 11.5    | 11.1 | ---      | ---  | 8.7       | 7.9  |
| 31    | 1.6     | .8  | ---      | --- | 9.8      | 9.5 | 11.1    | 10.5 | ---      | ---  | 8.1       | 7.1  |
| MONTH | 5.5     | .8  | 7.1      | .7  | 9.8      | 3.4 | 12.0    | 9.3  | 12.7     | 5.5  | 11.3      | 6.2  |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |      | AUGUST   |      | SEPTEMBER |      |
| 1     | 7.6     | 7.1 | 7.1      | 4.7 | 9.5      | 5.3 | 11.6    | 3.7  | 7.4      | 3.0  | 6.9       | 4.9  |
| 2     | 7.6     | 7.0 | 7.3      | 6.4 | 10.5     | 4.8 | ---     | ---  | 7.7      | 3.3  | 6.8       | 5.1  |
| 3     | 7.4     | 6.8 | 7.4      | 6.2 | 9.4      | 4.6 | ---     | ---  | 7.5      | 3.4  | 6.2       | 4.7  |
| 4     | 7.1     | 5.9 | 7.4      | 6.1 | 10.4     | 4.8 | ---     | ---  | 7.6      | 3.5  | 5.9       | 5.3  |
| 5     | 6.6     | 5.3 | 7.0      | 6.0 | 10.4     | 5.3 | ---     | ---  | 6.6      | 3.5  | 6.7       | 5.8  |
| 6     | 5.8     | 5.1 | 7.7      | 5.9 | 9.9      | 4.7 | 7.8     | 3.8  | 4.6      | 3.7  | 7.1       | 6.7  |
| 7     | 6.6     | 5.5 | 7.1      | 5.7 | 10.7     | 4.8 | 8.8     | 4.8  | 4.5      | 3.9  | 7.3       | 7.1  |
| 8     | 6.8     | 5.4 | 7.2      | 6.6 | 11.2     | 5.1 | 9.9     | 5.4  | 4.5      | 4.0  | 7.4       | 7.2  |
| 9     | 6.7     | 5.2 | 7.1      | 6.0 | 11.3     | 5.7 | 9.6     | 5.6  | 4.7      | 3.6  | 7.2       | 7.0  |
| 10    | 6.4     | 5.0 | 6.4      | 4.7 | 13.3     | 5.2 | 9.7     | 5.5  | 5.0      | 3.7  | 7.0       | 6.6  |
| 11    | 5.9     | 5.1 | 6.4      | 5.2 | 15.4     | 5.5 | 8.8     | 5.9  | 4.4      | 2.7  | 6.9       | 6.3  |
| 12    | 7.7     | 6.0 | 5.8      | 4.9 | 15.7     | 6.0 | 8.2     | 5.1  | 3.9      | 3.2  | 6.8       | 6.1  |
| 13    | 7.9     | 7.5 | 5.2      | 4.0 | 13.4     | 7.0 | 7.1     | 4.8  | 4.3      | 3.4  | 6.5       | 6.2  |
| 14    | 7.9     | 7.4 | 4.8      | 3.4 | 13.1     | 6.7 | 8.7     | 4.1  | 4.9      | 3.2  | 6.5       | 5.0  |
| 15    | 7.5     | 7.2 | 5.2      | 4.3 | 13.4     | 7.3 | 6.2     | 3.8  | 5.5      | 3.2  | 6.0       | 5.1  |
| 16    | 7.3     | 7.0 | 5.1      | 4.6 | 13.3     | 6.6 | 6.6     | 3.6  | 7.1      | 3.2  | 6.2       | 5.7  |
| 17    | 7.3     | 6.9 | 4.5      | 3.0 | 12.4     | 6.7 | 5.3     | 2.3  | 7.6      | 3.8  | 6.7       | 6.0  |
| 18    | 7.2     | 6.1 | 3.3      | 2.7 | 11.6     | 5.7 | 6.8     | 2.3  | 7.0      | 3.4  | 6.6       | 6.2  |
| 19    | 7.3     | 6.4 | 3.9      | 2.7 | ---      | --- | 8.3     | 2.7  | 7.6      | 3.7  | 6.6       | 6.3  |
| 20    | 7.8     | 7.1 | 4.1      | 2.6 | ---      | --- | 8.6     | 3.1  | 5.4      | 3.4  | 6.5       | 6.2  |
| 21    | 7.8     | 7.4 | 5.2      | 2.7 | ---      | --- | 7.5     | 3.8  | 5.5      | 4.4  | 6.3       | 6.2  |
| 22    | 7.5     | 6.8 | 5.9      | 3.1 | ---      | --- | 5.4     | 2.9  | ---      | ---  | 6.3       | 5.8  |
| 23    | 6.9     | 5.7 | 5.8      | 3.1 | 10.5     | 5.6 | 5.7     | 2.4  | ---      | ---  | 6.1       | 5.7  |
| 24    | 6.3     | 5.7 | 5.2      | 3.0 | 11.2     | 4.9 | 6.6     | 3.4  | 5.9      | 5.6  | 5.8       | 5.6  |
| 25    | 6.8     | 5.9 | 5.9      | 2.9 | 11.4     | 4.8 | 6.6     | 3.4  | 5.8      | 5.4  | 5.9       | 5.1  |
| 26    | 6.2     | 5.5 | 6.6      | 4.0 | 11.7     | 3.8 | 7.8     | 3.6  | 5.9      | 5.6  | 5.8       | 5.1  |
| 27    | 5.8     | 5.0 | 6.1      | 4.5 | 11.9     | 3.9 | 7.4     | 3.7  | 6.0      | 5.2  | 5.1       | 5.6  |
| 28    | 5.8     | 4.9 | 8.4      | 4.7 | 12.5     | 3.7 | 6.6     | 3.5  | 6.1      | 5.1  | 6.1       | 5.6  |
| 29    | 5.5     | 4.7 | 8.7      | 5.0 | 12.1     | 4.1 | 4.0     | 2.4  | 6.1      | 4.9  | 6.0       | 5.6  |
| 30    | 5.3     | 4.4 | 9.2      | 5.4 | 8.4      | 4.8 | 5.9     | 3.3  | 6.0      | 4.9  | 6.0       | 5.6  |
| 31    | ---     | --- | 9.5      | 4.8 | ---      | --- | 6.9     | 3.3  | 6.1      | 4.8  | ---       | ---  |
| MONTH | 7.9     | 4.4 | 9.5      | 2.6 | 15.7     | 3.7 | 11.6    | 2.3  | 7.7      | 2.7  | 7.4       | 4.7  |
| YEAR  | 15.7    | .7  |          |     |          |     |         |      |          |      |           |      |

## 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 Coosawattee River.

DRAINAGE AREA.--706 mi<sup>2</sup>.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1100 | 110                                             | --                                                | 636                                                      | 7.50                           | 7.20                                  | 16.0                                 | 15.5                               | 1.2                                 | 12                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1045 | 140                                             | 385                                               | 386                                                      | 7.50                           | 7.60                                  | 8.0                                  | 15.0                               | 5.5                                 | 47                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 30... | 1030 | 660                                             | 239                                               | 226                                                      | 7.40                           | 7.40                                  | 9.0                                  | 6.5                                | 8.4                                 | 73                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1330 | 810                                             | 179                                               | 176                                                      | 7.50                           | 7.50                                  | 5.0                                  | 8.5                                | 11.2                                | 88                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1215 | 340                                             | 196                                               | 189                                                      | 7.50                           | 7.50                                  | 9.5                                  | 16.5                               | 8.9                                 | 79                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1110 | 325                                             | 190                                               | 196                                                      | 7.50                           | 7.70                                  | 16.0                                 | 23.0                               | 8.5                                 | 87                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 0910 | 460                                             | 154                                               | 152                                                      | 7.20                           | 7.40                                  | 19.0                                 | 19.5                               | 5.9                                 | 65                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 25... | 1040 | 110                                             | 192                                               | 194                                                      | 7.40                           | 7.40                                  | 19.0                                 | 22.5                               | 6.0                                 | 66                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1300 | 46                                              | 252                                               | 251                                                      | 8.00                           | 8.00                                  | 29.0                                 | 29.0                               | 8.0                                 | 106                                                            |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 1130 | 80                                              | 222                                               | 227                                                      | 7.60                           | 7.50                                  | 26.0                                 | 30.0                               | 5.9                                 | 74                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 0945 | 410                                             | 119                                               | 117                                                      | 7.10                           | 7.10                                  | 25.0                                 | 25.0                               | 4.9                                 | 60                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1010 | 84                                              | 201                                               | 201                                                      | 7.40                           | 7.60                                  | 22.5                                 | 22.0                               | 5.8                                 | 68                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CACO3 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 27... | 7.0                          | >7.2                                                           | --                                               | 140                                             | 5                                                                 | 135                                                             | <0.020                                               | 5.50                                                 | 7.19                                        | --                                            |
| NOV   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 23... | 6.0                          | 4.9                                                            | 170                                              | 120                                             | 17                                                                | 103                                                             | 0.270                                                | 1.48                                                 | 3.23                                        | 25                                            |
| DEC   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 30... | 19                           | --                                                             | --                                               | 81                                              | 11                                                                | 70                                                              | 0.300                                                | 0.700                                                | 1.34                                        | 13                                            |
| JAN   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 27... | 15                           | 2.4                                                            | 3900                                             | 66                                              | 15                                                                | 51                                                              | 0.580                                                | 0.420                                                | 0.770                                       | 5.8                                           |
| FEB   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 23... | 10                           | 1.0                                                            | 4600                                             | 81                                              | 20                                                                | 61                                                              | 0.240                                                | 0.230                                                | 0.930                                       | 11                                            |
| MAR   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 29... | 7.0                          | 2.8                                                            | 490                                              | 81                                              | 8                                                                 | 73                                                              | 0.320                                                | 0.230                                                | 0.670                                       | 6.8                                           |
| APR   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 26... | 22                           | 2.1                                                            | --                                               | 63                                              | 7                                                                 | 56                                                              | 0.430                                                | 0.200                                                | 0.510                                       | 5.0                                           |
| MAY   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 25... | 17                           | 2.5                                                            | 170                                              | 81                                              | 11                                                                | 70                                                              | 0.710                                                | 0.110                                                | 0.420                                       | 4.5                                           |
| JUN   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 28... | 13                           | 1.5                                                            | --                                               | 99                                              | 12                                                                | 87                                                              | 0.480                                                | 0.060                                                | 0.750                                       | 7.6                                           |
| JUL   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 26... | 12                           | 1.7                                                            | 490                                              | 93                                              | 23                                                                | 70                                                              | 0.460                                                | 0.060                                                | 0.360                                       | 7.9                                           |
| AUG   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 23... | 88                           | 1.7                                                            | 790                                              | 36                                              | 1                                                                 | 35                                                              | 0.510                                                | 0.140                                                | 0.380                                       | 9.4                                           |
| SEP   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 27... | 37                           | 1.4                                                            | 330                                              | 84                                              | 18                                                                | 66                                                              | 0.650                                                | 0.070                                                | 0.290                                       | 6.3                                           |

## 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 mi<sup>2</sup>.

## 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.--Estimated daily discharges: Dec. 9 to Jan. 6. 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.--96 years, 2,780 ft<sup>3</sup>/s, 23.60 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,800 ft<sup>3</sup>/s Mar. 31, 1951; maximum gage height, 34.6 ft Mar. 31, 1951; minimum discharge observed, 180 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,400 ft<sup>3</sup>/s, Jan. 21, gage height, 16.43 ft; minimum daily discharge, 330 ft<sup>3</sup>/s, Oct. 16.

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                 | 437    | 427   | 509   | 860   | 1110  | 851   | 884   | 1340  | 474   | 339   | 435   | 372   |
| 2                 | 457    | 404   | 495   | 900   | 1080  | 815   | 998   | 1280  | 476   | 351   | 446   | 391   |
| 3                 | 511    | 368   | 457   | 1000  | 1650  | 812   | 1070  | 1150  | 408   | 383   | 440   | 443   |
| 4                 | 498    | 393   | 464   | 1150  | 2780  | 873   | 1120  | 1120  | 430   | 392   | 442   | 1010  |
| 5                 | 445    | 407   | 446   | 1100  | 3090  | 979   | 1220  | 1200  | 431   | 400   | 491   | 2090  |
| 6                 | 420    | 389   | 486   | 1000  | 2250  | 959   | 1170  | 1240  | 422   | 443   | 599   | 2260  |
| 7                 | 413    | 373   | 493   | 954   | 1830  | 881   | 1100  | 953   | 428   | 424   | 667   | 1220  |
| 8                 | 379    | 377   | 454   | 897   | 1550  | 833   | 1130  | 737   | 424   | 444   | 712   | 819   |
| 9                 | 368    | 378   | 460   | 936   | 1930  | 972   | 1090  | 728   | 396   | 450   | 590   | 678   |
| 10                | 362    | 429   | 440   | 929   | 2070  | 1580  | 1040  | 730   | 382   | 452   | 525   | 591   |
| 11                | 362    | 488   | 410   | 835   | 2070  | 2580  | 1010  | 1010  | 390   | 390   | 642   | 594   |
| 12                | 352    | 474   | 410   | 796   | 2000  | 2650  | 3200  | 841   | 396   | 409   | 671   | 768   |
| 13                | 355    | 480   | 400   | 831   | 1590  | 2850  | 4800  | 730   | 369   | 456   | 523   | 1880  |
| 14                | 378    | 465   | 400   | 1170  | 1450  | 2780  | 3860  | 678   | 385   | 416   | 493   | 1110  |
| 15                | 354    | 443   | 470   | 1290  | 1420  | 2220  | 3050  | 674   | 368   | 454   | 439   | 686   |
| 16                | 330    | 425   | 690   | 1110  | 1490  | 1790  | 2360  | 674   | 350   | 513   | 430   | 544   |
| 17                | 562    | 497   | 700   | 1280  | 1560  | 1580  | 1960  | 620   | 347   | 561   | 457   | 764   |
| 18                | 625    | 627   | 700   | 3370  | 1510  | 1330  | 1980  | 558   | 365   | 482   | 448   | 981   |
| 19                | 354    | 589   | 620   | 4060  | 1430  | 1270  | 3450  | 559   | 449   | 417   | 445   | 823   |
| 20                | 340    | 535   | 580   | 9880  | 1450  | 1210  | 4470  | 564   | 403   | 382   | 848   | 797   |
| 21                | 408    | 545   | 570   | 11100 | 1450  | 1110  | 3290  | 549   | 403   | 401   | 1450  | 734   |
| 22                | 413    | 542   | 560   | 9190  | 1390  | 1020  | 2570  | 556   | 400   | 441   | 1480  | 608   |
| 23                | 419    | 486   | 530   | 5270  | 1150  | 970   | 2270  | 523   | 418   | 539   | 869   | 528   |
| 24                | 421    | 476   | 580   | 2130  | 999   | 944   | 2120  | 526   | 423   | 530   | 669   | 523   |
| 25                | 426    | 462   | 710   | 1800  | 889   | 954   | 1940  | 535   | 387   | 509   | 600   | 543   |
| 26                | 410    | 456   | 790   | 1650  | 865   | 1110  | 1830  | 533   | 389   | 461   | 537   | 717   |
| 27                | 422    | 465   | 830   | 1540  | 853   | 1130  | 1770  | 543   | 345   | 431   | 473   | 667   |
| 28                | 438    | 483   | 1100  | 1400  | 873   | 1020  | 1700  | 558   | 350   | 535   | 442   | 568   |
| 29                | 422    | 509   | 1600  | 1290  | 855   | 935   | 1590  | 548   | 347   | 553   | 409   | 527   |
| 30                | 425    | 481   | 1200  | 1250  | ---   | 856   | 1500  | 523   | 351   | 560   | 409   | 509   |
| 31                | 419    | ---   | 940   | 1200  | ---   | 872   | ---   | 496   | ---   | 505   | 378   | ---   |
| TOTAL             | 12925  | 13873 | 19494 | 72168 | 44634 | 40736 | 61542 | 23276 | 11906 | 14023 | 18459 | 24745 |
| MEAN              | 417    | 462   | 629   | 2328  | 1539  | 1314  | 2051  | 751   | 397   | 452   | 595   | 825   |
| MAX               | 625    | 627   | 1600  | 11100 | 3090  | 2850  | 4800  | 1340  | 476   | 561   | 1480  | 2260  |
| MIN               | 330    | 368   | 400   | 796   | 853   | 812   | 884   | 496   | 345   | 339   | 378   | 372   |
| CAL YR 1987 TOTAL | 677486 |       |       | 1856  |       | 17000 |       | 1808  |       | 1.13  |       | 15.32 |
| WTR YR 1988 TOTAL | 357781 |       |       | 978   |       | 11100 |       | 1000  |       | .62   |       | 8.50  |

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND RE-REGULATION DAM.

## 02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN   | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|-------|------|------|------|------|------|------|------|------|
| 1    | 1.77 | 1.74 | 1.92 | ---   | 3.34 | 2.80 | 2.88 | 3.80 | 1.90 | 1.47 | 1.72 | 1.66 |
| 2    | 1.83 | 1.68 | 1.89 | ---   | 3.29 | 2.72 | 3.12 | 3.69 | 1.90 | 1.51 | 1.76 | 1.71 |
| 3    | 1.98 | 1.58 | 1.80 | ---   | 4.37 | 2.71 | 3.27 | 3.43 | 1.74 | 1.60 | 1.74 | 1.85 |
| 4    | 1.94 | 1.65 | 1.82 | ---   | 6.28 | 2.85 | 3.38 | 3.37 | 1.79 | 1.63 | 1.75 | 3.10 |
| 5    | 1.80 | 1.69 | 1.77 | ---   | 6.81 | 3.08 | 3.56 | 3.53 | 1.80 | 1.65 | 1.90 | 5.14 |
| 6    | 1.73 | 1.64 | 1.87 | ---   | 5.42 | 3.04 | 3.47 | 3.60 | 1.78 | 1.78 | 2.20 | 5.44 |
| 7    | 1.71 | 1.59 | 1.88 | 3.03  | 4.71 | 2.87 | 3.33 | 3.01 | 1.79 | 1.72 | 2.37 | 3.55 |
| 8    | 1.61 | 1.60 | 1.79 | 2.90  | 4.19 | 2.76 | 3.40 | 2.54 | 1.78 | 1.78 | 2.48 | 2.74 |
| 9    | 1.58 | 1.60 | ---  | 2.99  | 4.88 | 3.06 | 3.30 | 2.52 | 1.71 | 1.80 | 2.18 | 2.43 |
| 10   | 1.56 | 1.74 | ---  | 2.98  | 5.11 | 4.24 | 3.21 | 2.52 | 1.67 | 1.80 | 2.01 | 2.23 |
| 11   | 1.56 | 1.88 | ---  | 2.77  | 5.12 | 5.97 | 3.15 | 3.14 | 1.68 | 1.60 | 2.30 | 2.23 |
| 12   | 1.53 | 1.85 | ---  | 2.68  | 4.99 | 6.09 | 6.81 | 2.78 | 1.71 | 1.66 | 2.38 | 2.62 |
| 13   | 1.54 | 1.86 | ---  | 2.76  | 4.26 | 6.43 | 9.14 | 2.52 | 1.60 | 1.80 | 2.01 | 4.78 |
| 14   | 1.61 | 1.83 | ---  | 3.48  | 3.99 | 6.31 | 7.92 | 2.40 | 1.66 | 1.68 | 1.91 | 3.34 |
| 15   | 1.53 | 1.77 | ---  | 3.71  | 3.94 | 5.38 | 6.75 | 2.39 | 1.59 | 1.79 | 1.73 | 2.45 |
| 16   | 1.46 | 1.73 | ---  | 3.34  | 4.07 | 4.62 | 5.60 | 2.39 | 1.53 | 1.98 | 1.71 | 2.11 |
| 17   | 2.07 | 1.90 | ---  | 3.66  | 4.21 | 4.25 | 4.93 | 2.25 | 1.52 | 2.10 | 1.79 | 2.61 |
| 18   | 2.21 | 2.21 | ---  | 7.21  | 4.11 | 3.78 | 4.96 | 2.10 | 1.58 | 1.87 | 1.76 | 3.09 |
| 19   | 1.53 | 2.11 | ---  | 8.19  | 3.96 | 3.67 | 7.26 | 2.10 | 1.82 | 1.67 | 1.75 | 2.75 |
| 20   | 1.49 | 1.99 | ---  | 14.87 | 4.00 | 3.56 | 8.72 | 2.11 | 1.70 | 1.57 | 2.74 | 2.70 |
| 21   | 1.69 | 2.01 | ---  | 16.12 | 4.00 | 3.35 | 7.11 | 2.08 | 1.70 | 1.62 | 3.99 | 2.56 |
| 22   | 1.71 | 2.00 | ---  | 14.23 | 3.88 | 3.17 | 5.96 | 2.09 | 1.69 | 1.75 | 4.05 | 2.27 |
| 23   | 1.72 | 1.88 | ---  | 9.62  | 3.42 | 3.06 | 5.46 | 2.01 | 1.74 | 2.05 | 2.85 | 2.07 |
| 24   | 1.73 | 1.85 | ---  | 5.22  | 3.12 | 3.01 | 5.20 | 2.02 | 1.75 | 2.03 | 2.41 | 2.06 |
| 25   | 1.74 | 1.81 | ---  | 4.65  | 2.89 | 3.03 | 4.89 | 2.04 | 1.64 | 1.96 | 2.25 | 2.11 |
| 26   | 1.70 | 1.80 | ---  | 4.38  | 2.83 | 3.35 | 4.71 | 2.03 | 1.64 | 1.80 | 2.10 | 2.52 |
| 27   | 1.73 | 1.82 | ---  | 4.16  | 2.81 | 3.40 | 4.59 | 2.06 | 1.49 | 1.71 | 1.93 | 2.40 |
| 28   | 1.77 | 1.86 | ---  | 3.91  | 2.85 | 3.16 | 4.46 | 2.10 | 1.50 | 2.02 | 1.85 | 2.17 |
| 29   | 1.73 | 1.93 | ---  | 3.71  | 2.81 | 2.99 | 4.26 | 2.07 | 1.50 | 2.09 | 1.76 | 2.07 |
| 30   | 1.74 | 1.86 | ---  | 3.63  | ---  | 2.81 | 4.10 | 2.01 | 1.51 | 2.10 | 1.77 | 2.02 |
| 31   | 1.72 | ---  | ---  | 3.53  | ---  | 2.85 | ---  | 1.95 | ---  | 1.95 | 1.68 | ---  |
| MEAN | 1.71 | 1.82 | ---  | ---   | 4.13 | 3.69 | 4.96 | 2.54 | 1.68 | 1.79 | 2.16 | 2.69 |
| MAX  | 2.21 | 2.21 | ---  | ---   | 6.81 | 6.43 | 9.14 | 3.80 | 1.90 | 2.10 | 4.05 | 5.44 |
| MIN  | 1.46 | 1.58 | ---  | ---   | 2.81 | 2.71 | 2.88 | 1.95 | 1.49 | 1.47 | 1.68 | 1.66 |

## MOBILE RIVER BASIN

02387500 OOSTANULA 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 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|--------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                      |                                                              |                                                               |
| 05... | 1541 | 84213                                                  | 443                                             | 20.0                                 | 17                                                           | 20                                                            |
| 05... | 1546 | 84213                                                  | 443                                             | 20.0                                 | 19                                                           | 23                                                            |
| NOV   |      |                                                        |                                                 |                                      |                                                              |                                                               |
| 18... | 1113 | 84213                                                  | 641                                             | 14.0                                 | 10                                                           | 17                                                            |
| 18... | 1118 | 84213                                                  | 641                                             | 14.0                                 | 10                                                           | 17                                                            |
| JAN   |      |                                                        |                                                 |                                      |                                                              |                                                               |
| 06... | 1050 | 84213                                                  | 1020                                            | --                                   | 16                                                           | 44                                                            |
| 06... | 1055 | 84213                                                  | 1020                                            | --                                   | 16                                                           | 44                                                            |
| 20... | 1125 | 84213                                                  | 10500                                           | --                                   | 542                                                          | 15300                                                         |
| 20... | 1656 | 84213                                                  | 11100                                           | --                                   | 384                                                          | 11500                                                         |
| 20... | 1701 | 84213                                                  | 11100                                           | --                                   | 389                                                          | 11700                                                         |
| 21... | 1409 | 84213                                                  | 11200                                           | --                                   | 207                                                          | 6260                                                          |
| 21... | 1414 | 84213                                                  | 11200                                           | --                                   | 189                                                          | 5720                                                          |
| 22... | 1357 | 84213                                                  | 9000                                            | --                                   | 132                                                          | 3210                                                          |
| 24... | 1113 | 84213                                                  | 2120                                            | --                                   | 45                                                           | 257                                                           |
| 24... | 1118 | 84213                                                  | 2120                                            | --                                   | 44                                                           | 251                                                           |
| FEB   |      |                                                        |                                                 |                                      |                                                              |                                                               |
| 03... | 1024 | 84213                                                  | 1640                                            | --                                   | 41                                                           | 182                                                           |
| 03... | 1029 | 84213                                                  | 1640                                            | --                                   | 42                                                           | 186                                                           |
| MAR   |      |                                                        |                                                 |                                      |                                                              |                                                               |
| 16... | 1051 | 84213                                                  | 1780                                            | 7.0                                  | 31                                                           | 149                                                           |
| 16... | 1056 | 84213                                                  | 1780                                            | 7.0                                  | 33                                                           | 159                                                           |
| APR   |      |                                                        |                                                 |                                      |                                                              |                                                               |
| 28... | 0910 | 84213                                                  | 1710                                            | --                                   | 29                                                           | 134                                                           |
| 28... | 0915 | 84213                                                  | 1710                                            | --                                   | 29                                                           | 134                                                           |
| JUN   |      |                                                        |                                                 |                                      |                                                              |                                                               |
| 09... | 0756 | 84213                                                  | 397                                             | 21.0                                 | 14                                                           | 15                                                            |
| 09... | 0801 | 84213                                                  | 397                                             | 21.0                                 | 14                                                           | 15                                                            |
| JUL   |      |                                                        |                                                 |                                      |                                                              |                                                               |
| 20... | 0809 | 84213                                                  | 379                                             | 24.5                                 | 18                                                           | 18                                                            |
| 20... | 0814 | 84213                                                  | 379                                             | 24.5                                 | 19                                                           | 19                                                            |
| AUG   |      |                                                        |                                                 |                                      |                                                              |                                                               |
| 26... | 0810 | 84213                                                  | 536                                             | 23.0                                 | 36                                                           | 52                                                            |
| 26... | 0815 | 84213                                                  | 536                                             | 23.0                                 | 36                                                           | 52                                                            |

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.125 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.250 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.500 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>1.00 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>2.00 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>4.00 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>8.00 MM | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>16.0 MM |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| JAN   |      |                                                        |                                                 |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |
| 20... | 1120 | 84213                                                  | 10500                                           | 90                                                            | 93                                                            | 96                                                            | 97                                                            | 100                                                           | 100                                                           |                                                               |                                                               |                                                               |
| 20... | 1125 | 84213                                                  | 10500                                           | 87                                                            | --                                                            | --                                                            | --                                                            | --                                                            | --                                                            |                                                               |                                                               |                                                               |
| 22... | 1357 | 84213                                                  | 9000                                            | 76                                                            | --                                                            | --                                                            | --                                                            | --                                                            | --                                                            |                                                               |                                                               |                                                               |
| OCT   |      |                                                        |                                                 |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |
| 30... | 1204 | 84213                                                  | 425                                             | <1                                                            | 2                                                             | 4                                                             | 10                                                            | 43                                                            | 84                                                            | 95                                                            | 99                                                            | 100                                                           |
| 30... | 1205 | 84213                                                  | 425                                             | --                                                            | <1                                                            | 3                                                             | 7                                                             | 60                                                            | 98                                                            | 100                                                           | --                                                            | --                                                            |
| 30... | 1206 | 84213                                                  | 425                                             | <1                                                            | 2                                                             | 5                                                             | 19                                                            | 88                                                            | 100                                                           | --                                                            | --                                                            | --                                                            |
| 30... | 1207 | 84213                                                  | 425                                             | --                                                            | <1                                                            | 3                                                             | 7                                                             | 60                                                            | 98                                                            | 100                                                           | --                                                            | --                                                            |
| JAN   |      |                                                        |                                                 |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |
| 24... | 1140 | 84213                                                  | 2110                                            | --                                                            | <1                                                            | 1                                                             | 16                                                            | 67                                                            | 97                                                            | 100                                                           | --                                                            | --                                                            |
| 24... | 1141 | 84213                                                  | 2110                                            | --                                                            | <1                                                            | 1                                                             | 13                                                            | 36                                                            | 50                                                            | 60                                                            | 80                                                            | 100                                                           |
| 24... | 1142 | 84213                                                  | 2110                                            | --                                                            | --                                                            | <1                                                            | 8                                                             | 59                                                            | 96                                                            | 100                                                           | --                                                            | --                                                            |
| JUN   |      |                                                        |                                                 |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |
| 21... | 0938 | 84213                                                  | 404                                             | 7                                                             | 22                                                            | 53                                                            | 90                                                            | 97                                                            | 100                                                           | 100                                                           | --                                                            | --                                                            |
| 21... | 0939 | 84213                                                  | 404                                             | <1                                                            | 2                                                             | 6                                                             | 26                                                            | 84                                                            | 98                                                            | 100                                                           | 100                                                           | --                                                            |
| 21... | 0940 | 84213                                                  | 404                                             | 4                                                             | 9                                                             | 13                                                            | 27                                                            | 82                                                            | 100                                                           | 100                                                           | --                                                            | --                                                            |
| 21... | 0941 | 84213                                                  | 404                                             | <1                                                            | 2                                                             | 4                                                             | 8                                                             | 44                                                            | 88                                                            | 99                                                            | 100                                                           | 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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 27... | 1030 | 418                                             | 229                                               | 228                                                      | 7.40                           | 7.10                                  | 15.0                                 | 16.5                               | 6.2                                 | 63                                                             |
| NOV 23... | 1030 | 481                                             | 173                                               | 171                                                      | 7.40                           | 7.50                                  | 7.5                                  | 15.0                               | 8.6                                 | 72                                                             |
| DEC 30... | 1100 | 1250                                            | 180                                               | 172                                                      | 7.40                           | 7.40                                  | 8.5                                  | 7.0                                | 8.8                                 | 75                                                             |
| JAN 27... | 1400 | 1530                                            | 148                                               | 145                                                      | 7.50                           | 7.40                                  | 5.0                                  | 8.5                                | 11.6                                | 91                                                             |
| FEB 23... | 1145 | 1120                                            | 123                                               | 116                                                      | 7.50                           | 7.40                                  | 8.5                                  | 16.0                               | 10.4                                | 90                                                             |
| MAR 29... | 1045 | 944                                             | 132                                               | 134                                                      | 7.50                           | 7.70                                  | 14.0                                 | 21.5                               | 9.6                                 | 94                                                             |
| APR 26... | 0845 | 1840                                            | 86                                                | 85                                                       | 7.20                           | 7.40                                  | 16.0                                 | 19.0                               | 8.7                                 | 90                                                             |
| MAY 25... | 1115 | 539                                             | 102                                               | 107                                                      | 7.40                           | 7.40                                  | 19.5                                 | 23.0                               | 6.8                                 | 76                                                             |
| JUN 28... | 1240 | 359                                             | 83                                                | 82                                                       | 7.40                           | 7.50                                  | 23.5                                 | 28.0                               | 7.9                                 | 95                                                             |
| JUL 26... | 1200 | 468                                             | 108                                               | 108                                                      | 7.50                           | 7.60                                  | 23.5                                 | 30.0                               | 7.4                                 | 89                                                             |
| AUG 23... | 0900 | 904                                             | 99                                                | 97                                                       | 7.10                           | 7.10                                  | 25.0                                 | 25.0                               | 7.7                                 | 95                                                             |
| SEP 27... | 0945 | 670                                             | 139                                               | 138                                                      | 7.40                           | 7.50                                  | 22.0                                 | 21.0                               | 6.7                                 | 78                                                             |

| DATE      | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 27... | 5.0                          | 6.0                                                            | --                                               | 75                                              | 15                                                                | 60                                                            | 0.210                                                | 0.890                                                | 1.70                                        | --                                            |
| NOV 23... | 5.0                          | 2.2                                                            | 35                                               | 57                                              | 4                                                                 | 53                                                            | 0.320                                                | 0.290                                                | 0.840                                       | 7.2                                           |
| DEC 30... | 24                           | --                                                             | --                                               | 66                                              | 10                                                                | 56                                                            | 0.390                                                | 0.350                                                | 0.750                                       | 2.0                                           |
| JAN 27... | 15                           | 2.0                                                            | 790                                              | 60                                              | 12                                                                | 48                                                            | 0.600                                                | 0.210                                                | 0.400                                       | 3.5                                           |
| FEB 23... | 8.0                          | 1.1                                                            | 1100                                             | 54                                              | 13                                                                | 41                                                            | 0.320                                                | 0.090                                                | 0.250                                       | 4.9                                           |
| MAR 29... | 6.0                          | 1.7                                                            | --                                               | 60                                              | 8                                                                 | 52                                                            | 0.300                                                | 0.080                                                | 0.250                                       | 3.3                                           |
| APR 26... | 15                           | 1.2                                                            | --                                               | 39                                              | 8                                                                 | 31                                                            | 0.300                                                | 0.060                                                | 0.120                                       | 2.3                                           |
| MAY 25... | 10                           | 1.1                                                            | 120                                              | 42                                              | 4                                                                 | 38                                                            | 0.420                                                | 0.040                                                | 0.110                                       | 2.5                                           |
| JUN 28... | 9.0                          | 1.0                                                            | --                                               | 30                                              | 0                                                                 | 30                                                            | 0.230                                                | 0.030                                                | 0.090                                       | 2.0                                           |
| JUL 26... | 12                           | 1.2                                                            | 170                                              | 39                                              | 3                                                                 | 36                                                            | 0.250                                                | 0.030                                                | 0.100                                       | 2.7                                           |
| AUG 23... | 55                           | 1.7                                                            | 1300                                             | 33                                              | 1                                                                 | 32                                                            | 0.360                                                | 0.050                                                | 0.160                                       | 6.3                                           |
| SEP 27... | 24                           | 1.7                                                            | 230                                              | 57                                              | 14                                                                | 43                                                            | 0.560                                                | 0.050                                                | 0.170                                       | 3.2                                           |

## 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 Antioch Church Road (revised), 4 mi upstream from Little Armuchee Creek, and 9.5 mi northwest of Rome.

DRAINAGE AREA.--14.7 mi<sup>2</sup>.

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.--No estimated daily discharges. Records good to fair, except those for periods affected by beaverdam, Oct. 1 to Jan. 19, and Sept. 17-30, which are fair.

AVERAGE DISCHARGE.--20 years, 25.0 ft<sup>3</sup>/s, 23.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.03 ft, Mar. 4, 1979 (discharge not determined); minimum daily discharge, 0.54 ft<sup>3</sup>/s, Aug. 18, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft<sup>3</sup>/s and maximum (\*):

| Date                                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|------------------------------------------------------------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20                                                    | 0200 | *571                              | *6.26               | No other peak greater than base discharge. |      |                                   |                     |
| Minimum daily discharge, 0.54 ft <sup>3</sup> /s, Aug. 18. |      |                                   |                     |                                            |      |                                   |                     |

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           | 1.1   | 2.1     | 1.1    | 7.0   | 8.9   | 5.4   | 7.3   | 5.7  | 1.6   | 1.2   | .77   | .72    |
| 2           | .94   | 2.2     | 1.1    | 7.3   | 16    | 5.2   | 7.7   | 5.2  | 1.6   | .84   | .60   | .66    |
| 3           | .86   | 2.3     | 1.0    | 6.6   | 26    | 5.4   | 7.2   | 4.6  | 1.7   | .82   | .57   | 2.0    |
| 4           | .79   | 2.1     | 1.0    | 8.1   | 33    | 9.3   | 7.7   | 4.7  | 1.4   | .82   | .57   | 20     |
| 5           | .96   | 2.3     | .98    | 6.2   | 30    | 8.2   | 6.4   | 4.3  | 1.3   | 2.4   | 3.7   | 4.2    |
| 6           | 1.0   | 2.1     | .92    | 4.9   | 24    | 6.8   | 6.1   | 3.7  | 1.6   | 1.3   | 1.0   | 1.8    |
| 7           | 1.4   | 2.2     | .75    | 4.8   | 21    | 6.3   | 5.6   | 3.4  | 1.5   | .57   | .67   | 1.4    |
| 8           | 1.0   | 2.2     | .92    | 4.9   | 18    | 6.0   | 5.2   | 3.2  | 1.5   | .72   | .92   | 1.3    |
| 9           | 1.2   | 2.3     | .82    | 4.6   | 15    | 22    | 5.0   | 3.3  | 1.5   | .76   | .80   | 1.2    |
| 10          | 1.3   | 3.4     | .79    | 3.8   | 13    | 34    | 4.7   | 4.2  | 1.5   | .77   | .70   | 1.2    |
| 11          | 1.1   | 1.9     | .80    | 3.2   | 12    | 30    | 8.3   | 3.3  | 1.4   | .78   | .73   | 1.4    |
| 12          | 1.2   | 1.6     | .77    | 3.0   | 11    | 30    | 120   | 2.9  | 1.5   | .88   | .76   | 10     |
| 13          | 1.4   | 1.6     | .69    | 5.2   | 9.8   | 78    | 62    | 2.7  | 1.6   | 1.0   | .62   | 5.5    |
| 14          | 1.4   | 1.6     | .77    | 7.4   | 9.1   | 46    | 39    | 2.6  | 1.5   | 1.5   | .61   | 2.9    |
| 15          | 1.5   | 1.6     | 11     | 7.8   | 12    | 34    | 28    | 4.1  | 1.5   | 1.4   | .71   | 2.0    |
| 16          | 1.5   | 1.6     | 3.9    | 7.0   | 11    | 27    | 21    | 3.6  | 1.5   | 3.8   | .63   | 1.8    |
| 17          | 2.1   | 4.0     | 2.7    | 37    | 9.2   | 22    | 17    | 2.5  | 1.5   | 3.3   | .56   | 27     |
| 18          | 1.5   | 2.4     | 2.4    | 44    | 8.6   | 20    | 28    | 2.3  | 1.5   | 2.1   | .54   | 14     |
| 19          | 1.5   | 1.9     | 2.4    | 93    | 9.9   | 17    | 41    | 2.1  | 1.9   | 1.4   | .55   | 6.7    |
| 20          | 1.5   | 1.6     | 3.2    | 434   | 9.7   | 15    | 28    | 1.9  | 1.8   | 1.0   | 1.2   | 5.2    |
| 21          | 1.4   | 1.5     | 3.9    | 89    | 8.4   | 13    | 23    | 1.8  | 1.5   | .78   | 1.3   | 5.2    |
| 22          | 1.4   | 1.4     | 3.6    | 48    | 7.8   | 11    | 18    | 1.7  | 1.3   | .95   | .91   | 3.4    |
| 23          | 1.8   | 1.4     | 2.8    | 31    | 7.5   | 10    | 15    | 1.7  | 1.4   | 1.5   | .93   | 2.4    |
| 24          | 1.9   | 1.3     | 8.5    | 24    | 7.1   | 9.2   | 13    | 2.1  | 1.4   | .80   | 1.4   | 2.0    |
| 25          | 1.9   | 1.2     | 7.1    | 24    | 6.6   | 11    | 12    | 2.0  | 1.1   | .74   | 1.0   | 3.0    |
| 26          | 2.0   | 1.2     | 6.0    | 17    | 6.3   | 11    | 11    | 1.5  | 1.2   | .71   | .98   | 2.6    |
| 27          | 2.6   | 1.2     | 7.2    | 14    | 6.2   | 9.2   | 9.3   | 1.5  | 1.2   | .58   | .75   | 2.1    |
| 28          | 2.2   | 1.3     | 10     | 12    | 5.9   | 8.3   | 7.8   | 1.5  | .80   | .67   | .69   | 1.8    |
| 29          | 2.1   | 1.5     | 8.2    | 12    | 5.7   | 7.7   | 6.9   | 1.6  | 1.1   | .70   | .71   | 1.7    |
| 30          | 2.2   | 1.2     | 5.9    | 10    | ---   | 8.0   | 6.3   | 1.6  | .98   | .56   | .84   | 1.4    |
| 31          | 2.2   | ---     | 4.8    | 9.4   | ---   | 7.3   | ---   | 1.6  | ---   | .58   | .62   | ---    |
| TOTAL       | 46.95 | 56.2    | 106.01 | 990.2 | 368.7 | 533.3 | 577.5 | 88.9 | 42.88 | 35.93 | 27.34 | 136.58 |
| MEAN        | 1.51  | 1.87    | 3.42   | 31.9  | 12.7  | 17.2  | 19.3  | 2.87 | 1.43  | 1.16  | .88   | 4.55   |
| MAX         | 2.6   | 4.0     | 11     | 434   | 33    | 78    | 120   | 5.7  | 1.9   | 3.8   | 3.7   | 27     |
| MIN         | .79   | 1.2     | .69    | 3.0   | 5.7   | 5.2   | 4.7   | 1.5  | .80   | .56   | .54   | .66    |
| CFSM        | .10   | .13     | .23    | 2.17  | .86   | 1.17  | 1.31  | .20  | .10   | .08   | .06   | .31    |
| IN.         | .12   | .14     | .27    | 2.51  | .93   | 1.35  | 1.46  | .22  | .11   | .09   | .07   | .35    |
| CAL YR 1987 | TOTAL | 5535.20 | MEAN   | 15.2  | MAX   | 357   | MIN   | .69  | CFSM  | 1.03  | IN    | 14.01  |
| WTR YR 1988 | TOTAL | 3010.49 | MEAN   | 8.23  | MAX   | 434   | MIN   | .54  | CFSM  | .56   | IN    | 7.62   |

## 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, 5.2 mi west of Armuchee (revised), and 9.7 mi northwest of Rome.

DRAINAGE AREA.--16.6 mi<sup>2</sup>.

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: Dec. 3-15. Records good, except those for the period Apr. 27 to June 7, which are fair, and those for the period Dec. 3-15, which are poor.

AVERAGE DISCHARGE.--6 years, 22.4 ft<sup>3</sup>/s, 18.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 900 ft<sup>3</sup>/s, May 8, 1984, gage height, 8.10 ft; minimum daily discharge, 0.65 ft<sup>3</sup>/s, Aug. 19, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 400 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Jan. 20 | 0030 | *630                           | *6.67            | No other peak greater than base discharge. |      |                                |                  |

Minimum daily discharge, 0.65 ft<sup>3</sup>/s, Aug. 19.

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                 | 1.1     | 2.6  | 1.4    | 7.4       | 10      | 6.5     | 8.4       | 7.6      | 1.8   | .99   | 1.2   | .85    |
| 2                 | 1.2     | 2.8  | 1.3    | 7.9       | 19      | 6.2     | 8.9       | 6.6      | 1.7   | .85   | 1.1   | .76    |
| 3                 | 1.0     | 2.8  | 1.2    | 7.3       | 31      | 6.4     | 8.3       | 6.2      | 1.7   | 1.0   | .97   | 2.6    |
| 4                 | .82     | 2.7  | 1.1    | 9.2       | 39      | 11      | 8.8       | 6.2      | 1.6   | 1.2   | 1.0   | 21     |
| 5                 | 1.0     | 2.7  | 1.1    | 7.5       | 36      | 9.7     | 7.5       | 5.6      | 1.5   | 3.1   | 6.0   | 6.8    |
| 6                 | 1.1     | 2.6  | 1.0    | 6.5       | 29      | 8.1     | 7.1       | 5.0      | 1.6   | 2.6   | 2.4   | 3.8    |
| 7                 | 1.5     | 2.7  | .76    | 7.0       | 25      | 7.4     | 6.7       | 4.6      | 1.7   | 1.3   | 1.0   | 2.8    |
| 8                 | 1.2     | 2.9  | .83    | 6.8       | 22      | 7.0     | 6.3       | 4.2      | 1.8   | .89   | 1.3   | 2.4    |
| 9                 | 1.1     | 3.2  | .78    | 6.3       | 20      | 26      | 6.1       | 4.3      | 1.6   | .87   | 1.2   | 1.7    |
| 10                | 1.3     | 4.6  | .74    | 5.9       | 17      | 42      | 5.8       | 5.5      | 1.6   | .87   | 1.0   | 1.3    |
| 11                | 1.0     | 2.8  | .72    | 5.6       | 15      | 37      | 9.5       | 4.4      | 1.6   | 1.0   | 1.1   | 1.6    |
| 12                | 1.2     | 2.4  | .68    | 5.4       | 14      | 35      | 135       | 3.7      | 1.6   | 1.1   | 1.2   | 9.6    |
| 13                | 1.3     | 2.4  | .67    | 7.1       | 12      | 89      | 72        | 3.5      | 1.6   | 1.1   | .94   | 6.8    |
| 14                | 1.3     | 2.3  | .80    | 10        | 11      | 48      | 47        | 3.3      | 1.5   | 1.2   | .91   | 4.3    |
| 15                | 1.4     | 2.2  | 11     | 10        | 15      | 33      | 34        | 4.9      | 1.5   | 1.2   | .98   | 3.4    |
| 16                | 1.5     | 2.1  | 4.7    | 9.2       | 14      | 27      | 26        | 4.6      | 1.5   | 3.3   | .85   | 3.1    |
| 17                | 2.2     | 4.3  | 3.5    | 35        | 11      | 23      | 21        | 3.4      | 1.4   | 4.5   | .76   | 25     |
| 18                | 1.2     | 2.0  | 3.2    | 48        | 10      | 21      | 35        | 2.9      | 1.3   | 2.5   | .67   | 15     |
| 19                | 1.5     | 1.6  | 3.1    | 94        | 12      | 19      | 51        | 2.8      | 1.3   | 1.5   | .65   | 7.8    |
| 20                | 1.8     | 1.4  | 3.5    | 447       | 12      | 17      | 34        | 2.5      | 1.4   | 1.3   | 1.5   | 5.5    |
| 21                | 2.2     | 1.3  | 4.0    | 101       | 10      | 15      | 28        | 2.5      | 1.2   | 1.2   | 1.7   | 4.9    |
| 22                | 2.3     | 1.3  | 3.8    | 57        | 9.1     | 14      | 23        | 2.3      | 1.1   | 1.4   | 1.1   | 3.7    |
| 23                | 2.7     | 1.4  | 3.3    | 40        | 8.8     | 13      | 20        | 2.3      | 1.0   | 2.1   | 1.0   | 3.1    |
| 24                | 2.6     | 1.3  | 9.2    | 30        | 8.4     | 11      | 18        | 2.9      | 1.1   | 1.5   | 1.7   | 2.5    |
| 25                | 2.7     | 1.3  | 7.9    | 29        | 7.7     | 13      | 16        | 2.9      | .87   | 1.3   | 1.2   | 3.0    |
| 26                | 2.8     | 1.4  | 6.0    | 22        | 7.4     | 14      | 14        | 2.3      | 1.1   | 1.4   | 1.1   | 2.4    |
| 27                | 4.4     | 1.4  | 7.1    | 18        | 7.2     | 11      | 12        | 2.2      | 1.1   | 1.2   | .92   | 2.0    |
| 28                | 3.3     | 1.6  | 11     | 16        | 7.0     | 9.7     | 9.9       | 2.1      | .95   | 1.2   | .82   | 1.7    |
| 29                | 2.8     | 1.7  | 9.0    | 15        | 6.7     | 8.9     | 8.7       | 2.1      | 1.1   | 1.2   | .85   | 1.6    |
| 30                | 2.9     | 1.5  | 6.5    | 12        | ---     | 9.4     | 8.1       | 2.0      | 1.0   | .99   | 1.1   | 1.4    |
| 31                | 2.7     | ---  | 5.6    | 11        | ---     | 8.4     | ---       | 1.8      | ---   | 1.2   | .70   | ---    |
| TOTAL             | 57.12   | 67.3 | 115.48 | 1094.1    | 446.3   | 606.7   | 696.1     | 117.2    | 41.82 | 47.06 | 38.92 | 152.41 |
| MEAN              | 1.84    | 2.24 | 3.73   | 35.3      | 15.4    | 19.6    | 23.2      | 3.78     | 1.39  | 1.52  | 1.26  | 5.08   |
| MAX               | 4.4     | 4.6  | 11     | 447       | 39      | 89      | 135       | 7.6      | 1.8   | 4.5   | 6.0   | 25     |
| MIN               | .82     | 1.3  | .67    | 5.4       | 6.7     | 6.2     | 5.8       | 1.8      | .87   | .85   | .65   | .76    |
| CFSM              | .11     | .14  | .23    | 2.13      | .93     | 1.18    | 1.40      | .23      | .08   | .09   | .08   | .31    |
| IN.               | .13     | .15  | .26    | 2.45      | 1.00    | 1.36    | 1.56      | .26      | .09   | .11   | .09   | .34    |
| CAL YR 1987 TOTAL | 6689.60 |      |        | MEAN 18.3 | MAX 386 | MIN .67 | CFSM 1.10 | IN 14.99 |       |       |       |        |
| WTR YR 1988 TOTAL | 3480.51 |      |        | MEAN 9.51 | MAX 447 | MIN .65 | CFSM .57  | IN 7.80  |       |       |       |        |

## MOBILE RIVER BASIN

329

02388500 OOSTANAULA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°18'02", long 85°08'30", Floyd County, Hydrologic Unit 03150103, on left bank 1.2 mi upstream from Dry Creek, 4.5 mi north of Rome, 4.5 mi upstream from confluence with Etowah River, and 6.5 mi downstream from Armuchee Creek.

DRAINAGE AREA.--2,120 mi<sup>2</sup>.

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 to Nov. 10, Nov. 15-16, 22-23, 26-27, Dec. 13-14, June 4 to July 17, July 19 to Aug. 5, Aug. 14-20, and 28-29. Records good, except those for estimated daily discharge, which are fair to poor. 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.--49 years, 3,549 ft<sup>3</sup>/s, 22.73 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft<sup>3</sup>/s, Jan. 23, 1947; maximum gage height, 35.13 ft, Jan. 22, 1947; minimum daily discharge, 408 ft<sup>3</sup>/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, 19,300 ft<sup>3</sup>/s, Jan. 21; gage height, 23.97 ft; minimum daily discharge, 440 ft<sup>3</sup>/s, Oct. 11, 12, 21, and Nov. 1, 2, but may have been less during other periods of estimated discharge.

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                 | 530    | 440   | 603   | 1110   | 1500      | 1120    | 1150       | 1590       | 615        | 460   | 580   | 531   |
| 2                 | 530    | 440   | 615   | 1090   | 1510      | 1100    | 1190       | 1420       | 633        | 460   | 570   | 522   |
| 3                 | 530    | 460   | 612   | 1100   | 2080      | 1080    | 1220       | 1380       | 633        | 550   | 580   | 549   |
| 4                 | 460    | 450   | 582   | 1270   | 3380      | 1170    | 1310       | 1280       | 590        | 570   | 570   | 852   |
| 5                 | 460    | 470   | 587   | 1400   | 4700      | 1300    | 1340       | 1300       | 580        | 570   | 630   | 1450  |
| 6                 | 510    | 480   | 514   | 1290   | 4100      | 1240    | 1380       | 1320       | 580        | 570   | 645   | 2160  |
| 7                 | 500    | 470   | 523   | 1190   | 3020      | 1160    | 1320       | 1320       | 590        | 570   | 687   | 1910  |
| 8                 | 490    | 450   | 596   | 1150   | 2380      | 1180    | 1260       | 1050       | 580        | 570   | 744   | 1150  |
| 9                 | 470    | 440   | 584   | 1080   | 2200      | 1430    | 1270       | 931        | 580        | 570   | 784   | 883   |
| 10                | 470    | 480   | 583   | 1090   | 2620      | 2120    | 1210       | 960        | 570        | 560   | 694   | 781   |
| 11                | 440    | 573   | 559   | 1020   | 2600      | 2780    | 1210       | 973        | 560        | 550   | 659   | 679   |
| 12                | 440    | 598   | 542   | 948    | 2580      | 3570    | 4540       | 1110       | 510        | 560   | 752   | 725   |
| 13                | 450    | 593   | 480   | 988    | 2350      | 4110    | 7040       | 966        | 500        | 590   | 733   | 1650  |
| 14                | 480    | 583   | 470   | 1200   | 1790      | 4170    | 6060       | 878        | 540        | 610   | 590   | 1830  |
| 15                | 490    | 530   | 619   | 1420   | 1750      | 3650    | 4620       | 847        | 540        | 570   | 580   | 1140  |
| 16                | 490    | 510   | 779   | 1430   | 1860      | 2840    | 3610       | 866        | 520        | 580   | 560   | 836   |
| 17                | 450    | 603   | 855   | 1550   | 1830      | 2310    | 2680       | 846        | 510        | 600   | 570   | 1030  |
| 18                | 600    | 688   | 835   | 3490   | 1840      | 1970    | 2570       | 776        | 500        | 626   | 580   | 1440  |
| 19                | 580    | 744   | 797   | 5390   | 1780      | 1770    | 3710       | 725        | 490        | 610   | 580   | 1220  |
| 20                | 450    | 689   | 694   | 13500  | 1740      | 1620    | 5900       | 718        | 470        | 560   | 640   | 1050  |
| 21                | 440    | 641   | 671   | 18200  | 1690      | 1500    | 5320       | 711        | 570        | 550   | 979   | 994   |
| 22                | 470    | 590   | 691   | 14500  | 1640      | 1430    | 3890       | 696        | 570        | 550   | 1410  | 914   |
| 23                | 500    | 560   | 642   | 11100  | 1600      | 1330    | 3060       | 702        | 570        | 620   | 1270  | 801   |
| 24                | 530    | 606   | 673   | 5330   | 1400      | 1280    | 2810       | 701        | 570        | 650   | 897   | 732   |
| 25                | 460    | 614   | 886   | 3040   | 1270      | 1260    | 2470       | 704        | 570        | 610   | 765   | 674   |
| 26                | 460    | 540   | 990   | 2750   | 1160      | 1390    | 2230       | 682        | 500        | 620   | 708   | 675   |
| 27                | 550    | 530   | 980   | 2470   | 1140      | 1400    | 2060       | 672        | 460        | 600   | 656   | 823   |
| 28                | 550    | 584   | 1230  | 2310   | 1100      | 1340    | 1940       | 667        | 480        | 580   | 570   | 790   |
| 29                | 550    | 561   | 1540  | 1900   | 1090      | 1270    | 1810       | 666        | 470        | 680   | 550   | 720   |
| 30                | 550    | 563   | 1610  | 1870   | ---       | 1200    | 1720       | 654        | 470        | 680   | 541   | 686   |
| 31                | 550    | ---   | 1290  | 1610   | ---       | 1140    | ---        | 634        | ---        | 650   | 569   | ---   |
| TOTAL             | 15430  | 16480 | 23632 | 107786 | 59700     | 56230   | 81900      | 28745      | 16321      | 18096 | 21643 | 30197 |
| MEAN              | 498    | 549   | 762   | 3477   | 2059      | 1814    | 2730       | 927        | 544        | 584   | 698   | 1007  |
| MAX               | 600    | 744   | 1610  | 18200  | 4700      | 4170    | 7040       | 1590       | 633        | 680   | 1410  | 2160  |
| MIN               | 440    | 440   | 470   | 948    | 1090      | 1080    | 1150       | 634        | 460        | 460   | 541   | 522   |
| CAL YR 1987 TOTAL | 846533 |       |       | 2319   | MAX 22600 | MIN 440 | MEAN† 2271 | CFSMT 1.07 | INT† 14.58 |       |       |       |
| WTR YR 1988 TOTAL | 476160 |       |       | 1301   | MAX 18200 | MIN 440 | MEAN† 1323 | CFSMT .63  | INT† 8.51  |       |       |       |

†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 mi<sup>2</sup>, 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 analyses with the analyzing agency code 81213 are provided by the U.S. Geological Survey. Laboratory 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 obtained from gaging station 02388500, Oostanaula River near Rome, Ga.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE      | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 28... | 1250 | 81341                                                  | 606                                             | 204                                               | 207                                                      | 7.20                           | 7.00                                  | 15.0                                 | 16.5                               | 5.8                                 | 58                                                             |
| NOV 24... | 1250 | 81341                                                  | 610                                             | 202                                               | 204                                                      | 7.40                           | 7.50                                  | 9.5                                  | 22.0                               | 7.6                                 | 67                                                             |
| DEC 29... | 1000 | 81341                                                  | 1500                                            | 180                                               | 172                                                      | 7.30                           | 7.40                                  | 11.0                                 | 6.0                                | 8.1                                 | 74                                                             |
| JAN 26... | 1010 | 81341                                                  | 3230                                            | 155                                               | 149                                                      | 7.30                           | 7.20                                  | 6.5                                  | 2.0                                | 10.4                                | 85                                                             |
| FEB 24... | 1145 | 81341                                                  | 1390                                            | 137                                               | 133                                                      | 7.40                           | 7.80                                  | 8.5                                  | 10.0                               | 9.7                                 | 83                                                             |
| MAR 30... | 1510 | 81341                                                  | 1190                                            | 160                                               | 162                                                      | 7.50                           | 7.90                                  | 17.0                                 | 26.0                               | 9.1                                 | 95                                                             |
| APR 27... | 1115 | 81341                                                  | 2060                                            | 108                                               | 108                                                      | 7.30                           | 7.20                                  | 17.0                                 | 23.0                               | 7.4                                 | 78                                                             |
| MAY 24... | 0915 | 81341                                                  | 703                                             | 130                                               | 130                                                      | 7.60                           | 7.50                                  | 15.5                                 | 20.0                               | 7.6                                 | 78                                                             |
| JUN 29... | 1520 | 81341                                                  | 588                                             | 120                                               | 118                                                      | 8.60                           | 8.30                                  | 24.0                                 | 34.0                               | 7.2                                 | 87                                                             |
| JUL 27... | 1600 | 81341                                                  | 658                                             | 120                                               | 124                                                      | 8.20                           | 8.00                                  | 27.5                                 | 31.5                               | 9.5                                 | 122                                                            |
| AUG 24... | 1120 | 81341                                                  | 901                                             | 106                                               | 105                                                      | 7.20                           | 7.20                                  | 26.0                                 | 27.5                               | 5.2                                 | 65                                                             |
| SEP 28... | 1120 | 81341                                                  | 698                                             | 157                                               | 152                                                      | 7.50                           | 7.50                                  | 23.0                                 | 26.0                               | 6.9                                 | 82                                                             |

| DATE      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-----------|--------------------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|
| OCT 28... | 81341                                                  | 4.0                          | --                                                             | 3.1                                                            | 230                                              | 63                                              | 8                                                      | 55                                                            | 4                                                                |
| NOV 24... | 81341                                                  | 5.0                          | --                                                             | 2.0                                                            | 210                                              | 75                                              | 11                                                     | 64                                                            | 3                                                                |
| DEC 29... | 81341                                                  | 20                           | --                                                             | 4.0                                                            | 560                                              | 69                                              | 11                                                     | 58                                                            | 52                                                               |
| JAN 26... | 81341                                                  | 21                           | --                                                             | 3.0                                                            | 1300                                             | 54                                              | 8                                                      | 46                                                            | 23                                                               |
| FEB 24... | 81341                                                  | 8.0                          | --                                                             | 1.3                                                            | 230                                              | 57                                              | 39                                                     | 18                                                            | 9                                                                |
| MAR 30... | 81341                                                  | 5.0                          | --                                                             | 0.8                                                            | 170                                              | 66                                              | 2                                                      | 64                                                            | 15                                                               |
| APR 27... | 81341                                                  | 18                           | --                                                             | 1.3                                                            | 460                                              | 48                                              | 8                                                      | 40                                                            | 23                                                               |
| MAY 24... | 81341                                                  | 10                           | --                                                             | --                                                             | 50                                               | 48                                              | 0                                                      | 50                                                            | 18                                                               |
| JUN 29... | 81341                                                  | 9.0                          | --                                                             | 1.2                                                            | 50                                               | 48                                              | 5                                                      | 43                                                            | 13                                                               |
| JUL 27... | 81341                                                  | 6.0                          | 6                                                              | 1.8                                                            | 20                                               | --                                              | --                                                     | 41                                                            | 12                                                               |
| AUG 24... | 81341                                                  | 29                           | <5                                                             | 0.9                                                            | 150                                              | 45                                              | 13                                                     | 32                                                            | 24                                                               |
| SEP 28... | 81341                                                  | 12                           | 10                                                             | 1.8                                                            | 330                                              | 60                                              | 10                                                     | 50                                                            | 14                                                               |

## MOBILE RIVER BASIN

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02388520 OOSTANAULA RIVER AT ROME, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|--------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT<br>28... | 81341                                                  | 0.450                                                | 0.020                                                | --                                                   | --                                                                 | --                                        | 1.10                                        | --                                            |
| NOV<br>24... | 81341                                                  | 0.460                                                | 0.140                                                | --                                                   | --                                                                 | --                                        | 0.940                                       | 6.7                                           |
| DEC<br>29... | 81341                                                  | 0.550                                                | 0.140                                                | --                                                   | --                                                                 | --                                        | 0.650                                       | 6.7                                           |
| JAN<br>26... | 81341                                                  | 0.750                                                | 0.260                                                | --                                                   | --                                                                 | --                                        | 0.520                                       | 4.7                                           |
| FEB<br>24... | 81341                                                  | 0.390                                                | 0.110                                                | --                                                   | --                                                                 | --                                        | 0.300                                       | 3.9                                           |
| MAR<br>30... | 81341                                                  | 0.370                                                | 0.150                                                | --                                                   | --                                                                 | --                                        | 0.360                                       | 3.1                                           |
| APR<br>27... | 81341                                                  | 0.420                                                | 0.140                                                | --                                                   | --                                                                 | --                                        | 0.220                                       | 2.9                                           |
| MAY<br>24... | 81341                                                  | 0.330                                                | 0.050                                                | --                                                   | --                                                                 | --                                        | 0.300                                       | 4.8                                           |
| JUN<br>29... | 81341                                                  | 0.070                                                | 0.020                                                | --                                                   | --                                                                 | --                                        | 0.350                                       | 4.4                                           |
| JUL<br>27... | 81341                                                  | 0.100                                                | 0.050                                                | 0.55                                                 | 0.60                                                               | 0.70                                      | 2.48                                        | 3.9                                           |
| AUG<br>24... | 81341                                                  | 0.430                                                | 0.070                                                | 0.63                                                 | 0.70                                                               | 1.1                                       | 0.580                                       | --                                            |
| SEP<br>28... | 81341                                                  | 0.420                                                | 0.900                                                | 0.0                                                  | 0.50                                                               | 0.92                                      | 0.330                                       | 3.6                                           |



## MOBILE RIVER BASIN

02388520 OOSTANAULA RIVER AT ROME, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| SEP   |      |                                                        |                                                 |                                                   |                                                   |                                |                                      |                                     |                                                                |                                                                 |                                                           |
| 19... | 1115 | 81213                                                  | 1220                                            | 140                                               | 137                                               | 7.44                           | 22.0                                 | 6.1                                 | 71                                                             | 47                                                              | 47                                                        |
| 21... | 1315 | 81213                                                  | 952                                             | 174                                               | 171                                               | 7.72                           | 24.0                                 | 6.0                                 | 72                                                             | 57                                                              | 56                                                        |
| 23... | 1140 | 81213                                                  | 717                                             | 160                                               | 158                                               | 7.62                           | 23.5                                 | 5.9                                 | 71                                                             | 53                                                              | 55                                                        |
| 26... | 1535 | 81213                                                  | 685                                             | 150                                               | 147                                               | 7.67                           | 24.5                                 | 6.7                                 | 81                                                             | 55                                                              | 54                                                        |
| 28... | 1200 | 81213                                                  | 704                                             | 160                                               | 155                                               | 7.70                           | 23.0                                 | 7.0                                 | 82                                                             | 58                                                              | 53                                                        |
| 30... | 1120 | 81213                                                  | 593                                             | 167                                               | 162                                               | 7.51                           | 23.0                                 | 5.8                                 | 68                                                             | 57                                                              | 56                                                        |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|--------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| SEP   |                                                        |                                              |                                                     |                                                            |                                                                     |                                            |                                                      |
| 19... | 81213                                                  | 17                                           | 3.3                                                 | 81                                                         | 52                                                                  | 130                                        | 20                                                   |
| 21... | 81213                                                  | 19                                           | 8.9                                                 | 104                                                        | 23                                                                  | 110                                        | 20                                                   |
| 23... | 81213                                                  | 18                                           | 6.5                                                 | 96                                                         | 13                                                                  | 50                                         | 20                                                   |
| 26... | 81213                                                  | 17                                           | 5.8                                                 | 91                                                         | 17                                                                  | 50                                         | 50                                                   |
| 28... | 81213                                                  | 17                                           | 8.0                                                 | 95                                                         | 8                                                                   | 40                                         | 30                                                   |
| 30... | 81213                                                  | 18                                           | 7.8                                                 | 113                                                        | 10                                                                  | 30                                         | 30                                                   |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| SEP   |                                                        |                                                               |                                                               |                                                               |                                                               |                                                                   |                                                   |                                             |                                                                |                                               |
| 19... | 81213                                                  | 0.010                                                         | 0.400                                                         | 0.030                                                         | 0.30                                                          | 0.33                                                              | 0.73                                              | 0.270                                       | 0.140                                                          | 4.4                                           |
| 21... | 81213                                                  | 0.010                                                         | 0.520                                                         | 0.070                                                         | 0.83                                                          | 0.90                                                              | 1.4                                               | 0.250                                       | 0.190                                                          | 4.0                                           |
| 23... | 81213                                                  | 0.010                                                         | 0.510                                                         | 0.020                                                         | 0.32                                                          | 0.34                                                              | 0.85                                              | 0.310                                       | 0.240                                                          | 3.4                                           |
| 26... | 81213                                                  | 0.010                                                         | 0.430                                                         | 0.010                                                         | 0.31                                                          | 0.32                                                              | 0.75                                              | 0.310                                       | 0.200                                                          | 2.9                                           |
| 28... | 81213                                                  | <0.010                                                        | 0.420                                                         | 0.010                                                         | 0.41                                                          | 0.42                                                              | --                                                | 0.280                                       | 0.210                                                          | 3.3                                           |
| 30... | 81213                                                  | 0.010                                                         | 0.450                                                         | 0.020                                                         | 0.35                                                          | 0.37                                                              | --                                                | 0.370                                       | 0.300                                                          | 3.2                                           |

## MOBILE RIVER BASIN

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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 mi<sup>2</sup>, 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.--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, 20.14 ft, Jan. 21.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN   | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|-------|------|------|------|------|------|------|------|------|
| 1    | 3.29 | ---  | 3.46 | 3.98  | 4.33 | 4.09 | 4.13 | ---  | 2.76 | 3.01 | 2.59 | 3.05 |
| 2    | 3.29 | ---  | 3.48 | 3.90  | 5.43 | 4.06 | 4.07 | ---  | 3.22 | 3.02 | 3.07 | 3.01 |
| 3    | 3.25 | 3.58 | 3.49 | 3.66  | 6.35 | 4.06 | 3.77 | ---  | 3.24 | 2.37 | 3.11 | 3.07 |
| 4    | ---  | 3.57 | 3.45 | 3.89  | 7.53 | 4.17 | 3.87 | ---  | 3.20 | 2.39 | 3.13 | 3.14 |
| 5    | ---  | 3.57 | 3.41 | 4.41  | 9.03 | 4.18 | 3.93 | 3.90 | 2.64 | 2.75 | 3.35 | 3.89 |
| 6    | ---  | ---  | 2.66 | 4.28  | 7.95 | 3.74 | 3.95 | 3.90 | 2.62 | 2.48 | 3.33 | 4.91 |
| 7    | 3.48 | ---  | 2.71 | 4.18  | 6.42 | 3.84 | 3.90 | 3.88 | 3.20 | 2.82 | 2.86 | 4.79 |
| 8    | 3.45 | ---  | 3.45 | 4.16  | 5.49 | 4.45 | 3.79 | 3.60 | 3.22 | 2.84 | 3.02 | 3.91 |
| 9    | 3.42 | ---  | 3.42 | 4.02  | 6.28 | 4.48 | 3.81 | 3.43 | 3.22 | 2.84 | 3.61 | 3.53 |
| 10   | 3.42 | ---  | 3.45 | 4.07  | 6.53 | 5.18 | 3.74 | 3.51 | 3.21 | 2.47 | 3.31 | 3.40 |
| 11   | ---  | 3.43 | 3.43 | 3.48  | 6.50 | 5.68 | 3.79 | 3.50 | 3.19 | 2.49 | 3.26 | 2.79 |
| 12   | ---  | 3.46 | 3.36 | 3.36  | 6.46 | 6.25 | 7.20 | 3.61 | 2.57 | 2.95 | 3.34 | 2.92 |
| 13   | 3.30 | 3.47 | 2.61 | 3.90  | 5.47 | 6.43 | 9.27 | 3.42 | 2.55 | 2.89 | 3.37 | 4.43 |
| 14   | 3.37 | 3.40 | 2.65 | 4.27  | 4.54 | 6.57 | 8.34 | 3.29 | 3.13 | 2.97 | 2.61 | 4.80 |
| 15   | 3.41 | 2.78 | 3.62 | 4.59  | 4.52 | 6.44 | 7.11 | 3.23 | 3.17 | 2.86 | 2.50 | 3.99 |
| 16   | 3.37 | 2.63 | 3.83 | 4.84  | 4.78 | 5.80 | 6.21 | 3.29 | 3.14 | 2.86 | 3.06 | 3.54 |
| 17   | ---  | 3.63 | 3.92 | 4.33  | 4.71 | 5.37 | 5.39 | 3.24 | 3.12 | 2.62 | 3.07 | 3.83 |
| 18   | ---  | 3.97 | 3.81 | 6.39  | 4.68 | 4.89 | 5.26 | 3.11 | 3.12 | 2.68 | 3.10 | 3.91 |
| 19   | 2.97 | 3.85 | 3.69 | 8.18  | 4.63 | 4.86 | 6.28 | 3.04 | 2.58 | 3.18 | 3.13 | 3.64 |
| 20   | 3.48 | 3.68 | 2.94 | 16.06 | 4.56 | 4.33 | 8.07 | 3.01 | 2.64 | 3.12 | 3.25 | 3.81 |
| 21   | 3.46 | 3.54 | 2.91 | 19.32 | 4.31 | 4.27 | 7.68 | 2.96 | 3.18 | 3.14 | 3.17 | 3.75 |
| 22   | 3.51 | 2.88 | 3.25 | 16.83 | 4.26 | 4.48 | 6.48 | 2.96 | 3.17 | 3.16 | 3.72 | 3.64 |
| 23   | 3.54 | 2.87 | 2.87 | 13.94 | 4.39 | 4.37 | 5.73 | 3.00 | 3.17 | 3.52 | 4.08 | 3.48 |
| 24   | 3.36 | 4.05 | 3.08 | 9.63  | 4.16 | 4.30 | 5.52 | 3.00 | 3.16 | 2.95 | 3.60 | 3.37 |
| 25   | ---  | 3.42 | 3.71 | 8.00  | 4.00 | 4.30 | 5.21 | 3.00 | 3.17 | 2.73 | 3.40 | 2.82 |
| 26   | ---  | 2.72 | 3.77 | 8.67  | 3.88 | 4.36 | 4.99 | 2.93 | 2.52 | 3.24 | 3.32 | 2.73 |
| 27   | 3.64 | 2.76 | 3.55 | 8.44  | 3.85 | 4.02 | 4.84 | 2.92 | 2.46 | 3.18 | 3.23 | 3.44 |
| 28   | 3.62 | 3.33 | 4.38 | 8.13  | 3.58 | 4.02 | 4.71 | 2.89 | 3.03 | 3.28 | 2.55 | 3.46 |
| 29   | 3.61 | 2.76 | 4.95 | 6.75  | 3.67 | 4.27 | 4.55 | 2.87 | 3.03 | 3.29 | 2.41 | 3.36 |
| 30   | 3.63 | 2.80 | 4.71 | 6.29  | ---  | 4.20 | ---  | 2.85 | 3.03 | 3.30 | 3.01 | 3.29 |
| 31   | 3.48 | ---  | 4.21 | 4.37  | ---  | 4.12 | ---  | 2.82 | ---  | 2.72 | 3.08 | ---  |
| MEAN | ---  | ---  | 3.49 | 6.78  | 5.25 | 4.70 | ---  | ---  | 2.99 | 2.91 | 3.15 | 3.59 |
| MAX  | ---  | ---  | 4.95 | 19.32 | 9.03 | 6.57 | ---  | ---  | 3.24 | 3.52 | 4.08 | 4.91 |
| MIN  | ---  | ---  | 2.61 | 3.36  | 3.58 | 3.74 | ---  | ---  | 2.46 | 2.37 | 2.41 | 2.73 |

## MOBILE RIVER BASIN

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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

|  |  | DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--|--|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|
|  |  | APR<br>04... | 0630 | 340                                             | 22                                                | 23                                                       | 6.93                           | 7.20                                  | 14.0                                 | 9.7                                 | 97                                                             |
|  |  | JUL<br>19... | 0630 | 72                                              | 24                                                | 24                                                       | 6.97                           | 7.20                                  | 25.0                                 | 5.7                                 | 71                                                             |

|  |  | DATE         | COLOR<br>(PLAT-<br>INUM-<br>COBAL<br>UNITS) | TUR-<br>BID-<br>ITY<br>(FTU) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |     |
|--|--|--------------|---------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|-----|
|  |  | APR<br>04... | 14                                          | 6.1                          | 6                                               | 0                                                                 | 1.4                                          | 0.62                                                 | 1.5                                          | 32                                      | 0.3                                                 | 0.80                                                      | 7.0 |
|  |  | JUL<br>19... | 27                                          | 8.2                          | 7                                               | 0                                                                 | 1.6                                          | 0.68                                                 | 1.5                                          | 29                                      | 0.3                                                 | 0.90                                                      | 9.0 |

|  |  | DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS S04) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) |
|--|--|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
|  |  | APR<br>04... | 3.0                                           | 1.0                                                 | 0.10                                               | 8.4                                               | 21                                                                 | 17                                                                  | 19.3                                              | 0.03                                                | 0.200                                                | --                                                            | 0.020                                                | <0.010                                                        |
|  |  | JUL<br>19... | 2.6                                           | 1.2                                                 | 0.20                                               | 8.8                                               | 20                                                                 | 18                                                                  | 3.89                                              | 0.03                                                | 0.100                                                | --                                                            | <0.010                                               | <0.010                                                        |

|  |  | DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) |
|--|--|--------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|-------------------------------------|----------------------------------------------|
|  |  | APR<br>04... | --                                                   | --                                                            | --                                                                 | --                                                                          | --                                        | --                                                 | 0.020                                       | 0.020                                                | --                                            | 30                                                  | <1                                  | 3                                            |
|  |  | JUL<br>19... | --                                                   | --                                                            | 0.40                                                               | <0.20                                                                       | 0.50                                      | --                                                 | 0.110                                       | 0.010                                                | 2.5                                           | 30                                                  | <1                                  | <1                                           |

|  |  | DATE         | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--|--|--------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------|
|  |  | APR<br>04... | <1                                           | <1                                                  | <1                                           | 91                                         | <5                                                    | <5                                         | 11                                                   | <0.10                                                   | <0.1                                         | <1                                                  | 4                                          |
|  |  | JUL<br>19... | <1                                           | 1                                                   | <1                                           | 120                                        | <5                                                    | <5                                         | 15                                                   | <0.10                                                   | <0.1                                         | <1                                                  | 7                                          |

## 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 mi<sup>2</sup>.

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

AVERAGE DISCHARGE.--61 years (water years 1897-1905, 1937-88), 1,224 ft<sup>3</sup>/s, 27.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,300 ft<sup>3</sup>/s, Jan. 7, 1946, gage height, 26.7 ft; minimum discharge, 120 ft<sup>3</sup>/s, July 23, 24, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 36,700 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Jan. 20 | 1700 | *9,340                         | *15.71           | No other peak greater than base discharge. |      |                                |                  |

Minimum discharge, 162 ft<sup>3</sup>/s, Aug. 20., gage height, 1.11 ft.

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           | 321   | 252    | 360      | 691       | 643     | 524       | 544      | 651   | 342  | 214  | 222  | 184   |
| 2           | 267   | 251    | 336      | 978       | 660     | 517       | 864      | 628   | 341  | 234  | 216  | 175   |
| 3           | 228   | 250    | 320      | 829       | 1220    | 513       | 875      | 608   | 335  | 231  | 206  | 171   |
| 4           | 217   | 249    | 314      | 784       | 1590    | 561       | 883      | 613   | 325  | 282  | 233  | 361   |
| 5           | 209   | 252    | 323      | 735       | 2000    | 632       | 977      | 686   | 317  | 351  | 275  | 860   |
| 6           | 220   | 247    | 307      | 623       | 1350    | 586       | 814      | 629   | 314  | 340  | 270  | 494   |
| 7           | 216   | 241    | 303      | 605       | 1070    | 543       | 760      | 577   | 306  | 281  | 282  | 325   |
| 8           | 215   | 242    | 299      | 1260      | 930     | 520       | 691      | 552   | 301  | 233  | 529  | 269   |
| 9           | 211   | 248    | 300      | 685       | 856     | 606       | 654      | 536   | 297  | 212  | 359  | 242   |
| 10          | 211   | 411    | 381      | 566       | 801     | 950       | 622      | 575   | 296  | 199  | 276  | 252   |
| 11          | 213   | 622    | 466      | 507       | 757     | 930       | 692      | 605   | 287  | 193  | 259  | 270   |
| 12          | 209   | 401    | 381      | 482       | 724     | 759       | 3260     | 538   | 284  | 228  | 279  | 477   |
| 13          | 210   | 313    | 338      | 524       | 688     | 759       | 2450     | 510   | 279  | 296  | 255  | 1250  |
| 14          | 209   | 288    | 323      | 708       | 660     | 753       | 1530     | 511   | 268  | 262  | 227  | 529   |
| 15          | 210   | 280    | 550      | 630       | 663     | 658       | 1230     | 529   | 260  | 234  | 205  | 370   |
| 16          | 213   | 270    | 1040     | 545       | 707     | 616       | 1040     | 518   | 252  | 230  | 191  | 303   |
| 17          | 216   | 563    | 614      | 726       | 662     | 596       | 910      | 505   | 275  | 232  | 180  | 381   |
| 18          | 216   | 996    | 460      | 2280      | 625     | 589       | 920      | 480   | 283  | 245  | 180  | 785   |
| 19          | 211   | 533    | 406      | 2170      | 640     | 642       | 1300     | 448   | 309  | 237  | 170  | 588   |
| 20          | 214   | 406    | 394      | 7980      | 673     | 622       | 1250     | 437   | 348  | 204  | 175  | 432   |
| 21          | 218   | 364    | 415      | 4710      | 633     | 574       | 1020     | 428   | 281  | 185  | 301  | 405   |
| 22          | 212   | 332    | 449      | 2140      | 587     | 566       | 908      | 421   | 269  | 283  | 342  | 351   |
| 23          | 214   | 313    | 418      | 1540      | 573     | 553       | 851      | 416   | 239  | 1130 | 271  | 302   |
| 24          | 225   | 308    | 408      | 1250      | 566     | 527       | 1100     | 429   | 229  | 621  | 263  | 279   |
| 25          | 235   | 305    | 595      | 1090      | 546     | 548       | 1020     | 470   | 227  | 353  | 250  | 269   |
| 26          | 239   | 317    | 636      | 962       | 534     | 713       | 877      | 456   | 230  | 275  | 225  | 256   |
| 27          | 256   | 413    | 612      | 827       | 538     | 660       | 810      | 410   | 288  | 265  | 197  | 247   |
| 28          | 307   | 419    | 2000     | 753       | 541     | 578       | 737      | 390   | 217  | 297  | 180  | 239   |
| 29          | 291   | 402    | 1810     | 713       | 526     | 546       | 688      | 381   | 198  | 289  | 179  | 231   |
| 30          | 264   | 394    | 1020     | 683       | ---     | 537       | 666      | 367   | 202  | 275  | 193  | 226   |
| 31          | 260   | ---    | 721      | 662       | ---     | 535       | ---      | 352   | ---  | 244  | 180  | ---   |
| TOTAL       | 7157  | 10882  | 17299    | 39638     | 22963   | 19213     | 30943    | 15656 | 8399 | 9155 | 7570 | 11523 |
| MEAN        | 231   | 363    | 558      | 1279      | 792     | 620       | 1031     | 505   | 280  | 295  | 244  | 384   |
| MAX         | 321   | 996    | 2000     | 7980      | 2000    | 950       | 3260     | 686   | 348  | 1130 | 529  | 1250  |
| MIN         | 209   | 241    | 299      | 482       | 526     | 513       | 544      | 352   | 198  | 185  | 170  | 171   |
| CFSM        | .38   | .59    | .91      | 2.09      | 1.29    | 1.01      | 1.68     | .82   | .46  | .48  | .40  | .63   |
| IN.         | .43   | .66    | 1.05     | 2.41      | 1.39    | 1.17      | 1.88     | .95   | .51  | .56  | .46  | .70   |
| CAL YR 1987 | TOTAL | 306919 | MEAN 841 | MAX 11600 | MIN 188 | CFSM 1.37 | IN 18.63 |       |      |      |      |       |
| WTR YR 1988 | TOTAL | 200398 | MEAN 548 | MAX 7980  | MIN 170 | CFSM .89  | IN 12.16 |       |      |      |      |       |

## MOBILE RIVER BASIN

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT       | NOV  | DEC       | JAN      | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|-----------|------|-----------|----------|------|------|------|------|------|------|------|------|
| 1           | 1.63      | 1.44 | 1.74      | 2.50     | 2.41 | 2.14 | 2.19 | 2.42 | 1.69 | 1.30 | 1.32 | 1.19 |
| 2           | 1.48      | 1.44 | 1.67      | 3.05     | 2.44 | 2.13 | 2.83 | 2.38 | 1.68 | 1.36 | 1.30 | 1.16 |
| 3           | 1.38      | 1.43 | 1.63      | 2.78     | 3.48 | 2.12 | 2.86 | 2.33 | 1.67 | 1.35 | 1.27 | 1.14 |
| 4           | 1.35      | 1.43 | 1.61      | 2.69     | 4.23 | 2.23 | 2.88 | 2.34 | 1.64 | 1.51 | 1.36 | 1.68 |
| 5           | 1.32      | 1.44 | 1.63      | 2.60     | 5.08 | 2.38 | 3.05 | 2.50 | 1.62 | 1.71 | 1.49 | 2.83 |
| 6           | 1.36      | 1.43 | 1.59      | 2.36     | 3.74 | 2.29 | 2.75 | 2.38 | 1.61 | 1.68 | 1.48 | 2.07 |
| 7           | 1.35      | 1.41 | 1.58      | 2.32     | 3.20 | 2.19 | 2.64 | 2.27 | 1.59 | 1.51 | 1.51 | 1.64 |
| 8           | 1.34      | 1.42 | 1.56      | 3.56     | 2.96 | 2.14 | 2.51 | 2.21 | 1.57 | 1.36 | 2.15 | 1.47 |
| 9           | 1.33      | 1.43 | 1.57      | 2.49     | 2.83 | 2.33 | 2.43 | 2.17 | 1.56 | 1.29 | 1.73 | 1.39 |
| 10          | 1.33      | 1.86 | 1.79      | 2.24     | 2.72 | 3.00 | 2.36 | 2.26 | 1.56 | 1.24 | 1.49 | 1.42 |
| 11          | 1.34      | 2.36 | 2.01      | 2.11     | 2.64 | 2.96 | 2.50 | 2.33 | 1.53 | 1.22 | 1.44 | 1.48 |
| 12          | 1.33      | 1.84 | 1.79      | 2.05     | 2.57 | 2.64 | 7.52 | 2.18 | 1.52 | 1.34 | 1.50 | 2.00 |
| 13          | 1.33      | 1.60 | 1.68      | 2.14     | 2.50 | 2.64 | 5.97 | 2.11 | 1.50 | 1.56 | 1.43 | 3.59 |
| 14          | 1.33      | 1.53 | 1.64      | 2.54     | 2.44 | 2.63 | 4.12 | 2.12 | 1.47 | 1.45 | 1.34 | 2.15 |
| 15          | 1.33      | 1.51 | 2.18      | 2.38     | 2.45 | 2.44 | 3.48 | 2.16 | 1.44 | 1.36 | 1.27 | 1.76 |
| 16          | 1.34      | 1.49 | 3.15      | 2.19     | 2.54 | 2.35 | 3.16 | 2.13 | 1.42 | 1.34 | 1.21 | 1.57 |
| 17          | 1.34      | 2.19 | 2.34      | 2.54     | 2.45 | 2.31 | 2.93 | 2.10 | 1.49 | 1.35 | 1.18 | 1.79 |
| 18          | 1.34      | 3.07 | 1.99      | 5.63     | 2.37 | 2.29 | 2.94 | 2.04 | 1.55 | 1.40 | 1.17 | 2.69 |
| 19          | 1.33      | 2.16 | 1.86      | 5.42     | 2.40 | 2.40 | 3.62 | 1.96 | 1.68 | 1.37 | 1.14 | 2.28 |
| 20          | 1.34      | 1.86 | 1.83      | 14.12    | 2.47 | 2.36 | 3.52 | 1.94 | 1.79 | 1.26 | 1.15 | 1.92 |
| 21          | 1.35      | 1.75 | 1.88      | 9.71     | 2.39 | 2.26 | 3.12 | 1.91 | 1.60 | 1.19 | 1.56 | 1.86 |
| 22          | 1.33      | 1.66 | 1.97      | 5.36     | 2.29 | 2.24 | 2.92 | 1.90 | 1.56 | 1.50 | 1.69 | 1.71 |
| 23          | 1.34      | 1.61 | 1.89      | 4.14     | 2.26 | 2.21 | 2.82 | 1.88 | 1.47 | 3.32 | 1.48 | 1.57 |
| 24          | 1.37      | 1.59 | 1.86      | 3.53     | 2.24 | 2.15 | 3.25 | 1.92 | 1.44 | 2.35 | 1.45 | 1.51 |
| 25          | 1.40      | 1.58 | 2.30      | 3.24     | 2.20 | 2.20 | 3.12 | 2.02 | 1.43 | 1.72 | 1.41 | 1.47 |
| 26          | 1.41      | 1.62 | 2.39      | 3.02     | 2.17 | 2.55 | 2.87 | 1.98 | 1.44 | 1.49 | 1.33 | 1.43 |
| 27          | 1.45      | 1.87 | 2.34      | 2.77     | 2.18 | 2.44 | 2.74 | 1.87 | 1.62 | 1.46 | 1.24 | 1.41 |
| 28          | 1.59      | 1.89 | 5.06      | 2.63     | 2.18 | 2.27 | 2.60 | 1.82 | 1.40 | 1.56 | 1.18 | 1.38 |
| 29          | 1.54      | 1.85 | 4.69      | 2.55     | 2.15 | 2.20 | 2.50 | 1.79 | 1.30 | 1.53 | 1.17 | 1.35 |
| 30          | 1.47      | 1.83 | 3.12      | 2.49     | ---  | 2.18 | 2.46 | 1.76 | 1.26 | 1.49 | 1.22 | 1.34 |
| 31          | 1.46      | ---  | 2.57      | 2.45     | ---  | 2.17 | ---  | 1.71 | ---  | 1.39 | 1.18 | ---  |
| MEAN        | 1.38      | 1.72 | 2.16      | 3.54     | 2.69 | 2.35 | 3.16 | 2.09 | 1.54 | 1.51 | 1.38 | 1.74 |
| MAX         | 1.63      | 3.07 | 5.06      | 14.12    | 5.08 | 3.00 | 7.52 | 2.50 | 1.79 | 3.32 | 2.15 | 3.59 |
| MIN         | 1.32      | 1.41 | 1.56      | 2.05     | 2.15 | 2.12 | 2.19 | 1.71 | 1.26 | 1.19 | 1.14 | 1.14 |
| CAL YR 1987 | MEAN 2.69 |      | MAX 17.93 | MIN 1.25 |      |      |      |      |      |      |      |      |
| WTR YR 1988 | MEAN 2.10 |      | MAX 14.12 | MIN 1.14 |      |      |      |      |      |      |      |      |

## MOBILE RIVER BASIN

337

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 0900 | 249                                             | 43                                                | 41                                                       | 7.10                           | 6.70                                  | 12.5                                 | 16.0                               | 8.7                                 | 84                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1530 | 809                                             | 39                                                | 39                                                       | 7.20                           | 7.00                                  | 5.5                                  | 11.0                               | 10.9                                | 87                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 0945 | 195                                             | 36                                                | 36                                                       | 6.70                           | 7.10                                  | 24.5                                 | 28.0                               | 6.9                                 | 85                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1620 | 242                                             | 45                                                | 51                                                       | 7.40                           | 7.20                                  | 21.0                                 | 27.0                               | 8.2                                 | 94                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 27... | 2.0                          | 1.7                                                            | --                                               | 15                                                              | <0.020                                               | <0.020                                               | <0.020                                      | --                                            |
| JAN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 27... | 12                           | 1.4                                                            | 80                                               | 13                                                              | 0.410                                                | 0.080                                                | 0.030                                       | 1.5                                           |
| JUN   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 29... | 8.0                          | 1.0                                                            | <20                                              | 14                                                              | 0.160                                                | 0.040                                                | 0.040                                       | 2.3                                           |
| SEP   |                              |                                                                |                                                  |                                                                 |                                                      |                                                      |                                             |                                               |
| 28... | 15                           | 0.7                                                            | 20                                               | 17                                                              | 0.160                                                | 0.450                                                | 0.120                                       | 1.9                                           |



## MOBILE RIVER BASIN

## 02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.

LOCATION.--Lat 34°09'47", Long 84°44'28", Bartow County, Hydrologic Unit 03150104, on right bank 0.8 mi downstream from Allatoona Dam, 2 mi upstream from Nashville, Chattanooga, & St. Louis Railway bridge, and 3 mi east of Cartersville.  
DRAINAGE AREA.--1,120 mi<sup>2</sup>.

## 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, except those for the periods Nov. 4-5 and Nov. 28-Jan. 28 greater than 400 ft<sup>3</sup>/s, which are fair to poor. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)  
AVERAGE DISCHARGE.--50 years, 1,878 ft<sup>3</sup>/s, 22.77 in/yr, adjusted for storage since 1950.  
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft<sup>3</sup>/s, Jan. 8, 1946, gage height 20.8 ft, from rating curve extended above 26,000 ft<sup>3</sup>/s; minimum daily discharge, 152 ft<sup>3</sup>/s, Oct. 15, 1966.  
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,840 ft<sup>3</sup>/s, Nov. 6, gage height, 7.22 ft; minimum daily discharge, 272 ft<sup>3</sup>/s, May 29.

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                 | 975    | 280   | 980   | 620   | 1910  | 990     | 973   | 309  | 853   | 926   | 948   | 961   |
| 2                 | 963    | 1260  | 980   | 333   | 1950  | 1000    | 343   | 297  | 858   | 306   | 948   | 965   |
| 3                 | 301    | 1280  | 980   | 333   | 1950  | 967     | 343   | 306  | 857   | 306   | 950   | 307   |
| 4                 | 301    | 1280  | 980   | 920   | 1950  | 970     | 367   | 307  | 291   | 608   | 945   | 310   |
| 5                 | 1300   | 1280  | 315   | 900   | 1950  | 328     | 341   | 294  | 297   | 310   | 962   | 964   |
| 6                 | 1270   | 1280  | 315   | 900   | 1380  | 331     | 350   | 300  | 892   | 641   | 319   | 958   |
| 7                 | 1260   | 339   | 980   | 910   | 343   | 1600    | 350   | 297  | 891   | 631   | 321   | 961   |
| 8                 | 1250   | 330   | 960   | 900   | 2260  | 932     | 333   | 288  | 881   | 630   | 1020  | 959   |
| 9                 | 1250   | 1020  | 960   | 960   | 2270  | 938     | 347   | 296  | 888   | 297   | 906   | 963   |
| 10                | 284    | 1030  | 970   | 333   | 2270  | 927     | 352   | 291  | 886   | 303   | 971   | 306   |
| 11                | 288    | 1030  | 980   | 333   | 2270  | 928     | 348   | 280  | 280   | 649   | 965   | 306   |
| 12                | 1150   | 1030  | 333   | 900   | 1320  | 332     | 365   | 289  | 286   | 614   | 960   | 964   |
| 13                | 1150   | 1020  | 333   | 900   | 343   | 333     | 358   | 289  | 895   | 613   | 315   | 961   |
| 14                | 1160   | 355   | 980   | 900   | 341   | 933     | 341   | 280  | 900   | 619   | 315   | 953   |
| 15                | 1150   | 353   | 1000  | 1250  | 647   | 927     | 336   | 288  | 898   | 615   | 965   | 966   |
| 16                | 1170   | 1030  | 1000  | 333   | 618   | 929     | 339   | 288  | 905   | 315   | 962   | 964   |
| 17                | 280    | 1030  | 1000  | 333   | 599   | 649     | 333   | 280  | 907   | 315   | 961   | 324   |
| 18                | 286    | 1020  | 1000  | 1000  | 597   | 933     | 347   | 287  | 297   | 947   | 954   | 324   |
| 19                | 1260   | 1030  | 333   | 1000  | 586   | 324     | 346   | 287  | 297   | 953   | 954   | 924   |
| 20                | 1260   | 1030  | 333   | 1100  | 285   | 324     | 333   | 280  | 909   | 948   | 308   | 967   |
| 21                | 1250   | 353   | 660   | 4200  | 283   | 948     | 344   | 288  | 917   | 947   | 308   | 962   |
| 22                | 1260   | 353   | 333   | 4200  | 588   | 949     | 344   | 288  | 930   | 963   | 958   | 965   |
| 23                | 1260   | 1720  | 333   | 3550  | 588   | 956     | 333   | 279  | 911   | 311   | 965   | 966   |
| 24                | 280    | 1030  | 660   | 3550  | 582   | 954     | 338   | 289  | 919   | 311   | 965   | 324   |
| 25                | 283    | 357   | 660   | 5500  | 590   | 953     | 330   | 286  | 304   | 946   | 964   | 329   |
| 26                | 1260   | 353   | 343   | 5500  | 614   | 335     | 314   | 276  | 306   | 944   | 961   | 981   |
| 27                | 1270   | 1040  | 343   | 5500  | 315   | 330     | 321   | 274  | 927   | 950   | 306   | 985   |
| 28                | 1260   | 315   | 620   | 3100  | 315   | 960     | 317   | 285  | 923   | 940   | 306   | 983   |
| 29                | 1280   | 315   | 620   | 3580  | 990   | 952     | 306   | 272  | 921   | 952   | 962   | 986   |
| 30                | 1280   | 980   | 620   | 316   | ---   | 952     | 314   | 280  | 922   | 313   | 960   | 993   |
| 31                | 277    | ---   | 620   | 315   | ---   | 969     | ---   | 281  | ---   | 314   | 968   | ---   |
| TOTAL             | 29268  | 25123 | 21524 | 54469 | 30704 | 24853   | 10806 | 8931 | 22148 | 19437 | 24572 | 23781 |
| MEAN              | 944    | 837   | 694   | 1757  | 1059  | 802     | 360   | 288  | 738   | 627   | 793   | 793   |
| MAX               | 1300   | 1720  | 1000  | 5500  | 2270  | 1600    | 973   | 309  | 930   | 963   | 1020  | 993   |
| MIN               | 277    | 280   | 315   | 315   | 283   | 324     | 306   | 272  | 280   | 297   | 306   | 306   |
| MEAN†             | 157    | 492   | 863   | 2219  | 1322  | 934     | 1587  | 551  | 148   | 388   | 338   | 516   |
| CFSM†             | .14    | .44   | .77   | 1.98  | 1.18  | .83     | 1.42  | .49  | .13   | .35   | .30   | .46   |
| INT†              | .16    | .49   | .89   | 2.28  | 1.27  | .96     | 1.58  | .56  | .14   | .40   | .35   | .51   |
| CAL YR 1987 TOTAL | 467899 | MEAN  | 1282  | MAX   | 7470  | MIN 277 | MEAN† | 1229 | CFSM† | 1.10  | INT†  | 14.91 |
| WTR YR 1988 TOTAL | 295616 | MEAN  | 808   | MAX   | 5500  | MIN 272 | MEAN† | 791  | CFSM† | .71   | INT†  | 9.62  |

†ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

## MOBILE RIVER BASIN

339

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 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV<br>24... | 1510 | 353                                             | 56                                                | 55                                                       | 7.30                           | 7.30                                  | 15.0                                 | 23.0                               | 9.2                                 | 92                                                             |
| JAN<br>27... | 1630 | 8200                                            | 56                                                | 54                                                       | 7.10                           | 7.00                                  | 5.0                                  | 8.5                                | 11.2                                | 88                                                             |
| MAR<br>30... | 1715 | 324                                             | 50                                                | 51                                                       | 7.10                           | 7.20                                  | 11.0                                 | 25.5                               | 10.4                                | 96                                                             |
| MAY<br>24... | 0715 | 333                                             | 52                                                | 53                                                       | 6.90                           | 6.70                                  | 14.5                                 | 17.5                               | 7.8                                 | 78                                                             |
| JUL<br>26... | 0850 | 315                                             | 58                                                | 56                                                       | 6.70                           | 6.90                                  | 20.5                                 | 24.0                               | 5.3                                 | 60                                                             |
| SEP<br>28... | 0900 | 179                                             | 63                                                | 62                                                       | 6.90                           | 7.00                                  | 23.0                                 | 19.5                               | 5.3                                 | 63                                                             |

| DATE         | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) |
|--------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|
| NOV<br>24... | 4.0                          | 1.4                                                            | 20                                               | 20                                                              | 3                                                                | 0.140                                                | 0.060                                                | <0.020                                      | 2.2                                           | 300                                                   | 40                                                              |
| JAN<br>27... | 12                           | 1.3                                                            | 50                                               | 13                                                              | --                                                               | 0.340                                                | 0.100                                                | 0.040                                       | 2.9                                           | 980                                                   | 44                                                              |
| MAR<br>30... | 9.0                          | 0.6                                                            | <20                                              | 15                                                              | 25                                                               | 0.470                                                | 0.110                                                | 0.030                                       | 2.8                                           | --                                                    | --                                                              |
| MAY<br>24... | 6.0                          | 0.5                                                            | 50                                               | 16                                                              | 2                                                                | 0.460                                                | 0.040                                                | <0.020                                      | 1.6                                           | 110                                                   | 28                                                              |
| JUL<br>26... | 2.0                          | 0.6                                                            | <20                                              | 19                                                              | <1                                                               | 0.250                                                | 0.090                                                | <0.020                                      | 1.7                                           | 150                                                   | 190                                                             |
| SEP<br>28... | 2.0                          | 0.8                                                            | <20                                              | 20                                                              | <1                                                               | 0.100                                                | 0.310                                                | 0.060                                       | 1.7                                           | --                                                    | --                                                              |

## MOBILE RIVER BASIN

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 Ashgole Creek, and 3 mi north of Euharlee.

DRAINAGE AREA.--1,610 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1400 | 3900                                            | 90                                                | 92                                                       | 7.40                           | 7.20                                  | 16.0                                 | 20.0                               | 9.4                                 | 97                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1415 | 2850                                            | 75                                                | 74                                                       | 7.40                           | 7.50                                  | 14.0                                 | 24.0                               | 9.0                                 | 88                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 0850 | 1180                                            | 128                                               | 120                                                      | 7.20                           | 7.50                                  | 10.0                                 | 8.5                                | 10.0                                | 90                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 0915 | 1280                                            | 90                                                | 87                                                       | 7.20                           | 7.40                                  | 6.0                                  | 1.0                                | 11.6                                | 95                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1020 | 660                                             | 141                                               | 138                                                      | 7.50                           | 7.90                                  | 9.0                                  | 10.0                               | 10.7                                | 93                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 30... | 1630 | 2400                                            | 78                                                | 80                                                       | 6.90                           | 7.50                                  | 13.0                                 | 26.5                               | 10.2                                | 98                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 0910 | 780                                             | 142                                               | 143                                                      | 7.20                           | 7.60                                  | 17.0                                 | 23.0                               | 9.0                                 | 95                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 0800 | 490                                             | 156                                               | 158                                                      | 7.50                           | 7.50                                  | 14.5                                 | 18.0                               | 7.6                                 | 76                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1620 | 360                                             | 138                                               | 135                                                      | 7.90                           | 7.70                                  | 25.0                                 | 34.0                               | 7.8                                 | 97                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1715 | 560                                             | 120                                               | 121                                                      | 7.40                           | 7.60                                  | 23.0                                 | 25.0                               | 7.9                                 | 94                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1000 | 300                                             | 97                                                | 95                                                       | 7.00                           | 7.30                                  | 24.0                                 | 27.0                               | 6.6                                 | 80                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1000 | 610                                             | 101                                               | 98                                                       | 7.30                           | 7.50                                  | 22.5                                 | 24.0                               | 7.2                                 | 85                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
| OCT   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 28... | 10                           | --                                                             | 1.7                                                            | 170                                              | 27                                              | 0                                                                 | 27                                                              | 13                                                               |
| NOV   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 24... | 10                           | --                                                             | 2.0                                                            | 20                                               | 21                                              | 0                                                                 | 26                                                              | 23                                                               |
| DEC   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 28... | 37                           | --                                                             | 2.0                                                            | 2300                                             | 45                                              | 9                                                                 | 36                                                              | 53                                                               |
| JAN   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 26... | 15                           | --                                                             | 1.8                                                            | 80                                               | 33                                              | 5                                                                 | 28                                                              | 10                                                               |
| FEB   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 24... | 17                           | --                                                             | 0.7                                                            | 60                                               | 60                                              | 11                                                                | 49                                                              | 4                                                                |
| MAR   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 30... | 12                           | --                                                             | 1.2                                                            | 80                                               | 27                                              | 1                                                                 | 26                                                              | 19                                                               |
| APR   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 27... | 13                           | --                                                             | 1.3                                                            | 50                                               | 60                                              | 13                                                                | 47                                                              | 15                                                               |
| MAY   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 24... | 10                           | --                                                             | 2.4                                                            | 220                                              | 63                                              | 12                                                                | 51                                                              | 15                                                               |
| JUN   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 29... | 7.0                          | --                                                             | 1.1                                                            | 170                                              | 54                                              | 17                                                                | 37                                                              | 4                                                                |
| JUL   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 27... | 10                           | <5                                                             | 1.1                                                            | 3300                                             | 36                                              | 0                                                                 | 41                                                              | 4                                                                |
| AUG   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 24... | 3.0                          | <5                                                             | 0.7                                                            | 80                                               | 30                                              | 0                                                                 | 35                                                              | 7                                                                |
| SEP   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 28... | 5.0                          | <5                                                             | 0.5                                                            | 130                                              | 39                                              | 9                                                                 | 30                                                              | 4                                                                |

## MOBILE RIVER BASIN

341

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT<br>28... | 0.210                                                | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.130                                       | --                                            |
| NOV<br>24... | 0.190                                                | 0.030                                                | --                                                   | --                                                                 | --                                        | 0.080                                       | 3.2                                           |
| DEC<br>28... | 0.290                                                | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.120                                       | 3.6                                           |
| JAN<br>26... | 0.470                                                | 0.090                                                | --                                                   | --                                                                 | --                                        | 0.050                                       | 2.0                                           |
| FEB<br>24... | 0.590                                                | 0.100                                                | --                                                   | --                                                                 | --                                        | 0.070                                       | 3.0                                           |
| MAR<br>30... | 0.460                                                | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.080                                       | 2.6                                           |
| APR<br>27... | 0.490                                                | 0.070                                                | --                                                   | --                                                                 | --                                        | 0.120                                       | 2.3                                           |
| MAY<br>24... | 0.480                                                | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.080                                       | 2.6                                           |
| JUN<br>29... | 0.460                                                | 0.030                                                | --                                                   | --                                                                 | --                                        | 0.050                                       | 2.5                                           |
| JUL<br>27... | 0.350                                                | 0.060                                                | 0.24                                                 | 0.30                                                               | 0.65                                      | 0.050                                       | 2.0                                           |
| AUG<br>24... | 0.170                                                | 0.080                                                | 0.22                                                 | 0.30                                                               | 0.47                                      | 0.250                                       | 2.0                                           |
| SEP<br>28... | 0.200                                                | 0.180                                                | 0.02                                                 | 0.20                                                               | 0.40                                      | 0.070                                       | 2.1                                           |

## 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 mi<sup>2</sup>, 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.--55 years (water years 1929-31, 1937-88), 2,538 ft<sup>3</sup>/s, 21.14 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft<sup>3</sup>/s, Apr. 9, 1938, gage height, 27.7 ft; minimum daily, 268 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,810 ft<sup>3</sup>/s, Jan. 20, gage height, 10.56 ft; minimum daily discharge, 327 ft<sup>3</sup>/s, Aug. 28.

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                 | 1150   | 449   | 1160  | 917   | 1350  | 1270  | 1200  | 602   | 725   | 959   | 504   | 961   |
| 2                 | 974    | 1330  | 1160  | 644   | 2320  | 1260  | 590   | 585   | 971   | 717   | 973   | 985   |
| 3                 | 711    | 1400  | 1160  | 621   | 3200  | 1280  | 591   | 574   | 979   | 363   | 957   | 900   |
| 4                 | 405    | 1400  | 1150  | 896   | 3540  | 1270  | 602   | 570   | 650   | 424   | 982   | 468   |
| 5                 | 420    | 1400  | 512   | 1200  | 3890  | 630   | 604   | 540   | 411   | 606   | 998   | 527   |
| 6                 | 1350   | 487   | 488   | 1170  | 3170  | 629   | 593   | 530   | 659   | 451   | 927   | 1030  |
| 7                 | 1320   | 1400  | 1130  | 1200  | 1140  | 1520  | 602   | 503   | 991   | 700   | 416   | 1020  |
| 8                 | 1320   | 401   | 1150  | 1160  | 1880  | 1260  | 565   | 503   | 999   | 687   | 763   | 989   |
| 9                 | 1320   | 477   | 1140  | 1380  | 2770  | 1240  | 583   | 528   | 1010  | 618   | 1070  | 987   |
| 10                | 1320   | 1170  | 1170  | 680   | 2720  | 1300  | 572   | 560   | 1010  | 355   | 965   | 928   |
| 11                | 403    | 1170  | 1170  | 558   | 2660  | 1320  | 596   | 554   | 751   | 455   | 994   | 424   |
| 12                | 802    | 1160  | 528   | 561   | 2670  | 965   | 1840  | 536   | 389   | 722   | 975   | 424   |
| 13                | 1230   | 1130  | 496   | 1170  | 763   | 665   | 1310  | 496   | 645   | 730   | 830   | 1100  |
| 14                | 1240   | 1120  | 1140  | 1270  | 724   | 1090  | 888   | 508   | 998   | 630   | 374   | 1100  |
| 15                | 1260   | 495   | 1250  | 1700  | 1050  | 1310  | 767   | 504   | 996   | 730   | 543   | 1000  |
| 16                | 865    | 495   | 1330  | 1230  | 1040  | 1290  | 655   | 516   | 987   | 583   | 966   | 1010  |
| 17                | 1250   | 1410  | 1260  | 740   | 979   | 1300  | 626   | 493   | 988   | 373   | 978   | 1030  |
| 18                | 425    | 1510  | 1190  | 1770  | 962   | 936   | 653   | 491   | 777   | 523   | 963   | 465   |
| 19                | 1330   | 1280  | 514   | 1940  | 954   | 968   | 918   | 497   | 418   | 969   | 965   | 484   |
| 20                | 1370   | 1210  | 492   | 6830  | 625   | 645   | 1030  | 480   | 653   | 993   | 808   | 1050  |
| 21                | 1370   | 1140  | 802   | 6190  | 621   | 1240  | 843   | 463   | 991   | 986   | 382   | 1030  |
| 22                | 1360   | 492   | 521   | 4960  | 921   | 1210  | 743   | 467   | 1010  | 1070  | 525   | 1030  |
| 23                | 1400   | 1130  | 512   | 3800  | 912   | 1230  | 675   | 470   | 987   | 1220  | 970   | 1020  |
| 24                | 485    | 1800  | 845   | 3950  | 912   | 1200  | 713   | 477   | 995   | 516   | 1010  | 975   |
| 25                | 463    | 516   | 988   | 5310  | 902   | 1220  | 685   | 472   | 745   | 624   | 980   | 417   |
| 26                | 1360   | 470   | 600   | 5540  | 892   | 618   | 650   | 488   | 402   | 1000  | 981   | 419   |
| 27                | 1420   | 1120  | 592   | 5550  | 628   | 635   | 683   | 461   | 641   | 1040  | 839   | 1010  |
| 28                | 1410   | 505   | 1460  | 3910  | 607   | 1200  | 646   | 430   | 972   | 1030  | 327   | 1020  |
| 29                | 1410   | 494   | 1360  | 3860  | 1210  | 1190  | 607   | 423   | 969   | 970   | 424   | 1010  |
| 30                | 1420   | 1130  | 1040  | 2190  | ---   | 1210  | 581   | 431   | 958   | 821   | 958   | 999   |
| 31                | 487    | ---   | 950   | 727   | ---   | 1190  | ---   | 419   | ---   | 410   | 980   | ---   |
| TOTAL             | 33050  | 29691 | 29260 | 73624 | 46012 | 34291 | 22611 | 15571 | 24677 | 22275 | 25327 | 25812 |
| MEAN              | 1066   | 990   | 944   | 2375  | 1587  | 1106  | 754   | 502   | 823   | 719   | 817   | 860   |
| MAX               | 1420   | 1800  | 1460  | 6830  | 3890  | 1520  | 1840  | 602   | 1010  | 1220  | 1070  | 1100  |
| MIN               | 403    | 401   | 488   | 558   | 607   | 618   | 565   | 419   | 389   | 355   | 327   | 417   |
| CAL YR 1987 TOTAL | 615032 |       |       | 1685  | 8670  | 393   | MEAN† | 1632  | CFSM† | 1.00  | INT†  | 13.56 |
| WTR YR 1988 TOTAL | 382201 |       |       | 1044  | 6830  | 327   | MEAN† | 1027  | CFSM† | .63   | INT†  | 8.56  |

†ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

## MOBILE RIVER BASIN

343

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 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 05... | 1007 | 84213                                                  | 370                                             | 18.0                                 | 2                                         | 2.0                                                           |
| 05... | 1012 | 84213                                                  | 370                                             | 18.0                                 | 1                                         | 1.0                                                           |
| NOV   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 04... | 1249 | 84213                                                  | 483                                             | 13.0                                 | 3                                         | 3.9                                                           |
| 04... | 1254 | 84213                                                  | 483                                             | 13.0                                 | 2                                         | 2.6                                                           |
| MAR   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 14... | 1055 | 84213                                                  | 827                                             | 11.0                                 | 11                                        | 25                                                            |
| 14... | 1100 | 84213                                                  | 827                                             | 11.0                                 | 9                                         | 20                                                            |
| JUN   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 03... | 1345 | 84213                                                  | 414                                             | 22.5                                 | 12                                        | 13                                                            |
| 03... | 1350 | 84213                                                  | 414                                             | 22.5                                 | 12                                        | 13                                                            |
| JUL   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 13... | 1458 | 84213                                                  | 337                                             | 25.5                                 | 10                                        | 9.1                                                           |
| 13... | 1503 | 84213                                                  | 337                                             | 25.5                                 | 9                                         | 8.2                                                           |
| AUG   |      |                                                        |                                                 |                                      |                                           |                                                               |
| 24... | 1023 | 84213                                                  | 509                                             | 24.5                                 | 7                                         | 9.6                                                           |
| 24... | 1028 | 84213                                                  | 509                                             | 24.5                                 | 7                                         | 9.6                                                           |

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.125 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.250 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.500 MM |
|-------|------|--------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                                             |                                                             |                                                             |                                                             |
| 30... | 1343 | 84213                                                  | 450                                             | <1                                                          | 2                                                           | 15                                                          | 57                                                          |
| 30... | 1344 | 84213                                                  | 450                                             | <1                                                          | 1                                                           | 8                                                           | 44                                                          |
| 30... | 1345 | 84213                                                  | 450                                             | --                                                          | <1                                                          | 4                                                           | 19                                                          |
| 30... | 1346 | 84213                                                  | 450                                             | <1                                                          | 3                                                           | 27                                                          | 62                                                          |
| JUN   |      |                                                        |                                                 |                                                             |                                                             |                                                             |                                                             |
| 21... | 1111 | 84213                                                  | 417                                             | 5                                                           | 17                                                          | 48                                                          | 66                                                          |
| 21... | 1112 | 84213                                                  | 417                                             | <1                                                          | 3                                                           | 17                                                          | 37                                                          |
| 21... | 1113 | 84213                                                  | 417                                             | <1                                                          | 1                                                           | 9                                                           | 29                                                          |
| 21... | 1114 | 84213                                                  | 417                                             | 3                                                           | 11                                                          | 28                                                          | 62                                                          |

| DATE  | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>1.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>2.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>4.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>8.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>16.0 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>32.0 MM |
|-------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| OCT   |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |
| 30... | 97                                                          | 100                                                         | --                                                          | --                                                          | --                                                          | --                                                          |
| 30... | 91                                                          | 100                                                         | --                                                          | --                                                          | --                                                          | --                                                          |
| 30... | 35                                                          | 51                                                          | 67                                                          | 80                                                          | 100                                                         | --                                                          |
| 30... | 85                                                          | 94                                                          | 96                                                          | 98                                                          | 100                                                         | --                                                          |
| JUN   |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |
| 21... | 82                                                          | 97                                                          | 100                                                         | 100                                                         | --                                                          | --                                                          |
| 21... | 65                                                          | 88                                                          | 98                                                          | 99                                                          | 100                                                         | --                                                          |
| 21... | 49                                                          | 74                                                          | 90                                                          | 97                                                          | 100                                                         | --                                                          |
| 21... | 96                                                          | 99                                                          | 100                                                         | 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 mi<sup>2</sup>.

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 ft<sup>3</sup>/s, which are fair.

AVERAGE DISCHARGE.--8 years, 35.4 ft<sup>3</sup>/s, 14.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,180 ft<sup>3</sup>/s, Feb. 3, 1982, gage height, 7.91 ft; minimum daily discharge, 5.1 ft<sup>3</sup>/s, Oct. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft<sup>3</sup>/s and maximum (\*):

| Date                                                                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|--------------------------------------------------------------------------------------------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Jan. 20                                                                                    | 0830 | *692                           | *5.15            | No other peak greater than base discharge. |      |                                |                  |
| Minimum daily discharge, 5.2 ft <sup>3</sup> /s, Dec. 13, Aug. 17, and Aug. 30 to Sept. 2. |      |                                |                  |                                            |      |                                |                  |

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           | 6.8   | 8.1     | 7.8       | 23      | 21      | 21       | 21       | 24   | 11    | 7.0   | 7.2   | 5.2   |
| 2           | 6.0   | 8.9     | 8.5       | 22      | 28      | 22       | 21       | 21   | 9.3   | 6.2   | 7.3   | 5.2   |
| 3           | 6.3   | 8.1     | 8.0       | 19      | 42      | 21       | 20       | 19   | 8.2   | 9.4   | 7.3   | 6.6   |
| 4           | 6.6   | 7.4     | 7.8       | 21      | 48      | 25       | 21       | 19   | 8.1   | 11    | 11    | 17    |
| 5           | 7.1   | 7.3     | 6.9       | 17      | 43      | 20       | 19       | 21   | 9.4   | 7.6   | 18    | 12    |
| 6           | 6.5   | 7.5     | 6.9       | 15      | 38      | 20       | 18       | 19   | 8.9   | 6.9   | 13    | 15    |
| 7           | 6.5   | 9.4     | 7.3       | 17      | 35      | 20       | 18       | 18   | 8.8   | 6.9   | 9.0   | 7.2   |
| 8           | 6.3   | 8.9     | 7.4       | 16      | 32      | 18       | 17       | 16   | 9.2   | 7.2   | 7.7   | 12    |
| 9           | 6.1   | 9.0     | 6.9       | 14      | 30      | 26       | 18       | 18   | 7.9   | 7.8   | 11    | 13    |
| 10          | 7.2   | 11      | 6.9       | 14      | 29      | 39       | 18       | 17   | 8.6   | 8.3   | 8.6   | 14    |
| 11          | 7.5   | 11      | 5.3       | 13      | 27      | 35       | 24       | 16   | 7.8   | 8.6   | 9.3   | 16    |
| 12          | 8.2   | 9.5     | 5.3       | 14      | 26      | 33       | 127      | 15   | 7.5   | 11    | 8.1   | 14    |
| 13          | 7.5   | 10      | 5.2       | 22      | 24      | 33       | 83       | 16   | 6.9   | 6.9   | 7.0   | 13    |
| 14          | 6.7   | 10      | 5.7       | 23      | 23      | 31       | 59       | 15   | 6.9   | 7.6   | 8.3   | 13    |
| 15          | 7.2   | 10      | 14        | 20      | 25      | 29       | 48       | 14   | 6.9   | 7.2   | 6.0   | 12    |
| 16          | 7.4   | 11      | 9.4       | 19      | 24      | 28       | 41       | 14   | 6.9   | 7.0   | 5.8   | 13    |
| 17          | 5.4   | 25      | 7.0       | 58      | 22      | 28       | 37       | 14   | 7.4   | 8.3   | 5.2   | 16    |
| 18          | 6.2   | 12      | 6.3       | 58      | 21      | 27       | 39       | 13   | 7.9   | 6.4   | 5.7   | 15    |
| 19          | 6.6   | 9.0     | 6.0       | 46      | 23      | 27       | 62       | 13   | 9.5   | 5.9   | 6.5   | 13    |
| 20          | 7.0   | 8.5     | 6.9       | 360     | 22      | 26       | 50       | 13   | 8.4   | 5.3   | 8.3   | 7.9   |
| 21          | 6.8   | 8.3     | 7.9       | 87      | 20      | 24       | 40       | 13   | 7.2   | 5.6   | 9.1   | 5.7   |
| 22          | 8.3   | 8.0     | 8.1       | 56      | 19      | 24       | 36       | 13   | 7.3   | 7.1   | 6.8   | 5.9   |
| 23          | 7.1   | 6.6     | 7.0       | 43      | 20      | 24       | 34       | 13   | 6.9   | 13    | 6.0   | 7.7   |
| 24          | 7.9   | 6.8     | 11        | 37      | 25      | 23       | 36       | 13   | 7.5   | 7.7   | 6.6   | 6.3   |
| 25          | 6.3   | 7.2     | 13        | 37      | 24      | 25       | 31       | 14   | 7.1   | 6.7   | 5.7   | 10    |
| 26          | 6.9   | 7.4     | 10        | 31      | 23      | 23       | 30       | 11   | 8.3   | 7.8   | 5.8   | 11    |
| 27          | 10    | 7.7     | 22        | 28      | 22      | 20       | 27       | 11   | 8.3   | 20    | 6.2   | 12    |
| 28          | 9.8   | 8.1     | 142       | 26      | 22      | 19       | 26       | 12   | 7.2   | 15    | 6.4   | 10    |
| 29          | 8.7   | 8.6     | 30        | 24      | 22      | 21       | 24       | 11   | 6.8   | 8.4   | 6.0   | 11    |
| 30          | 9.2   | 8.0     | 22        | 23      | ---     | 20       | 23       | 11   | 6.9   | 8.3   | 5.2   | 8.2   |
| 31          | 8.8   | ---     | 18        | 23      | ---     | 21       | ---      | 11   | ---   | 7.0   | 5.2   | ---   |
| TOTAL       | 224.9 | 278.3   | 436.5     | 1226    | 780     | 773      | 1068     | 468  | 239.0 | 259.1 | 239.3 | 327.9 |
| MEAN        | 7.25  | 9.28    | 14.1      | 39.5    | 26.9    | 24.9     | 35.6     | 15.1 | 7.97  | 8.36  | 7.72  | 10.9  |
| MAX         | 10    | 25      | 142       | 360     | 48      | 39       | 127      | 24   | 11    | 20    | 18    | 17    |
| MIN         | 5.4   | 6.6     | 5.2       | 13      | 19      | 18       | 17       | 11   | 6.8   | 5.3   | 5.2   | 5.2   |
| CFSM        | .22   | .28     | .43       | 1.19    | .81     | .75      | 1.08     | .46  | .24   | .25   | .23   | .33   |
| IN.         | .25   | .31     | .49       | 1.38    | .88     | .87      | 1.20     | .53  | .27   | .29   | .27   | .37   |
| CAL YR 1987 | TOTAL | 10468.3 | MEAN 28.7 | MAX 751 | MIN 5.2 | CFSM .87 | IN 11.76 |      |       |       |       |       |
| WTR YR 1988 | TOTAL | 6320.0  | MEAN 17.3 | MAX 360 | MIN 5.2 | CFSM .52 | IN 7.10  |      |       |       |       |       |

## 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 mi<sup>2</sup>.

## 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: May 25 to June 6. Records fair. Flow regulated by Allatoona Reservoir since 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.--66 years (water years 1905-20, 1939-88), 2,920 ft<sup>3</sup>/s, 21.79 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft<sup>3</sup>/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 ft<sup>3</sup>/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 ft<sup>3</sup>/s, from gage readings and discharge measurements by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,410 ft<sup>3</sup>/s, Jan. 20, maximum gage height, 20.49 ft, Jan. 21; minimum daily discharge, 448 ft<sup>3</sup>/s, Aug. 29.

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     | 1240  | 554   | 1300  | 1050  | 1210  | 1450  | 1530  | 768   | 560   | 1140  | 498   | 1170  |
| 2     | 1270  | 875   | 1300  | 1010  | 2700  | 1440  | 1220  | 772   | 1200  | 1150  | 1150  | 1150  |
| 3     | 1220  | 1620  | 1310  | 695   | 3440  | 1470  | 768   | 745   | 1200  | 488   | 1150  | 1160  |
| 4     | 521   | 1590  | 1300  | 748   | 3730  | 1460  | 768   | 743   | 1200  | 496   | 1170  | 582   |
| 5     | 535   | 1580  | 1130  | 1310  | 4550  | 1180  | 808   | 719   | 580   | 819   | 1200  | 588   |
| 6     | 1550  | 1170  | 562   | 1290  | 3480  | 722   | 746   | 675   | 480   | 516   | 1280  | 1170  |
| 7     | 1520  | 1570  | 759   | 1330  | 2250  | 1160  | 751   | 673   | 1190  | 842   | 598   | 1210  |
| 8     | 1520  | 557   | 1310  | 1310  | 1740  | 1940  | 723   | 653   | 1190  | 841   | 676   | 1180  |
| 9     | 1520  | 492   | 1280  | 1230  | 3220  | 1630  | 751   | 645   | 1190  | 842   | 1350  | 1190  |
| 10    | 1530  | 1310  | 1320  | 1310  | 3150  | 1680  | 718   | 717   | 1200  | 484   | 1140  | 1180  |
| 11    | 536   | 1310  | 1330  | 652   | 3090  | 1690  | 757   | 742   | 1200  | 507   | 1200  | 536   |
| 12    | 601   | 1320  | 1140  | 660   | 3060  | 1420  | 1730  | 683   | 495   | 934   | 1170  | 566   |
| 13    | 1430  | 1320  | 571   | 1280  | 1540  | 707   | 1560  | 668   | 494   | 848   | 1170  | 1230  |
| 14    | 1410  | 1280  | 763   | 1400  | 890   | 1010  | 886   | 659   | 1180  | 860   | 501   | 1270  |
| 15    | 1450  | 600   | 1410  | 1590  | 989   | 1550  | 861   | 629   | 1190  | 852   | 486   | 1190  |
| 16    | 1340  | 589   | 1470  | 1720  | 1240  | 1600  | 852   | 642   | 1180  | 827   | 1160  | 1210  |
| 17    | 1440  | 1490  | 1430  | 773   | 1160  | 1640  | 843   | 654   | 1180  | 519   | 1150  | 1240  |
| 18    | 523   | 1750  | 1350  | 1710  | 1130  | 1250  | 829   | 625   | 1190  | 512   | 1140  | 563   |
| 19    | 1010  | 1510  | 1140  | 2040  | 1120  | 1550  | 973   | 630   | 569   | 1150  | 1180  | 575   |
| 20    | 1550  | 1380  | 576   | 5800  | 1020  | 869   | 943   | 627   | 535   | 1160  | 1170  | 1220  |
| 21    | 1550  | 1330  | 612   | 5960  | 720   | 1160  | 810   | 613   | 1190  | 1190  | 534   | 1210  |
| 22    | 1560  | 592   | 904   | 5160  | 782   | 1540  | 889   | 610   | 1190  | 1210  | 471   | 1190  |
| 23    | 1570  | 848   | 592   | 4730  | 1060  | 1570  | 874   | 607   | 1190  | 1590  | 1150  | 1190  |
| 24    | 1090  | 2020  | 659   | 4440  | 1050  | 1530  | 899   | 612   | 1180  | 734   | 1160  | 1200  |
| 25    | 566   | 1030  | 1130  | 4790  | 1040  | 1570  | 874   | 600   | 1190  | 622   | 1160  | 547   |
| 26    | 954   | 579   | 968   | 5970  | 1050  | 1270  | 871   | 590   | 503   | 1220  | 1170  | 512   |
| 27    | 1610  | 852   | 680   | 5980  | 1010  | 829   | 873   | 580   | 525   | 1190  | 1170  | 1180  |
| 28    | 1600  | 1030  | 1360  | 5570  | 727   | 1090  | 866   | 580   | 1170  | 1350  | 471   | 1190  |
| 29    | 1580  | 586   | 1680  | 4230  | 986   | 1500  | 814   | 570   | 1150  | 1200  | 448   | 1190  |
| 30    | 1620  | 744   | 1240  | 3250  | ---   | 1520  | 783   | 570   | 1150  | 1180  | 1150  | 1190  |
| 31    | 1200  | ---   | 1090  | 921   | ---   | 1520  | ---   | 560   | ---   | 509   | 1150  | ---   |
| TOTAL | 38616 | 33478 | 33666 | 79909 | 53134 | 42517 | 27570 | 20161 | 29641 | 27782 | 30573 | 30779 |
| MEAN  | 1246  | 1116  | 1086  | 2578  | 1832  | 1372  | 919   | 650   | 988   | 896   | 986   | 1026  |
| MAX   | 1620  | 2020  | 1680  | 5980  | 4550  | 1940  | 1730  | 772   | 1200  | 1590  | 1350  | 1270  |
| MIN   | 521   | 492   | 562   | 652   | 720   | 707   | 718   | 560   | 480   | 484   | 448   | 512   |

CAL YR 1987 TOTAL 750010 MEAN 2055 MAX 16000 MIN 487 MEAN† 2002 CFSM† 1.10 INT† 14.94  
WTR YR 1988 TOTAL 447826 MEAN 1224 MAX 5980 MIN 448 MEAN† 1207 CFSM† .66 INT† 9.03

†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 analyses with the analyzing agency code 81213 are provided by the U.S. Geological Survey. Laboratory 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.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

|       |      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)              | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS)                  | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)                              | TEMPER-<br>ATURE<br>WATER<br>(DEG C)                            | TEMPER-<br>ATURE<br>AIR<br>(DEG C)                               | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)                  | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |                                             |                                               |
|-------|------|--------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 28... | 1215 | 81341                                                  | 733                                             | 120                                                            | 123                                                      | 7.60                                            | 7.40                                                               | 16.5                                                            | 16.5                                                             | 9.4                                                  | 98                                                             |                                             |                                               |
| NOV   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 24... | 1215 | 81341                                                  | 2520                                            | 105                                                            | 104                                                      | 7.70                                            | --                                                                 | 12.0                                                            | 22.0                                                             | 10.0                                                 | 93                                                             |                                             |                                               |
| DEC   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 29... | 0945 | 81341                                                  | 1520                                            | 140                                                            | 134                                                      | 7.60                                            | 7.60                                                               | 10.5                                                            | 6.0                                                              | 10.4                                                 | 94                                                             |                                             |                                               |
| JAN   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 26... | 0950 | 81341                                                  | 6150                                            | 68                                                             | 66                                                       | 7.30                                            | 7.30                                                               | 5.5                                                             | 2.0                                                              | 12.0                                                 | 96                                                             |                                             |                                               |
| FEB   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 24... | 1115 | 81341                                                  | 763                                             | 135                                                            | 133                                                      | 7.70                                            | 8.00                                                               | 9.0                                                             | 10.5                                                             | 10.4                                                 | 91                                                             |                                             |                                               |
| MAR   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 30... | 1445 | 81341                                                  | 778                                             | 122                                                            | 128                                                      | 7.90                                            | 7.90                                                               | 17.0                                                            | 26.0                                                             | 11.0                                                 | 115                                                            |                                             |                                               |
| APR   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 27... | 1040 | 81341                                                  | 842                                             | 155                                                            | 157                                                      | 7.60                                            | 7.70                                                               | 18.5                                                            | 22.0                                                             | 8.4                                                  | 91                                                             |                                             |                                               |
| MAY   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 24... | 0845 | 81341                                                  | 607                                             | 170                                                            | 170                                                      | 7.60                                            | 7.50                                                               | 15.0                                                            | 18.0                                                             | 8.2                                                  | 83                                                             |                                             |                                               |
| JUN   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 29... | 1450 | 81341                                                  | 912                                             | 100                                                            | 99                                                       | 7.70                                            | 7.60                                                               | 24.0                                                            | 34.0                                                             | 7.4                                                  | 90                                                             |                                             |                                               |
| JUL   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 27... | 1450 | 81341                                                  | 1050                                            | 102                                                            | 103                                                      | 7.70                                            | 7.60                                                               | 26.0                                                            | 34.0                                                             | 7.4                                                  | 93                                                             |                                             |                                               |
| AUG   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 24... | 1050 | 81341                                                  | 1830                                            | 99                                                             | 98                                                       | 7.60                                            | 7.40                                                               | 25.0                                                            | 28.0                                                             | 6.7                                                  | 83                                                             |                                             |                                               |
| SEP   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 28... | 1041 | 81341                                                  | 2650                                            | --                                                             | 118                                                      | 7.50                                            | 7.60                                                               | 22.5                                                            | 25.0                                                             | 7.6                                                  | --                                                             |                                             |                                               |
|       |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| DATE  |      | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | TUR-<br>BID-<br>ITY<br>(FTU)                    | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN)         | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WAT LAB<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)           | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
| OCT   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 28... |      | 81341                                                  | 3.0                                             | 2.4                                                            | 120                                                      | --                                              | --                                                                 | 36                                                              | <1                                                               | 0.240                                                | 0.040                                                          | 0.060                                       | --                                            |
| NOV   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 24... |      | 81341                                                  | 9.0                                             | 1.8                                                            | 330                                                      | 42                                              | 28                                                                 | 14                                                              | 18                                                               | 0.190                                                | 0.030                                                          | 0.070                                       | 3.1                                           |
| DEC   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 29... |      | 81341                                                  | 27                                              | 1.5                                                            | 1100                                                     | 60                                              | 17                                                                 | 43                                                              | 44                                                               | 0.370                                                | <0.020                                                         | 0.110                                       | 2.9                                           |
| JAN   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 26... |      | 81341                                                  | 24                                              | 1.8                                                            | 80                                                       | 24                                              | 1                                                                  | 23                                                              | 31                                                               | 0.390                                                | 0.070                                                          | 0.060                                       | 2.3                                           |
| FEB   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 24... |      | 81341                                                  | 15                                              | 1.0                                                            | 20                                                       | 54                                              | 5                                                                  | 49                                                              | 5                                                                | 0.510                                                | <0.020                                                         | 0.060                                       | 2.6                                           |
| MAR   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 30... |      | 81341                                                  | 8.0                                             | 0.7                                                            | 20                                                       | 54                                              | 3                                                                  | 51                                                              | 7                                                                | 0.480                                                | 0.070                                                          | 0.060                                       | 3.2                                           |
| APR   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 27... |      | 81341                                                  | 10                                              | 2.1                                                            | 280                                                      | 69                                              | 9                                                                  | 60                                                              | 12                                                               | 0.480                                                | 0.170                                                          | 0.050                                       | 2.6                                           |
| MAY   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 24... |      | 81341                                                  | 7.0                                             | 0.9                                                            | 170                                                      | 75                                              | 11                                                                 | 64                                                              | 8                                                                | 0.430                                                | 0.090                                                          | 0.070                                       | 2.2                                           |
| JUN   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 29... |      | 81341                                                  | 10                                              | 1.2                                                            | 170                                                      | 36                                              | 3                                                                  | 33                                                              | 14                                                               | 0.400                                                | 0.030                                                          | 0.060                                       | 2.1                                           |
| JUL   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 27... |      | 81341                                                  | 27                                              | 1.0                                                            | 280                                                      | 42                                              | 8                                                                  | 34                                                              | 51                                                               | 0.360                                                | 0.030                                                          | 0.100                                       | 2.8                                           |
| AUG   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 24... |      | 81341                                                  | 11                                              | 0.8                                                            | 170                                                      | 39                                              | 3                                                                  | 36                                                              | 33                                                               | 0.210                                                | 0.030                                                          | 0.050                                       | 2.5                                           |
| SEP   |      |                                                        |                                                 |                                                                |                                                          |                                                 |                                                                    |                                                                 |                                                                  |                                                      |                                                                |                                             |                                               |
| 28... |      | 81341                                                  | 20                                              | 0.7                                                            | 150                                                      | 2                                               | 0                                                                  | 38                                                              | 46                                                               | 0.250                                                | 0.090                                                          | 0.140                                       | 5.7                                           |

## MOBILE RIVER BASIN

347

02396000 ETOWAH RIVER AT ROME, GA---Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| SEP   |      |                                                        |                                                 |                                                   |                                                          |                                |                                      |                                     |                                                                |                                                                 |                                                           |
| 19... | 0930 | 81213                                                  | 558                                             | 111                                               | 109                                                      | 7.65                           | 23.5                                 | 7.6                                 | 91                                                             | 41                                                              | 41                                                        |
| 21... | 1130 | 81213                                                  | 2510                                            | 112                                               | 109                                                      | 7.64                           | 24.5                                 | 7.3                                 | 89                                                             | 37                                                              | 36                                                        |
| 23... | 1030 | 81213                                                  | 2560                                            | 114                                               | 111                                                      | 7.67                           | 24.0                                 | 7.2                                 | 87                                                             | 38                                                              | 39                                                        |
| 26... | 1725 | 81213                                                  | 520                                             | 118                                               | 114                                                      | 8.14                           | 25.0                                 | 8.6                                 | 106                                                            | 46                                                              | 44                                                        |
| 28... | 1040 | 81213                                                  | 2650                                            | 118                                               | 115                                                      | 7.76                           | 22.5                                 | 7.7                                 | 90                                                             | 41                                                              | 40                                                        |
| 30... | 1010 | 81213                                                  | 2550                                            | 118                                               | 115                                                      | 7.71                           | 22.5                                 | 7.6                                 | 88                                                             | 43                                                              | 40                                                        |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|--------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| SEP   |                                                        |                                              |                                                     |                                                                    |                                                                     |                                            |                                                      |
| 19... | 81213                                                  | 11                                           | 5.8                                                 | 62                                                                 | 5                                                                   | <10                                        | 10                                                   |
| 21... | 81213                                                  | 10                                           | 6.3                                                 | 71                                                                 | 65                                                                  | 30                                         | <10                                                  |
| 23... | 81213                                                  | 10                                           | 3.0                                                 | 71                                                                 | 61                                                                  | 10                                         | <10                                                  |
| 26... | 81213                                                  | 11                                           | 2.4                                                 | 66                                                                 | <1                                                                  | <10                                        | <10                                                  |
| 28... | 81213                                                  | 10                                           | 3.2                                                 | 67                                                                 | 70                                                                  | <10                                        | <10                                                  |
| 30... | 81213                                                  | 11                                           | 3.0                                                 | 69                                                                 | 55                                                                  | 20                                         | <10                                                  |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| SEP   |                                                        |                                                               |                                                               |                                                               |                                                               |                                                                             |                                                   |                                             |                                                                |                                               |
| 19... | 81213                                                  | <0.010                                                        | 0.250                                                         | 0.010                                                         | 0.24                                                          | 0.25                                                                        | 0.50                                              | 0.040                                       | 0.020                                                          | 3.6                                           |
| 21... | 81213                                                  | <0.010                                                        | 0.320                                                         | 0.030                                                         | 0.89                                                          | 0.92                                                                        | 1.2                                               | 0.170                                       | 0.050                                                          | 2.3                                           |
| 23... | 81213                                                  | 0.010                                                         | 0.290                                                         | 0.020                                                         | --                                                            | <0.20                                                                       | --                                                | 0.120                                       | 0.050                                                          | 1.8                                           |
| 26... | 81213                                                  | <0.010                                                        | 0.200                                                         | 0.010                                                         | --                                                            | <0.20                                                                       | --                                                | 0.040                                       | 0.020                                                          | 1.7                                           |
| 28... | 81213                                                  | <0.010                                                        | 0.260                                                         | <0.010                                                        | --                                                            | <0.20                                                                       | --                                                | 0.130                                       | 0.040                                                          | 1.7                                           |
| 30... | 81213                                                  | <0.010                                                        | 0.260                                                         | 0.010                                                         | 0.32                                                          | 0.33                                                                        | --                                                | 0.110                                       | 0.040                                                          | 2.0                                           |

## MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°12'01", long 85°15'24", Floyd County, Hydrologic Unit 03150105, on left bank attached to 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 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1896 to December 1903 (published as "at Rome"), June 1928 to December 1931, March 1937 to December 1958, October 1962 to current year. 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, except for the period Apr. 28 to June 1, which are poor. 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.--57 years (water years 1897-1903, 1929-31, 1938-58, 1963-88), 6,596 ft<sup>3</sup>/s, 22.17 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 65,000 ft<sup>3</sup>/s, Jan. 22, 1947, gage height, 37.0 ft; minimum daily, 870 ft<sup>3</sup>/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 ft<sup>3</sup>/s, from rating curve extended above 63,000 ft<sup>3</sup>/s on basis of peak flow at Gadsden, Ala.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,600 ft<sup>3</sup>/s, Jan. 21, gage height, 22.32 ft; minimum daily discharge, 934 ft<sup>3</sup>/s, Aug. 29.

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                 | 1740    | 1090  | 1840  | 2320   | 2620   | 2490  | 2360   | 2540  | 1280  | 1530  | 1090  | 1510  |       |
| 2                 | 1740    | 1110  | 1850  | 2240   | 4230   | 2470  | 2320   | 2400  | 1770  | 1540  | 1550  | 1490  |       |
| 3                 | 1700    | 2050  | 1870  | 1940   | 5340   | 2470  | 1910   | 2260  | 1790  | 950   | 1590  | 1550  |       |
| 4                 | 1110    | 2040  | 1830  | 2150   | 6530   | 2580  | 2000   | 2110  | 1760  | 937   | 1600  | 1540  |       |
| 5                 | 1070    | 2040  | 1820  | 2810   | 8040   | 2610  | 2060   | 2030  | 1200  | 1260  | 1830  | 2210  |       |
| 6                 | 1890    | 1970  | 1100  | 2680   | 6910   | 2060  | 2060   | 2000  | 1170  | 1020  | 1800  | 3490  |       |
| 7                 | 1930    | 1890  | 1120  | 2570   | 5260   | 2150  | 2020   | 1960  | 1730  | 1310  | 1300  | 3340  |       |
| 8                 | 1910    | 1210  | 1840  | 2550   | 4020   | 3030  | 1950   | 1770  | 1760  | 1340  | 1450  | 2340  |       |
| 9                 | 1890    | 987   | 1820  | 2390   | 5170   | 2910  | 1960   | 1670  | 1750  | 1340  | 2100  | 1960  |       |
| 10                | 1880    | 1760  | 1830  | 2480   | 5440   | 3790  | 1920   | 1700  | 1740  | 1010  | 1780  | 1850  |       |
| 11                | 1050    | 1890  | 1830  | 1800   | 5420   | 4460  | 1960   | 1690  | 1720  | 1010  | 1720  | 1250  |       |
| 12                | 947     | 1920  | 1780  | 1690   | 5350   | 5090  | 5940   | 1720  | 1120  | 1440  | 1780  | 1390  |       |
| 13                | 1740    | 1930  | 1060  | 2280   | 4090   | 5220  | 8260   | 1630  | 1090  | 1370  | 1830  | 2990  |       |
| 14                | 1820    | 1870  | 1080  | 2700   | 2850   | 5410  | 7180   | 1560  | 1640  | 1460  | 1110  | 3450  |       |
| 15                | 1850    | 1260  | 1980  | 3070   | 2800   | 5390  | 5780   | 1540  | 1690  | 1360  | 1010  | 2480  |       |
| 16                | 1840    | 1080  | 2190  | 3490   | 3160   | 4630  | 4720   | 1580  | 1670  | 1350  | 1530  | 2000  |       |
| 17                | 1770    | 1990  | 2310  | 2720   | 3080   | 4020  | 3600   | 1540  | 1630  | 1120  | 1550  | 2320  |       |
| 18                | 1180    | 2380  | 2190  | 5200   | 3040   | 3290  | 3440   | 1480  | 1630  | 1140  | 1570  | 2270  |       |
| 19                | 1380    | 2230  | 2090  | 7100   | 2990   | 3230  | 4840   | 1430  | 1120  | 1680  | 1590  | 1990  |       |
| 20                | 1950    | 2050  | 1300  | 17500  | 2900   | 2460  | 6860   | 1420  | 1130  | 1630  | 1710  | 2250  |       |
| 21                | 1930    | 1910  | 1280  | 24600  | 2580   | 2380  | 6550   | 1390  | 1680  | 1650  | 1510  | 2160  |       |
| 22                | 1960    | 1290  | 1600  | 21100  | 2520   | 2740  | 5330   | 1390  | 1680  | 1670  | 2010  | 2050  |       |
| 23                | 1990    | 1240  | 1250  | 16000  | 2720   | 2580  | 4490   | 1420  | 1660  | 2030  | 2570  | 1900  |       |
| 24                | 1890    | 2450  | 1440  | 9090   | 2490   | 2500  | 4300   | 1420  | 1650  | 1420  | 2050  | 1800  |       |
| 25                | 1080    | 1880  | 2050  | 7060   | 2320   | 2500  | 3940   | 1410  | 1670  | 1200  | 1840  | 1260  |       |
| 26                | 1130    | 1160  | 2100  | 7790   | 2220   | 2560  | 3620   | 1380  | 1060  | 1720  | 1760  | 1180  |       |
| 27                | 2090    | 1160  | 1860  | 7570   | 2190   | 2110  | 3330   | 1370  | 1000  | 1680  | 1680  | 1870  |       |
| 28                | 2080    | 1760  | 2760  | 7280   | 1900   | 2130  | 3100   | 1350  | 1530  | 1790  | 1050  | 1880  |       |
| 29                | 2070    | 1170  | 3490  | 5750   | 1970   | 2500  | 2840   | 1350  | 1540  | 1750  | 934   | 1790  |       |
| 30                | 2100    | 1180  | 3180  | 5270   | ---    | 2430  | 2630   | 1340  | 1530  | 1770  | 1490  | 1720  |       |
| 31                | 2000    | ---   | 2560  | 2670   | ---    | 2360  | ---    | 1320  | ---   | 1190  | 1560  | ---   |       |
| TOTAL             | 52707   | 49947 | 58300 | 185860 | 110150 | 96550 | 113270 | 51170 | 45390 | 43667 | 49944 | 61280 |       |
| MEAN              | 1700    | 1665  | 1881  | 5995   | 3798   | 3115  | 3776   | 1651  | 1513  | 1409  | 1611  | 2043  |       |
| MAX               | 2100    | 2450  | 3490  | 24600  | 8040   | 5410  | 8260   | 2540  | 1790  | 2030  | 2570  | 3490  |       |
| MIN               | 947     | 987   | 1060  | 1690   | 1900   | 2060  | 1910   | 1320  | 1000  | 937   | 934   | 1180  |       |
| CAL YR 1987 TOTAL | 1597006 | MEAN  | 4375  | MAX    | 32700  | MIN   | 947    | MEAN† | 4274  | CFSMT | 1.06  | INT   | 14.36 |
| WTR YR 1988 TOTAL | 918235  | MEAN  | 2509  | MAX    | 24600  | MIN   | 934    | MEAN† | 2514  | CFSMT | .62   | INT   | 8.47  |

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE, CARTERS RE-REGULATION DAM, AND ALLATOONA RESERVOIR.

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GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT        | NOV   | DEC       | JAN   | FEB       | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-------|-----------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 11.43      | 10.89 | 11.57     | 11.89 | 12.06     | 11.98 | 12.08 | 12.14 | 11.16 | 11.33 | 10.97 | 11.32 |
| 2           | 11.42      | 10.91 | 11.58     | 11.85 | 12.75     | 11.96 | 12.04 | 12.08 | 11.52 | 11.34 | 11.35 | 11.31 |
| 3           | 11.39      | 11.62 | 11.58     | 11.66 | 13.22     | 11.97 | 11.80 | 12.03 | 11.54 | 10.83 | 11.39 | 11.35 |
| 4           | 10.91      | 11.61 | 11.56     | 11.79 | 13.75     | 12.03 | 11.87 | 11.97 | 11.51 | 10.81 | 11.40 | 11.35 |
| 5           | 10.88      | 11.61 | 11.55     | 12.16 | 14.40     | 12.04 | 11.91 | 11.93 | 11.09 | 11.12 | 11.57 | 11.83 |
| 6           | 11.49      | 11.55 | 10.99     | 12.09 | 13.91     | 11.74 | 11.91 | 11.92 | 11.05 | 10.91 | 11.54 | 12.45 |
| 7           | 11.54      | 11.48 | 11.00     | 12.04 | 13.19     | 11.78 | 11.89 | 11.90 | 11.49 | 11.17 | 11.17 | 12.38 |
| 8           | 11.53      | 11.00 | 11.56     | 12.02 | 12.67     | 12.24 | 11.83 | 11.79 | 11.51 | 11.20 | 11.30 | 11.89 |
| 9           | 11.51      | 10.79 | 11.55     | 11.94 | 13.15     | 12.21 | 11.84 | 11.70 | 11.50 | 11.19 | 11.74 | 11.66 |
| 10          | 11.50      | 11.42 | 11.56     | 11.97 | 13.26     | 12.58 | 11.81 | 11.74 | 11.50 | 10.89 | 11.53 | 11.58 |
| 11          | 10.85      | 11.53 | 11.55     | 11.56 | 13.25     | 12.83 | 11.84 | 11.72 | 11.48 | 10.89 | 11.49 | 11.13 |
| 12          | 10.74      | 11.55 | 11.51     | 11.49 | 13.22     | 13.11 | 13.54 | 11.77 | 11.00 | 11.28 | 11.53 | 11.25 |
| 13          | 11.44      | 11.56 | 10.95     | 11.84 | 12.71     | 13.16 | 13.16 | 14.49 | 11.64 | 10.97 | 11.23 | 11.57 |
| 14          | 11.50      | 11.51 | 10.96     | 12.08 | 12.18     | 13.25 | 14.05 | 11.56 | 11.42 | 11.30 | 10.99 | 12.43 |
| 15          | 11.52      | 11.09 | 11.67     | 12.26 | 12.16     | 13.24 | 13.48 | 11.53 | 11.46 | 11.21 | 10.90 | 11.97 |
| 16          | 11.51      | 10.96 | 11.79     | 12.46 | 12.32     | 12.93 | 13.05 | 11.58 | 11.44 | 11.21 | 11.33 | 11.68 |
| 17          | 11.43      | 11.65 | 11.86     | 12.10 | 12.28     | 12.70 | 12.65 | 11.53 | 11.42 | 11.00 | 11.35 | 11.87 |
| 18          | 10.98      | 11.91 | 11.79     | 13.16 | 12.27     | 12.43 | 12.60 | 11.45 | 11.42 | 11.02 | 11.37 | 11.87 |
| 19          | 11.15      | 11.82 | 11.72     | 14.00 | 12.24     | 12.44 | 13.10 | 11.38 | 11.00 | 11.45 | 11.39 | 11.69 |
| 20          | 11.55      | 11.71 | 11.18     | 18.38 | 12.20     | 12.10 | 13.91 | 11.36 | 11.02 | 11.41 | 11.48 | 11.83 |
| 21          | 11.54      | 11.62 | 11.16     | 21.82 | 12.04     | 12.07 | 13.75 | 11.32 | 11.45 | 11.43 | 11.35 | 11.79 |
| 22          | 11.56      | 11.16 | 11.41     | 20.08 | 12.01     | 12.25 | 13.20 | 11.32 | 11.45 | 11.44 | 11.70 | 11.71 |
| 23          | 11.58      | 11.11 | 11.13     | 17.57 | 12.11     | 12.18 | 12.82 | 11.35 | 11.44 | 11.69 | 12.02 | 11.62 |
| 24          | 11.50      | 11.97 | 11.28     | 14.78 | 11.99     | 12.14 | 12.74 | 11.35 | 11.43 | 11.27 | 11.71 | 11.55 |
| 25          | 10.88      | 11.57 | 11.73     | 13.98 | 11.89     | 12.15 | 12.61 | 11.35 | 11.44 | 11.08 | 11.57 | 11.13 |
| 26          | 10.92      | 11.04 | 11.76     | 14.28 | 11.83     | 12.18 | 12.49 | 11.30 | 10.94 | 11.48 | 11.52 | 11.06 |
| 27          | 11.65      | 11.03 | 11.61     | 14.19 | 11.81     | 11.95 | 12.40 | 11.29 | 10.88 | 11.45 | 11.46 | 11.58 |
| 28          | 11.64      | 11.51 | 12.13     | 14.06 | 11.63     | 11.95 | 12.33 | 11.26 | 11.33 | 11.52 | 10.93 | 11.60 |
| 29          | 11.63      | 11.06 | 12.46     | 13.40 | 11.68     | 12.14 | 12.25 | 11.26 | 11.34 | 11.51 | 10.81 | 11.54 |
| 30          | 11.65      | 11.06 | 12.32     | 13.20 | ---       | 12.11 | 12.17 | 11.25 | 11.34 | 11.52 | 11.29 | 11.49 |
| 31          | 11.57      | ---   | 12.03     | 12.09 | ---       | 12.07 | ---   | 11.22 | ---   | 11.07 | 11.36 | ---   |
| MEAN        | 11.37      | 11.38 | 11.56     | 13.49 | 12.56     | 12.32 | 12.62 | 11.58 | 11.32 | 11.23 | 11.39 | 11.67 |
| MAX         | 11.65      | 11.97 | 12.46     | 21.82 | 14.40     | 13.25 | 14.49 | 12.14 | 11.54 | 11.69 | 12.02 | 12.45 |
| MIN         | 10.74      | 10.79 | 10.95     | 11.49 | 11.63     | 11.74 | 11.80 | 11.22 | 10.88 | 10.81 | 10.81 | 11.06 |
| CAL YR 1987 | MEAN 12.76 |       | MAX 26.97 |       | MIN 10.74 |       |       |       |       |       |       |       |
| WTR YR 1988 | MEAN 11.87 |       | MAX 21.82 |       | MIN 10.74 |       |       |       |       |       |       |       |



## MOBILE RIVER BASIN

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. April 1988 to September 1988.

INSTRUMENTATION.--Water-temperature recorder. Water temperature recorded hourly.

REMARKS.--Laboratory analyses with the analyzing agency code 81213 are provided by the U.S. Geological Survey. Laboratory 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.

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 18; minimum recorded, 13.5°C, Apr. 13.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1030 | 81341                                                  | 1990                                            | 108                                               | 110                                                      | 7.50                           | 7.30                                  | 16.0                                 | 16.5                               | 9.3                                 | 95                                                             |
| NOV   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1030 | 81341                                                  | 2610                                            | 140                                               | 135                                                      | 7.70                           | 7.70                                  | 11.0                                 | 19.5                               | 10.1                                | 92                                                             |
| DEC   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1150 | 81341                                                  | 3290                                            | 160                                               | 151                                                      | 7.50                           | 7.70                                  | 11.0                                 | 11.0                               | 9.8                                 | 90                                                             |
| JAN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 1150 | 81341                                                  | 8130                                            | 92                                                | 88                                                       | 7.40                           | 7.20                                  | 6.0                                  | 5.0                                | 11.4                                | 92                                                             |
| FEB   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1350 | 81341                                                  | 2270                                            | 158                                               | 150                                                      | 7.60                           | 8.00                                  | 8.5                                  | 13.0                               | 10.2                                | 88                                                             |
| MAR   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 30... | 1300 | 81341                                                  | 2080                                            | 129                                               | 131                                                      | 7.60                           | 7.80                                  | 16.0                                 | 25.0                               | 10.2                                | 104                                                            |
| APR   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1300 | 81341                                                  | 3320                                            | 130                                               | 130                                                      | 7.50                           | 7.40                                  | 19.0                                 | 23.0                               | 7.6                                 | 84                                                             |
| MAY   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1100 | 81341                                                  | 1410                                            | 162                                               | 163                                                      | 7.70                           | 7.50                                  | 22.5                                 | 21.0                               | 7.4                                 | 87                                                             |
| JUN   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1250 | 81341                                                  | 2020                                            | 160                                               | 157                                                      | 8.10                           | 8.00                                  | 28.0                                 | 31.5                               | 8.4                                 | 110                                                            |
| JUL   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1230 | 81341                                                  | 2300                                            | 148                                               | 148                                                      | 7.80                           | 7.60                                  | 27.0                                 | 34.0                               | 7.3                                 | 93                                                             |
| AUG   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1320 | 81341                                                  | 2550                                            | 139                                               | 136                                                      | 7.40                           | 7.50                                  | 26.0                                 | 29.0                               | 5.5                                 | 69                                                             |
| SEP   |      |                                                        |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1320 | 81341                                                  | 2640                                            | 160                                               | 155                                                      | 7.60                           | 7.70                                  | 23.5                                 | 27.0                               | 7.5                                 | 89                                                             |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 28... | 81341                                                  | 6.0                          | 1.9                                                            | 490                                              | 36                                              | 1                                                                 | 35                                                              | 0.190                                                | 0.070                                                | 0.140                                       | --                                            |
| NOV   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 24... | 81341                                                  | 5.0                          | 1.7                                                            | 790                                              | 60                                              | 13                                                                | 47                                                              | 0.310                                                | 0.050                                                | 0.250                                       | 3.3                                           |
| DEC   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 29... | 81341                                                  | 30                           | 2.0                                                            | 1300                                             | 66                                              | 22                                                                | 44                                                              | 0.460                                                | 0.330                                                | 0.260                                       | 3.2                                           |
| JAN   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 26... | 81341                                                  | 25                           | 2.5                                                            | 490                                              | 30                                              | 2                                                                 | 28                                                              | 0.480                                                | 0.140                                                | 0.180                                       | 3.2                                           |
| FEB   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 24... | 81341                                                  | 10                           | 1.1                                                            | 70                                               | 60                                              | 4                                                                 | 56                                                              | 0.500                                                | 0.050                                                | 0.180                                       | 2.8                                           |
| MAR   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 30... | 81341                                                  | 8.0                          | 1.0                                                            | 110                                              | 69                                              | 21                                                                | 48                                                              | 0.420                                                | 0.030                                                | 0.200                                       | 3.7                                           |
| APR   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 27... | 81341                                                  | 11                           | 2.0                                                            | 170                                              | 51                                              | 3                                                                 | 48                                                              | 0.470                                                | 0.070                                                | 0.200                                       | 2.6                                           |
| MAY   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 24... | 81341                                                  | 12                           | 0.9                                                            | 330                                              | 66                                              | 8                                                                 | 58                                                              | 0.420                                                | 0.060                                                | 0.280                                       | 3.2                                           |
| JUN   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 29... | 81341                                                  | 10                           | 1.5                                                            | 220                                              | 60                                              | 8                                                                 | 52                                                              | 0.300                                                | 0.020                                                | <0.020                                      | 3.4                                           |
| JUL   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 27... | 81341                                                  | 17                           | 1.2                                                            | 790                                              | 51                                              | 4                                                                 | 47                                                              | 0.360                                                | <0.020                                               | 0.260                                       | 9.1                                           |
| AUG   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 24... | 81341                                                  | 19                           | 0.7                                                            | 1100                                             | --                                              | --                                                                | 45                                                              | 0.450                                                | 0.050                                                | 0.450                                       | 4.3                                           |
| SEP   |                                                        |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 27... | 81341                                                  | 11                           | 1.3                                                            | 220                                              | 69                                              | 18                                                                | 51                                                              | 0.350                                                | 0.100                                                | 0.190                                       | 2.4                                           |

## MOBILE RIVER BASIN

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02397000 COOSA RIVER NEAR ROME, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | ALKA-<br>LITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CAC03 | ALKA-<br>LITY<br>WAT.DIS<br>FET<br>LAB<br>CAC03<br>(MG/L) |
|-------|------|--------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| SEP   |      |                                                        |                                                 |                                                   |                                                          |                                |                                      |                                     |                                                                |                                                                 |                                                           |
| 19... | 1305 | 81213                                                  | 1980                                            | 141                                               | 139                                                      | 7.56                           | 22.5                                 | 6.2                                 | 73                                                             | 49                                                              | 47                                                        |
| 21... | 1515 | 81213                                                  | 2720                                            | 172                                               | 167                                                      | 7.55                           | 24.0                                 | 5.8                                 | 70                                                             | 58                                                              | 55                                                        |
| 23... | 1400 | 81213                                                  | 2560                                            | --                                                | 155                                                      | 7.62                           | 24.5                                 | 7.2                                 | 88                                                             | 50                                                              | 51                                                        |
| 26... | 1150 | 81213                                                  | 1160                                            | 154                                               | 152                                                      | 7.68                           | 24.5                                 | 6.9                                 | 84                                                             | 55                                                              | 52                                                        |
| 28... | 1400 | 81213                                                  | 2580                                            | 160                                               | 156                                                      | 7.77                           | 23.5                                 | 7.1                                 | 85                                                             | 54                                                              | 52                                                        |
| 30... | 1345 | 81213                                                  | 2390                                            | 160                                               | 156                                                      | 7.62                           | 23.0                                 | 6.8                                 | 80                                                             | 50                                                              | 49                                                        |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUSP.<br>TOTAL,<br>RESIDUE<br>AT 110<br>DEG. C<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------|--------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| SEP   |                                                        |                                              |                                                     |                                                            |                                                                     |                                            |                                                      |
| 19... | 81213                                                  | 16                                           | 3.1                                                 | 88                                                         | 78                                                                  | 130                                        | 80                                                   |
| 21... | 81213                                                  | 18                                           | 5.4                                                 | 102                                                        | 69                                                                  | 90                                         | 60                                                   |
| 23... | 81213                                                  | 16                                           | 6.5                                                 | 99                                                         | 20                                                                  | 30                                         | 40                                                   |
| 26... | 81213                                                  | 17                                           | 5.9                                                 | 93                                                         | 16                                                                  | 30                                         | 30                                                   |
| 28... | 81213                                                  | 17                                           | 5.8                                                 | 84                                                         | 8                                                                   | --                                         | --                                                   |
| 30... | 81213                                                  | 16                                           | 7.3                                                 | 111                                                        | 6                                                                   | 20                                         | 50                                                   |

| DATE  | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHOROUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|--------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| SEP   |                                                        |                                                               |                                                               |                                                               |                                                               |                                                                             |                                                   |                                             |                                                                |                                               |
| 19... | 81213                                                  | 0.010                                                         | 0.430                                                         | 0.050                                                         | 0.45                                                          | 0.50                                                                        | 0.93                                              | 0.310                                       | 0.190                                                          | 3.7                                           |
| 21... | 81213                                                  | 0.010                                                         | 0.510                                                         | 0.030                                                         | 0.32                                                          | 0.35                                                                        | 0.86                                              | 0.260                                       | 0.150                                                          | 5.1                                           |
| 23... | 81213                                                  | 0.010                                                         | 0.460                                                         | <0.010                                                        | --                                                            | 0.29                                                                        | 0.75                                              | 0.270                                       | 0.200                                                          | 3.0                                           |
| 26... | 81213                                                  | 0.010                                                         | 0.420                                                         | 0.010                                                         | 0.24                                                          | 0.25                                                                        | 0.67                                              | 0.400                                       | 0.230                                                          | 2.9                                           |
| 28... | 81213                                                  | <0.010                                                        | 0.380                                                         | 0.010                                                         | 0.50                                                          | 0.51                                                                        | 0.89                                              | 0.200                                       | 0.140                                                          | 2.3                                           |
| 30... | 81213                                                  | 0.010                                                         | 0.450                                                         | 0.010                                                         | 0.20                                                          | 0.21                                                                        | 0.66                                              | 0.270                                       | 0.210                                                          | 2.8                                           |

[illegible]

## 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 mi<sup>2</sup>.

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 to poor.

AVERAGE DISCHARGE.--7 years, 77.1 ft<sup>3</sup>/s, 15.65 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,080 ft<sup>3</sup>/s, Feb. 3, 1982, gage height, 16.43 ft; minimum daily discharge 10 ft<sup>3</sup>/s, Aug. 6, 1986, June 17, 18, 24, 1988 and Aug. 19, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 4, 1979, reached a stage of 21.1 ft from floodmarks, discharge, 16,500 ft<sup>3</sup>/s from rating curve extended above 4,500 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20 | 0445 | *1,990                            | *11.11              | No other peak greater than base discharge. |      |                                   |                     |

Minimum daily discharge, 10 ft<sup>3</sup>/s, June 17, 18, 24, and Aug. 19.

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     | 16   | 15   | 12   | 27   | 45   | 31   | 24   | 30   | 16   | 12   | 11   | 11   |
| 2     | 13   | 15   | 13   | 28   | 227  | 30   | 24   | 28   | 16   | 12   | 11   | 11   |
| 3     | 13   | 14   | 13   | 27   | 421  | 30   | 24   | 27   | 15   | 13   | 11   | 11   |
| 4     | 12   | 14   | 13   | 28   | 436  | 36   | 24   | 29   | 14   | 13   | 12   | 17   |
| 5     | 11   | 13   | 13   | 26   | 245  | 32   | 23   | 30   | 13   | 13   | 39   | 16   |
| 6     | 13   | 12   | 13   | 24   | 146  | 29   | 22   | 28   | 12   | 13   | 17   | 14   |
| 7     | 14   | 12   | 13   | 27   | 112  | 28   | 22   | 24   | 12   | 12   | 16   | 13   |
| 8     | 15   | 13   | 13   | 27   | 98   | 27   | 21   | 22   | 11   | 12   | 25   | 12   |
| 9     | 15   | 13   | 15   | 25   | 85   | 31   | 21   | 22   | 11   | 12   | 22   | 12   |
| 10    | 15   | 14   | 14   | 23   | 75   | 44   | 21   | 35   | 11   | 12   | 19   | 12   |
| 11    | 15   | 13   | 13   | 23   | 67   | 41   | 32   | 32   | 11   | 12   | 15   | 13   |
| 12    | 14   | 13   | 14   | 24   | 63   | 37   | 189  | 28   | 11   | 19   | 15   | 12   |
| 13    | 13   | 13   | 11   | 46   | 58   | 43   | 83   | 25   | 11   | 13   | 14   | 14   |
| 14    | 13   | 14   | 12   | 53   | 54   | 40   | 57   | 23   | 11   | 13   | 13   | 12   |
| 15    | 13   | 14   | 33   | 43   | 60   | 35   | 45   | 20   | 11   | 12   | 13   | 12   |
| 16    | 13   | 13   | 20   | 39   | 58   | 32   | 39   | 19   | 11   | 12   | 12   | 12   |
| 17    | 13   | 31   | 18   | 221  | 52   | 31   | 34   | 22   | 10   | 12   | 12   | 15   |
| 18    | 13   | 15   | 17   | 233  | 50   | 32   | 46   | 21   | 10   | 12   | 11   | 14   |
| 19    | 14   | 13   | 18   | 148  | 51   | 32   | 93   | 18   | 12   | 12   | 10   | 13   |
| 20    | 13   | 13   | 18   | 1020 | 49   | 29   | 72   | 17   | 12   | 12   | 14   | 13   |
| 21    | 13   | 13   | 19   | 258  | 45   | 28   | 55   | 18   | 11   | 12   | 16   | 12   |
| 22    | 12   | 13   | 20   | 146  | 42   | 27   | 46   | 18   | 13   | 17   | 13   | 12   |
| 23    | 13   | 13   | 19   | 103  | 41   | 26   | 41   | 18   | 12   | 44   | 15   | 12   |
| 24    | 14   | 13   | 23   | 84   | 39   | 24   | 39   | 27   | 10   | 15   | 17   | 11   |
| 25    | 15   | 13   | 22   | 81   | 37   | 28   | 41   | 41   | 11   | 12   | 14   | 12   |
| 26    | 15   | 13   | 22   | 68   | 36   | 30   | 58   | 39   | 12   | 12   | 14   | 11   |
| 27    | 18   | 12   | 26   | 58   | 36   | 26   | 43   | 36   | 13   | 12   | 14   | 11   |
| 28    | 16   | 13   | 126  | 53   | 33   | 25   | 36   | 31   | 12   | 12   | 13   | 11   |
| 29    | 16   | 13   | 46   | 50   | 32   | 26   | 32   | 26   | 12   | 12   | 13   | 11   |
| 30    | 16   | 13   | 32   | 47   | ---  | 25   | 31   | 22   | 12   | 12   | 12   | 11   |
| 31    | 15   | ---  | 27   | 46   | ---  | 24   | ---  | 19   | ---  | 12   | 12   | ---  |
| TOTAL | 434  | 416  | 688  | 3106 | 2793 | 959  | 1338 | 795  | 359  | 425  | 465  | 373  |
| MEAN  | 14.0 | 13.9 | 22.2 | 100  | 96.3 | 30.9 | 44.6 | 25.6 | 12.0 | 13.7 | 15.0 | 12.4 |
| MAX   | 18   | 31   | 126  | 1020 | 436  | 44   | 189  | 41   | 16   | 44   | 39   | 17   |
| MIN   | 11   | 12   | 11   | 23   | 32   | 24   | 21   | 17   | 10   | 12   | 10   | 11   |
| CFSM  | .21  | .21  | .33  | 1.50 | 1.44 | .46  | .67  | .38  | .18  | .21  | .22  | .19  |
| IN.   | .24  | .23  | .38  | 1.73 | 1.55 | .53  | .74  | .44  | .20  | .24  | .26  | .21  |

|             |       |       |           |          |        |          |          |
|-------------|-------|-------|-----------|----------|--------|----------|----------|
| CAL YR 1987 | TOTAL | 22012 | MEAN 60.3 | MAX 1650 | MIN 11 | CFSM .90 | IN 12.24 |
| WTR YR 1988 | TOTAL | 12151 | MEAN 33.2 | MAX 1020 | MIN 10 | CFSM .50 | IN 6.76  |

## MOBILE RIVER BASIN

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

LOCATION.--Lat 34°03'38", Long 85°18'41", Polk County, Hydrologic Unit 03150105, at bridge on Cave Springs Road, 4.5 mi upstream from Lake Creek, and 4.5 mi northwest of Cedartown.

DRAINAGE AREA.--115 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT 28... | 1130 | 34                                              | 280                                               | 287                                                      | 7.50                           | 7.40                                  | 12.0                                 | 17.5                               | 5.3                                 | 50                                                             |
| NOV 24... | 1125 | 27                                              | 282                                               | 284                                                      | 7.70                           | 7.80                                  | 11.0                                 | 22.5                               | 6.9                                 | 63                                                             |
| DEC 29... | 1120 | 77                                              | 198                                               | 187                                                      | 7.40                           | 7.50                                  | 11.0                                 | 7.0                                | 7.1                                 | 65                                                             |
| JAN 26... | 1115 | 113                                             | 220                                               | 217                                                      | 7.70                           | 7.60                                  | 8.0                                  | 5.0                                | 9.8                                 | 84                                                             |
| FEB 24... | 1300 | 57                                              | 269                                               | 260                                                      | 8.00                           | 8.30                                  | 11.5                                 | 13.5                               | 11.4                                | 106                                                            |
| MAR 30... | 1350 | 59                                              | 269                                               | 231                                                      | 8.00                           | 8.10                                  | 18.0                                 | 25.0                               | 11.0                                | 118                                                            |
| APR 27... | 1220 | 75                                              | 242                                               | 242                                                      | 7.90                           | 7.90                                  | 17.5                                 | 24.5                               | 10.0                                | 107                                                            |
| MAY 24... | 1000 | 39                                              | 280                                               | 289                                                      | 7.60                           | 7.50                                  | 18.5                                 | 21.0                               | 4.4                                 | 48                                                             |
| JUN 29... | 1400 | 27                                              | 292                                               | 294                                                      | 8.00                           | 8.00                                  | 24.0                                 | 31.5                               | 8.1                                 | 99                                                             |
| JUL 27... | 1345 | 32                                              | 299                                               | 306                                                      | 7.80                           | 7.90                                  | 24.0                                 | 34.0                               | 7.1                                 | 86                                                             |
| AUG 24... | 1230 | 41                                              | 298                                               | 297                                                      | 7.60                           | 7.80                                  | 23.5                                 | 28.5                               | 5.0                                 | 60                                                             |
| SEP 28... | 1240 | 32                                              | 340                                               | 329                                                      | 7.70                           | 7.80                                  | 20.0                                 | 27.0                               | 5.7                                 | 64                                                             |

| DATE      | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT 28... | 2.0                          | 1.9                                                            | 330                                              | 120                                             | 0                                                                 | 129                                                             | 0.220                                                | 0.100                                                | 0.620                                       | --                                            |
| NOV 24... | 2.0                          | 1.2                                                            | 40                                               | 130                                             | 0                                                                 | 133                                                             | 0.570                                                | 0.270                                                | 0.360                                       | 5.0                                           |
| DEC 29... | 27                           | 1.8                                                            | 1300                                             | 93                                              | 43                                                                | 50                                                              | 0.540                                                | 0.100                                                | 0.310                                       | 7.3                                           |
| JAN 26... | 9.0                          | 2.3                                                            | 3300                                             | 100                                             | 5                                                                 | 95                                                              | 0.770                                                | 0.040                                                | 0.160                                       | 2.0                                           |
| FEB 24... | 4.0                          | 1.2                                                            | 330                                              | 130                                             | 4                                                                 | 126                                                             | 0.700                                                | 0.060                                                | 0.340                                       | 3.2                                           |
| MAR 30... | 2.0                          | 1.1                                                            | 1300                                             | 120                                             | 10                                                                | 110                                                             | 0.430                                                | 0.270                                                | 0.290                                       | 3.4                                           |
| APR 27... | 7.0                          | 0.8                                                            | 700                                              | 100                                             | 0                                                                 | 102                                                             | 0.670                                                | 0.090                                                | 0.210                                       | 3.0                                           |
| MAY 24... | 4.0                          | 1.2                                                            | 80                                               | 140                                             | 10                                                                | 130                                                             | 0.620                                                | 0.070                                                | 0.270                                       | 3.2                                           |
| JUN 29... | 5.0                          | 1.4                                                            | 20                                               | 110                                             | 0                                                                 | 136                                                             | 0.240                                                | 0.020                                                | 0.920                                       | 3.4                                           |
| JUL 27... | 4.0                          | 1.2                                                            | 330                                              | 130                                             | 0                                                                 | 132                                                             | 0.380                                                | <0.020                                               | 0.500                                       | 2.9                                           |
| AUG 24... | 2.0                          | 0.9                                                            | 270                                              | 120                                             | 0                                                                 | 136                                                             | 0.440                                                | 0.060                                                | 0.240                                       | 4.2                                           |
| SEP 28... | 3.0                          | 1.1                                                            | 40                                               | 160                                             | 16                                                                | 144                                                             | 0.610                                                | 0.080                                                | 0.440                                       | 3.4                                           |

## MOBILE RIVER BASIN

355

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 mi<sup>2</sup>, 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, 265 microsiemens Dec. 3, 1987; 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, 265 microsiemens Dec. 3; minimum, 82 microsiemens Jan. 21.

pH: Maximum recorded, 9.25 units May 15; minimum recorded, 6.76 units Jan. 21.

WATER TEMPERATURE: Maximum recorded, 36.0°C Aug. 18; minimum, 5.5°C Jan. 29.

DISSOLVED OXYGEN: Maximum recorded, 14.7 mg/L May 15; minimum recorded, 2.5 mg/L July 4.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1100 | 159                                               | 156                                                      | 7.40                           | 7.20                                  | 19.0                                 | 16.5                               | 7.3                                 | 80                                                             |
| NOV   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 0930 | 217                                               | 206                                                      | 7.30                           | 7.40                                  | 13.5                                 | 12.5                               | 6.9                                 | 66                                                             |
| DEC   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1630 | 214                                               | 201                                                      | 7.30                           | 7.50                                  | 12.5                                 | 4.0                                | 8.2                                 | 77                                                             |
| JAN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 1230 | 119                                               | 113                                                      | 7.30                           | 7.20                                  | 7.5                                  | 2.0                                | 11.2                                | 94                                                             |
| FEB   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1130 | 188                                               | 177                                                      | 7.60                           | 7.50                                  | 11.5                                 | 16.0                               | 9.8                                 | 91                                                             |
| MAR   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 30... | 0900 | 200                                               | 191                                                      | 7.40                           | 7.70                                  | 20.0                                 | 17.5                               | 7.5                                 | 83                                                             |
| MAY   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1100 | 178                                               | 175                                                      | 7.50                           | 7.40                                  | 21.5                                 | 28.0                               | 7.0                                 | 81                                                             |
| 24... | 0730 | 209                                               | 204                                                      | 7.40                           | 7.40                                  | 27.0                                 | 20.0                               | 6.0                                 | 77                                                             |
| JUN   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1315 | 186                                               | 172                                                      | 7.90                           | 8.10                                  | 32.5                                 | 32.0                               | 8.4                                 | 118                                                            |
| JUL   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 1200 | 200                                               | 190                                                      | 7.60                           | 7.40                                  | 30.5                                 | 28.0                               | 6.7                                 | 91                                                             |
| AUG   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1130 | 181                                               | 180                                                      | 7.40                           | 7.50                                  | 32.0                                 | 23.5                               | 4.6                                 | 64                                                             |
| SEP   |      |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1000 | 204                                               | --                                                       | 7.40                           | --                                    | 27.5                                 | 20.0                               | 5.3                                 | 68                                                             |



## MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
| OCT   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 27... | 7.0                          | 11                                                             | 1.8                                                            | <20                                              | 48                                              | 5                                                                 | 43                                                              | 1                                                                |
| NOV   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 24... | 10                           | 15                                                             | 1.6                                                            | 80                                               | 60                                              | 0                                                                 | 65                                                              | 12                                                               |
| DEC   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 29... | 15                           | 23                                                             | 3.0                                                            | 1300                                             | 66                                              | 6                                                                 | 60                                                              | 48                                                               |
| JAN   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 26... | 24                           | 8                                                              | 2.0                                                            | 1300                                             | 36                                              | 1                                                                 | 35                                                              | 26                                                               |
| FEB   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 23... | 13                           | 18                                                             | 0.8                                                            | 130                                              | 63                                              | 3                                                                 | 60                                                              | 1                                                                |
| MAR   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 30... | 5.0                          | 6                                                              | 1.0                                                            | 50                                               | 78                                              | 10                                                                | 68                                                              | 5                                                                |
| MAY   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 04... | 7.0                          | 17                                                             | 2.2                                                            | --                                               | 60                                              | 3                                                                 | 57                                                              | 7                                                                |
| 24... | --                           | 14                                                             | 1.3                                                            | <20                                              | 75                                              | 6                                                                 | 69                                                              | 8                                                                |
| JUN   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 28... | 8.0                          | 33                                                             | 0.9                                                            | <20                                              | 78                                              | 18                                                                | 60                                                              | 13                                                               |
| JUL   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 26... | 6.0                          | 16                                                             | 1.9                                                            | <20                                              | 51                                              | 0                                                                 | 59                                                              | 5                                                                |
| AUG   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 23... | 8.0                          | 15                                                             | 1.9                                                            | 20                                               | 57                                              | 0                                                                 | 58                                                              | 7                                                                |
| SEP   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                  |
| 27... | --                           | 7                                                              | --                                                             | 50                                               | --                                              | --                                                                | --                                                              | --                                                               |

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | 0.200                                                | 0.090                                                | 0.81                                                 | 0.90                                                               | 1.1                                       | 0.200                                       | 5.1                                           |
| NOV   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 24... | 0.420                                                | 0.230                                                | 0.37                                                 | 0.60                                                               | 1.0                                       | 0.430                                       | 6.9                                           |
| DEC   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 29... | 0.500                                                | 0.090                                                | 0.51                                                 | 0.60                                                               | 1.1                                       | 0.450                                       | 4.6                                           |
| JAN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 26... | 0.550                                                | 0.100                                                | 0.60                                                 | 0.70                                                               | 1.2                                       | 0.190                                       | 3.6                                           |
| FEB   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 23... | 0.510                                                | 0.130                                                | 0.37                                                 | 0.50                                                               | 1.0                                       | 0.310                                       | 5.0                                           |
| MAR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 30... | 0.420                                                | 0.160                                                | 0.44                                                 | 0.60                                                               | 1.0                                       | 0.330                                       | 2.0                                           |
| MAY   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 04... | 0.420                                                | 0.080                                                | 0.52                                                 | 0.60                                                               | 1.0                                       | 0.270                                       | 4.7                                           |
| 24... | 0.360                                                | 0.180                                                | 0.42                                                 | 0.60                                                               | 0.96                                      | 0.200                                       | 3.3                                           |
| JUN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 28... | 0.200                                                | 0.030                                                | 0.87                                                 | 0.90                                                               | 1.1                                       | 0.240                                       | 5.0                                           |
| JUL   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 26... | 0.210                                                | 0.090                                                | 0.51                                                 | 0.60                                                               | 0.81                                      | 0.240                                       | 4.1                                           |
| AUG   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 23... | 0.210                                                | 0.120                                                | 0.58                                                 | 0.70                                                               | 0.91                                      | 0.360                                       | 6.2                                           |
| SEP   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | 0.460                                                | 0.040                                                | --                                                   | --                                                                 | --                                        | 0.210                                       | 4.4                                           |

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
| 1     | 208     | 200 | 196      | 181 | 234      | 216 | 201     | 195 | 147      | 127 | 212       | 203 |
| 2     | 209     | 194 | 188      | 172 | 243      | 225 | 228     | 200 | 193      | 138 | 212       | 203 |
| 3     | 212     | 188 | 200      | 176 | 265      | 239 | 217     | 193 | 200      | 177 | 209       | 191 |
| 4     | 212     | 195 | 222      | 196 | 242      | 212 | 212     | 200 | 171      | 144 | 203       | 194 |
| 5     | 203     | 174 | 231      | 216 | 229      | 208 | 222     | 212 | 158      | 134 | 201       | 162 |
| 6     | 190     | 173 | 236      | 181 | 228      | 206 | 223     | 205 | 142      | 129 | 201       | 172 |
| 7     | 218     | 186 | 193      | 133 | 219      | 202 | 221     | 208 | 136      | 126 | 203       | 172 |
| 8     | 221     | 210 | 145      | 123 | 221      | 203 | 223     | 203 | 145      | 134 | 208       | 191 |
| 9     | 219     | 202 | 155      | 118 | 242      | 214 | 207     | 195 | 165      | 146 | 220       | 192 |
| 10    | 226     | 197 | 176      | 155 | 243      | 222 | 198     | 188 | 173      | 150 | 214       | 191 |
| 11    | 224     | 176 | 222      | 150 | 226      | 210 | 206     | 192 | 160      | 138 | 192       | 168 |
| 12    | 193     | 179 | 248      | 212 | 227      | 203 | 210     | 189 | 156      | 135 | 181       | 167 |
| 13    | 194     | 187 | 240      | 212 | 201      | 192 | 211     | 192 | 148      | 132 | 183       | 166 |
| 14    | 203     | 177 | 220      | 191 | 204      | 185 | 239     | 204 | 149      | 130 | 185       | 174 |
| 15    | 209     | 198 | 224      | 186 | 201      | 189 | 237     | 214 | 158      | 134 | 174       | 153 |
| 16    | 214     | 203 | 196      | 186 | 232      | 199 | 236     | 187 | 178      | 157 | 163       | 152 |
| 17    | 206     | 193 | 207      | 180 | 237      | 217 | 217     | 191 | 193      | 173 | 166       | 158 |
| 18    | 207     | 186 | 232      | 184 | 239      | 203 | 214     | 191 | 201      | 189 | 169       | 151 |
| 19    | 185     | 164 | 252      | 225 | 235      | 168 | 208     | 167 | 196      | 176 | 172       | 164 |
| 20    | 179     | 164 | 234      | 190 | 214      | 182 | 174     | 104 | 190      | 177 | 176       | 164 |
| 21    | 185     | 174 | 220      | 186 | 218      | 179 | 105     | 82  | 199      | 181 | 180       | 169 |
| 22    | 198     | 177 | 197      | 158 | 226      | 172 | 98      | 90  | 203      | 185 | 192       | 178 |
| 23    | 199     | 174 | 209      | 172 | 242      | 214 | 104     | 95  | 204      | 185 | 191       | 181 |
| 24    | 190     | 152 | 231      | 174 | 241      | 216 | 119     | 97  | 202      | 188 | 198       | 181 |
| 25    | 161     | 153 | 232      | 199 | ---      | --- | 128     | 112 | 200      | 183 | 206       | 190 |
| 26    | 161     | 150 | 226      | 218 | ---      | --- | 134     | 113 | 204      | 197 | 201       | 177 |
| 27    | 174     | 148 | 232      | 223 | ---      | --- | 135     | 102 | 202      | 192 | 195       | 169 |
| 28    | 194     | 178 | 224      | 214 | ---      | --- | 143     | 103 | 199      | 191 | 196       | 175 |
| 29    | 203     | 187 | 220      | 210 | ---      | --- | 137     | 105 | 206      | 191 | 200       | 179 |
| 30    | 227     | 200 | 231      | 209 | 208      | 200 | 148     | 119 | ---      | --- | 207       | 195 |
| 31    | 231     | 171 | ---      | --- | 202      | 189 | 145     | 120 | ---      | --- | 209       | 191 |
| MONTH | 231     | 148 | 252      | 118 | 265      | 168 | 239     | 82  | 206      | 126 | 220       | 151 |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| 1     | 217     | 193 | 172      | 164 | 228      | 220 | 218     | 204 | 211      | 201 | 216       | 204 |
| 2     | 218     | 175 | 178      | 165 | 237      | 223 | 217     | 205 | 207      | 187 | 215       | 191 |
| 3     | 200     | 176 | 180      | 173 | 238      | 230 | 222     | 203 | ---      | --- | 202       | 184 |
| 4     | 199     | 184 | 185      | 175 | 237      | 230 | 227     | 219 | ---      | --- | 208       | 185 |
| 5     | 205     | 183 | 190      | 181 | 235      | 222 | ---     | --- | ---      | --- | 202       | 174 |

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-----------|------|
|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
| 1     | 7.36    | 7.27 | 7.36     | 7.21 | 7.37     | 7.29 | 7.36    | 7.25 | 7.52     | 7.43 | 7.67      | 7.52 |
| 2     | 7.58    | 7.26 | 7.38     | 7.25 | 7.40     | 7.28 | 7.33    | 7.26 | 7.53     | 7.41 | 7.67      | 7.52 |
| 3     | 7.42    | 7.33 | 7.51     | 7.25 | 7.43     | 7.32 | 7.36    | 7.28 | 7.56     | 7.45 | 7.67      | 7.58 |
| 4     | 7.51    | 7.40 | 7.54     | 7.36 | 7.47     | 7.37 | 7.38    | 7.28 | 7.40     | 7.26 | 7.77      | 7.61 |
| 5     | 8.12    | 7.45 | 7.42     | 7.25 | 7.54     | 7.44 | 7.39    | 7.30 | 7.31     | 7.18 | 7.67      | 7.53 |
| 6     | 7.64    | 7.35 | 7.49     | 7.23 | 7.56     | 7.45 | 7.39    | 7.30 | 7.23     | 7.18 | 7.61      | 7.48 |
| 7     | 7.44    | 7.32 | 7.46     | 7.35 | 7.52     | 7.45 | 7.46    | 7.31 | 7.26     | 7.13 | 7.59      | 7.47 |
| 8     | 7.39    | 7.29 | 7.37     | 7.29 | 7.59     | 7.48 | 7.46    | 7.38 | 7.35     | 7.23 | 7.49      | 7.37 |
| 9     | 7.54    | 7.33 | 7.46     | 7.27 | 7.52     | 7.45 | 7.44    | 7.35 | 7.38     | 7.28 | 7.53      | 7.40 |
| 10    | 7.60    | 7.41 | 7.41     | 7.22 | 7.52     | 7.41 | 7.44    | 7.35 | 7.49     | 7.35 | 7.70      | 7.45 |
| 11    | 7.69    | 7.41 | 7.42     | 7.26 | 7.60     | 7.43 | 7.42    | 7.36 | 7.40     | 7.35 | 7.51      | 7.41 |
| 12    | 7.40    | 7.27 | 7.34     | 7.26 | 7.60     | 7.51 | 7.42    | 7.35 | 7.41     | 7.34 | 7.46      | 7.39 |
| 13    | 7.38    | 7.23 | 7.37     | 7.27 | 7.54     | 7.43 | 7.43    | 7.36 | 7.44     | 7.35 | 7.48      | 7.38 |
| 14    | 7.55    | 7.32 | 7.45     | 7.33 | 7.48     | 7.42 | 7.40    | 7.33 | 7.44     | 7.36 | 7.48      | 7.40 |
| 15    | 7.49    | 7.33 | 7.47     | 7.39 | 7.53     | 7.40 | 7.49    | 7.33 | 7.44     | 7.37 | 7.48      | 7.38 |
| 16    | 7.45    | 7.33 | 7.45     | 7.38 | 7.50     | 7.39 | 7.51    | 7.40 | 7.52     | 7.40 | 7.57      | 7.42 |
| 17    | 7.57    | 7.39 | 7.50     | 7.41 | 7.48     | 7.36 | 7.51    | 7.40 | 7.54     | 7.46 | 7.60      | 7.48 |
| 18    | 7.67    | 7.48 | 7.46     | 7.40 | 7.59     | 7.38 | 7.52    | 7.40 | 7.65     | 7.48 | 7.61      | 7.49 |
| 19    | 7.49    | 7.37 | 7.44     | 7.31 | 7.57     | 7.43 | 7.46    | 7.36 | 7.60     | 7.52 | 7.61      | 7.51 |
| 20    | 7.45    | 7.35 | 7.44     | 7.30 | 7.55     | 7.43 | 7.35    | 6.91 | 7.63     | 7.52 | 7.61      | 7.50 |
| 21    | 7.40    | 7.33 | 7.46     | 7.32 | 7.51     | 7.33 | 6.88    | 6.76 | 7.61     | 7.52 | 7.63      | 7.51 |
| 22    | 7.46    | 7.30 | 7.40     | 7.33 | 7.49     | 7.30 | 7.01    | 6.82 | 7.62     | 7.54 | 7.71      | 7.49 |
| 23    | 7.55    | 7.29 | 7.39     | 7.29 | 7.38     | 7.27 | 7.13    | 6.94 | 7.65     | 7.49 | 7.66      | 7.49 |
| 24    | 7.49    | 7.33 | 7.36     | 7.25 | 7.32     | 7.26 | 7.22    | 7.02 | 7.58     | 7.50 | 7.68      | 7.54 |
| 25    | 7.41    | 7.31 | 7.37     | 7.25 | ---      | ---  | 7.32    | 7.17 | 7.59     | 7.53 | 7.75      | 7.52 |
| 26    | 7.41    | 7.32 | 7.37     | 7.28 | ---      | ---  | 7.46    | 7.30 | 7.65     | 7.57 | 7.64      | 7.48 |
| 27    | 7.40    | 7.31 | 7.41     | 7.31 | ---      | ---  | 7.48    | 7.31 | 7.70     | 7.57 | 7.55      | 7.43 |
| 28    | 7.34    | 7.24 | 7.48     | 7.37 | ---      | ---  | 7.50    | 7.32 | 7.73     | 7.52 | 7.53      | 7.40 |
| 29    | 7.31    | 7.21 | 7.44     | 7.36 | ---      | ---  | 7.51    | 7.35 | 7.66     | 7.52 | 7.47      | 7.38 |
| 30    | 7.46    | 7.22 | 7.41     | 7.30 | 7.39     | 7.26 | 7.52    | 7.44 | ---      | ---  | 7.53      | 7.39 |
| 31    | 7.41    | 7.26 | ---      | ---  | 7.39     | 7.32 | 7.53    | 7.46 | ---      | ---  | 7.54      | 7.44 |
| MONTH | 8.12    | 7.21 | 7.54     | 7.21 | 7.60     | 7.26 | 7.53    | 6.76 | 7.73     | 7.13 | 7.77      | 7.37 |
|       | APRIL   |      | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
| 1     | 7.61    | 7.44 | 7.70     | 7.36 | 8.53     | 7.57 | 7.51    | 7.29 | 8.55     | 7.39 | 7.47      | 7.29 |
| 2     | 7.54    | 7.37 | 8.05     | 7.36 | 8.74     | 7.52 | 7.36    | 7.27 | ---      | ---  | 7.44      | 7.32 |
| 3     | 7.46    | 7.33 | 8.15     | 7.37 | 7.83     | 7.54 | 7.33    | 7.26 | ---      | ---  | 7.46      | 7.34 |
| 4     | 7.44    | 7.32 | 7.71     | 7.40 | 7.99     | 7.50 | 7.36    | 7.26 | ---      | ---  | 7.48      | 7.39 |
| 5     | 7.42    | 7.29 | 7.58     | 7.40 | 7.95     | 7.46 | ---     | ---  | ---      | ---  | 7.77      | 7.43 |
| 6     | 7.49    | 7.33 | 7.55     | 7.42 | 8.19     | 7.47 | 7.72    | 7.28 | ---      | ---  | 7.47      | 7.35 |
| 7     | 7.59    | 7.44 | 8.00     | 7.44 | 8.77     | 7.59 | 8.23    | 7.39 | ---      | ---  | 7.39      | 7.29 |
| 8     | 8.01    | 7.43 | 7.99     | 7.48 | 9.21     | 7.65 | 8.15    | 7.35 | ---      | ---  | 7.50      | 7.31 |
| 9     | 7.80    | 7.48 | 7.95     | 7.47 | 8.11     | 7.53 | 8.20    | 7.36 | ---      | ---  | 7.86      | 7.33 |
| 10    | 7.69    | 7.49 | 7.77     | 7.48 | 7.72     | 7.50 | 8.42    | 7.33 | ---      | ---  | 7.48      | 7.40 |
| 11    | 7.55    | 7.44 | 7.83     | 7.49 | 8.01     | 7.55 | 8.68    | 7.65 | ---      | ---  | 7.68      | 7.42 |
| 12    | 7.55    | 7.44 | 8.81     | 7.55 | 8.11     | 7.53 | 8.27    | 7.60 | 7.96     | 7.46 | 7.62      | 7.39 |
| 13    | 7.46    | 7.25 | 8.05     | 7.55 | 8.09     | 7.61 | 8.10    | 7.65 | 8.07     | 7.40 | 8.21      | 7.44 |
| 14    | 7.32    | 7.21 | 8.90     | 7.50 | 8.74     | 7.59 | 8.07    | 7.51 | 8.38     | 7.55 | 7.58      | 7.44 |
| 15    | 7.30    | 7.21 | 9.25     | 7.79 | 8.66     | 7.69 | 8.70    | 7.45 | 8.29     | 7.52 | 7.72      | 7.46 |
| 16    | 7.32    | 7.23 | 9.01     | 7.91 | ---      | ---  | ---     | ---  | 8.80     | 7.54 | 7.57      | 7.47 |
| 17    | 7.38    | 7.25 | 8.55     | 7.68 | ---      | ---  | ---     | ---  | 8.52     | 7.74 | 7.53      | 7.41 |
| 18    | 7.40    | 7.27 | 8.26     | 7.49 | ---      | ---  | ---     | ---  | 8.39     | 7.58 | 7.52      | 7.41 |
| 19    | 7.43    | 7.31 | 8.51     | 7.46 | 8.83     | 7.59 | ---     | ---  | 8.51     | 7.50 | 7.64      | 7.42 |
| 20    | 7.42    | 7.33 | 9.06     | 7.60 | 8.75     | 7.59 | 7.96    | 7.55 | ---      | ---  | 7.98      | 7.48 |
| 21    | 7.38    | 7.31 | ---      | ---  | ---      | ---  | ---     | ---  | ---      | ---  | 7.78      | 7.39 |
| 22    | 7.38    | 7.29 | ---      | ---  | ---      | ---  | ---     | ---  | ---      | ---  | 7.69      | 7.32 |
| 23    | 7.40    | 7.28 | ---      | ---  | 8.47     | 7.57 | ---     | ---  | 7.64     | 7.42 | 7.61      | 7.35 |
| 24    | 7.41    | 7.26 | 7.59     | 7.41 | 9.03     | 7.72 | ---     | ---  | 7.52     | 7.39 | 7.86      | 7.44 |
| 25    | 7.40    | 7.29 | 7.53     | 7.36 | 9.03     | 7.74 | ---     | ---  | 8.34     | 7.38 | ---       | ---  |
| 26    | 7.47    | 7.27 | 7.85     | 7.38 | 8.84     | 7.68 | 8.75    | 7.62 | 8.04     | 7.38 | ---       | ---  |
| 27    | 7.40    | 7.26 | 8.41     | 7.43 | 7.90     | 7.60 | 8.83    | 7.57 | 7.94     | 7.34 | 7.58      | 7.47 |
| 28    | 7.37    | 7.30 | 8.20     | 7.44 | 8.38     | 7.58 | 8.59    | 7.49 | 7.78     | 7.34 | 7.60      | 7.43 |
| 29    | 7.48    | 7.32 | 8.59     | 7.50 | 7.99     | 7.41 | 8.92    | 7.60 | 7.73     | 7.37 | 7.54      | 7.39 |
| 30    | 7.61    | 7.38 | 8.74     | 7.52 | 7.52     | 7.30 | 8.55    | 7.47 | 7.42     | 7.27 | 7.52      | 7.39 |
| 31    | ---     | ---  | 8.70     | 7.61 | ---      | ---  | 8.20    | 7.42 | 7.43     | 7.30 | ---       | ---  |
| MONTH | 8.01    | 7.21 | 9.25     | 7.36 | 9.21     | 7.30 | 8.92    | 7.26 | 8.80     | 7.27 | 8.21      | 7.29 |
| YEAR  | 9.25    | 6.76 |          |      |          |      |         |      |          |      |           |      |

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     |      | MIN      |      | MAX      |      | MIN     |      | MAX      |      | MIN       |      | MAX |  | MIN |  |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-----------|------|-----|--|-----|--|
|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |     |  |     |  |
| 1     | 27.5    | 26.5 | 22.0     | 19.5 | 16.5     | 15.5 | 13.0    | 11.5 | 10.0     | 8.5  | 15.0      | 13.0 |     |  |     |  |
| 2     | 27.0    | 26.0 | 20.5     | 19.5 | 17.5     | 16.0 | 12.5    | 11.0 | 12.5     | 9.5  | 16.5      | 13.0 |     |  |     |  |
| 3     | 25.5    | 24.5 | 19.5     | 18.0 | 18.0     | 16.5 | 12.0    | 11.0 | 14.0     | 11.5 | 15.5      | 13.0 |     |  |     |  |
| 4     | 25.0    | 24.0 | 20.5     | 18.0 | 16.5     | 14.0 | 12.0    | 11.0 | 13.5     | 11.5 | 15.5      | 14.0 |     |  |     |  |
| 5     | 25.5    | 24.0 | 19.5     | 18.0 | 15.5     | 13.5 | 12.5    | 11.0 | 12.5     | 11.0 | 16.0      | 14.0 |     |  |     |  |
| 6     | 24.5    | 23.0 | 18.5     | 17.5 | 14.5     | 12.5 | 12.0    | 10.0 | 11.0     | 9.5  | 16.0      | 13.5 |     |  |     |  |
| 7     | 23.5    | 22.5 | 19.0     | 17.5 | 13.5     | 12.5 | 10.5    | 8.5  | 9.5      | 8.5  | 17.0      | 15.0 |     |  |     |  |
| 8     | 24.0    | 23.0 | 19.0     | 17.5 | 13.5     | 12.0 | 9.0     | 8.0  | 9.0      | 8.0  | 17.0      | 16.0 |     |  |     |  |
| 9     | 23.5    | 21.5 | 18.5     | 17.5 | 16.0     | 13.5 | 8.5     | 7.0  | 8.5      | 7.5  | 17.5      | 14.5 |     |  |     |  |
| 10    | 23.0    | 21.0 | 18.5     | 17.0 | 16.0     | 13.5 | 7.5     | 6.5  | 8.5      | 7.5  | 16.5      | 14.5 |     |  |     |  |
| 11    | 23.5    | 21.0 | 16.5     | 16.0 | 14.5     | 13.5 | 7.5     | 6.0  | 8.5      | 7.0  | 15.0      | 14.0 |     |  |     |  |
| 12    | 22.0    | 21.0 | 17.5     | 15.5 | 15.0     | 14.0 | 7.0     | 6.5  | 8.5      | 7.5  | 14.5      | 13.5 |     |  |     |  |
| 13    | 23.0    | 21.0 | 16.5     | 14.5 | 16.0     | 14.0 | 8.0     | 7.0  | 8.5      | 7.0  | 14.0      | 13.0 |     |  |     |  |
| 14    | 22.0    | 20.0 | 17.0     | 14.5 | 16.0     | 15.0 | 8.5     | 7.0  | 9.0      | 7.5  | 13.5      | 12.5 |     |  |     |  |
| 15    | 23.0    | 21.0 | 15.5     | 14.5 | 16.0     | 15.0 | 8.5     | 7.0  | 9.0      | 8.5  | 13.5      | 12.0 |     |  |     |  |
| 16    | 23.0    | 21.0 | 15.5     | 14.5 | 16.0     | 15.0 | 8.5     | 7.0  | 10.0     | 9.0  | 13.0      | 12.0 |     |  |     |  |
| 17    | 22.5    | 21.0 | 15.5     | 14.0 | 16.0     | 13.5 | 7.5     | 6.5  | 10.0     | 9.0  | 13.5      | 12.0 |     |  |     |  |
| 18    | 23.5    | 21.0 | 15.0     | 14.0 | 15.0     | 12.5 | 8.5     | 6.5  | 11.0     | 9.5  | 12.5      | 12.0 |     |  |     |  |
| 19    | 22.0    | 20.5 | 15.5     | 14.0 | 14.5     | 12.5 | 8.5     | 7.0  | 11.0     | 9.5  | 12.5      | 11.5 |     |  |     |  |
| 20    | 21.0    | 20.5 | 15.0     | 14.0 | 14.5     | 13.5 | 10.5    | 8.0  | 11.0     | 9.5  | 14.0      | 12.0 |     |  |     |  |
| 21    | 21.5    | 20.5 | 15.0     | 14.0 | 14.0     | 13.0 | 10.5    | 10.0 | 9.5      | 8.5  | 15.0      | 12.5 |     |  |     |  |
| 22    | 21.0    | 20.5 | 15.5     | 13.5 | 13.0     | 11.5 | 10.0    | 8.5  | 12.0     | 8.5  | 15.0      | 12.0 |     |  |     |  |
| 23    | 21.5    | 20.0 | 15.5     | 13.5 | 14.5     | 12.5 | 9.5     | 8.0  | 12.0     | 11.0 | 17.0      | 13.0 |     |  |     |  |
| 24    | 21.5    | 20.5 | 15.0     | 13.0 | 14.5     | 13.5 | 8.5     | 8.0  | 12.5     | 11.0 | 18.0      | 14.5 |     |  |     |  |
| 25    | 22.0    | 20.5 | 17.0     | 14.5 | ---      | ---  | 8.5     | 7.5  | 11.5     | 10.5 | 16.5      | 16.0 |     |  |     |  |
| 26    | 21.0    | 20.0 | 17.5     | 16.0 | ---      | ---  | 8.0     | 7.5  | 13.0     | 10.5 | 19.0      | 15.5 |     |  |     |  |
| 27    | 20.0    | 19.0 | 16.5     | 14.5 | ---      | ---  | 7.5     | 6.5  | 14.0     | 12.0 | 19.0      | 17.0 |     |  |     |  |
| 28    | 21.0    | 19.0 | 16.0     | 15.0 | ---      | ---  | 7.0     | 6.0  | 15.0     | 12.5 | 20.0      | 18.0 |     |  |     |  |
| 29    | 21.0    | 19.5 | 16.5     | 15.5 | ---      | ---  | 7.0     | 5.5  | 14.5     | 12.5 | 20.5      | 18.5 |     |  |     |  |
| 30    | 20.0    | 19.0 | 16.5     | 16.0 | 13.0     | 12.5 | 7.5     | 6.0  | ---      | ---  | 21.0      | 19.5 |     |  |     |  |
| 31    | 21.5    | 19.0 | ---      | ---  | 13.0     | 11.5 | 9.0     | 7.0  | ---      | ---  | 21.0      | 19.0 |     |  |     |  |
| MONTH | 27.5    | 19.0 | 22.0     | 13.0 | 18.0     | 11.5 | 13.0    | 5.5  | 15.0     | 7.0  | 21.0      | 11.5 |     |  |     |  |
|       | APRIL   |      | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |     |  |     |  |
| 1     | 20.0    | 19.0 | 23.5     | 21.0 | 30.5     | 28.5 | 33.5    | 32.0 | 35.0     | 32.0 | 31.5      | 31.0 |     |  |     |  |
| 2     | 20.0    | 18.0 | 25.0     | 21.0 | 31.5     | 29.0 | 32.0    | 31.5 | 35.5     | 32.0 | 31.5      | 30.5 |     |  |     |  |
| 3     | 20.0    | 19.0 | 22.5     | 21.0 | 30.5     | 29.0 | 31.5    | 30.5 | ---      | ---  | 30.5      | 29.5 |     |  |     |  |
| 4     | 21.5    | 19.5 | 22.0     | 20.5 | 31.0     | 29.0 | 31.0    | 29.5 | ---      | ---  | 29.5      | 27.5 |     |  |     |  |
| 5     | 22.5    | 20.5 | 22.5     | 20.5 | 31.0     | 28.5 | ---     | ---  | ---      | ---  | 28.5      | 27.0 |     |  |     |  |
| 6     | 22.5    | 20.5 | 23.5     | 21.0 | 32.0     | 28.0 | 30.0    | 28.5 | ---      | ---  | 28.0      | 27.0 |     |  |     |  |
| 7     | 21.5    | 20.0 | 25.0     | 21.0 | 31.5     | 28.5 | 31.5    | 28.5 | ---      | ---  | 27.5      | 26.0 |     |  |     |  |
| 8     | 23.5    | 20.0 | 24.5     | 22.0 | 32.0     | 28.5 | 31.5    | 29.0 | ---      | ---  | 26.5      | 25.0 |     |  |     |  |
| 9     | 23.5    | 21.5 | 24.5     | 22.5 | 30.5     | 29.0 | 32.0    | 29.5 | ---      | ---  | 27.0      | 24.5 |     |  |     |  |
| 10    | 23.5    | 21.5 | 24.5     | 22.5 | 29.0     | 28.5 | 32.5    | 30.0 | ---      | ---  | 25.5      | 25.0 |     |  |     |  |
| 11    | 22.0    | 21.0 | 25.5     | 23.0 | 30.5     | 28.0 | 32.0    | 30.5 | ---      | ---  | 27.0      | 25.0 |     |  |     |  |
| 12    | 21.0    | 19.0 | 26.5     | 24.5 | 31.0     | 28.0 | 32.5    | 30.0 | 33.5     | 32.0 | 27.0      | 25.5 |     |  |     |  |
| 13    | 18.5    | 15.5 | 26.0     | 24.5 | 31.0     | 28.0 | 32.0    | 31.0 | 34.5     | 32.0 | 29.5      | 26.5 |     |  |     |  |
| 14    | 16.0    | 15.5 | 28.0     | 25.0 | 31.5     | 28.0 | 33.5    | 31.5 | 34.0     | 32.5 | 30.0      | 28.0 |     |  |     |  |
| 15    | 17.5    | 16.0 | 28.5     | 25.5 | 31.0     | 28.0 | 35.5    | 32.0 | 35.0     | 32.5 | 30.0      | 27.5 |     |  |     |  |
| 16    | 18.0    | 16.0 | 28.0     | 26.0 | ---      | ---  | 35.0    | 33.0 | 34.5     | 32.0 | 27.5      | 26.5 |     |  |     |  |
| 17    | 19.5    | 17.0 | 28.0     | 26.5 | ---      | ---  | ---     | ---  | 35.5     | 32.5 | 27.5      | 26.5 |     |  |     |  |
| 18    | 19.5    | 18.0 | 28.5     | 26.5 | ---      | ---  | ---     | ---  | 36.0     | 33.5 | 29.5      | 27.0 |     |  |     |  |
| 19    | 19.5    | 18.5 | 28.5     | 27.0 | 31.5     | 28.5 | ---     | ---  | 35.5     | 33.5 | 29.5      | 27.0 |     |  |     |  |
| 20    | 19.5    | 18.5 | 29.5     | 27.0 | 32.5     | 29.0 | 34.5    | 33.0 | ---      | ---  | 28.5      | 26.5 |     |  |     |  |
| 21    | 19.5    | 18.5 | ---      | ---  | ---      | ---  | 34.0    | 33.5 | ---      | ---  | 28.0      | 26.0 |     |  |     |  |
| 22    | 19.5    | 18.0 | ---      | ---  | ---      | ---  | ---     | ---  | ---      | ---  | 29.0      | 26.5 |     |  |     |  |
| 23    | 20.0    | 18.5 | ---      | ---  | 33.5     | 31.5 | ---     | ---  | 33.5     | 32.0 | 29.5      | 27.0 |     |  |     |  |
| 24    | 21.5    | 19.5 | 28.0     | 27.5 | 34.0     | 31.5 | ---     | ---  | 33.0     | 31.5 | 29.5      | 28.0 |     |  |     |  |
| 25    | 22.0    | 20.5 | 28.5     | 27.0 | 33.5     | 31.5 | ---     | ---  | 33.0     | 31.5 | ---       | ---  |     |  |     |  |
| 26    | 24.5    | 21.0 | 29.0     | 27.5 | 34.0     | 31.5 | 32.5    | 30.5 | 34.0     | 31.0 | ---       | ---  |     |  |     |  |
| 27    | 23.5    | 21.5 | 29.5     | 27.5 | 32.5     | 31.5 | 33.0    | 31.0 | 32.5     | 31.0 | 29.0      | 27.5 |     |  |     |  |
| 28    | 22.5    | 21.5 | 30.0     | 27.5 | 33.0     | 31.5 | 34.0    | 31.5 | 33.0     | 30.5 | 29.5      | 28.0 |     |  |     |  |
| 29    | 22.5    | 21.5 | 30.5     | 27.5 | 34.0     | 31.5 | 34.0    | 31.5 | 32.5     | 31.0 | 30.0      | 28.5 |     |  |     |  |
| 30    | 22.0    | 21.0 | 30.5     | 27.5 | 33.0     | 32.5 | 34.0    | 32.0 | 31.5     | 30.5 | 29.0      | 28.0 |     |  |     |  |
| 31    | ---     | ---  | 31.0     | 28.0 | ---      | ---  | 34.0    | 32.0 | 32.0     | 30.5 | ---       | ---  |     |  |     |  |
| MONTH | 24.5    | 15.5 | 31.0     | 20.5 | 34.0     | 28.0 | 35.5    | 28.5 | 36.0     | 30.5 | 31.5      | 24.5 |     |  |     |  |
| YEAR  | 36.0    | 5.5  |          |      |          |      |         |      |          |      |           |      |     |  |     |  |

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN  | MAX      | MIN  | MAX       | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|------|----------|------|-----------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |      | FEBRUARY |      | MARCH     |     |
| 1     | 5.6     | 5.1 | 8.7      | 7.4 | 6.9      | 6.6 | 8.7     | 8.4  | 11.6     | 11.3 | 10.2      | 9.4 |
| 2     | 7.8     | 5.0 | 8.7      | 7.5 | 6.6      | 6.1 | 8.8     | 8.4  | 11.2     | 10.1 | 10.0      | 9.5 |
| 3     | 6.3     | 5.3 | 9.3      | 7.2 | 6.4      | 5.7 | 9.3     | 8.6  | 10.0     | 9.2  | 9.9       | 9.4 |
| 4     | 6.9     | 5.9 | 9.5      | 8.3 | 7.4      | 6.1 | 9.5     | 9.1  | 9.6      | 9.1  | 10.0      | 9.4 |
| 5     | 9.5     | 6.6 | 8.3      | 6.8 | 8.0      | 7.4 | 9.4     | 8.7  | 9.5      | 8.8  | 9.8       | 9.1 |
| 6     | 7.9     | 6.0 | 8.8      | 6.4 | 8.3      | 7.7 | 9.7     | 9.3  | 9.8      | 9.1  | 9.6       | 8.8 |
| 7     | 6.4     | 5.4 | 8.8      | 8.1 | 8.5      | 7.8 | 10.1    | 9.6  | 10.2     | 9.5  | 9.7       | 8.5 |
| 8     | 6.0     | 5.4 | 8.7      | 8.2 | 8.6      | 7.7 | 10.4    | 10.0 | 10.8     | 9.9  | 8.6       | 7.7 |
| 9     | 8.0     | 6.0 | 9.0      | 7.5 | 8.3      | 7.5 | 10.8    | 10.4 | 10.8     | 10.4 | 8.6       | 7.7 |
| 10    | 8.5     | 6.7 | 7.6      | 6.9 | 8.2      | 7.4 | 11.1    | 10.8 | 11.3     | 10.7 | 9.0       | 8.2 |
| 11    | 9.5     | 7.2 | 7.6      | 6.3 | 9.4      | 8.2 | 11.4    | 11.1 | 11.3     | 10.8 | 8.8       | 8.4 |
| 12    | 7.8     | 6.8 | 6.1      | 5.5 | 9.3      | 8.8 | 11.5    | 11.2 | 11.0     | 10.8 | 8.7       | 8.3 |
| 13    | 7.0     | 5.5 | 7.0      | 5.9 | 9.2      | 8.7 | 11.5    | 11.2 | 11.1     | 10.8 | 8.8       | 8.4 |
| 14    | 8.4     | 6.1 | 7.6      | 6.9 | 8.8      | 8.3 | 11.2    | 10.6 | 11.0     | 10.7 | 8.6       | 8.3 |
| 15    | 7.9     | 6.3 | 8.1      | 7.2 | 8.7      | 7.9 | 11.4    | 11.0 | 10.9     | 10.6 | 8.7       | 8.4 |
| 16    | 7.5     | 6.3 | 8.2      | 7.8 | 8.0      | 7.7 | 11.4    | 11.1 | 10.6     | 10.2 | 9.3       | 8.6 |
| 17    | 8.3     | 7.0 | 8.5      | 8.0 | 7.9      | 7.5 | 11.4    | 11.1 | 10.3     | 9.9  | 9.5       | 9.0 |
| 18    | 9.0     | 7.6 | 8.4      | 7.8 | 8.8      | 7.5 | 11.3    | 10.9 | 10.2     | 9.6  | 9.7       | 9.4 |
| 19    | 8.3     | 7.3 | 7.8      | 6.7 | 9.3      | 7.8 | 11.2    | 10.7 | 10.3     | 9.9  | 9.7       | 9.5 |
| 20    | 8.2     | 7.5 | 7.9      | 7.1 | 9.7      | 8.5 | 10.6    | 7.3  | 10.4     | 10.0 | 9.8       | 9.6 |
| 21    | 7.8     | 6.9 | 8.0      | 7.6 | 9.4      | 8.6 | 8.4     | 7.7  | 10.4     | 10.2 | 9.7       | 9.3 |
| 22    | 7.8     | 6.4 | 8.2      | 7.5 | 9.6      | 8.5 | 9.2     | 8.3  | 10.2     | 9.8  | 9.9       | 9.4 |
| 23    | 8.1     | 6.1 | 7.9      | 7.1 | 8.7      | 8.1 | 9.5     | 8.9  | 9.9      | 9.5  | 9.7       | 9.1 |
| 24    | 8.0     | 6.8 | 7.6      | 6.8 | 8.2      | 7.5 | 9.8     | 9.0  | 9.6      | 9.4  | 9.4       | 8.9 |
| 25    | 7.5     | 6.9 | 8.1      | 7.3 | ---      | --- | 10.6    | 9.7  | 9.8      | 9.6  | 9.4       | 8.4 |
| 26    | 7.7     | 7.0 | 7.9      | 7.7 | ---      | --- | 11.4    | 10.7 | 9.9      | 9.4  | 8.9       | 8.4 |
| 27    | 7.5     | 6.9 | 8.1      | 7.4 | ---      | --- | 11.7    | 11.3 | 10.1     | 9.5  | 8.7       | 8.0 |
| 28    | 7.2     | 6.6 | 8.5      | 8.0 | ---      | --- | 11.9    | 11.4 | 10.6     | 9.5  | 8.7       | 7.9 |
| 29    | 7.6     | 6.3 | 8.2      | 7.8 | ---      | --- | 11.9    | 11.6 | 10.0     | 9.6  | 8.3       | 7.4 |
| 30    | 8.3     | 6.4 | 7.8      | 6.9 | 8.5      | 8.1 | 11.8    | 11.6 | ---      | ---  | 7.9       | 7.0 |
| 31    | 8.7     | 6.9 | ---      | --- | 8.8      | 8.5 | 11.7    | 11.5 | ---      | ---  | 7.8       | 7.1 |
| MONTH | 9.5     | 5.0 | 9.5      | 5.5 | 9.7      | 5.7 | 11.9    | 7.3  | 11.6     | 8.8  | 10.2      | 7.0 |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |      | AUGUST   |      | SEPTEMBER |     |
| 1     | 8.0     | 7.1 | 8.6      | 6.1 | 10.0     | 5.9 | 6.1     | 3.2  | 11.4     | 5.3  | 4.9       | 4.1 |
| 2     | 7.8     | 7.0 | 10.0     | 6.1 | 11.1     | 5.7 | 4.2     | 3.2  | ---      | ---  | 4.9       | 3.8 |
| 3     | 7.7     | 6.9 | 10.8     | 6.4 | 7.6      | 5.7 | 3.3     | 2.6  | ---      | ---  | 5.3       | 4.7 |
| 4     | 7.4     | 6.6 | 8.3      | 6.6 | 8.6      | 5.5 | 3.8     | 2.5  | ---      | ---  | 5.8       | 5.1 |
| 5     | 7.2     | 6.3 | 7.1      | 6.2 | 8.7      | 5.0 | ---     | ---  | ---      | ---  | 7.9       | 5.5 |
| 6     | 7.0     | 6.1 | 6.9      | 6.2 | 9.8      | 5.3 | 6.3     | 3.8  | ---      | ---  | 5.9       | 5.1 |
| 7     | 6.9     | 6.1 | 9.7      | 6.2 | 11.3     | 6.4 | 8.0     | 4.5  | ---      | ---  | 5.6       | 5.1 |
| 8     | 9.3     | 6.2 | 9.5      | 6.6 | 13.5     | 6.6 | 8.1     | 4.1  | ---      | ---  | 6.6       | 5.2 |
| 9     | 8.5     | 6.3 | 9.5      | 6.5 | 8.6      | 5.9 | 7.6     | 4.6  | ---      | ---  | 7.9       | 5.4 |
| 10    | 7.7     | 6.3 | 8.3      | 6.5 | 7.1      | 5.7 | 6.8     | 4.1  | ---      | ---  | 5.5       | 5.0 |
| 11    | 6.7     | 6.2 | 8.6      | 6.5 | 8.8      | 6.1 | 6.6     | 4.9  | ---      | ---  | 6.9       | 5.0 |
| 12    | 6.6     | 6.1 | 11.7     | 6.9 | 9.1      | 6.0 | 6.4     | 4.8  | 7.8      | 5.7  | 6.4       | 5.1 |
| 13    | 7.5     | 6.5 | 9.5      | 6.9 | 8.7      | 6.2 | 6.3     | 5.6  | 8.2      | 4.8  | 8.9       | 5.7 |
| 14    | 7.4     | 7.1 | 12.9     | 6.7 | 9.7      | 6.3 | 7.8     | 5.3  | 9.1      | 5.4  | 5.9       | 4.8 |
| 15    | 7.4     | 7.0 | 14.7     | 8.5 | 10.2     | 6.5 | 10.7    | 4.8  | 8.7      | 4.9  | 7.2       | 5.0 |
| 16    | 7.3     | 7.1 | 13.6     | 8.9 | ---      | --- | ---     | ---  | 10.3     | 5.1  | 6.3       | 5.5 |
| 17    | 7.9     | 7.1 | 11.7     | 7.8 | ---      | --- | ---     | ---  | 9.3      | 6.4  | 5.5       | 5.0 |
| 18    | 7.7     | 7.1 | 9.8      | 6.3 | ---      | --- | ---     | ---  | 9.0      | 5.1  | 5.2       | 4.8 |
| 19    | 7.6     | 7.2 | 10.6     | 6.2 | 11.1     | 6.1 | ---     | ---  | 9.4      | 4.3  | 6.7       | 4.6 |
| 20    | 7.4     | 6.9 | 13.9     | 7.2 | 10.4     | 6.0 | 7.4     | 4.9  | ---      | ---  | 8.4       | 5.6 |
| 21    | 7.3     | 6.7 | ---      | --- | ---      | --- | ---     | ---  | ---      | ---  | 8.7       | 5.4 |
| 22    | 7.2     | 6.8 | ---      | --- | ---      | --- | ---     | ---  | ---      | ---  | 8.1       | 5.3 |
| 23    | 7.1     | 6.5 | ---      | --- | 9.3      | 6.2 | ---     | ---  | 5.8      | 3.8  | 7.2       | 5.6 |
| 24    | 7.5     | 6.3 | 7.3      | 6.0 | 12.1     | 7.1 | ---     | ---  | 5.5      | 3.6  | 8.6       | 6.3 |
| 25    | 7.0     | 6.2 | 7.2      | 5.6 | 12.2     | 7.0 | ---     | ---  | 9.5      | 4.7  | ---       | --- |
| 26    | 7.2     | 5.8 | 8.4      | 5.9 | 11.9     | 7.2 | 10.2    | 6.7  | 9.2      | 4.7  | ---       | --- |
| 27    | 6.4     | 5.8 | 10.5     | 6.1 | 8.4      | 6.6 | 11.1    | 6.2  | 8.5      | 4.5  | 6.1       | 5.3 |
| 28    | 6.2     | 5.7 | 9.7      | 5.8 | 9.1      | 6.6 | 10.4    | 5.7  | 8.1      | 4.3  | 6.2       | 5.2 |
| 29    | 7.1     | 6.1 | 10.7     | 5.9 | 7.6      | 4.8 | 11.3    | 6.9  | 7.8      | 5.1  | 5.7       | 4.8 |
| 30    | 8.2     | 6.6 | 10.8     | 5.7 | 4.5      | 2.9 | 10.7    | 6.0  | 5.7      | 4.5  | 5.8       | 4.7 |
| 31    | ---     | --- | 10.8     | 6.8 | ---      | --- | 9.6     | 5.8  | 5.5      | 4.4  | ---       | --- |
| MONTH | 9.3     | 5.7 | 14.7     | 5.6 | 13.5     | 2.9 | 11.3    | 2.5  | 11.4     | 3.6  | 8.9       | 3.8 |
| YEAR  | 14.7    | 2.5 |          |     |          |     |         |      |          |      |           |     |



## 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 mi<sup>2</sup>.

## 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.--51 years, 353 ft<sup>3</sup>/s, 24.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft<sup>3</sup>/s, Mar. 29, 1951, gage height, 21.0 ft; minimum daily discharge, 38 ft<sup>3</sup>/s, Oct. 17, 1937, Nov. 9, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Jan. 20 | 1800 | *10,200                        | *16.88           | No other peak greater than base discharge. |      |                                |                  |

Minimum discharge, 46 ft<sup>3</sup>/s, Aug. 13, gage height, 1.79 ft.

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           | 63    | 62    | 57       | 105      | 202    | 123       | 130      | 155  | 81   | 62   | 63   | 66   |
| 2           | 63    | 63    | 56       | 119      | 210    | 123       | 144      | 147  | 81   | 58   | 62   | 65   |
| 3           | 61    | 61    | 56       | 115      | 305    | 121       | 151      | 140  | 81   | 63   | 62   | 70   |
| 4           | 60    | 62    | 56       | 124      | 292    | 128       | 155      | 139  | 76   | 70   | 71   | 107  |
| 5           | 61    | 61    | 54       | 122      | 267    | 126       | 152      | 135  | 76   | 71   | 64   | 119  |
| 6           | 58    | 59    | 55       | 112      | 241    | 119       | 141      | 128  | 78   | 65   | 58   | 84   |
| 7           | 56    | 60    | 55       | 116      | 220    | 116       | 136      | 122  | 74   | 62   | 52   | 75   |
| 8           | 58    | 61    | 56       | 114      | 211    | 114       | 130      | 119  | 74   | 61   | 63   | 72   |
| 9           | 60    | 62    | 55       | 105      | 203    | 133       | 125      | 117  | 75   | 59   | 65   | 69   |
| 10          | 58    | 72    | 56       | 99       | 192    | 220       | 122      | 121  | 69   | 59   | 61   | 71   |
| 11          | 59    | 75    | 56       | 95       | 181    | 277       | 134      | 118  | 69   | 62   | 59   | 69   |
| 12          | 59    | 62    | 54       | 94       | 176    | 241       | 778      | 111  | 69   | 65   | 60   | 632  |
| 13          | 58    | 60    | 53       | 106      | 165    | 294       | 583      | 108  | 70   | 85   | 53   | 557  |
| 14          | 58    | 60    | 56       | 131      | 157    | 267       | 410      | 104  | 66   | 71   | 51   | 192  |
| 15          | 60    | 59    | 89       | 136      | 167    | 241       | 332      | 106  | 69   | 65   | 58   | 140  |
| 16          | 61    | 58    | 102      | 124      | 185    | 217       | 281      | 111  | 68   | 63   | 60   | 130  |
| 17          | 60    | 70    | 67       | 203      | 171    | 199       | 246      | 103  | 70   | 91   | 64   | 650  |
| 18          | 60    | 74    | 62       | 752      | 164    | 189       | 262      | 100  | 67   | 69   | 62   | 662  |
| 19          | 60    | 64    | 59       | 940      | 169    | 186       | 676      | 97   | 97   | 63   | 62   | 330  |
| 20          | 60    | 61    | 62       | 7110     | 179    | 171       | 581      | 93   | 77   | 62   | 67   | 234  |
| 21          | 64    | 58    | 64       | 2370     | 170    | 158       | 437      | 91   | 69   | 70   | 73   | 185  |
| 22          | 62    | 58    | 61       | 870      | 160    | 151       | 366      | 89   | 68   | 109  | 71   | 153  |
| 23          | 64    | 58    | 60       | 603      | 156    | 145       | 327      | 90   | 69   | 75   | 68   | 137  |
| 24          | 63    | 56    | 78       | 475      | 153    | 138       | 289      | 97   | 65   | 65   | 245  | 127  |
| 25          | 61    | 55    | 115      | 422      | 145    | 147       | 243      | 100  | 64   | 63   | 111  | 122  |
| 26          | 64    | 57    | 96       | 360      | 140    | 148       | 222      | 89   | 62   | 63   | 82   | 114  |
| 27          | 65    | 56    | 91       | 314      | 136    | 138       | 203      | 87   | 65   | 61   | 73   | 107  |
| 28          | 64    | 55    | 146      | 285      | 133    | 135       | 182      | 86   | 60   | 61   | 67   | 101  |
| 29          | 63    | 57    | 138      | 259      | 128    | 132       | 170      | 85   | 64   | 61   | 71   | 99   |
| 30          | 61    | 61    | 111      | 233      | ---    | 129       | 163      | 83   | 63   | 59   | 71   | 93   |
| 31          | 60    | ---   | 98       | 215      | ---    | 129       | ---      | 81   | ---  | 55   | 68   | ---  |
| TOTAL       | 1884  | 1837  | 2274     | 17228    | 5378   | 5155      | 8271     | 3352 | 2136 | 2068 | 2217 | 5632 |
| MEAN        | 60.8  | 61.2  | 73.4     | 556      | 185    | 166       | 276      | 108  | 71.2 | 66.7 | 71.5 | 188  |
| MAX         | 65    | 75    | 146      | 7110     | 305    | 294       | 778      | 155  | 97   | 109  | 245  | 662  |
| MIN         | 56    | 55    | 53       | 94       | 128    | 114       | 122      | 81   | 60   | 55   | 51   | 65   |
| CFSM        | .32   | .32   | .38      | 2.88     | .96    | .86       | 1.43     | .56  | .37  | .35  | .37  | .97  |
| IN.         | .36   | .35   | .44      | 3.32     | 1.04   | .99       | 1.59     | .65  | .41  | .40  | .43  | 1.09 |
| CAL YR 1987 | TOTAL | 88471 | MEAN 242 | MAX 4200 | MIN 53 | CFSM 1.25 | IN 17.05 |      |      |      |      |      |
| WTR YR 1988 | TOTAL | 57432 | MEAN 157 | MAX 7110 | MIN 51 | CFSM .81  | IN 11.07 |      |      |      |      |      |



## MOBILE RIVER BASIN

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.--Continued

## WATER-QUALITY RECORDS

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 0845 | 61                                              | --                                                | 727                                                      | 7.80                           | 7.70                                  | 12.0                                 | 9.0                                | 6.8                                 | 64                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 0830 | 56                                              | --                                                | 575                                                      | 7.60                           | 8.00                                  | 9.0                                  | 13.5                               | 8.2                                 | 71                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1315 | 139                                             | 400                                               | 382                                                      | 8.00                           | 8.00                                  | 11.0                                 | 10.0                               | 8.0                                 | 73                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 1320 | 358                                             | 216                                               | 210                                                      | 7.80                           | 7.70                                  | 7.5                                  | 5.0                                | 10.2                                | 86                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1530 | 153                                             | 345                                               | 331                                                      | 8.00                           | 8.30                                  | 11.0                                 | 13.0                               | 10.5                                | 96                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 30... | 1100 | 131                                             | 435                                               | 449                                                      | 8.00                           | 8.10                                  | 16.5                                 | 22.0                               | 9.4                                 | 98                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1420 | 201                                             | 301                                               | 308                                                      | 7.90                           | 7.90                                  | 18.5                                 | 24.0                               | 8.2                                 | 89                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1315 | 99                                              | --                                                | 589                                                      | 8.10                           | 8.00                                  | 20.5                                 | 21.5                               | 6.8                                 | 77                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1120 | 63                                              | --                                                | 610                                                      | 7.90                           | 8.00                                  | 23.0                                 | 31.0                               | 6.1                                 | 72                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1045 | 61                                              | --                                                | 614                                                      | 8.00                           | 8.10                                  | 23.5                                 | 30.5                               | 5.9                                 | 71                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1450 | 419                                             | 417                                               | 418                                                      | 7.80                           | 8.10                                  | 22.5                                 | 28.5                               | 7.2                                 | 85                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1440 | 103                                             | 499                                               | 500                                                      | 8.00                           | 8.10                                  | 21.0                                 | 26.0                               | 7.4                                 | 84                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 28... | <1.0                         | 1.0                                                            | 80                                               | 120                                             | 0                                                                 | 209                                                             | 0.360                                                | 0.090                                                | 0.190                                       | --                                            |
| NOV   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 24... | 4.0                          | 3.4                                                            | 1100                                             | 120                                             | 0                                                                 | 177                                                             | 0.620                                                | 0.090                                                | 0.490                                       | 7.9                                           |
| DEC   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 29... | 6.0                          | 0.6                                                            | 490                                              | 100                                             | 0                                                                 | 129                                                             | 0.470                                                | 0.080                                                | 0.290                                       | 2.3                                           |
| JAN   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 26... | 10                           | 1.5                                                            | 130                                              | 81                                              | 0                                                                 | 90                                                              | 0.690                                                | 0.050                                                | 0.070                                       | 1.7                                           |
| FEB   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 24... | 4.0                          | 1.5                                                            | 40                                               | 100                                             | 0                                                                 | 117                                                             | 0.490                                                | 0.100                                                | 0.130                                       | 3.7                                           |
| MAR   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 30... | 2.0                          | 1.0                                                            | 170                                              | 110                                             | 0                                                                 | 149                                                             | 0.500                                                | 0.060                                                | 0.160                                       | 2.9                                           |
| APR   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 27... | 5.0                          | 1.8                                                            | 130                                              | 90                                              | 0                                                                 | 115                                                             | 0.460                                                | 0.060                                                | 0.840                                       | 2.4                                           |
| MAY   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 24... | 5.0                          | 1.4                                                            | 1700                                             | 110                                             | 0                                                                 | 170                                                             | 0.930                                                | 0.140                                                | 0.180                                       | 3.2                                           |
| JUN   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 29... | 5.0                          | 1.8                                                            | 330                                              | 100                                             | 0                                                                 | 190                                                             | 1.48                                                 | 0.300                                                | 1.41                                        | 3.3                                           |
| JUL   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 27... | 5.0                          | 1.6                                                            | 110                                              | --                                              | --                                                                | 190                                                             | 0.650                                                | 0.260                                                | 0.220                                       | 2.7                                           |
| AUG   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 24... | 12                           | 2.0                                                            | 220                                              | 100                                             | 0                                                                 | 130                                                             | 0.890                                                | 0.060                                                | 0.100                                       | 5.3                                           |
| SEP   |                              |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                      |                                                      |                                             |                                               |
| 28... | 3.0                          | 0.9                                                            | 230                                              | 120                                             | 0                                                                 | 173                                                             | 0.500                                                | 0.060                                                | 0.180                                       | 3.2                                           |

## 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 mi<sup>2</sup>.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 0940 | 99                                              | --                                                | 580                                                      | 7.80                           | 7.60                                  | 12.0                                 | 12.5                               | 6.4                                 | 60                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 0940 | 87                                              | --                                                | 637                                                      | 7.80                           | 8.00                                  | 8.5                                  | 17.5                               | 8.3                                 | 71                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1245 | 238                                             | 345                                               | 336                                                      | 7.90                           | 8.00                                  | 10.5                                 | 9.5                                | 9.6                                 | 87                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 26... | 1245 | 490                                             | 230                                               | 223                                                      | 7.80                           | 7.70                                  | 7.5                                  | 4.5                                | 10.8                                | 91                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1450 | 218                                             | 358                                               | 348                                                      | 7.90                           | 8.20                                  | 11.0                                 | 13.0                               | 10.4                                | 95                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 30... | 1215 | 196                                             | 395                                               | 403                                                      | 8.00                           | 8.10                                  | 17.0                                 | 22.0                               | 10.2                                | 107                                                            |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1340 | 305                                             | 285                                               | 284                                                      | 7.80                           | 7.90                                  | 18.5                                 | 24.0                               | 8.1                                 | 88                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1200 | 130                                             | 366                                               | 386                                                      | 7.90                           | 8.00                                  | 20.5                                 | 21.0                               | 6.4                                 | 73                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 29... | 1200 | 86                                              | 418                                               | 416                                                      | 7.90                           | 8.00                                  | 31.0                                 | 26.0                               | 6.2                                 | 85                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1145 | 82                                              | 400                                               | 404                                                      | 7.80                           | 8.10                                  | 25.5                                 | 34.0                               | 6.4                                 | 80                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 24... | 1415 | 112                                             | 368                                               | 376                                                      | 7.80                           | 7.90                                  | 26.0                                 | 28.0                               | 6.3                                 | 79                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 28... | 1410 | 133                                             | 360                                               | 375                                                      | 7.90                           | 7.90                                  | 21.0                                 | 26.5                               | 7.4                                 | 84                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 28... | 1.0                          | 17                                                             | 1.4                                                            | <20                                              | 120                                             | 0                                                                 | 164                                                             | <1                                                                |
| NOV   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 24... | 4.0                          | 32                                                             | 3.7                                                            | 150                                              | 120                                             | 0                                                                 | 180                                                             | 7                                                                 |
| DEC   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 29... | 8.0                          | 10                                                             | 0.7                                                            | 170                                              | 110                                             | 0                                                                 | 118                                                             | 48                                                                |
| JAN   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 26... | 10                           | 6                                                              | 1.7                                                            | 1100                                             | 84                                              | 3                                                                 | 81                                                              | 13                                                                |
| FEB   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 24... | 5.0                          | 9                                                              | 1.6                                                            | 50                                               | 100                                             | 0                                                                 | 120                                                             | 5                                                                 |
| MAR   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 30... | 3.0                          | 6                                                              | 1.0                                                            | 80                                               | 120                                             | 0                                                                 | 137                                                             | 7                                                                 |
| APR   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 27... | 11                           | <5                                                             | 1.1                                                            | 50                                               | 66                                              | 0                                                                 | 104                                                             | 19                                                                |
| MAY   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 24... | 9.0                          | 12                                                             | 1.0                                                            | 170                                              | 110                                             | 0                                                                 | 133                                                             | 16                                                                |
| JUN   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 29... | 6.0                          | 15                                                             | 2.1                                                            | 110                                              | 100                                             | 0                                                                 | 140                                                             | 5                                                                 |
| JUL   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 27... | 5.0                          | --                                                             | 1.9                                                            | 60                                               | 110                                             | 0                                                                 | 136                                                             | 5                                                                 |
| AUG   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 24... | 25                           | --                                                             | 1.2                                                            | 7900                                             | 110                                             | 0                                                                 | 125                                                             | 26                                                                |
| SEP   |                              |                                                                |                                                                |                                                  |                                                 |                                                                   |                                                                 |                                                                   |
| 28... | 6.0                          | --                                                             | 1.0                                                            | 70                                               | 130                                             | 3                                                                 | 127                                                             | 10                                                                |

## MOBILE RIVER BASIN

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 28... | 0.530                                                | 0.210                                                | 0.89                                                 | 1.1                                                                | 1.6                                       | 0.410                                       | --                                            |
| NOV   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 24... | 0.750                                                | 0.110                                                | 1.4                                                  | 1.5                                                                | 2.2                                       | 0.670                                       | 13                                            |
| DEC   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 29... | 0.640                                                | 0.090                                                | 0.31                                                 | 0.40                                                               | 1.0                                       | 0.280                                       | 3.1                                           |
| JAN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 26... | 0.700                                                | 0.080                                                | 0.42                                                 | 0.50                                                               | 1.2                                       | 0.090                                       | 1.7                                           |
| FEB   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 24... | 0.550                                                | 0.060                                                | 0.44                                                 | 0.50                                                               | 1.0                                       | 0.250                                       | 3.1                                           |
| MAR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 30... | 0.580                                                | <0.020                                               | --                                                   | 0.40                                                               | 0.98                                      | 0.200                                       | 1.1                                           |
| APR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | 0.680                                                | 0.070                                                | 0.33                                                 | 0.40                                                               | 1.1                                       | 0.220                                       | 2.5                                           |
| MAY   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 24... | 0.640                                                | 0.080                                                | 0.52                                                 | 0.60                                                               | 1.2                                       | 0.260                                       | 3.1                                           |
| JUN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 29... | 0.850                                                | 0.060                                                | 0.54                                                 | 0.60                                                               | 1.5                                       | 0.420                                       | 2.9                                           |
| JUL   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | 0.620                                                | 0.030                                                | --                                                   | --                                                                 | --                                        | 0.360                                       | 3.9                                           |
| AUG   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 24... | 0.940                                                | 0.090                                                | --                                                   | --                                                                 | --                                        | 0.230                                       | 4.6                                           |
| SEP   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 28... | 0.770                                                | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.290                                       | 2.6                                           |

## MOBILE RIVER BASIN

365

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 mi<sup>2</sup>.

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 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV<br>03... | 0950 | 44                                              | 48                                                | 48                                                       | --                             | 6.60                                  | 12.0                                 | 20.0                               | 8.1                                 | 77                                                             |
| JAN<br>05... | 1045 | 150                                             | 44                                                | 41                                                       | 7.10                           | 7.10                                  | 5.5                                  | 1.5                                | 11.8                                | 95                                                             |
| MAR<br>01... | 1135 | 150                                             | 38                                                | 37                                                       | 7.20                           | 7.00                                  | 9.0                                  | 15.0                               | 11.0                                | 97                                                             |
| MAY<br>03... | 0820 | 152                                             | 39                                                | 40                                                       | 7.10                           | 7.00                                  | 15.0                                 | 14.5                               | 8.5                                 | 87                                                             |
| JUL<br>05... | 0800 | 37                                              | 45                                                | 44                                                       | 6.50                           | 6.80                                  | 22.0                                 | 22.0                               | 6.5                                 | 76                                                             |
| SEP<br>08... | 1050 | 56                                              | 40                                                | 38                                                       | 7.00                           | 7.00                                  | 19.5                                 | 21.5                               | 7.8                                 | 87                                                             |

| DATE         | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| NOV<br>03... | 4.0                          | 0.9                                                            | 70                                               | 15                                                            | <0.020                                               | 0.050                                                | 0.080                                       | 9.4                                           |
| JAN<br>05... | 6.0                          | 0.9                                                            | 230                                              | 13                                                            | 0.170                                                | 0.040                                                | 0.050                                       | 2.2                                           |
| MAR<br>01... | 6.0                          | 1.0                                                            | 70                                               | 12                                                            | 0.150                                                | 0.070                                                | 0.030                                       | 2.2                                           |
| MAY<br>03... | 8.0                          | 0.1                                                            | 170                                              | 13                                                            | 0.110                                                | 0.030                                                | 0.040                                       | 3.1                                           |
| JUL<br>05... | 10                           | 1.8                                                            | 790                                              | 14                                                            | 0.200                                                | 0.190                                                | 0.080                                       | 2.8                                           |
| SEP<br>08... | 27                           | 1.2                                                            | --                                               | 11                                                            | 0.170                                                | 0.040                                                | 0.070                                       | 3.5                                           |

## MOBILE RIVER BASIN

02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.

LOCATION.--Lat 33°29'34", long 85°16'45", Carroll County, Hydrologic Unit 03150108, at bridge on State Highway 100, 1.9 mi upstream from Indian Creek, and 3.8 mi southwest of Bowdon.

DRAINAGE AREA.--245 mi<sup>2</sup>.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 0930 | 25                                              | 180                                               | 167                                                      | 7.00                           | 6.70                                  | 13.0                                 | 19.0                               | 7.1                                 | 70                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 1100 | 41                                              | 136                                               | 134                                                      | 6.90                           | 6.70                                  | 13.0                                 | 22.5                               | 8.3                                 | 80                                                             |
| DEC   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1145 | 71                                              | 121                                               | 116                                                      | 7.00                           | 7.20                                  | 10.0                                 | 9.5                                | 8.3                                 | 76                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 1140 | 195                                             | 61                                                | 57                                                       | 7.10                           | 7.10                                  | 6.0                                  | 4.0                                | 11.2                                | 91                                                             |
| FEB   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 02... | 1210 | 178                                             | 69                                                | 62                                                       | 7.00                           | 6.90                                  | 11.0                                 | 20.0                               | 9.8                                 | 91                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 01... | 1240 | 152                                             | 68                                                | 65                                                       | 7.10                           | 7.00                                  | 9.0                                  | 18.5                               | 10.5                                | 93                                                             |
| APR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 06... | 1100 | 150                                             | 62                                                | 62                                                       | 7.00                           | 6.90                                  | 18.0                                 | 20.0                               | 7.4                                 | 81                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 03... | 0900 | 149                                             | 64                                                | 66                                                       | 6.90                           | 7.00                                  | 14.5                                 | 21.0                               | 7.8                                 | 79                                                             |
| JUN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1110 | 41                                              | 106                                               | 103                                                      | 7.00                           | 7.00                                  | 22.0                                 | 30.0                               | 6.5                                 | 77                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 05... | 0900 | 186                                             | 131                                               | 122                                                      | 6.90                           | 7.00                                  | 21.5                                 | 22.0                               | 6.0                                 | 69                                                             |
| AUG   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 04... | 1050 | 26                                              | 138                                               | 138                                                      | 6.90                           | 7.00                                  | 26.0                                 | 30.5                               | 5.6                                 | 71                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 08... | 1150 | 70                                              | 69                                                | 67                                                       | 6.90                           | 6.90                                  | 20.0                                 | 22.5                               | 7.1                                 | 80                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | ALKA-<br>LITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CACO3 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 06... | 15                           | 1.3                                                            | 330                                              | 29                                                            | 2.10                                                 | 0.940                                                | 0.450                                       | 4.9                                           |
| NOV   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 03... | 5.0                          | 1.1                                                            | 130                                              | 20                                                            | 1.23                                                 | 0.080                                                | 0.260                                       | 11                                            |
| DEC   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 01... | 10                           | 1.8                                                            | 170                                              | 20                                                            | 1.26                                                 | 0.360                                                | 0.400                                       | 4.1                                           |
| JAN   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 05... | 11                           | 0.9                                                            | 110                                              | 14                                                            | 0.610                                                | 0.090                                                | 0.130                                       | 2.8                                           |
| FEB   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 02... | 16                           | 1.4                                                            | 80                                               | 13                                                            | 0.620                                                | 0.300                                                | 0.140                                       | 2.9                                           |
| MAR   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 01... | 10                           | 1.0                                                            | 170                                              | 15                                                            | 0.620                                                | 0.280                                                | 0.100                                       | 2.7                                           |
| APR   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 06... | 5.0                          | 1.1                                                            | 130                                              | 16                                                            | 0.720                                                | 0.130                                                | 0.140                                       | 2.8                                           |
| MAY   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 03... | 15                           | 1.6                                                            | 100                                              | 15                                                            | 0.810                                                | 0.100                                                | 0.160                                       | 3.7                                           |
| JUN   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 08... | 10                           | 1.0                                                            | 160                                              | 18                                                            | 1.50                                                 | 0.090                                                | 3.70                                        | --                                            |
| JUL   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 05... | 51                           | 4.2                                                            | 4900                                             | 28                                                            | 1.46                                                 | 1.02                                                 | 0.320                                       | 7.3                                           |
| AUG   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 04... | 18                           | 1.3                                                            | 110                                              | 21                                                            | 4.50                                                 | 0.170                                                | 0.170                                       | 5.1                                           |
| SEP   |                              |                                                                |                                                  |                                                               |                                                      |                                                      |                                             |                                               |
| 08... | 22                           | 1.6                                                            | --                                               | 14                                                            | 0.730                                                | 0.040                                                | 0.230                                       | 4.6                                           |

## LAKES AND RESERVOIRS IN MOBILE RIVER BASIN

367

## 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 mi<sup>2</sup>.

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, 326,700 acre-ft Dec. 18, 1987, elevation, 1,055.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 388,000 acre-ft, Apr. 12, elevation, 1,075.60 ft; minimum, 326,700 acre-ft, Dec. 18, elevation, 1,055.70.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|---------------------|-------------------------|--------------------|------------------------------------------|
|               |                     |                         | acre-feet)         | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 1060.60             | 341000                  | -                  | -                                        |
| Oct. 31.....  | 1058.10             | 333700                  | -7300              | -119                                     |
| Nov. 30.....  | 1057.20             | 331100                  | -2600              | -44                                      |
| Dec. 31.....  | 1058.45             | 334700                  | +3600              | +59                                      |
| CAL YR 1987   | -                   | -                       | -36100             | -50                                      |
| Jan. 31.....  | 1071.10             | 373400                  | +38700             | +629                                     |
| Feb. 29.....  | 1069.80             | 369200                  | -4200              | -73                                      |
| Mar. 31.....  | 1074.50             | 384400                  | +15200             | +247                                     |
| Apr. 30.....  | 1074.70             | 385000                  | +1400              | +24                                      |
| May 31.....   | 1073.85             | 382300                  | -2700              | -44                                      |
| June 30.....  | 1071.40             | 374400                  | -7900              | -133                                     |
| July 31.....  | 1070.00             | 369900                  | -4500              | -73                                      |
| Aug. 31.....  | 1067.60             | 362300                  | -7600              | -124                                     |
| Sept. 30..... | 1066.35             | 358500                  | -3800              | -64                                      |
| WTR YR 1988   | -                   | -                       | +17500             | +24                                      |



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

## 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 mi<sup>2</sup>.

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, 16,300 acre-ft, Apr. 14, elevation, \*697.06 ft; minimum, 1,880 acre-ft, Aug. 29, elevation, \*676.12 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|---------------------|-------------------------|--------------------|------------------------------------------|
|               |                     |                         | acre-feet)         | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 687.64              | 8800                    | -                  | -                                        |
| Oct. 31.....  | 685.06              | 7000                    | -1800              | -29                                      |
| Nov. 30.....  | 687.27              | 7100                    | +100               | +2                                       |
| Dec. 31.....  | 685.75              | 7500                    | +400               | +7                                       |
| CAL YR 1987   | -                   | -                       | +1500              | +2                                       |
| Jan. 31.....  | 678.51              | 2900                    | -4600              | -75                                      |
| Feb. 29.....  | 684.58              | 6700                    | +3800              | +66                                      |
| Mar. 31.....  | *685.99             | 7700                    | +1000              | +16                                      |
| Apr. 30.....  | 680.85              | 4200                    | -3500              | -59                                      |
| May 31.....   | *680.60             | 4100                    | -100               | -2                                       |
| June 30.....  | 682.67              | 5400                    | +1300              | +22                                      |
| July 31.....  | *679.91             | 3700                    | -1700              | -28                                      |
| Aug. 31.....  | 682.68              | 5400                    | +1700              | +28                                      |
| Sept. 30..... | 685.41              | 7200                    | +1800              | +30                                      |
| WTR YR 1988   | -                   | -                       | -1600              | -2                                       |

\*Elevations obtained from Carters Dam tailwater-gage record due to missing record at Carters Re-regulation Dam pool gage.

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

369

## 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 mi<sup>2</sup>.

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 gates, is 670,000 acre-ft, of which 587,100 acre-ft is controlled storage above 800 ft, minimum pool. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 693,800 acre-ft Apr. 10, 1964, elevation, 861.19 ft; minimum, 119,600 acre-ft Dec. 4, 1954, elevation, 809.34 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 351,100 acre-ft May 31, elevation, 838.60 ft; minimum, 188,700 acre-ft Dec. 18, elevation, 821.10 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents |                                          |
|---------------|---------------------|-------------------------|--------------------|------------------------------------------|
|               |                     |                         | (acre-feet)        | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 830.74              | 268800                  | -                  | -                                        |
| Oct. 31.....  | 825.25              | 220400                  | -48400             | -787                                     |
| Nov. 30.....  | 822.61              | 199900                  | -20500             | -345                                     |
| Dec. 31.....  | 823.97              | 210300                  | +10400             | +169                                     |
| CAL YR 1987   | -                   | -                       | -38700             | -53                                      |
| Jan. 31.....  | 827.42              | 238700                  | +28400             | +462                                     |
| Feb. 29.....  | 829.12              | 253800                  | +15100             | +263                                     |
| Mar. 31.....  | 830.00              | 261900                  | +8100              | +132                                     |
| Apr. 30.....  | 837.16              | 334900                  | +73000             | +1227                                    |
| May 31.....   | 838.60              | 351100                  | +16200             | +263                                     |
| June 30.....  | 835.43              | 316000                  | -35100             | -590                                     |
| July 31.....  | 834.03              | 301300                  | -14700             | -239                                     |
| Aug. 31.....  | 831.21              | 273300                  | -28000             | -455                                     |
| Sept. 30..... | 829.45              | 256800                  | -16500             | -277                                     |
| WTR YR 1988   | -                   | -                       | -12000             | -17                                      |

## TENNESSEE RIVER BASIN

03544947 BRIER CREEK NEAR HIWASSEE, 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 Hiwassee.

DRAINAGE AREA.--1.70 mi<sup>2</sup>.

## 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: Aug. 19 to Sept. 27. Records good, except those of doubtful gage height record, Aug. 19 to Sept. 27, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown, Nov. 26, 1986, gage height 3.19 ft; minimum daily discharge, 0.56 ft<sup>3</sup>/s, Oct. 15-17, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, Jan. 20; gage height, 2.84 ft; minimum daily discharge 0.56 ft<sup>3</sup>/s, Oct. 15-17.

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           | .78   | .69     | 2.8       | 3.9    | 3.5     | 2.5       | 3.7      | 4.3  | 1.8  | 1.2   | .86   | .72   |
| 2           | .72   | .68     | 2.4       | 3.6    | 4.1     | 2.4       | 4.4      | 3.9  | 1.7  | 1.1   | 1.5   | .69   |
| 3           | .69   | .68     | 2.2       | 3.5    | 4.6     | 2.5       | 5.7      | 3.8  | 1.7  | 1.5   | 1.1   | 1.2   |
| 4           | .69   | .69     | 2.0       | 3.6    | 7.0     | 3.1       | 11       | 4.0  | 1.7  | 1.6   | 1.7   | 4.1   |
| 5           | .65   | .68     | 1.8       | 3.3    | 7.0     | 2.7       | 8.3      | 3.7  | 1.6  | 1.8   | 1.6   | 2.0   |
| 6           | .62   | .66     | 1.7       | 3.1    | 5.9     | 2.7       | 6.9      | 3.6  | 1.6  | 1.3   | 1.3   | 1.3   |
| 7           | .62   | .69     | 1.6       | 3.7    | 5.1     | 2.5       | 6.0      | 3.5  | 1.5  | 1.1   | 1.1   | 1.0   |
| 8           | .61   | .69     | 1.6       | 3.1    | 4.7     | 2.5       | 5.3      | 3.4  | 1.5  | 1.1   | 1.0   | .90   |
| 9           | .63   | .69     | 1.6       | 2.9    | 4.4     | 3.2       | 4.8      | 3.4  | 1.5  | 1.0   | .95   | 1.1   |
| 10          | .62   | 4.1     | 2.1       | 2.7    | 4.3     | 3.4       | 4.5      | 3.3  | 1.5  | 1.0   | .98   | .97   |
| 11          | .61   | 1.3     | 1.7       | 2.7    | 4.1     | 3.2       | 4.7      | 3.1  | 1.5  | 1.3   | 1.8   | .97   |
| 12          | .62   | 1.1     | 1.7       | 2.6    | 3.9     | 3.2       | 28       | 2.9  | 1.4  | 1.6   | 1.4   | 1.5   |
| 13          | .62   | .99     | 1.6       | 3.2    | 3.6     | 3.7       | 18       | 2.9  | 1.4  | 1.2   | 1.1   | 1.3   |
| 14          | .57   | .96     | 1.8       | 2.9    | 3.4     | 3.5       | 12       | 2.7  | 1.3  | 1.2   | .95   | 1.1   |
| 15          | .56   | .92     | 5.4       | 2.8    | 3.9     | 3.4       | 9.9      | 2.7  | 1.3  | 1.3   | .89   | .99   |
| 16          | .56   | .97     | 4.6       | 2.7    | 3.5     | 3.2       | 8.5      | 2.6  | 1.4  | 1.2   | .87   | .99   |
| 17          | .56   | 14      | 3.8       | 5.9    | 3.4     | 3.0       | 7.4      | 2.6  | 1.4  | 1.1   | .85   | 4.0   |
| 18          | .57   | 4.4     | 3.3       | 12     | 3.3     | 3.1       | 7.3      | 2.5  | 1.8  | 1.0   | .82   | 3.3   |
| 19          | .58   | 2.9     | 2.9       | 21     | 3.5     | 2.9       | 7.4      | 2.4  | 1.6  | .99   | .89   | 2.1   |
| 20          | .68   | 2.3     | 3.0       | 44     | 3.3     | 2.7       | 6.7      | 2.3  | 1.4  | .98   | 1.2   | 1.7   |
| 21          | .65   | 1.9     | 2.9       | 16     | 3.2     | 2.7       | 6.4      | 2.2  | 1.4  | 1.5   | 1.0   | 1.4   |
| 22          | .65   | 1.7     | 2.7       | 9.8    | 3.1     | 2.6       | 6.1      | 2.2  | 1.3  | 3.3   | .91   | 1.2   |
| 23          | .61   | 1.6     | 2.5       | 7.5    | 3.1     | 2.6       | 5.8      | 2.4  | 1.2  | 2.6   | .86   | 1.2   |
| 24          | .60   | 1.5     | 2.6       | 6.2    | 3.0     | 2.5       | 5.6      | 2.5  | 1.3  | 1.3   | .84   | 1.1   |
| 25          | .60   | 1.4     | 2.9       | 5.6    | 2.8     | 3.2       | 5.3      | 2.3  | 1.4  | 1.1   | .79   | 1.1   |
| 26          | .61   | 2.4     | 3.1       | 4.9    | 2.8     | 3.2       | 5.2      | 2.1  | 1.3  | 1.0   | .77   | 1.1   |
| 27          | .79   | 3.4     | 3.7       | 4.4    | 2.8     | 3.0       | 4.9      | 2.0  | 1.2  | 1.0   | .74   | 1.0   |
| 28          | .69   | 3.9     | 5.5       | 4.2    | 2.7     | 3.0       | 4.7      | 1.9  | 1.2  | .99   | .74   | 1.0   |
| 29          | .69   | 3.8     | 5.5       | 4.0    | 2.6     | 2.9       | 4.6      | 1.9  | 1.1  | .95   | .73   | .98   |
| 30          | .68   | 3.3     | 4.7       | 3.8    | ---     | 2.8       | 4.5      | 1.9  | 1.3  | .94   | .74   | .98   |
| 31          | .69   | ---     | 4.1       | 3.7    | ---     | 2.7       | ---      | 1.8  | ---  | .89   | .74   | ---   |
| TOTAL       | 19.82 | 64.99   | 89.8      | 203.3  | 112.6   | 90.6      | 223.6    | 86.8 | 43.3 | 40.14 | 31.72 | 42.99 |
| MEAN        | .64   | 2.17    | 2.90      | 6.56   | 3.88    | 2.92      | 7.45     | 2.80 | 1.44 | 1.29  | 1.02  | 1.43  |
| MAX         | .79   | 14      | 5.5       | 44     | 7.0     | 3.7       | 28       | 4.3  | 1.8  | 3.3   | 1.8   | 4.1   |
| MIN         | .56   | .66     | 1.6       | 2.6    | 2.6     | 2.4       | 3.7      | 1.8  | 1.1  | .89   | .73   | .69   |
| CFSM        | .37   | 1.25    | 1.67      | 3.77   | 2.23    | 1.68      | 4.28     | 1.61 | .83  | .74   | .59   | .82   |
| IN.         | .42   | 1.39    | 1.92      | 4.34   | 2.41    | 1.94      | 4.78     | 1.85 | .93  | .86   | .68   | .92   |
| CAL YR 1987 | TOTAL | 1374.82 | MEAN 3.77 | MAX 36 | MIN .56 | CFSM 2.17 | IN 29.38 |      |      |       |       |       |
| WTR YR 1988 | TOTAL | 1049.66 | MEAN 2.87 | MAX 44 | MIN .56 | CFSM 1.65 | IN 22.43 |      |      |       |       |       |

## 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 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1912 to current year. Prior to January 1913 monthly discharges only, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1386: 1923(M), 1924, 1927(M), 1929-32(M), 1933, 1934(M), 1944(M).

GAGE.--Water-stage recorder. Datum of gage is 1,782.08 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.--76 years, 489 ft<sup>3</sup>/s, 37.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,700 ft<sup>3</sup>/s, Aug. 23, 1967, gage height, 13.73 ft, from rating curve extended above 5,000 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 11.20 ft, and a contracted-opening measurement at 13.73 ft; minimum, 60 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20 | 0700 | *4,080                            | *6.49               | No other peak greater than base discharge. |      |                                   |                     |

Minimum daily discharge, 106 ft<sup>3</sup>/s, Sept. 2.

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     | 142  | 117  | 132  | 281   | 257  | 220  | 302   | 324  | 214  | 170  | 131  | 114  |
| 2     | 126  | 116  | 128  | 271   | 361  | 211  | 425   | 317  | 211  | 150  | 170  | 106  |
| 3     | 120  | 114  | 125  | 232   | 465  | 213  | 336   | 311  | 207  | 205  | 200  | 110  |
| 4     | 120  | 114  | 127  | 260   | 605  | 282  | 611   | 334  | 204  | 262  | 165  | 450  |
| 5     | 121  | 113  | 123  | 253   | 500  | 250  | 447   | 324  | 197  | 247  | 176  | 304  |
| 6     | 120  | 108  | 122  | 205   | 402  | 229  | 422   | 305  | 192  | 196  | 243  | 178  |
| 7     | 117  | 107  | 121  | 191   | 360  | 221  | 377   | 297  | 190  | 167  | 284  | 145  |
| 8     | 114  | 109  | 120  | 252   | 342  | 216  | 349   | 290  | 185  | 154  | 178  | 127  |
| 9     | 115  | 112  | 122  | 218   | 322  | 295  | 329   | 298  | 182  | 147  | 157  | 125  |
| 10    | 116  | 337  | 138  | 189   | 305  | 356  | 317   | 371  | 183  | 153  | 144  | 142  |
| 11    | 114  | 191  | 135  | 173   | 293  | 314  | 316   | 336  | 177  | 143  | 147  | 199  |
| 12    | 114  | 144  | 124  | 180   | 291  | 293  | 1220  | 296  | 173  | 218  | 195  | 246  |
| 13    | 117  | 132  | 119  | 211   | 271  | 430  | 777   | 289  | 170  | 196  | 146  | 235  |
| 14    | 114  | 125  | 125  | 194   | 269  | 336  | 590   | 287  | 168  | 178  | 133  | 172  |
| 15    | 114  | 121  | 287  | 181   | 293  | 304  | 514   | 285  | 164  | 161  | 127  | 144  |
| 16    | 113  | 121  | 234  | 175   | 285  | 286  | 468   | 287  | 162  | 149  | 123  | 133  |
| 17    | 112  | 526  | 173  | 361   | 264  | 276  | 430   | 277  | 158  | 187  | 125  | 250  |
| 18    | 112  | 275  | 156  | 638   | 258  | 277  | 502   | 268  | 158  | 148  | 117  | 252  |
| 19    | 111  | 185  | 147  | 876   | 272  | 285  | 621   | 261  | 241  | 136  | 112  | 189  |
| 20    | 121  | 167  | 158  | 2510  | 270  | 264  | 517   | 258  | 193  | 130  | 227  | 169  |
| 21    | 137  | 149  | 166  | 923   | 253  | 255  | 469   | 254  | 180  | 161  | 186  | 155  |
| 22    | 118  | 139  | 158  | 589   | 245  | 248  | 439   | 251  | 165  | 243  | 187  | 135  |
| 23    | 117  | 137  | 146  | 452   | 245  | 243  | 420   | 250  | 158  | 265  | 149  | 128  |
| 24    | 117  | 134  | 160  | 393   | 244  | 242  | 402   | 262  | 153  | 180  | 155  | 131  |
| 25    | 117  | 133  | 214  | 373   | 235  | 284  | 379   | 272  | 161  | 152  | 137  | 241  |
| 26    | 117  | 133  | 192  | 324   | 231  | 312  | 371   | 248  | 166  | 143  | 123  | 179  |
| 27    | 131  | 150  | 242  | 297   | 231  | 270  | 359   | 236  | 152  | 149  | 117  | 145  |
| 28    | 128  | 145  | 386  | 287   | 227  | 253  | 343   | 232  | 144  | 157  | 114  | 130  |
| 29    | 119  | 151  | 294  | 276   | 223  | 247  | 337   | 228  | 140  | 154  | 119  | 123  |
| 30    | 117  | 138  | 228  | 270   | ---  | 246  | 331   | 222  | 151  | 150  | 118  | 119  |
| 31    | 116  | ---  | 200  | 264   | ---  | 243  | ---   | 219  | ---  | 143  | 118  | ---  |
| TOTAL | 3687 | 4743 | 5302 | 12299 | 8819 | 8401 | 13720 | 8689 | 5299 | 5394 | 4823 | 5276 |
| MEAN  | 119  | 158  | 171  | 397   | 304  | 271  | 457   | 280  | 177  | 174  | 156  | 176  |
| MAX   | 142  | 526  | 386  | 2510  | 605  | 430  | 1220  | 371  | 241  | 265  | 284  | 450  |
| MIN   | 111  | 107  | 119  | 173   | 223  | 211  | 302   | 219  | 140  | 130  | 112  | 106  |
| CFSM  | .67  | .89  | .97  | 2.24  | 1.72 | 1.53 | 2.58  | 1.58 | 1.00 | .98  | .88  | .99  |
| IN.   | .77  | 1.00 | 1.11 | 2.58  | 1.85 | 1.77 | 2.88  | 1.83 | 1.11 | 1.13 | 1.01 | 1.11 |

|             |       |        |          |          |         |           |          |
|-------------|-------|--------|----------|----------|---------|-----------|----------|
| CAL YR 1987 | TOTAL | 124242 | MEAN 340 | MAX 2310 | MIN 107 | CFSM 1.92 | IN 26.11 |
| WTR YR 1988 | TOTAL | 86452  | MEAN 236 | MAX 2510 | MIN 106 | CFSM 1.33 | IN 18.17 |

## TENNESSEE RIVER BASIN

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.

LOCATION.--Lat 34°58'39", long 85°08'42", Catoosa County, Hydrologic Unit 06020001, at bridge on Graysville Road at Graysville, 200 ft above dam at Swanson Mill, and 19.5 mi above mouth.

DRAINAGE AREA.--198 mi<sup>2</sup>.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV<br>23... | 1345 | 43                                              | --                                                | 257                                                      | 8.00                           | 8.10                                  | 8.5                                  | 19.0                               | 10.0                                | 86                                                             |
| JAN<br>27... | 0940 | 225                                             | 188                                               | 189                                                      | 7.30                           | 7.60                                  | 5.0                                  | 0.5                                | 11.2                                | 88                                                             |
| MAR<br>30... | 0850 | 94                                              | 278                                               | 246                                                      | 7.80                           | 8.20                                  | 17.0                                 | 18.0                               | 11.2                                | 118                                                            |
| MAY<br>25... | 0745 | 60                                              | 272                                               | 283                                                      | 7.70                           | 7.70                                  | 19.0                                 | 19.5                               | 6.4                                 | 71                                                             |
| JUL<br>27... | 0900 | 31                                              | 258                                               | 256                                                      | 7.70                           | 7.80                                  | 24.0                                 | 28.0                               | 6.1                                 | 74                                                             |
| SEP<br>27... | 1320 | 52                                              | 289                                               | 293                                                      | 7.50                           | 7.80                                  | 22.0                                 | 23.5                               | 6.8                                 | 79                                                             |

| DATE         | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| NOV<br>23... | 5.0                          | 1.4                                                            | 130                                              | 130                                             | 17                                                                | 113                                                             | 0.260                                                | 0.020                                                | 0.080                                       | 3.2                                           |
| JAN<br>27... | 9.0                          | 1.1                                                            | 330                                              | 90                                              | 17                                                                | 73                                                              | 1.02                                                 | 0.040                                                | 0.060                                       | 1.6                                           |
| MAR<br>30... | 3.0                          | 0.7                                                            | 35                                               | 130                                             | 25                                                                | 105                                                             | 0.230                                                | 0.130                                                | 0.040                                       | 2.4                                           |
| MAY<br>25... | 5.0                          | 1.1                                                            | 110                                              | 140                                             | 22                                                                | 118                                                             | 0.460                                                | 0.080                                                | 0.070                                       | 2.0                                           |
| JUL<br>27... | 11                           | 1.1                                                            | 220                                              | 93                                              | 0                                                                 | 110                                                             | 0.580                                                | 0.060                                                | 0.090                                       | 2.2                                           |
| SEP<br>27... | 10                           | 2.0                                                            | 110                                              | 150                                             | 27                                                                | 123                                                             | 0.640                                                | 0.100                                                | 0.070                                       | 2.3                                           |

## 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 mi<sup>2</sup>.

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

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>WATER<br>(DEG C) | TEMPER-<br>ATURE<br>AIR<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) |
|-------|------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1505 | 37                                              | 360                                               | 373                                                      | 7.70                           | 7.50                                  | 14.0                                 | 21.0                               | 5.6                                 | 56                                                             |
| NOV   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 23... | 1400 | 43                                              | 340                                               | 339                                                      | 7.90                           | 8.00                                  | 8.5                                  | 19.0                               | 9.3                                 | 81                                                             |
| JAN   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1015 | 206                                             | 242                                               | 235                                                      | 7.60                           | 7.80                                  | 6.0                                  | 0.5                                | 10.7                                | 86                                                             |
| MAR   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 30... | 0930 | 55                                              | 280                                               | 297                                                      | 7.60                           | 7.90                                  | 16.0                                 | 19.5                               | 8.1                                 | 83                                                             |
| MAY   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 25... | 0815 | 40                                              | 325                                               | 337                                                      | 7.50                           | 7.50                                  | 19.5                                 | 19.5                               | 4.5                                 | 50                                                             |
| JUL   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 0815 | 20                                              | 395                                               | 391                                                      | 7.50                           | 7.50                                  | 24.0                                 | 27.5                               | 3.6                                 | 44                                                             |
| SEP   |      |                                                 |                                                   |                                                          |                                |                                       |                                      |                                    |                                     |                                                                |
| 27... | 1340 | 52                                              | 300                                               | 295                                                      | 7.60                           | 7.90                                  | 22.0                                 | 23.5                               | 6.3                                 | 73                                                             |

| DATE  | TUR-<br>BID-<br>ITY<br>(FTU) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(LOW<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>EC<br>BROTH<br>(MPN) | HARD-<br>NESS<br>TOTAL<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS<br>NONCARB<br>WAT<br>TOT LAB<br>MG/L AS<br>CAC03 | ALKA-<br>LINITY<br>WAT WH<br>TOT FET<br>LAB<br>MG/L AS<br>CAC03 | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) |
|-------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| OCT   |                              |                                                                |                                                                |                                                  |                                                 |                                                                |                                                                 |                                                                   |
| 27... | 5.0                          | --                                                             | 1.8                                                            | --                                               | 130                                             | 0                                                              | 145                                                             | 1                                                                 |
| NOV   |                              |                                                                |                                                                |                                                  |                                                 |                                                                |                                                                 |                                                                   |
| 23... | 4.0                          | --                                                             | 1.5                                                            | 110                                              | 130                                             | 0                                                              | 130                                                             | 7                                                                 |
| JAN   |                              |                                                                |                                                                |                                                  |                                                 |                                                                |                                                                 |                                                                   |
| 27... | 11                           | --                                                             | 1.3                                                            | 790                                              | 100                                             | 5                                                              | 95                                                              | 14                                                                |
| MAR   |                              |                                                                |                                                                |                                                  |                                                 |                                                                |                                                                 |                                                                   |
| 30... | 5.0                          | --                                                             | 0.8                                                            | 80                                               | 130                                             | 1                                                              | 129                                                             | 16                                                                |
| MAY   |                              |                                                                |                                                                |                                                  |                                                 |                                                                |                                                                 |                                                                   |
| 25... | 7.0                          | --                                                             | 1.7                                                            | 330                                              | 60                                              | 0                                                              | 126                                                             | 9                                                                 |
| JUL   |                              |                                                                |                                                                |                                                  |                                                 |                                                                |                                                                 |                                                                   |
| 27... | 9.0                          | --                                                             | 1.6                                                            | 170                                              | 160                                             | 40                                                             | 120                                                             | 16                                                                |
| SEP   |                              |                                                                |                                                                |                                                  |                                                 |                                                                |                                                                 |                                                                   |
| 27... | 7.0                          | 14                                                             | 1.9                                                            | 790                                              | 87                                              | 0                                                              | 144                                                             | 6                                                                 |

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHOROUS<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|
| OCT   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | 0.260                                                | 0.050                                                | --                                                   | --                                                                 | --                                        | 1.46                                        | --                                            |
| NOV   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 23... | 0.270                                                | 0.040                                                | --                                                   | --                                                                 | --                                        | 1.18                                        | 4.6                                           |
| JAN   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | 1.33                                                 | 0.050                                                | --                                                   | --                                                                 | --                                        | 0.200                                       | 4.8                                           |
| MAR   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 30... | 0.520                                                | 0.060                                                | --                                                   | --                                                                 | --                                        | 0.250                                       | 2.8                                           |
| MAY   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 25... | 1.11                                                 | 0.080                                                | --                                                   | --                                                                 | --                                        | 0.500                                       | 3.7                                           |
| JUL   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | 1.14                                                 | 0.040                                                | --                                                   | --                                                                 | --                                        | 1.09                                        | 6.6                                           |
| SEP   |                                                      |                                                      |                                                      |                                                                    |                                           |                                             |                                               |
| 27... | 1.00                                                 | 0.100                                                | 0.40                                                 | 0.50                                                               | 1.5                                       | 0.890                                       | 10                                            |



## 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 mi<sup>2</sup>.

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.--9 years, 222 ft<sup>3</sup>/s, 20.23 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft<sup>3</sup>/s, Aug. 17, 1982, gage height, 20.73 ft; minimum daily discharge, 11 ft<sup>3</sup>/s, Aug. 17-18, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Jan. 20 | 0145 | *3,930                            | *13.67              | No other peak greater than base discharge. |      |                                   |                     |

Minimum daily discharge, 11 ft<sup>3</sup>/s, Aug. 17-18.

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     | 15   | 17   | 20   | 56   | 75   | 53   | 47   | 63   | 29   | 12   | 15   | 19   |
| 2     | 15   | 16   | 19   | 62   | 90   | 51   | 69   | 57   | 28   | 12   | 13   | 17   |
| 3     | 14   | 17   | 19   | 62   | 197  | 49   | 72   | 55   | 27   | 13   | 14   | 17   |
| 4     | 14   | 17   | 18   | 83   | 183  | 50   | 73   | 54   | 25   | 13   | 17   | 88   |
| 5     | 13   | 17   | 17   | 83   | 166  | 50   | 69   | 50   | 25   | 16   | 14   | 135  |
| 6     | 13   | 16   | 17   | 68   | 145  | 47   | 67   | 45   | 23   | 17   | 26   | 66   |
| 7     | 14   | 17   | 17   | 68   | 130  | 45   | 63   | 42   | 22   | 15   | 96   | 44   |
| 8     | 14   | 17   | 17   | 62   | 119  | 43   | 58   | 39   | 21   | 13   | 38   | 36   |
| 9     | 14   | 17   | 17   | 54   | 107  | 49   | 54   | 41   | 20   | 12   | 50   | 30   |
| 10    | 15   | 25   | 17   | 49   | 94   | 93   | 51   | 171  | 20   | 12   | 31   | 26   |
| 11    | 14   | 22   | 17   | 46   | 84   | 125  | 52   | 133  | 19   | 13   | 20   | 24   |
| 12    | 15   | 21   | 17   | 46   | 79   | 116  | 670  | 94   | 18   | 16   | 19   | 304  |
| 13    | 15   | 19   | 17   | 112  | 70   | 178  | 559  | 72   | 18   | 16   | 18   | 434  |
| 14    | 14   | 18   | 19   | 151  | 64   | 175  | 377  | 61   | 17   | 16   | 16   | 169  |
| 15    | 15   | 17   | 30   | 116  | 119  | 153  | 285  | 54   | 16   | 14   | 13   | 117  |
| 16    | 15   | 18   | 30   | 95   | 178  | 136  | 233  | 48   | 16   | 12   | 12   | 96   |
| 17    | 15   | 34   | 27   | 173  | 143  | 121  | 196  | 45   | 15   | 12   | 11   | 731  |
| 18    | 15   | 37   | 23   | 563  | 131  | 110  | 212  | 44   | 29   | 14   | 11   | 610  |
| 19    | 15   | 28   | 21   | 713  | 127  | 102  | 390  | 40   | 33   | 15   | 14   | 306  |
| 20    | 19   | 24   | 21   | 2470 | 123  | 88   | 412  | 39   | 21   | 14   | 14   | 218  |
| 21    | 20   | 21   | 21   | 774  | 105  | 77   | 320  | 37   | 21   | 15   | 72   | 165  |
| 22    | 20   | 19   | 23   | 444  | 92   | 69   | 265  | 36   | 18   | 14   | 42   | 132  |
| 23    | 18   | 19   | 22   | 310  | 85   | 62   | 222  | 38   | 16   | 14   | 26   | 107  |
| 24    | 17   | 19   | 32   | 238  | 79   | 58   | 197  | 48   | 15   | 14   | 361  | 90   |
| 25    | 17   | 18   | 56   | 203  | 71   | 56   | 159  | 61   | 14   | 14   | 134  | 80   |
| 26    | 17   | 18   | 50   | 173  | 65   | 57   | 136  | 47   | 14   | 13   | 56   | 69   |
| 27    | 19   | 18   | 83   | 145  | 63   | 53   | 119  | 40   | 13   | 17   | 40   | 61   |
| 28    | 19   | 21   | 167  | 126  | 60   | 50   | 96   | 37   | 12   | 15   | 32   | 54   |
| 29    | 17   | 22   | 121  | 108  | 56   | 47   | 80   | 34   | 12   | 16   | 27   | 49   |
| 30    | 17   | 21   | 82   | 93   | ---  | 46   | 71   | 32   | 12   | 18   | 23   | 45   |
| 31    | 17   | ---  | 61   | 82   | ---  | 46   | ---  | 30   | ---  | 19   | 21   | ---  |
| TOTAL | 491  | 610  | 1118 | 7828 | 3100 | 2455 | 5674 | 1687 | 589  | 446  | 1296 | 4339 |
| MEAN  | 15.8 | 20.3 | 36.1 | 253  | 107  | 79.2 | 189  | 54.4 | 19.6 | 14.4 | 41.8 | 145  |
| MAX   | 20   | 37   | 167  | 2470 | 197  | 178  | 670  | 171  | 33   | 19   | 361  | 731  |
| MIN   | 13   | 16   | 17   | 46   | 56   | 43   | 47   | 30   | 12   | 12   | 11   | 17   |
| CFSM  | .11  | .14  | .24  | 1.70 | .72  | .53  | 1.27 | .37  | .13  | .10  | .28  | .97  |
| IN.   | .12  | .15  | .28  | 1.95 | .77  | .61  | 1.42 | .42  | .15  | .11  | .32  | 1.08 |

|             |       |       |      |      |     |      |     |    |      |      |    |       |
|-------------|-------|-------|------|------|-----|------|-----|----|------|------|----|-------|
| CAL YR 1987 | TOTAL | 63479 | MEAN | 174  | MAX | 5810 | MIN | 13 | CFSM | 1.17 | IN | 15.85 |
| WTR YR 1988 | TOTAL | 29633 | MEAN | 81.0 | MAX | 2470 | MIN | 11 | CFSM | .54  | IN | 7.40  |

## 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 mi<sup>2</sup>.

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 ft<sup>3</sup>/s-days, of which 59,100 ft<sup>3</sup>/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 ft<sup>3</sup>/s-days Apr. 20, 1943, elevation, 1,780.50 ft; maximum elevation, 1,781.47 ft May 28, 1973; minimum (after first filling), 200 ft<sup>3</sup>/s-days Oct. 6, 1947, elevation, 1638.6 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 62,000 ft<sup>3</sup>/s-days June 6, elevation, 1,765.60 ft; minimum, 39,200 ft<sup>3</sup>/s-days Jan. 15, elevation, 1,746.83 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(cfs-days) | Change in contents |                                          |
|---------------|---------------------|------------------------|--------------------|------------------------------------------|
|               |                     |                        | (cfs-days)         | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 1760.79             | 55200                  | -                  | -                                        |
| Oct. 31.....  | 1756.03             | 49200                  | -6000              | -194                                     |
| Nov. 30.....  | 1752.94             | 45600                  | -3600              | -120                                     |
| Dec. 31.....  | 1750.82             | 43300                  | -2300              | -74                                      |
| CAL YR 1987   | -                   | -                      | +200               | +1                                       |
| Jan. 31.....  | 1752.92             | 45600                  | +2300              | +74                                      |
| Feb. 29.....  | 1754.66             | 47800                  | +2200              | +76                                      |
| Mar. 31.....  | 1757.00             | 50400                  | +2600              | +84                                      |
| Apr. 30.....  | 1763.81             | 59400                  | +9000              | +300                                     |
| May 31.....   | 1765.51             | 61800                  | +2400              | +77                                      |
| June 30.....  | 1763.73             | 59200                  | -2600              | -87                                      |
| July 31.....  | 1760.23             | 54400                  | -4800              | -155                                     |
| Aug. 31.....  | 1756.10             | 49300                  | -5100              | -165                                     |
| Sept. 30..... | 1755.00             | 48000                  | -1300              | -43                                      |
| WTR YR 1988   | -                   | -                      | -7200              | -20                                      |

## 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 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1930 to current year (prior to Aug. 16, 1939, only midnight readings available).

GAGE.--Water-stage recorder. Datum of gage is at 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 ft<sup>3</sup>/s-days, of which 92,800 ft<sup>3</sup>/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 ft<sup>3</sup>/s-days Feb. 11, 1946, elevation, 1,691.54 ft; minimum (after first filling), 6,500 ft<sup>3</sup>/s-days Jan. 16, 1956, elevation, 1,587.75 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 86,400 ft<sup>3</sup>/s-days May 30, elevation, 1,683.38 ft; minimum, 35,200 ft<sup>3</sup>/s-days Sept. 30, elevation, 1,641.37 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| Date          | Elevation<br>(feet) | Contents<br>(cfs-days) | Change in contents |                                          |
|---------------|---------------------|------------------------|--------------------|------------------------------------------|
|               |                     |                        | (cfs-days)         | (equivalent in cubic<br>feet per second) |
| Sept. 30..... | 1662.80             | 57700                  | -                  | -                                        |
| Oct. 31.....  | 1653.71             | 47400                  | -10300             | -332                                     |
| Nov. 30.....  | 1656.34             | 50200                  | +2800              | +93                                      |
| Dec. 31.....  | 1660.41             | 54800                  | +4600              | +148                                     |
| CAL YR 1987   | -                   | -                      | -2700              | -7                                       |
| Jan. 31.....  | 1664.17             | 59300                  | +4500              | +145                                     |
| Feb. 29.....  | 1664.28             | 59500                  | +200               | +7                                       |
| Mar. 31.....  | 1670.10             | 67000                  | +7500              | +242                                     |
| Apr. 30.....  | 1680.02             | 81200                  | +14200             | +473                                     |
| May 31.....   | 1683.16             | 86000                  | +4800              | +155                                     |
| June 30.....  | 1677.93             | 78100                  | -7900              | -263                                     |
| July 31.....  | 1671.59             | 69000                  | -9100              | -294                                     |
| Aug. 31.....  | 1663.82             | 58900                  | -10100             | -326                                     |
| Sept. 30..... | 1641.37             | 35200                  | -23700             | -790                                     |
| WTR YR 1988   | -                   | -                      | -22500             | -61                                      |

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 1988

| Station no.          | Station name                               | Location                                                                                                                                               | Drainage area (mi <sup>2</sup> ) | Period of record | Annual maximum   |                    |                                 |
|----------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|------------------|--------------------|---------------------------------|
|                      |                                            |                                                                                                                                                        |                                  |                  | Date             | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| Savannah River Basin |                                            |                                                                                                                                                        |                                  |                  |                  |                    |                                 |
| 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                             | 1964-88          | 02-04-88         | 3.71               | 204                             |
| 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                             | 1984-88          | 03-20-86<br>1988 | 7.79<br>(b)        | 294a<br><130                    |
| 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. | 0.66                             | 1979-88          | 05-24-88         | 7.65               | (†)                             |
| 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                             | 1979-88          | 04-23-88         | 8.08               | (†)                             |
| 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.                                         | 1.44                             | 1979-88          | 05-24-88         | 4.94               | 158                             |
| 02196760             | Rocky Creek tributary at Augusta, Ga.      | Lat 33°27'07", long 82°02'57", Richmond County, Hydrologic Unit 03060106, at culvert on U.S. Highways 78 and 278 at Augusta.                           | 1.56                             | 1979-88          | 04-23-88         | 5.13               | 345                             |
| 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                             | 1963-88          | 09-09-88         | 3.84               | 216                             |

a Revised.

b Peak stage did not reach bottom of gage.

† Discharge not determined.

## Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1988--Continued

| Station no.          | Station name                                                                             | Location                                                                                                                                      | Drainage area (mi <sup>2</sup> ) | Period of record | Annual maximum                               |                                  |                                  |
|----------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|----------------------------------------------|----------------------------------|----------------------------------|
|                      |                                                                                          |                                                                                                                                               |                                  |                  | Date                                         | Gage height (feet)               | Dis-charge (ft <sup>3</sup> /s)  |
| 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, 1984-88    | 05-04-84<br>02-06-85<br>01-20-87<br>04-12-88 | 15.99<br>18.25<br>12.85<br>11.32 | 4,580<br>5,670<br>3,100<br>2,460 |
| 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                              | 1979-88          | 04-23-86<br>04-19-88                         | 9.60<br>9.86                     | a680<br>770                      |
| 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                             | 1965-88          | 02-27-87<br>04-12-88                         | 5.59<br>3.00                     | a398<br>103                      |
| 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.                        | 5.39                             | 1979-88          | 08-30-88                                     | 2.89                             | 161                              |
| 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.                            | 0.95                             | 1979-88          | 08-30-88                                     | 6.31                             | 172                              |
| 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                              | 1979-88          | 08-11-88                                     | 3.53                             | 75                               |
| Altamaha River Basin |                                                                                          |                                                                                                                                               |                                  |                  |                                              |                                  |                                  |
| 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                             | 1974-88          | 01-20-88                                     | 4.43                             | 640                              |
| 02203845             | Shoal Creek tributary near Atlanta, Ga.                                                  | Lat 33°43'05", long 84°15'45", DeKalb County, Hydrologic Unit 03070103, at culvert on Glendale Drive near Atlanta.                            | .84                              | 1973-78, 1980-88 | 1988                                         | (b)                              | <150                             |
| 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, 1980-88 | 04-23-88                                     | 4.92                             | 493                              |
| 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                              | 1977-88          | 1988                                         | (b)                              | <6                               |
| 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                             | 1979-88          | 02-20-88                                     | 5.65                             | (t)                              |
| 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                             | 1979-88          | 02-20-88                                     | 4.54                             | (t)                              |

a Revised.

b Peak did not reach bottom of gage.

t Discharge not determined.

## 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 1988--Continued

| Station no.                     | Station name                                                                                          | Location                                                                                                                                   | Drainage area (mi <sup>2</sup> ) | Period of record    | Annual maximum                                           |                                           |                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|----------------------------------------------------------|-------------------------------------------|---------------------------------------------|
|                                 |                                                                                                       |                                                                                                                                            |                                  |                     | Date                                                     | Gage height (feet)                        | Dis-charge (ft <sup>3</sup> /s)             |
| Altamaha River Basin--Continued |                                                                                                       |                                                                                                                                            |                                  |                     |                                                          |                                           |                                             |
| 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                             | 1965-88             | 02-19-88                                                 | 1.53                                      | 19                                          |
| 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                              | 1984-88             | 04-17-88                                                 | 6.11                                      | 637                                         |
| 02217380                        | Mulberry River near Winder, Ga.                                                                       | Lat 34°03'08", long 83°39'49", Barrow-Jackson County line, Hydrologic Unit 03070101, at State Highway 11, 4.5 miles northeast of Winder.   | 142                              | 1976, 1984-88       | 01-20-88                                                 | 9.31                                      | 1,670                                       |
| 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                             | 1965-88             | 01-20-88                                                 | 2.44                                      | 269                                         |
| 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                             | 1979-88             | 03-10-88                                                 | 9.01                                      | 419                                         |
| 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.                             | 0.42                             | 1979-88             | 11-10-87                                                 | 7.76                                      | 359                                         |
| 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                             | 1985-88             | 02-27-84<br>02-06-85<br>03-20-86<br>03-01-87<br>04-12-88 | 13.00<br>14.75<br>11.49<br>13.61<br>10.14 | a1,850<br>a2,550<br>a1,330<br>a2,080<br>940 |
| 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.     | c.50                             | 1978-88             | 02-15-88                                                 | 1.26                                      | 8                                           |
| 02224100                        | Turkey Creek near Dublin, Ga.                                                                         | Lat 32°27'21", long 82°56'32" (revised), Laurens County, Hydrologic Unit 03070102, at U.S. Highways 319 and 441, 5 miles south of Dublin.  | 316                              | 1984-88             | 1988                                                     | (b)                                       | <1,000                                      |
| 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, 1980-88 | 1988                                                     | (b)                                       | <2,300                                      |
| 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                             | 1965-88             | 03-09-88                                                 | 2.94                                      | 70                                          |
| 02225350                        | Reedy Creek tributary (prior to 1985 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                             | 1965-88             | 1988                                                     | (b)                                       | <13                                         |

a Revised.

b Peak stage did not reach bottom of gage.

c Approximately.



## Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1988--Continued

| Station no.             | Station name                                                                                       | Location                                                                                                                             | Drainage area (mi <sup>2</sup> ) | Period of record | Annual maximum                   |                      |                                 |
|-------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|----------------------------------|----------------------|---------------------------------|
|                         |                                                                                                    |                                                                                                                                      |                                  |                  | Date                             | Gage height (feet)   | Dis-charge (ft <sup>3</sup> /s) |
| Satilla River Basin     |                                                                                                    |                                                                                                                                      |                                  |                  |                                  |                      |                                 |
| 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                             | 1978-88          | 08-06-88                         | 6.21                 | 513                             |
| 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.                     | 0.42                             | 1976-88          | 02-22-87<br>04-19-88             | 1.36<br>1.22         | a19<br>15                       |
| 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                              | 1977-88          | 02-22-87<br>02-19-88             | 1.81<br>1.25         | a37<br>17                       |
| 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                             | 1980-88          | 02-19-88                         | 7.42                 | 128                             |
| Suwannee River Basin    |                                                                                                    |                                                                                                                                      |                                  |                  |                                  |                      |                                 |
| 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                              | 1984-88          | 03-20-88                         | 13.32                | 3,520                           |
| 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                              | 1965-88          | 02-11-86<br>03-01-87<br>03-04-88 | 4.46<br>2.37<br>2.53 | a160<br>a61<br>67               |
| 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                             | 1965-88          | 03-05-88                         | 2.63                 | 235                             |
| 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                              | 1981-88          | 02-24-88                         | 14.72                | 5,740                           |
| 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                             | 1981-88          | 03-01-87<br>03-05-88             | 7.38<br>8.41         | a1,180<br>2,280                 |
| 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                             | 1977-88          | 03-04-88                         | 3.08                 | 169                             |

a Revised.



## Crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1988--Continued

| Station no.              | Station name                                            | Location                                                                                                                                            | Drainage area (mi <sup>2</sup> ) | Period of record            | Annual maximum |                    |                                 |
|--------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------|----------------|--------------------|---------------------------------|
|                          |                                                         |                                                                                                                                                     |                                  |                             | Date           | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| Apalachicola River Basin |                                                         |                                                                                                                                                     |                                  |                             |                |                    |                                 |
| 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                             | 1974-88                     | 01-20-88       | 11.13              | (†)                             |
| 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                             | 1974-88                     | 01-20-88       | 3.86               | 57                              |
| 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, 1980-88            | 02-02-88       | 4.77               | (†)                             |
| 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                              | 1974-88                     | 06-15-88       | 4.73               | 611                             |
| 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, 1980-88 | 01-20-88       | 5.13               | 358                             |
| 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                              | 1977-88                     | 01-20-88       | 4.24               | 29                              |
| 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                              | 1984-88                     | 1988           | (b)                | <1,400                          |
| 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                              | 1984-88                     | 01-20-88       | 10.61              | 1,800                           |
| 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                             | 1977-88                     | 01-20-88       | 3.64               | 255                             |
| 02341546                 | Bull Creek tributary at Columbus, Ga.                   | Lat 32°28'38", long 84°55'36", Muscogee County, Hydrologic Unit 03130003, at culvert on Woodland Drive at Columbus.                                 | 0.26                             | 1977-88                     | 01-20-88       | 3.27               | 43                              |
| 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                             | 1977-88                     | 07-21-88       | 6.27               | 462                             |
| 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                             | 1963-88                     | 01-17-88       | 5.83               | 316                             |

b Peak stage did not reach bottom of gage.

† 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 1988--Continued

| Station no.                         | Station name                                                                 | Location                                                                                                                                 | Drainage area (mi <sup>2</sup> ) | Period of record | Annual maximum                                           |                                         |                                            |
|-------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|----------------------------------------------------------|-----------------------------------------|--------------------------------------------|
|                                     |                                                                              |                                                                                                                                          |                                  |                  | Date                                                     | Gage height (feet)                      | Dis-charge (ft <sup>3</sup> /s)            |
| Apalachicola River Basin--Continued |                                                                              |                                                                                                                                          |                                  |                  |                                                          |                                         |                                            |
| 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                             | 1979-88          | 04-17-88                                                 | 5.12                                    | 268                                        |
| 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                             | 1979-88          | 02-04-88                                                 | 3.73                                    | <300                                       |
| 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                             | 1977-88          | 1988                                                     | (b)                                     | <75                                        |
| 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                             | 1984-88          | 04-17-88                                                 | 4.36                                    | (†)                                        |
| 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                             | 1978-88          | 04-17-88                                                 | 1.58                                    | 55                                         |
| 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, 1984-88    | 04-01-81<br>12-12-83<br>02-06-85<br>03-13-86<br>1988     | 14.42<br>12.90<br>14.96<br>15.50<br>(b) | 3,330<br>3,770<br>3,540<br>3,750<br><1,570 |
| 02346217                            | Coleoatchee Creek (formerly published as Celeoth Creek) near Manchester, Ga. | Lat 32°49'20", long 84°36'16", Talbot County, Hydrologic Unit 03130005, at State Highway 41,                                             | 2.82                             | 1969-86, 1988    | 1988                                                     | (b)                                     | <8                                         |
| 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                             | 1981-88          | 02-24-79<br>03-13-80<br>04-01-81<br>04-06-82<br>01-19-88 | 7.02<br>7.51<br>8.74<br>7.51<br>5.97    | a111<br>a141<br>a248<br>a141<br>64         |
| 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                             | 1980-88          | 01-20-88                                                 | 2.30                                    | 116                                        |
| 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.     | c0.40                            | 1977-88          | 02-04-88                                                 | 2.12                                    | <25                                        |
| 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                              | 1979-88          | 04-17-88                                                 | 4.13                                    | 146                                        |

a Revised.

b Peak did not reach bottom of gage.

c Approximately.

† Discharge not determined.

## 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 <sup>2</sup> ) | Period of record          | Annual maximum       |                    |                                 |
|-------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------|----------------------|--------------------|---------------------------------|
|                                     |                                                                                 |                                                                                                                                                               |                                  |                           | Date                 | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| Apalachicola River Basin--Continued |                                                                                 |                                                                                                                                                               |                                  |                           |                      |                    |                                 |
| 02349695                            | Horsehead Creek near Montezuma, Ga.                                             | Lat 32°21'28", long 83°56'11", Macon County, Hydrologic Unit 03130006, at culvert on State Highway 224, 8.7 miles northeast of Montezuma.                     | 0.72                             | 1977-88                   | 01-26-78<br>04-16-88 | 2.98<br>4.88       | a55<br>115                      |
| 02350685                            | Choctahatchee Creek tributary near Plains, Ga.                                  | Lat 32°02'02", long 84°25'59", Sumter County, Hydrologic Unit 03130007, at culvert on U.S. Highway 280, 2.4 miles west of Plains.                             | .32                              | 1977-88                   | 09-05-88             | 1.47               | 22                              |
| 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                              | 1981-88                   | 02-22-88             | 8.55               | 2,560                           |
| Mobile River Basin                  |                                                                                 |                                                                                                                                                               |                                  |                           |                      |                    |                                 |
| 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                             | 1965-88                   | 01-20-88             | 4.88               | 273                             |
| 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                              | 1984-88                   | 1988                 | (b)                | †                               |
| 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, 1984-88 | 01-20-88             | 8.37               | 1,410                           |
| 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                              | 1979-88                   | 01-19-88             | 4.10               | 77                              |
| 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.                                                 | .04                              | 1979-88                   | 08-20-88             | 1.82               | 6                               |
| 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                              | 1979-88                   | 01-19-88             | 4.69               | 113                             |
| 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††, 1983-88        | 01-20-88             | 11.20              | 4,260                           |
| 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.                    | .88                              | 1977-88                   | 01-20-88             | 3.18               | 189                             |
| 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                              | 1977-88                   | 01-20-88             | 3.21               | 40                              |

a Revised.

b Peak stage did not reach bottom of gage.

† Discharge not determined.

†† Operated as a continuous-record gaging station.

## 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 <sup>2</sup> ) | Period of record                          | Date     | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
|--------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------|----------|--------------------|---------------------------------|
| Savannah River Basin     |                                                                              |                                                                                                                                                                                  |                                  |                                           |          |                    |                                 |
| 02191300                 | Broad River above Carlton, Ga.<br>(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, 1986-88    | 01-21-88 | 12.55              | m6,190                          |
| Ogeechee River Basin     |                                                                              |                                                                                                                                                                                  |                                  |                                           |          |                    |                                 |
| 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.                                 | 1,940                            | 1938-71††, 1972-88                        | 04-30-88 | 7.13               | m2,700                          |
| 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.                                                | 99                               | 1951-79††, 1980-83†, 1984-88              | 02-04-88 | 8.05               | m2,640                          |
| 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†, 1983-88 | 01-21-88 | 11.60              | m3,260                          |
| Apalachicola River Basin |                                                                              |                                                                                                                                                                                  |                                  |                                           |          |                    |                                 |
| 02331000                 | Chattahoochee River near Leaf, Ga.                                           | Lat 34°34'37", long 83°38'09", Habersham County, Hydrologic Unit 03130001, at State Highway 115, 1.5 miles east of Leaf.                                                         | 150                              | 1940-71†, 1972-84, 1986-88                | 01-20-88 | 7.68               | m5,300                          |
| 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, 1987-88                | 01-21-88 | 5.67               | m750                            |
| 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†, 1983-88                         | 01-20-88 | 4.53               | m886                            |
| 03550500                 | Nottley River near Blairsville, Ga.                                          | Lat 34°50'28", long 83°56'10", Union County, Hydrologic Unit 06020002, on left bank 250 ft upstream 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                          |

a Approximately.

g Maximum gage heights computed from graph based on gage readings.

m Annual maximum.

† Operated as a continuous-record gaging station.

†† Operated as a crest-stage partial-record station.



## Base-flow discharge measurements--Continued

| Station no.                     | Station name                                         | Location                                                                                                                           | Drainage area (mi <sup>2</sup> ) | Period of record                                                 | Date     | Discharge (ft <sup>3</sup> /s) |
|---------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------|----------|--------------------------------|
| Savannah River Basin--Continued |                                                      |                                                                                                                                    |                                  |                                                                  |          |                                |
| 02191244                        | Nails Creek near Carnesville, Ga.                    | Lat 34°16'32", long 83°16'33", Franklin County, Hydrologic Unit 03060104, at State Highway 106, 7 miles south of Carnesville.      | 48.5                             | 1979-81, 1986-88                                                 | 07-27-88 | 12                             |
| 02191300                        | Broad River above Carlton, Ga.                       | Lat 34°04'24", long 83°00'12", Madison County, Hydrologic Unit 03060104, at State Highway 72, 2.5 miles northeast of Carlton.      | 757                              | 1897-1913†, 1943, 1953-54, 1959, 1962-70, 1978, 1981, 1986, 1988 | 07-28-88 | 174                            |
| 02191670                        | South Fork Broad River at Ila, Ga.                   | Lat 34°09'55", long 83°17'52", Madison County, Hydrologic Unit 03060104, at State Highway 106, at Ila.                             | 10.5                             | 1953, 1955, 1979-81, 1986-88                                     | 07-27-88 | 1.1                            |
| 02191700                        | South Fork Broad River near Comer, Ga.               | Lat 34°03'40", long 83°09'22", Madison County, Hydrologic Unit 03060104, at State Highway 72, 2 miles west of Comer.               | a89.4                            | 1951, 1953, 1955, 1959, 1962-68, 1970, 1986, 1988                | 07-28-88 | 8.4                            |
| 02191800                        | Falling Creek near Fortsonia, Ga.                    | Lat 34°00'10", long 82°48'32", Elbert County, Hydrologic Unit 03060104, at Road 50, 1.8 miles southwest of Fortsonia.              | 41.3                             | 1943, 1953, 1955, 1959-68, 1970, 1986, 1988                      | 07-27-86 | 2.0                            |
| 02191900                        | Long Creek near Lexington, Ga.                       | Lat 33°50'30", long 83°03'50", Oglethorpe County, Hydrologic Unit 03060104, at State Highway 10, 3.5 miles southeast of Lexington. | 31.4                             | 1943, 1953, 1955-56, 1959-68, 1970, 1986, 1988                   | 07-27-88 | 1.1                            |
| 02191970                        | Little Macks Creek near Lexington, Ga.               | Lat 33°56'09", long 82°57'41", Oglethorpe County, Hydrologic Unit 03060104, at State Highway 77, near Lexington.                   | a1.73                            | 1974-85†, 1986, 1988                                             | 07-27-88 | 0.23                           |
| 02191980                        | Clark Creek near Tignall, Ga.                        | Lat 33°53'50", long 82°48'45", Wilkes County, Hydrologic Unit 03060104, at Road 184, 3.5 miles northwest of Tignall.               | 42.3                             | 1943, 1953, 1955, 1979-81, 1986, 1988                            | 07-27-88 | .49                            |
| 02192435                        | Soap Creek near Lincolnton, Ga.                      | Lat 33°48'57", long 82°29'44", Lincoln County, Hydrologic Unit 03060103, at Road 263, 2 miles north of Lincolnton.                 | 16.8                             | 1974, 1979-81, 1986-88                                           | 07-27-88 | b.01                           |
| 02193240                        | South Fork Little River near Crawfordville, Ga.      | Lat 33°17'15", long 82°55'10", Taliaferro County, Hydrologic Unit 03060105, at State Highway 22, 4 miles north of Crawfordville.   | 46.1                             | 1951-53, 1979-80, 1982, 1986-88                                  | 07-27-88 | .68                            |
| 02193500                        | Little River near Washington, Ga.                    | Lat 33°36'40", long 82°44'40", Wilkes County, Hydrologic Unit 03060105, at Road 79, 6.5 miles south of Washington.                 | 292                              | 1950-71†, 1979-80, 1986, 1988                                    | 07-27-88 | 2.9                            |
| 02193560                        | Little River (State Highway 80) near Washington, Ga. | Lat 33°36'30", long 82°38'55", Wilkes County, Hydrologic Unit 03060105, at State Highway 80, 8.5 miles southeast of Washington.    | 357                              | 1986, 1988                                                       | 07-27-88 | 5.3                            |
| 02193780                        | Hart Creek near Thomson, Ga.                         | Lat 33°33'45", long 82°35'45", McDuffie County, Hydrologic Unit 03060105, at Road 308, 8.5 miles north of Thomson.                 | 17.4                             | 1943, 1951, 1953-55, 1979-80, 1986-88                            | 07-27-88 | 0.01                           |

† Operated as a continuous-record gaging station.

a Revised.

b Possibly affected by runoff.



## Base-flow discharge measurements--Continued

| Station no.                     | Station name                                         | Location                                                                                                                           | Drainage area (mi <sup>2</sup> ) | Period of record                                           | Date     | Discharge (ft <sup>3</sup> /s) |
|---------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------|----------|--------------------------------|
| Savannah River Basin--Continued |                                                      |                                                                                                                                    |                                  |                                                            |          |                                |
| 02194080                        | Germany Creek near Thomson, Ga.                      | Lat 33°33'44", long 82°28'06", McDuffie County, Hydrologic Unit 03060105, at Road 19, 6 miles northeast of Thomson.                | 25.8                             | 1974, 1979-80, 1986-88                                     | 07-27-88 | b0.15                          |
| 02195300                        | Greenbrier Creek near Appling, Ga.                   | Lat 33°34'30, long 82°19'02", Columbia County, Hydrologic Unit 03060106, at State Highway 47, 2 miles north of Appling.            | 33.4                             | 1943, 1951, 1953, 1955, 1959-68, 1970, 1986-88             | 07-27-88 | b1.4                           |
| Ogeechee River Basin            |                                                      |                                                                                                                                    |                                  |                                                            |          |                                |
| 02199700                        | South Fork Ogeechee River near Crawfordville, Ga.    | Lat 33°31'00", long 82°54'22", Taliaferro County, Hydrologic Unit 03060201, at State Highway 22, 2.8 miles south of Crawfordville. | 31.3                             | 1951, 1953, 1955, 1959-68, 1970, 1973, 1986, 1988          | 07-27-88 | .82                            |
| Altamaha River Basin            |                                                      |                                                                                                                                    |                                  |                                                            |          |                                |
| 02204300                        | Little Cotton Indian Creek near Stockbridge, Ga.     | Lat 33°31'26", long 84°11'41", Henry County, Hydrologic Unit 03070103, at State Highway 42, 2.5 miles southeast of Stockbridge.    | 50.0                             | 1943, 1951, 1953-54, 1958, 1960-68, 1970, 1973, 1986, 1988 | 07-28-88 | 9.4                            |
| 02204420                        | Walnut Creek (State Highway 155) near McDonough, Ga. | Lat 33°28'33", long 84°08'20", Henry County, Hydrologic Unit 03070103, at State Highway 155, 3.3 miles north of McDonough.         | 31.6                             | 1986, 1988                                                 | 07-28-88 | 2.0                            |
| 02205000                        | Wildcat Creek near Lawrenceville, Ga.                | Lat 34°00'08", long 84°00'18", Gwinnett County, Hydrologic Unit 03070103, at Road 109, 3.2 miles north of Lawrenceville.           | 1.59                             | 1954-82†, 1988                                             | 07-27-88 | .02                            |
| 02205320                        | Yellow River near Lawrenceville, Ga.                 | Lat 33°57'15", long 84°02'25", Gwinnett County, Hydrologic Unit 03070103, at Old Norcross Road, 3.0 miles west of Lawrenceville.   | 25.3                             | 1952, 1954-55, 1957, 1960, 1988                            | 07-27-88 | 1.6                            |
| 02207480                        | Gum Creek near Covington, Ga.                        | Lat 33°37'37", long 83°54'09", Newton County, Hydrologic Unit 03070103, at Road 512, 3.2 miles northwest of Covington.             | 31.4                             | 1955, 1988                                                 | 07-27-88 | 1.4                            |
| 02209640                        | Tussahaw Creek near Locust Grove, Ga.                | Lat 33°22'27", long 84°00'51", Henry County, Hydrologic Unit 03070103, at Jackson Road, 6 miles northeast of Locust Grove.         | 17.6                             | 1986, 1988                                                 | 07-28-88 | 2.8                            |
| 02209750                        | Tussahaw Creek near Jackson, Ga.                     | Lat 33°22'43", long 83°57'49", Butts County, Hydrologic Unit 03070103, at Road 290, 6 miles north of Jackson.                      | 59.2                             | 1955, 1974, 1977, 1979-80, 1982, 1986, 1988                | 07-28-88 | 7.7                            |
| 02211200                        | Big Sandy Creek near Flovilla, Ga.                   | Lat 33°11'16", long 83°50'09", Butts County, Hydrologic Unit 03070103, at State Highway 87, 5.8 miles southeast of Flovilla.       | 57                               | 1951, 1953-54, 1959-63, 1965-68, 1970, 1973, 1986, 1988    | 07-28-88 | 5.4                            |

† Operated as a continuous-record gaging station.

b Possibly affected by runoff.

## Base-flow discharge measurements--Continued

| Station no.                     | Station name                                                | Location                                                                                                                                        | Drainage area (mi <sup>2</sup> ) | Period of record                                           | Date     | Discharge (ft <sup>3</sup> /s) |
|---------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------|----------|--------------------------------|
| Altamaha River Basin--Continued |                                                             |                                                                                                                                                 |                                  |                                                            |          |                                |
| 02211300                        | Towaliga River near Jackson, Ga.                            | Lat 33°15'50", long 84°04'17", Butts County, Hydrologic Unit 03070103, at State Highway 16, 6.5 miles west of Jackson.                          | 105                              | 1960-71†, 1973, 1977, 1979-80, 1982, 1986, 1988            | 07-28-88 | 2.1                            |
| 02211445                        | Buck Creek (State Highway 36) near Barnesville, Ga.         | Lat 33°11'01", long 84°04'48", Lamar County, Hydrologic Unit 03070103, at U.S. Highway 36, 9 miles east of Barnesville.                         | 35.0                             | 1979, 1986, 1988                                           | 07-28-88 | 2.6                            |
| 02211460                        | Big Towaliga Creek (State Highway 7C) near Barnesville, Ga. | Lat 33°04'32", long 84°10'11", Lamar County, Hydrologic Unit 03070103, at State Highway 7C, 1.5 miles northwest of Barnesville.                 | 4.2                              | 1953-54, 1986, 1988                                        | 07-29-88 | 4.5                            |
| 02213300                        | Tobesofkee Creek near Forsyth, Ga.                          | Lat 33°01'03", long 84°01'08", Monroe County, Hydrologic Unit 03070103, at Road 118, 4.8 miles southwest of Forsyth.                            | 27.7                             | 1955, 1958, 1960-68, 1970, 1973, 1988                      | 07-28-88 | 3.8                            |
| *02213350                       | Tobesofkee Creek (State Highway 42) below Forsyth, Ga.      | Lat 32°59'37", long 83°56'41", Monroe County, Hydrologic Unit 03070103, at Forsyth water intake, at State Highway 42, 2 miles south of Forsyth. | 53.4                             | 1962, 1964, 1966, 1979, 1986, 1988                         | 07-27-88 | 2.2                            |
| 02213400                        | Little Tobesofkee Creek near Forsyth, Ga.                   | Lat 32°57'10", long 84°02'33", Monroe County, Hydrologic Unit 03070103, at State Highway 83, 8.2 miles southwest of Forsyth.                    | 16.8                             | 1943-44, 1955, 1958, 1960-68, 1970, 1973, 1986, 1988       | 07-28-88 | 0.15                           |
| 02213470                        | Tobesofkee Creek above Macon, Ga.                           | Lat 32°51'15", long 83°50'22", Bibb County, Hydrologic Unit 03070103, at State Highway 74, 8.0 miles west of Macon.                             | 156                              | 19667-71†, 1988                                            | 07-27-88 | 8.4                            |
| 02214000                        | Echeconnee Creek near Macon, Ga.                            | Lat 32°45'54", long 83°50'22", Bibb County, Hydrologic Unit 03070103, at Road 715, 13.0 miles southwest of Macon.                               | 147                              | 1937-43†, 1953, 1955, 1961, 1964-68, 1970, 1973, 1988      | 07-27-88 | 4.6                            |
| 02217000                        | Allen Creek at Talmo, Ga.                                   | Lat 34°11'34", long 83°43'11", Jackson County, Hydrologic Unit 03070101, at State Highway 11, at Talmo.                                         | 17.3                             | 1951-71†, 1979-81, 1986, 1988                              | 07-27-88 | 1.8                            |
| 02217200                        | Middle Oconee River near Jefferson, Ga.                     | Lat 34°05'46", long 83°36'23", Jackson County, Hydrologic Unit 03070101, at State Highway 11, 2.2 miles southwest of Jefferson.                 | 135                              | 1951, 1953, 1955, 1959, 1961, 1963-68, 1970, 1986, 1988    | 07-27-88 | 7.4                            |
| 02217300                        | Cedar Creek near Winder, Ga.                                | Lat 34°00'43", long 83°44'19", Barrow County, Hydrologic Unit 03070101, at Road 327, 1.8 miles west of Winder.                                  | a6.18                            | 1959-68, 1970, 1986, 1988                                  | 07-27-88 | .04                            |
| 02217600                        | North Oconee River near Maysville, Ga.                      | Lat 34°13'49", long 83°34'07", Jackson County, Hydrologic Unit 03070101, at Road 253, 1.5 miles south of Maysville.                             | 79.5                             | 1943, 1951, 1953, 1955, 1959-61, 1963-68, 1970, 1986, 1988 | 07-27-88 | 14                             |

\* Also a crest-stage partial-record station.

† Operated as a continuous-record gaging station.

a Revised.

## Base-flow discharge measurements--Continued

| Station no.                     | Station name                                                        | Location                                                                                                                                                   | Drainage area (mi <sup>2</sup> ) | Period of record                          | Date                 | Discharge (ft <sup>3</sup> /s) |
|---------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------|----------------------|--------------------------------|
| Altamaha River Basin--Continued |                                                                     |                                                                                                                                                            |                                  |                                           |                      |                                |
| 02217650                        | Curry Creek at Jefferson, Ga.                                       | Lat 34°07'30", long 83°34'06", Jackson County, Hydrologic Unit 03070101, at Jefferson water intake, near State Highway 82, at Jefferson.                   | 10.2                             | 1986, 1988                                | 07-27-88             | 0.47                           |
| 02218700                        | Apalachee River near Bethlehem, Ga.                                 | Lat 33°54'02", long 83°43'25", Barrow County, Hydrologic Unit 03070101, at State Highway 11 2.5 miles south of Bethlehem.                                  | c54                              | 1943, 1954-55, 1959-68, 1970, 1986, 1988  | 07-28-88             | 6.8                            |
| 02219250                        | Hard Labor Creek near Madison, Ga.                                  | Lat 33°38'15", long 83°29'24", Morgan County, Hydrologic Unit 03070101, at State Highway 83, 4 miles north of Madison.                                     | a69.3                            | 1967, 1979-80, 1982, 1986, 1988           | 07-27-88             | 2.2                            |
| 02221000                        | Murder Creek near Monticello, Ga.                                   | Lat 33°24'56", long 83°39'43", Jasper County, Hydrologic Unit 03070101, at Road 362, 7 miles north of Monticello.                                          | 24.0                             | 1952-71†, 1972, 1979-80, 1982, 1986, 1988 | 07-27-88             | .71                            |
| 02221720                        | Big Cedar Creek near Gray, Ga.                                      | Lat 33°07'43", long 83°31'14", Jones County, Hydrologic Unit 03070101, at Forest Service Road 1040, 8.3 miles north of Gray.                               | 81.5                             | 1955, 1988                                | 07-27-88             | .46                            |
| 02223850                        | Turkey Creek at Allentown, Ga.                                      | Lat 32°36'41", long 83°11'26", Wilkinson County, Hydrologic Unit 03070102, at State Highway 112, 1 mile northeast of Allentown.                            | 48.9                             | 1979-80, 1986-88                          | 07-28-88             | b1.2                           |
| 02224000                        | Rocky Creek near Dudley, Ga.                                        | Lat 32°29'38", long 83°08'49", Laurens County, Hydrologic Unit 03070102, at Road 352, 5 miles southwest of Dudley.                                         | 62.9                             | 1952-76†, 1979-80, 1986-88                | 07-11-88<br>07-28-88 | 0<br>.97                       |
| *02224100                       | Turkey Creek (formerly published as "at Garretta") near Dublin, Ga. | Lat 32°27'21", long 82°56'32", Laurens County, Hydrologic Unit 03070102, at State Highway 319 and 441, 5 miles south of Dublin.                            | 316                              | 1951, 1961, 1964-68, 1973, 1986-88        | 07-28-88             | b13                            |
| Apalachicola River Basin        |                                                                     |                                                                                                                                                            |                                  |                                           |                      |                                |
| 02330487                        | Bean Creek near Helen, Ga.                                          | Lat 34°41'56", long 83°40'05", White County, Hydrologic Unit 03130001, at State Highway 255, 3.1 miles east of Helen.                                      | 3.61                             | 1988                                      | 08-18-88             | 2.3                            |
| 02331000                        | Chattahoochee River near Leaf, Ga.                                  | Lat 34°34'37", long 83°38'09", White-Habersham County line, Hydrologic Unit 03130001, 600 feet upstream from State Highway 115, 6 miles east of Cleveland. | 150                              | 1940-71†, 1979-80, 1986, 1988             | 08-19-88             | 85                             |
| 02331200                        | Soque River (State Highway 197) near Clarkesville, Ga.              | Lat 34°40'45", long 83°31'57", Habersham County, Hydrologic Unit 03130001, at State Highway 197, 4 miles northwest of Clarkesville.                        | 52.9                             | 1986, 1988                                | 08-18-88             | 36                             |
| 02331244                        | Deep Creek near Clarkesville, Ga.                                   | Lat 34°39'54", long 83°28'16", Habersham County, Hydrologic Unit 03130001, at Road 212, 4.6 miles northeast of Clarkesville.                               | 11.8                             | 1988                                      | 08-18-88             | 5.7                            |
| 02331245                        | Liberty Creek near Clarkesville, Ga.                                | Lat 34°40'33", long 83°29'30", Habersham County, Hydrologic Unit 03130001, at Road 392, 4.6 miles northeast of Clarkesville.                               | 2.75                             | 1988                                      | 08-18-88             | 1.5                            |

\* Also, a crest-stage partial-record station.

† Operated as a continuous-record gaging station.

a Revised.

b Possibly affected by runoff.

c Approximately.

## Base-flow discharge measurements--Continued

| Station no.                         | Station name                                         | Location                                                                                                                          | Drainage area (mi <sup>2</sup> ) | Period of record                                        | Date     | Discharge (ft <sup>3</sup> /s) |
|-------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|----------|--------------------------------|
| Apalachicola River Basin--Continued |                                                      |                                                                                                                                   |                                  |                                                         |          |                                |
| 02331300                            | Sutton Mill Creek near Clarkesville, Ga.             | Lat 34°37'36", long 83°32'23", Habersham County, Hydrologic Unit 03130001, at Road 174, 1 mile northwest of Clarkesville.         | 3.96                             | 1959, 1961, 1963-68, 1970, 1986, 1988                   | 08-18-88 | 1.9                            |
| 02331500                            | Soque River near Demorest, Ga.                       | Lat 34°34'23", long 83°35'27", Habersham County, Hydrologic Unit 03130001, at State Highway 105, 1.5 miles east of Demorest.      | 156                              | 1904-09†, 1929-32†, 1940-52†, 1986, 1988                | 08-18-88 | 17                             |
| 02332200                            | Flat Creek near Clermont, Ga.                        | Lat 34°26'57", long 83°45'51", Hall County, Hydrologic Unit 03130001, at State Highway 52, 1 mile south of Clermont.              | c9.0                             | 1957, 1959, 1961, 1963-68, 1970, 1975, 1986, 1988       | 08-18-88 | 2.0                            |
| 02333310                            | Tesnatee Creek near Cleveland, Ga.                   | Lat 34°36'44", long 83°46'41", White County, Hydrologic Unit 03130001, at U.S. Highway 129, 0.5 mile northwest of Cleveland.      | a8.7                             | 1953, 1955, 1979-82, 1986, 1988                         | 08-18-88 | 4.3                            |
| 02333370                            | Cathay Creek near Cleveland, Ga.                     | Lat 34°37'46", long 83°48'02", White County, Hydrologic Unit 03130001, at State Highway 356, 3.1 miles northwest of Cleveland.    | 3.04                             | 1988                                                    | 08-18-88 | 1.3                            |
| 02333400                            | Turner Creek (U.S. Highway 129) near Cleveland, Ga.  | Lat 34°36'49", long 83°47'26", White County, Hydrologic Unit 03130001, at U.S. Highway 129, 1.3 miles northwest of Cleveland.     | a8.6                             | 1986, 1988                                              | 08-19-88 | 4.1                            |
| 02333460                            | Tesnatee Creek (County Road 200) near Cleveland, Ga. | Lat 34°35'00", long 83°49'22", White County, Hydrologic Unit 03130001, at Road 200, 3.5 miles west of Cleveland.                  | a54.0                            | 1988                                                    | 08-18-88 | 26                             |
| 02333600                            | Yahoola Creek at Dahlonga, Ga.                       | Lat 34°32'41", long 83°58'08", Lumpkin County, Hydrologic Unit 03130001, at State Highway 52, at Dahlonga.                        | a31.1                            | 1951, 1953, 1955, 1959, 1961-68, 1959, 1970, 1986, 1988 | 08-18-88 | 14                             |
| 02334480                            | Richland Creek near Buford, Ga.                      | Lat 34°07'57", long 84°04'13", Gwinnett County, Hydrologic Unit 03130001, at Suwanee-Buford Dam Road, 2.0 miles west of Buford.   | 8.7                              | 1987-88                                                 | 07-21-88 | 1.0                            |
| 02334520                            | James Creek near Cumming, Ga.                        | Lat 34°07'30", long 84°06'11", Forsyth County, Hydrologic Unit 03130001, at James Burgess Road, 6.3 miles southeast of Cumming.   | 13.5                             | 1986-88                                                 | 07-21-88 | 1.3                            |
| 02334580                            | Level Creek near Suwanee, Ga.                        | Lat 34°05'03", long 84°05'39", Gwinnett County, Hydrologic Unit 03130001, at Settles Bridge Road, 2.5 miles northwest of Suwanee. | a8.33                            | 1986-88                                                 | 07-21-88 | 0.24                           |
| 02334620                            | Dick Creek near Suwanee, Ga.                         | Lat 34°04'17", long 84°07'49", Forsyth County, Hydrologic Unit 03130001, at Sharon Road, 3.5 miles northwest of Suwanee.          | 6.4                              | 1986-88                                                 | 07-21-88 | .20                            |
| 02335080                            | Johns Creek near Duluth, Ga.                         | Lat 34°00'40", long 84°13'11", Fulton County, Hydrologic Unit 03130001, at Old Alabama Road, 4.5 miles west of Duluth.            | 12.3                             | 1986-88                                                 | 07-21-88 | .73                            |

† Operated as a continuous-record gaging station.

a Revised.

c Approximately.

## Base-flow discharge measurements--Continued

| Station no.                         | Station name                                                                | Location                                                                                                                                         | Drainage area (mi <sup>2</sup> ) | Period of record                                                                | Date     | Discharge (ft <sup>3</sup> /s) |
|-------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------|----------|--------------------------------|
| Apalachicola River Basin--Continued |                                                                             |                                                                                                                                                  |                                  |                                                                                 |          |                                |
| 02335740                            | Big Creek at Roswell, Ga.                                                   | Lat 34°01'03", long 84°21'11",<br>Fulton County, Hydrologic Unit<br>03130001, Roswell Water Works<br>intake, 0.6 miles east of Roswell.          | a103                             | 1986-88                                                                         | 07-21-88 | 1.5                            |
| 02335790                            | Willeo Creek near Roswell, Ga.                                              | Lat 34°00'10", long 84°23'40",<br>Cobb-Fulton County Line, Hydrologic<br>Unit 03130001, at State Highway<br>120, 2.0 miles southwest of Roswell. | a16.1                            | 1986-88                                                                         | 07-21-88 | 1.5                            |
| 02335886                            | Long Island Creek at Atlanta, Ga.                                           | Lat 33°53'10", long 84°25'36",<br>Fulton County, Hydrologic Unit<br>03130001, at Northside Drive, 1.2<br>miles upstream from mouth.              | 6.0                              | 1986-88                                                                         | 07-21-88 | 0.38                           |
| 02335900                            | Rottenwood Creek near Marietta, Ga.                                         | Lat 33°54'43", long 84°28'41",<br>Cobb County, Hydrologic Unit<br>03130001, at Terrell Mill Road,<br>5.7 miles southeast of Marietta.            | a13.6                            | 1944, 1949,<br>1951,<br>1953-55,<br>1957, 1959,<br>1961-68,<br>1970,<br>1986-88 | 07-21-88 | 3.9                            |
| 02336420                            | Peachtree Creek (Ridgewood Road) at Atlanta, Ga.                            | Lat 33°49'35", long 84°26'58",<br>Fulton County, Hydrologic Unit<br>03130001, at Ridgewood Road, 0.3<br>mile upstream from mouth.                | a130                             | 1987-88                                                                         | 07-21-88 | 19                             |
| 02336800                            | Sweetwater Creek near Hiram, Ga.                                            | Lat 33°48'17", long 84°47'10",<br>Paulding County, Hydrologic Unit<br>03130002, at Road 295, 5.5 miles<br>southwest of Hiram.                    | a46.6                            | 1959,<br>1961-68,<br>1970, 1986,<br>1988                                        | 08-02-88 | 2.2                            |
| 02337200                            | Anneewakee Creek (formerly published as Anneewakee Creek Douglasville, Ga.) | Lat 33°39'54", long 84°41'03",<br>Douglas County, Hydrologic Unit<br>03130002, at State Highway 166,<br>4 miles southeast of Douglasville.       | a29.3                            | 1953, 1959,<br>1962-68,<br>1970, 1986,<br>1988                                  | 08-02-88 | 4.7                            |
| 02337400                            | Dog River near Douglasville, Ga.                                            | Lat 33°39'36", long 84°51'41",<br>Douglas County, Hydrologic Unit<br>03130002, at Road 808, 9.1 miles<br>southwest of Douglasville.              | a46.9                            | 1951,<br>1953-54,<br>1959,<br>1961-68,<br>1970, 1974,<br>1988                   | 08-03-88 | 5.6                            |
| 02337438                            | Dog River near Fairplay, Ga.                                                | Lat 33°37'20", long 84°47'35",<br>Douglas County, Hydrologic Unit<br>03130002, at State Highway 166,<br>4.2 miles east of Fairplay.              | 76.4                             | 1974,<br>1976-77,<br>1979, 1986,<br>1988                                        | 08-03-88 | 6.8                            |
| 02338170                            | Wahoo Creek at Sargent, Ga.                                                 | Lat 33°25'27", long 84°52'53",<br>Coweta County, Hydrologic Unit<br>03130002, at Road 301, 0.9 mile<br>southwest of Sargent.                     | a26.5                            | 1988                                                                            | 08-03-88 | 3.3                            |
| 02338400                            | Centralhatchee Creek near Franklin, Ga.                                     | Lat 33°18'40", long 85°06'18",<br>Heard County, Hydrologic Unit<br>03130002, at U.S. Highway 27,<br>1 mile north of Franklin.                    | c57                              | 1953, 1955,<br>1959,<br>1961-68,<br>1970, 1986,<br>1988                         | 08-02-88 | 14                             |
| 02338530                            | Hillabahatchee Creek near Franklin, Ga.                                     | Lat 33°16'50", long 85°07'10",<br>Heard County, Hydrologic Unit<br>03130002, at State Highway 34,<br>0.4 mile east of Franklin.                  | a76                              | 1951, 1953,<br>1979-80,<br>1982, 1986,<br>1988                                  | 08-02-88 | 30                             |
| 02338840                            | Yellow Jacket Creek near Hogansville, Ga.                                   | Lat 33°08'22", long 84°58'31",<br>Troup County, Hydrologic Unit<br>03130002, at Road 296, 3 miles<br>southeast of Hogansville.                   | 91.0                             | 1979-85†,<br>1986, 1988                                                         | 08-02-88 | 4.0                            |

† Operated as a continuous-record gaging station.

a Revised.

c Approximately.

## Base-flow discharge measurements--Continued

| Station no.                         | Station name                                                       | Location                                                                                                                                  | Drainage area (mi <sup>2</sup> ) | Period of record                                                 | Date     | Discharge (ft <sup>3</sup> /s) |
|-------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------|----------|--------------------------------|
| Apalachicola River Basin--Continued |                                                                    |                                                                                                                                           |                                  |                                                                  |          |                                |
| 02338930                            | Beech Creek near LaGrange, Ga.                                     | Lat 33°05'32", long 84°59'02", Troup County, Hydrologic Unit 03130002, at Road 276, 4.5 miles northeast of LaGrange.                      | 52.9                             | 1952, 1955, 1979-80, 1982, 1986, 1988                            | 08-02-88 | 1.3                            |
| 02339620                            | Long Cane Creek above LaGrange, Ga.                                | Lat 33°01'14", long 84°58'22", Troup County, Hydrologic Unit 03130002, at Road 228, 3.6 miles southeast at LaGrange.                      | 9.88                             | 1953-54, 1988                                                    | 08-03-88 | 0.29                           |
| 02340210                            | Flat Shoals Creek near LaGrange, Ga.                               | Lat 32°56'42", long 84°55'28", Troup County, Hydrologic Unit 03130002, at U.S. Highway 27, 6.5 miles southeast of LaGrange.               | a118                             | 1955, 1986, 1988                                                 | 08-03-88 | 5.4                            |
| 02340262                            | Flat Shoal Creek (State Highway 103) near West Point, Ga.          | Lat 32°50'12", long 85°06'57", Harris County, Hydrologic Unit 03130002, at State Highway 103, 3 miles southeast of West Point.            | a215                             | 1986, 1988                                                       | 08-02-88 | 24                             |
| 02340500                            | Mountain Oak Creek near Hamilton, Ga.                              | Lat 32°44'28", long 85°04'08", Harris County, Hydrologic Unit 03130002, at State Highway 103, 11 miles west of Hamilton.                  | 61.7                             | 1944-71†, 1979-80, 1982, 1986, 1988                              | 08-02-88 | b11                            |
| 02341080                            | Sparks Creek near Waverly Hall, Ga.                                | Lat 32°44'35", long 84°43'28", Harris County, Hydrologic Unit 03130002, at Road 224, 4.2 miles north of Waverly Hall.                     | 19.1                             | 1988                                                             | 08-02-88 | 5.1                            |
| 02341110                            | Dowdell Creek near Waverly Hall, Ga.                               | Lat 32°44'41", long 84°46'24", Harris County, Hydrologic Unit 03130002, at Road 205, 4.7 miles northwest of Waverly Hall.                 | a27.9                            | 1943, 1955, 1988                                                 | 08-02-88 | 7.9                            |
| 02341150                            | Mulberry Creek (formerly published as 02341050) near Hamilton, Ga. | Lat 32°42'30", long 84°52'11", Harris County, Hydrologic Unit 03130002, at U.S. Highway 27, 2 miles south of Hamilton.                    | a112                             | 1986, 1988                                                       | 08-02-88 | b16                            |
| 02341200                            | Ossahatchee Creek near Hamilton, Ga.                               | Lat 32°41'18", long 84°51'24", Harris County, Hydrologic Unit 03130002, at U.S. 27, 4 miles south of Hamilton.                            | 42.6                             | 1943, 1951, 1955, 1957, 1959, 1961-63, 1965-68, 1970, 1986, 1988 | 08-02-88 | .62                            |
| *02341220                           | Mulberry Creek near Mulberry Grove, Ga.                            | Lat 32°42'11", long 84°57'29", Harris County, Hydrologic Unit 03130002, at Road 111, 2 miles north of Mulberry Grove.                     | a189                             | 1986, 1988                                                       | 08-02-88 | b22                            |
| 02344752                            | Line Creek above Haralson, Ga.                                     | Lat 33°15'23", long 84°29'50", Coweta-Spalding County line, Hydrologic Unit 03130005, at State Highway 16, 3 miles northeast of Haralson. | 216                              | 1951, 1977, 1979-80, 1982, 1986, 1988                            | 07-29-88 | 9.3                            |
| 02344786                            | White Oak Creek near Newnan, Ga.                                   | Lat 33°21'20", long 84°43'37", Coweta County, Hydrologic Unit 03130005, at Road 103, 3 miles east of Newnan.                              | 21.4                             | 1943, 1953, 1977, 1979, 1986, 1988                               | 08-02-88 | 1.0                            |
| 02344925                            | Walnut Creek (State Highway 18) near Greenville, Ga.               | Lat 33°00'54", long 84°40'20", Meriwether County, Hydrologic Unit 03130005, at State Highway 18, 2 miles southeast of Greenville.         | 22.5                             | 1986, 1988                                                       | 08-03-88 | .39                            |

\* Also, a crest-stage partial-record station.

† Operated as a continuous-record gaging station.

a Revised.

b Possibly affected by runoff.



## Base-flow discharge measurements--Continued

| Station no.                         | Station name                                      | Location                                                                                                                      | Drainage area (mi <sup>2</sup> ) | Period of record                                                 | Date                 | Discharge (ft <sup>3</sup> /s) |
|-------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------|----------------------|--------------------------------|
| Apalachicola River Basin--Continued |                                                   |                                                                                                                               |                                  |                                                                  |                      |                                |
| 02345120                            | Elkins Creek near Williamson, Ga.                 | Lat 33°10'20", long 84°19'54", Pike County, Hydrologic Unit 03130005, at Road 43, 1.9 miles east of Williamson.               | 3.9                              | 1988                                                             | 07-29-88             | 0.31                           |
| 02345400                            | Elkins Creek near Molena, Ga.                     | Lat 32°58'15", long 84°30'56", Pike County, Hydrologic Unit 03130005, at county road, 3 miles south of Molena.                | 101                              | 1947, 1954, 1959, 1961-63, 1965-68, 1970, 1973, 1977, 1986, 1988 | 07-28-88             | 3.7                            |
| 02346189                            | Lazar Creek (State Highway 36) near Woodland, Ga. | Lat 32°45'35", long 84°33'54", Talbot County, Hydrologic Unit 03130005, at State Highway 36, 1.9 miles south of Woodland.     | 33.5                             | 1988                                                             | 08-03-88             | 5.3                            |
| 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 north of Talbotton.      | 81.3                             | 1950, 1951, 1979-80, 1986, 1988                                  | 08-03-88             | 7.6                            |
| 02346220                            | Coleoatchee Creek near Woodland, Ga.              | Lat 32°48'53", long 84°33'08", Talbot County, Hydrologic Unit 03130005, at Road 178, 2.0 miles north of Woodland.             | 8.3                              | 1955, 1988                                                       | 08-03-88             | 1.2                            |
| 02346400                            | Potato Creek at Piedmont, Ga.                     | Lat 33°01'10", long 84°15'33", Lamar County, Hydrologic Unit 03130005, at Road 59, at Piedmont.                               | c96                              | 1953, 1959, 1962-63, 1965-68, 1970, 1986, 1988                   | 07-28-88             | 5.5                            |
| Mobile River Basin                  |                                                   |                                                                                                                               |                                  |                                                                  |                      |                                |
| 02379500                            | Cartecay River near Ellijay, Ga.                  | Lat 34°40'53", long 84°27'20", Gilmer County, Hydrologic Unit 03150102, at State Highway 52, 2 miles southeast of Ellijay.    | 134                              | 1937-76†, 1979-80, 1982, 1986, 1988                              | 08-19-88             | 53                             |
| 02380000                            | Ellijay River at Ellijay, Ga.                     | Lat 34°41'06", long 84°28'40", Gilmer County, Hydrologic Unit 03150102, at State Highway 5, at Ellijay.                       | 87.7                             | 1954-69†, 1982, 1986, 1988                                       | 08-19-88             | 32                             |
| 02381570                            | Talking Rock Creek at Talking Rock Ga.            | Lat 34°30'40", long 84°30'31", Pickens County, Hydrologic Unit 03150102, at Road 226, at Talking Rock.                        | a17.5                            | 1955, 1979-80, 1982, 1986, 1988                                  | 08-04-88             | 1.9                            |
| 02382838                            | Salacoa Creek at Fairmount, Ga.                   | Lat 34°25'07", long 84°41'55", Gordon County, Hydrologic Unit 03150102, at U.S. Highway 411, 1 mile south of Fairmount.       | 43.8                             | 1980-82, 1986, 1988                                              | 06-28-88<br>08-04-88 | 0<br>0                         |
| 02382850                            | Salacoa Creek near Fairmount, Ga.                 | Lat 34°26'05", long 84°42'55", Gordon County, Hydrologic Unit 03150102, at State Highway 53, 0.8 mile west of Fairmount.      | 50.8                             | 1954-55, 1986, 1988                                              | 08-04-88             | .36                            |
| 02383000                            | Rock Creek near Fairmount, Ga.                    | Lat 34°21'32", long 84°46'46", Bartow County, Hydrologic Unit 03150102, at State Highway 140, 7 miles southwest of Fairmount. | 6.17                             | 1952-74†, 1979-82, 1986, 1988                                    | 08-04-88             | .18                            |

† Operated as a continuous-record gaging station.

a Revised.

c Approximately.

## Base-flow discharge measurements--Continued

| Station no.                   | Station name                           | Location                                                                                                                             | Drainage area (mi <sup>2</sup> ) | Period of record                                            | Date     | Discharge (ft <sup>3</sup> /s) |
|-------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------|----------|--------------------------------|
| Mobile River Basin--Continued |                                        |                                                                                                                                      |                                  |                                                             |          |                                |
| 02383110                      | Pine Log Creek at Sonoraville, Ga.     | Lat 34°26'53", long 84°47'36", Gordon County, Hydrologic Unit 03150102, at State Highway 53, 5.5 miles west of Fairmount.            | 99.1                             | 1954-55, 1986, 1988                                         | 08-04-88 | b15                            |
| 02387690                      | Johns Creek near Curryville, Ga.       | Lat 34°26'27", long 85°05'43", Floyd-Gordon County line, Hydrologic Unit 03150103, at State Highway 156, 3 miles west of Curryville. | 35.3                             | 1954, 1959, 1979-80, 1986, 1988                             | 08-04-88 | 3.5                            |
| 02388000                      | West Armuchee Creek near Sublinga, Ga. | Lat 34°34'04", long 85°09'16", Chattooga County, Hydrologic Unit 03150103, at Road 329, 2 miles east of Sublinga                     | 36.4                             | 1954-55, 1960-82†, 1986, 1988                               | 08-04-88 | 6.0                            |
| 02388345                      | Armuchee Creek near Rome, Ga.          | Lat 34°22'12", long 85°10'22", Floyd County, Hydrologic Unit 03150103, at State Highway 1, 6 miles north of Rome.                    | 213                              | 1923, 1932, 1986, 1988                                      | 08-04-88 | 25                             |
| 02388900                      | Etowah River near Dahlonega, Ga.       | Lat 34°30'56", long 84°03'40", Lumpkin County, Hydrologic Unit 03150104, at State Highway 9, 4 miles west of Dahlonega.              | 69.7                             | 1951, 1953, 1955, 1959, 1979-82, 1986, 1988                 | 08-05-88 | b50                            |
| 02390000                      | Amicalola Creek near Dawsonville, Ga.  | Lat 34°25'32", long 84°12'43", Dawson County, Hydrologic Unit 03150104, at State Highway 53, 5.5 miles west of Dawsonville.          | 89.0                             | 1939-52†, 1953, 1955, 1959, 1961, 1963-68, 1970, 1986, 1988 | 08-05-88 | b58                            |
| 02390065                      | Yellow Creek near Matt, Ga.            | Lat 34°20'40", long 84°14'22", Dawson County, Hydrologic Unit 03150104, at Road 57, 5.9 miles northwest of Matt.                     | 16.4                             | 1988                                                        | 08-05-88 | 7.9                            |
| 02392100                      | Canton Creek at Canton, Ga.            | Lat 34°13'45", long 84°29'26", Cherokee County, Hydrologic Unit 03150104, at State Highway 20, at Canton.                            | 19.9                             | 1951, 1955, 1959, 1961, 1963-68, 1970, 1986, 1988           | 08-04-88 | 4.0                            |
| 02392780                      | Little River near Woodstock, Ga.       | Lat 34°07'20", long 84°30'16", Cherokee County, Hydrologic Unit 03150104, at State Highway 5, 0.3 mile north of Woodstock.           | 139                              | 1953, 1955, 1986, 1988                                      | 08-04-88 | 13                             |
| *02394400                     | Pumpkinvine Creek below Dallas, Ga.    | Lat 33°54'59", long 84°52'41" (revised), Paulding County, Hydrologic Unit 03150104, at State Highway 6, 2.2 miles west of Dallas.    | 42.8                             | 1943, 1951, 1953-54, 1959, 1961, 1963-68, 1970, 1986, 1988  | 08-02-88 | 2.8                            |
| 02394520                      | Pumpkinvine Creek near Emerson, Ga.    | Lat 34°06'53", long 84°47'24", Bartow County, Hydrologic Unit 03150104, at Road 636, 2 miles west of Emerson.                        | 141                              | 1959, 1979-80, 1986, 1988                                   | 08-04-88 | 12                             |
| 02394600                      | Pettit Creek near Atco, Ga.            | Lat 34°10'44", long 84°48'51", Bartow County, Hydrologic Unit 03150104, at State Highway 3, 1.2 miles northwest of Cartersville.     | 36.9                             | 1951-53, 1955, 1959, 1961, 1963-68, 1970, 1986, 1988        | 08-04-88 | 4.0                            |

\* Also, a crest-stage partial-record station.

† Operated as a continuous-record gaging station.

b Possibly affected by runoff.

## Base-flow discharge measurements--Continued

| Station no.                   | Station name                                      | Location                                                                                                                       | Drainage area (mi <sup>2</sup> ) | Period of record                                      | Date     | Discharge (ft <sup>3</sup> /s) |
|-------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------|----------|--------------------------------|
| Mobile River Basin--Continued |                                                   |                                                                                                                                |                                  |                                                       |          |                                |
| 02394860                      | Euharlee Creek at Aragon, Ga.                     | Lat 34°02'20", long 85°03'13", Polk County, Hydrologic Unit 03150104, at State Highway 101, at Aragon.                         | a82.3                            | 1951, 1955, 1986, 1988                                | 08-03-88 | 22                             |
| 02394900                      | Euharlee Creek at Taylorsville, Ga.               | Lat 34°05'45", long 84°59'28", Bartow County, Hydrologic Unit 03150104, at Road 45, at Taylorsville.                           | 119                              | 1959, 1961, 1963-68, 1970, 1986, 1988                 | 08-04-88 | 35                             |
| 02394950                      | Hills Creek near Taylorsville, Ga.                | Lat 34°04'27", long 84°57'02", Polk County, Hydrologic Unit 03150104, at Road 248, 1 mile east of Taylorsville.                | 25.0                             | 1959-74†, 1979-80, 1986, 1988                         | 08-03-88 | 0.11                           |
| 02394965                      | Euharlee Creek at Euharlee, Ga.                   | Lat 34°08'34", long 84°55'52", Bartow County, Hydrologic Unit 03150104, at Road 30, at Euharlee.                               | 176                              | 1959, 1986, 1988                                      | 08-04-88 | 118                            |
| 02395500                      | Dykes Creek near Rome, Ga.                        | Lat 34°15'30", long 85°05'01", Floyd County, Hydrologic Unit 03150104, at Road 121, 3 miles east of Rome.                      | 14.7                             | 1939-42†, 1959, 1961, 1963-68, 1970, 1972, 1986, 1988 | 08-03-88 | 2.0                            |
| 02396300                      | Silver Creek near Lindale, Ga.                    | Lat 34°10'32", long 85°09'49", Floyd County, Hydrologic Unit 03150104, at Road 633, 2 miles south of Rome.                     | 20.7                             | 1955, 1959, 1961, 1963-68, 1970, 1972, 1986, 1988     | 08-03-88 | 6.4                            |
| 02397500                      | Cedar Creek near Cedartown, Ga.                   | Lat 34°03'38", long 85°18'41", Polk County, Hydrologic Unit 03150105, at State Highway 161, 4.5 miles northwest of Cedartown.  | 115                              | 1943-73†, 1979-80, 1986, 1988                         | 08-03-88 | 10                             |
| 02397516                      | Big Cedar Creek at Foster Mills, Ga.              | Lat 34°09'55", long 85°20'36", Floyd County, Hydrologic Unit 03150105, at State Highway 100, 3.5 miles north of Cave Springs.  | a200                             | 1986, 1988                                            | 08-03-88 | 69                             |
| 02397900                      | Cane Creek near Trion, Ga.                        | Lat 34°34'20", long 85°18'24", Chattooga County, Hydrologic Unit 03150105, at Road 90, 0.2 mile north of Trion.                | a35.4                            | 1951, 1955, 1961, 1963-68, 1970, 1986, 1988           | 08-03-88 | 0                              |
| 02398854                      | West Fork Little River near Head River, Ga.       | Lat 34°40'25", long 85°31'10", Dade County, Hydrologic Unit 03150105, at Road 95, 1.3 miles northwest of Head River.           | 3.40                             | 1988                                                  | 08-05-88 | 0                              |
| 02411800                      | Little River near Buchanan, Ga.                   | Lat 33°47'51", long 85°07'03" (revised), Haralson County, Hydrologic Unit 03150108, at Road 3, 4.5 miles east of Buchanan.     | 20.2                             | 1959-85†, 1986, 1988                                  | 08-03-88 | 1.7                            |
| 02411850                      | Tallapoosa River near Felton, Ga.                 | Lat 33°51'48", long 85°12'49", Haralson County, Hydrologic Unit 03150108, at State Highway 1, 1.9 miles south of Felton.       | 152                              | 1951, 1953-54, 1986, 1988                             | 08-03-88 | 15                             |
| 02411875                      | Tallapoosa River (Jax Road) above Tallapoosa, Ga. | Lat 33°47'42", long 85°16'05", Haralson County, Hydrologic Unit 03150108, at Road 353, 2 miles north of Tallapoosa.            | 191                              | 1986, 1988                                            | 08-02-88 | 19                             |
| 02411940                      | Walker Creek near Tallapoosa, Ga.                 | Lat 33°42'25", long 85°16'18", Haralson County, Hydrologic Unit 03150108, at State Highway 100, 2.8 miles south of Tallapoosa. | a18.8                            | 1953, 1955, 1979, 1988                                | 08-02-88 | 4.9                            |

† Operated as a continuous-record gaging station.  
a Revised.

## Base-flow discharge measurements--Continued

| Station no.                   | Station name                                 | Location                                                                                                                                       | Drainage area (mi <sup>2</sup> ) | Period of record                                        | Date     | Discharge (ft <sup>3</sup> /s) |
|-------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|----------|--------------------------------|
| Mobile River Basin--Continued |                                              |                                                                                                                                                |                                  |                                                         |          |                                |
| 02413070                      | Buck Creek near Carrollton, Ga.              | Lat 33°35'31", long 85°07'47", Carroll County, Hydrologic Unit 03150108, at State Highway 16, 2 miles east of Carrollton.                      | 32.4                             | 1952, 1954, 1979-80, 1986, 1988                         | 08-02-88 | 4.2                            |
| 02413200                      | Little Tallapoosa River near Bowdon, Ga.     | Lat 33°30'46", long 85°14'03", Carroll County, Hydrologic Unit 03150108, at Road 821, 2.2 miles southeast of Bowdon.                           | 220                              | 1951, 1953-54, 1959, 1961, 1963-68, 1970, 1986, 1988    | 08-02-88 | 26                             |
| 02413240                      | Turkey Creek near Bowden, Ga.                | Lat 33°33'55", long 85°15'03", Carroll County, Hydrologic Unit 03150108, at State Highway 100, 1.8 miles north of Bowden.                      | 39.9                             | 1951, 1953-54, 1979, 1988                               | 08-02-88 | 12                             |
| Tennessee River Basin         |                                              |                                                                                                                                                |                                  |                                                         |          |                                |
| 03499815                      | Blacks Creek near Mountain City, Ga.         | Lat 34°56'06", long 83°23'17", Rabun County, Hydrologic Unit 06020002, at Road 5, 0.5 mile north of Mountain City.                             | 4.1                              | 1986, 1988                                              | 08-18-88 | 1.6                            |
| 03550480                      | Wolf Creek near Blairsville, Ga.             | Lat 34°48'18", long 83°54'08", Union County, Hydrologic Unit 06020002, at Road 225, 5.8 miles southeast of Blairsville.                        | 9.22                             | 1944, 1953, 1955, 1966, 1988                            | 08-19-88 | 3.4                            |
| 03550500                      | Nottley River near Blairsville, Ga.          | Lat 34°50'28", long 83°56'10", Union County, Hydrologic Unit 06020002, at Road 40, 2.5 miles southeast of Blairsville.                         | 74.8                             | 1942-82†, 1986, 1988                                    | 08-19-88 | 26                             |
| 03550766                      | Butternut Creek near Blairsville, Ga.        | Lat 34°52'34", long 83°58'10", Union County, Hydrologic Unit 06020002, at U.S. Highway 19, 0.5 mile west of Blairsville.                       | 11.1                             | 1944, 1953-55, 1959, 1962-63, 1965-66, 1974, 1986, 1988 | 08-19-88 | 2.5                            |
| 03567170                      | West Chickamauga Creek near Cedar Grove, Ga. | Lat 34°45'32", long 85°22'26", Walker County, Hydrologic Unit 06020001, at State Highway 193, 4.2 miles northeast of Cedar Grove.              | a51                              | 1951, 1967-68, 1988                                     | 08-04-88 | 3.1                            |
| 03567200                      | West Chickamauga Creek near Kensington, Ga.  | Lat 34°48'10", long 85°20'52", Walker County, Hydrologic Unit 06020001, at State Highway 136, 2.5 miles northeast of Kensington.               | 73                               | 1955, 1959, 1961, 1963-68, 1970, 1972, 1980, 1986, 1988 | 08-04-88 | 4.8                            |
| 03568800                      | Crawfish Creek near Trenton, Ga.             | Lat 34°48'31", long 85°32'32", Dade County, Hydrologic Unit 06020001, at U.S. Highway 11 and State Highway 58, 4.7 miles southwest of Trenton. | a9.8                             | 1988                                                    | 08-05-88 | 0.82                           |
| 03571941                      | Higdon Creek near Trenton, Ga.               | Lat 34°51'55", long 85°34'29", Dade County, Hydrologic Unit 06030001, at State Highway 136, 3.7 miles west of Trenton.                         | 4.85                             | 1988                                                    | 08-05-88 | 0                              |

† Operated as a continuous-record gaging station.

a Revised.

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 <sup>2</sup> ) | Period of record                                                                                                         |
|-------------|-------------------------------------------------------|-----------|-----------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 02177000    | Chattooga River near Clayton                          | 34°48'50" | 83°18'22" | 207                              | Oct 1, 1939 to Sep 30, 1988                                                                                              |
| 02178000    | Chattooga River near Tallulah Falls                   | 34°47'31" | 83°19'22" | 256                              | Jan 1, 1917 to Jan 27, 1918<br>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, 1988                                                                                             |
| 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<br>Aug 16, 1909 to Jun 30, 1910<br>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<br>Feb 1, 1940 to Sep 30, 1960                                                              |
| 02187252    | Savannah River below Hartwell Lake near Hartwell      | 34°21'15" | 82°48'55" | 2,090                            | Oct 1, 1984 to Sep 30, 1988                                                                                              |
| 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" | a38.4                            | 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, 1988                                                                                              |
| 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<br>Apr 1, 1899 to Sep 30, 1900<br>Apr 1, 1930 to Apr 30, 1932<br>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" | a18.3                            | 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<br>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<br>Aug 1, 1937 to Sep 30, 1988                                                               |
| 02193340    | Kettle Creek near Washington                          | 33°40'57" | 82°51'29" | 33.9                             | Apr 16, 1986 to Sep 30, 1988                                                                                             |
| 02193500    | Little River near Washington                          | 33°36'40" | 82°44'40" | 291                              | Oct 1, 1949 to Jun 23, 1971                                                                                              |
| 02194000    | Little River near Lincolnton                          | 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, 1988                                                                                              |
| 02197000    | Savannah River at Augusta                             | 33°22'25" | 81°56'35" | 7,510                            | Apr 1, 1883 to Sep 30, 1891<br>Apr 1, 1896 to Sep 30, 1906<br>Apr 1, 1925 to Sep 30, 1988                                |
| 02197320    | Savannah River near Jackson, S.C.                     | 33°13'01" | 81°46'04" | 7,800                            | Oct 1, 1971 to Sep 30, 1988                                                                                              |
| 02197500    | Savannah River at Burtons Ferry Bridge near Millhaven | 32°56'20" | 81°30'10" | 8,650                            | Oct 1, 1939 to Sep 30, 1970<br>Oct 1, 1982 to Sep 30, 1988                                                               |
| 02197520    | Brier Creek near Thomson                              | 33°22'06" | 82°28'06" | 55.0                             | Jul 18, 1967 to Sep 30, 1988                                                                                             |
| 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, 1988                                                                                             |
| 02197830    | Brier Creek near Waynesboro                           | 33°07'05" | 81°57'50" | 473                              | Jul 1, 1969 to Sep 30, 1988                                                                                              |

a Revised.



| Station no. | Station name                                 | Latitude  | Longitude | Drainage area (mi <sup>2</sup> ) | Period of record             |
|-------------|----------------------------------------------|-----------|-----------|----------------------------------|------------------------------|
| 02198000    | Brier Creek at Millhaven                     | 32°56'00" | 81°39'05" | 646                              | Apr 14, 1937 to Sep 30, 1988 |
| 02198100    | Beaverdam Creek near Sardis                  | 32°56'15" | 81°48'56" | 30.8                             | Jun 7, 1986 to Sep 30, 1988  |
| 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, 1988  |
| 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, 1988  |
| 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, 1988 |
| 02202600    | Black Creek near Blitchton                   | 32°10'04" | 81°29'18" | 232                              | Feb 14, 1980 to Sep 30, 1988 |
| 02203000    | Canoochee River near Claxton                 | 32°11'05" | 81°53'20" | 555                              | May 26, 1937 to Sep 30, 1988 |
| 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, 1988  |
| 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  |
|             |                                              |           |           |                                  | Oct 1, 1987 to Sep 30, 1988  |
| 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, 1988 |
| 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  |
|             |                                              |           |           |                                  | Mar 1, 1987 to Sep 30, 1988  |
| 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 May 15, 1988 |
| 02212600    | Falling Creek near Juliette                  | 33°05'59" | 83°43'25" | 72.2                             | Jul 7, 1964 to Sep 30, 1988  |
| 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, 1988  |
| 02213050    | Walnut Creek near Gray                       | 32°58'20" | 83°37'08" | 29.0                             | Oct 1, 1961 to Sep 30, 1988  |
| 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, 1988  |
| 02213700    | Ocmulgee River near Warner Robins            | 32°40'17" | 83°36'11" | 2,690                            | Oct 1, 1972 to Sep 30, 1988  |
| 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 <sup>2</sup> ) | Period of record                                                                                                         |
|-------------|-----------------------------------------|-----------|-----------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 02215000    | Ocmulgee River at Hawkinsville          | 32°16'50" | 83°27'40" | 3,800                            | Oct 1, 1928 to Dec 31, 1931<br>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, 1988                                                                                              |
| 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, 1988                                                                                              |
| 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, 1988                                                                                              |
| 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, 1988                                                                                              |
| 02217500    | Middle Oconee River near Athens         | 33°56'48" | 83°25'22" | 398                              | Oct 1, 1901 to Sep 30, 1902<br>Jan 1, 1929 to Mar 31, 1932<br>May 1, 1937 to Sep 30, 1988                                |
| 02217900    | North Oconee River at Athens            | 33°56'55" | 83°22'04" | 278                              | Oct 1, 1928 to Mar 31, 1932<br>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, 1988                                                                                              |
| 02218500    | Oconee River near Greensboro            | 33°34'52" | 83°16'22" | 1,090                            | Aug 1, 1903 to Sep 30, 1932<br>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<br>Apr 28, 1977 to Sep 30, 1988                                                              |
| 02219500    | Apalachee River near Buckhead           | 33°36'31" | 83°20'58" | 436                              | Jan 1, 1901 to Dec 31, 1908<br>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, 1988                                                                                              |
| 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, 1988                                                                                             |
| 02223000    | Oconee River at Milledgeville           | 33°05'22" | 83°12'56" | 2,950                            | Sep 1, 1903 to Sep 30, 1988                                                                                              |
| 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, 1988                                                                                              |
| 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<br>Oct 1, 1970 to Sep 30, 1988                                                              |
| 02225500    | Ohoopsee River near Reidsville          | 32°04'42" | 82°10'39" | 1,110                            | Jun 24, 1903 to Dec 31, 1907<br>May 25, 1937 to Sep 30, 1988                                                             |
| 02226000    | Altamaha River at Doctortown            | 31°39'16" | 81°49'41" | 13,600                           | Oct 1, 1931 to Sep 30, 1988                                                                                              |
| 02226100    | Penholoway Creek near Jesup             | 31°34'00" | 81°50'18" | 210                              | Jul 1, 1958 to Sep 30, 1988                                                                                              |
| 02226500    | Satilla River near Waycross             | 31°14'17" | 82°19'29" | 1,200                            | Apr 1, 1937 to Sep 30, 1988                                                                                              |
| 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, 1988                                                                                             |
| 02228000    | Satilla River at Atkinson               | 31°13'16" | 81°52'03" | 2,790                            | Mar 21, 1930 to Sep 30, 1988                                                                                             |
| 02228500    | North Prong St Marys River<br>at Moniac | 30°31'03" | 82°13'50" | 160                              | Feb 1, 1921 to Dec 31, 1923<br>Feb 1, 1927 to Jun 30, 1930<br>Aug 1, 1932 to Jun 30, 1934<br>Oct 1, 1950 to Sep 30, 1988 |
| 02231000    | St Marys River near Macclenny, FL       | 30°21'31" | 82°04'54" | 700                              | Oct 1, 1926 to Sep 30, 1988                                                                                              |
| 02231253    | St Marys River near Gross, FL           | 30°44'29" | 81°41'17" | 1,360                            | Apr 1, 1966 to May 31, 1975<br>Oct 1, 1980 to Sep 30, 1983<br>Oct 1, 1984 to Sep 30, 1988                                |
| 02314500    | Suwannee River at Fargo                 | 30°40'50" | 82°33'38" | 1,260                            | Jan 28, 1927 to Dec 9, 1931<br>Apr 20, 1937 to Sep 30, 1988                                                              |

## ACTIVE AND DISCONTINUED GAGING STATIONS--Continued

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| Station no. | Station name                                        | Latitude  | Longitude | Drainage area (mi <sup>2</sup> ) | 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<br>Dec 10, 1931 to Sep 30, 1988                                 |
| 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<br>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<br>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, 1988                                                                 |
| 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<br>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, 1988                                                                  |
| 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<br>May 30, 1929 to Dec 25, 1931<br>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, 1988                                                                 |
| 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<br>Dec 28, 1902 to Dec 31, 1903<br>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<br>Apr 1, 1940 to Sep 30, 1988                                   |
| 02334430    | Chattahoochee River at Buford Dam near Buford       | 34°09'25" | 84°04'44" | 1,040                            | Oct 1, 1971 to Sep 30, 1988                                                                  |
| 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, 1988                                                                  |
| 02335000    | Chattahoochee River near Norcross                   | 33°59'50" | 84°12'07" | 1,170                            | Jan 1, 1903 to Sep 30, 1946<br>Oct 1, 1956 to Sep 30, 1988                                   |
| 02335450    | Chattahoochee River at Eves Road above Roswell      | 33°59'09" | 84°18'58" | 1,220                            | Jul 7, 1976 to Sep 30, 1988                                                                  |
| 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, 1988                                                                  |
| 02335870    | Sope Creek near Marietta                            | 33°57'14" | 84°26'36" | 29.2                             | Oct 1, 1984 to Sep 30, 1988                                                                  |
| 02336000    | Chattahoochee River at Atlanta                      | 33°51'33" | 84°27'16" | 1,450                            | Aug 1, 1928 to Dec 31, 1931<br>Oct 1, 1936 to Sep 30, 1988                                   |
| 02336300    | Peachtree Creek at Atlanta                          | 33°49'10" | 84°24'28" | 86.8                             | Jun 20, 1958 to Sep 30, 1988                                                                 |
| 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, 1988                                                                  |

| Station no. | Station name                                                  | Latitude  | Longitude | Drainage area (mi <sup>2</sup> ) | Period of record                                                                            |
|-------------|---------------------------------------------------------------|-----------|-----------|----------------------------------|---------------------------------------------------------------------------------------------|
| 02336500    | Chattahoochee River at Oakdale                                | 33°48'46" | 84°29'19" | 1,600                            | Oct 1, 1895 to Aug 31, 1903<br>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<br>Mar 24, 1937 to Sep 30, 1988                                |
| 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, 1988                                                                |
| 02337500    | Snake Creek near Whitesburg                                   | 33°31'46" | 84°55'42" | 37.0                             | Sep 15, 1954 to Sep 30, 1988                                                                |
| 02338000    | Chattahoochee River near Whitesburg                           | 33°28'37" | 84°54'04" | 2,430                            | Oct 1, 1938 to Jun 30, 1954<br>Jan 1, 1965 to Sep 30, 1988                                  |
| 02338500    | Chattahoochee River at Franklin                               | 33°16'45" | 85°06'00" | 2,680                            | Jun 1, 1928 to Oct 31, 1931<br>Oct 1, 1938 to Sep 30, 1939<br>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, 1988                                                                 |
| 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, 1988                                                                 |
| 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, 1988                                                                |
| 02341800    | Upatoi Creek near Columbus                                    | 32°24'48" | 84°49'12" | 342                              | Apr 1, 1968 to Sep 30, 1988                                                                 |
| 02342000    | Upatoi 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, 1988                                                                 |
| 02344000    | Chattahoochee River at Alaga, Ala.                            | 31°06'54" | 85°02'43" | 8,340                            | May 1, 1938 to Dec 31, 1944<br>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, 1988                                                                 |
| 02344500    | Flint River near Griffin                                      | 33°14'39" | 84°25'45" | 272                              | Mar 1, 1937 to Sep 30, 1988                                                                 |
| 02344700    | Line Creek near Senoia                                        | 33°19'10" | 84°31'25" | 101                              | Sep 1, 1964 to Sep 30, 1988                                                                 |
| 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, 1988                                                                |
| 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<br>Jul 21, 1928 to Dec 31, 1931<br>Mar 18, 1937 to Sep 30, 1988 |
| 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<br>Jan 1, 1911 to Dec 31, 1912<br>Jul 1, 1930 to Sep 30, 1988   |
| 02349900    | Turkey Creek at Byromville                                    | 32°11'44" | 83°54'03" | 45.0                             | Jun 20, 1958 to Sep 30, 1988                                                                |
| 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                                                                |

| Station no. | Station name                                    | Latitude  | Longitude | Drainage area (mi <sup>2</sup> ) | Period of record                                                                                                         |
|-------------|-------------------------------------------------|-----------|-----------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 02350500    | Flint River at Oakfield                         | 31°46'07" | 83°59'24" | 3,860                            | Oct 1, 1929 to Dec 31, 1958                                                                                              |
| 02350512    | Flint River at State Highway 32 near Oakfield   | 31°43'30" | 84°01'07" | 3,880                            | May 1, 1987 to Sep 30, 1988                                                                                              |
| 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, 1988                                                                                              |
| 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, 1988                                                                                             |
| 02352500    | Flint River at Albany                           | 31°35'39" | 84°08'39" | 5,310                            | Oct 1, 1901 to Jun 30, 1921<br>Oct 1, 1929 to Sep 30, 1988                                                               |
| 02353000    | Flint River at Newton                           | 31°18'34" | 83°20'06" | 5,740                            | Apr 1, 1938 to Sep 30, 1945<br>Oct 1, 1946 to Sep 30, 1947<br>Jan 1, 1949 to Sep 30, 1950<br>Oct 1, 1956 to Sep 30, 1988 |
| 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<br>Oct 1, 1939 to Sep 30, 1988                                                               |
| 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<br>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<br>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<br>Dec 20, 1976 to Sep 30, 1978<br>Jun 7, 1982 to Sep 30, 1988                              |
| 02379000    | Cartecay River near Cartecay                    | 34°38'19" | 84°24'32" | 86.4                             | Jul 1, 1904 to Dec 31, 1905<br>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<br>Dec 10, 1918 to Jun 30, 1921<br>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<br>Jun 1, 1963 to Sep 30, 1988                                                               |
| 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<br>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, 1988                                                                                              |
| 02381950    | Scarecorn Creek above Hinton                    | 34°27'11" | 84°33'28" | 6.4                              | Jul 22, 1986 to Sep 30, 1988                                                                                             |
| 02382000    | Scarecorn Creek at Hinton                       | 34°28'04" | 84°35'30" | 21.3                             | Apr 1, 1939 to Dec 31, 1942<br>May 1, 1959 to Sep 30, 1974<br>Aug 1, 1986 to Sep 30, 1988                                |
| 02382200    | Talking Rock Creek near Hinton                  | 34°31'22" | 84°36'40" | 119                              | Nov 1, 1973 to Sep 30, 1988                                                                                              |
| 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<br>Dec 21, 1918 to Sep 30, 1923<br>Oct 1, 1961 to Sep 7, 1972<br>Oct 1, 1974 to Sep 30, 1988  |
| 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, 1988                                                                                             |
| 02384000    | Conasauga River near Tennega                    | 35°00'34" | 84°44'02" | 108                              | May 27, 1929 to Dec 31, 1931<br>Oct 1, 1943 to Dec 31, 1947                                                              |



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|-------------|-----------------------------------------------------------|-----------|-----------|----------------------------------|------------------------------|
| 02384500    | Conasauga River near Eton                                 | 34°49'40" | 84°51'03" | 252                              | Oct 1, 1981 to Sep 30, 1988  |
| 02384540    | Mill Creek near Crandall                                  | 34°52'19" | 84°43'17" | 8.27                             | Jan 30, 1985 to Sep 30, 1988 |
| 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, 1988  |
| 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, 1988  |
| 02387500    | Oostanaula River at Resaca                                | 34°34'42" | 84°56'29" | 1,600                            | Nov 1, 1892 to Sep 30, 1988  |
| 02388000    | West Armurchee Creek near Subligna                        | 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, 1988  |
| 02388320    | Heath Creek below Rocky Mountain<br>Damsite near Armuchee | 34°22'18" | 85°15'50" | 16.6                             | Mar 2, 1982 to Sep 30, 1988  |
| 02388500    | Oostanaula River at Rome                                  | 34°18'02" | 85°08'30" | 2,120                            | Oct 1, 1939 to Sep 30, 1988  |
| 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°20'15" | 84°24'26" | 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, 1988  |
| 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<br>Cartersville          | 34°09'47" | 84°44'28" | 1,120                            | Sep 1, 1938 to Sep 30, 1988  |
| 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, 1988  |
| 02395120    | Two Run Creek near Kingston                               | 34°14'34" | 84°53'23" | 33.1                             | May 2, 1980 to Sep 30, 1988  |
| 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, 1988  |
| 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, 1988  |
| 02397410    | Cedar Creek at Cedartown                                  | 33°59'45" | 85°15'53" | 66.9                             | May 4, 1981 to Sep 30, 1988  |
| 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, 1988 |
| 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<br>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, 1988 |
| 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 |

## ACTIVE AND DISCONTINUED GAGING STATIONS--Continued

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| Station no. | Station name                             | Latitude  | Longitude | Drainage area (mi <sup>2</sup> ) | 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, 1988                                |
| 03559000    | Toccoa River near Blue Ridge             | 34°53'14" | 84°17'07" | 233                              | Oct 1, 1898 to Mar 31, 1903<br>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, 1988                               |
| 03569000    | Lookout Creek near Wildwood              | 34°57'22" | 85°24'12" | 165                              | Aug 7, 1945 to Feb 28, 1946<br>Apr 1, 1946 to Aug 15, 1946 |



## GROUND-WATER LEVELS

## 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). Water levels for period of missing record, Sept. 23-30, were estimated.

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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 68.75 | 69.53 | 69.23 | 69.48 | 69.21 | 68.21 | 66.90 | 67.26 | 68.26 | 69.83 | 70.96 | 71.09 |
| 2           | 68.86 | 69.47 | 69.40 | 69.47 | 69.15 | 68.19 | 66.90 | 67.31 | 68.22 | 69.97 | 71.02 | 71.10 |
| 3           | 68.91 | 69.39 | 69.38 | 69.39 | 69.10 | 68.07 | 66.86 | 67.36 | 68.21 | 70.06 | 71.03 | 71.01 |
| 4           | 69.01 | 69.26 | 69.26 | 69.41 | 69.03 | 67.92 | 66.80 | 67.34 | 68.41 | 70.18 | 71.01 | 70.89 |
| 5           | 68.93 | 69.27 | 69.42 | 69.52 | 69.15 | 67.94 | 66.84 | 67.31 | 68.60 | 70.28 | 70.98 | 70.78 |
| 6           | 68.85 | 69.51 | 69.48 | 69.51 | 69.23 | 67.87 | 66.75 | 67.29 | 68.62 | 70.31 | 71.00 | 70.75 |
| 7           | 68.90 | 69.58 | 69.47 | 69.39 | 69.28 | 67.87 | 66.65 | 67.38 | 68.59 | 70.34 | 71.01 | 70.81 |
| 8           | 69.07 | 69.55 | 69.42 | 69.28 | 69.13 | 67.83 | 66.75 | 67.48 | 68.55 | 70.36 | 71.00 | 70.79 |
| 9           | 69.18 | 69.47 | 69.34 | 69.34 | 69.04 | 67.52 | 66.89 | 67.50 | 68.62 | 70.38 | 71.01 | 70.74 |
| 10          | 69.17 | 69.32 | 69.23 | 69.39 | 69.02 | 67.34 | 66.89 | 67.46 | 68.78 | 70.44 | 71.06 | 70.77 |
| 11          | 69.04 | 69.43 | 69.16 | 69.42 | 68.95 | 67.56 | 66.79 | 67.45 | 68.94 | 70.50 | 71.09 | 70.79 |
| 12          | 68.91 | 69.54 | 69.18 | 69.43 | 68.91 | 67.45 | 66.79 | 67.54 | 69.01 | 70.53 | 71.12 | 70.76 |
| 13          | 69.05 | 69.51 | 69.35 | 69.37 | 69.01 | 67.24 | 66.95 | 67.58 | 69.07 | 70.57 | 71.14 | 70.68 |
| 14          | 69.18 | 69.50 | 69.37 | 69.47 | 69.01 | 67.18 | 67.07 | 67.52 | 69.14 | 70.61 | 71.13 | 70.59 |
| 15          | 69.22 | 69.56 | 69.23 | 69.48 | 68.76 | 67.29 | 67.10 | 67.48 | 69.14 | 70.63 | 71.12 | 70.58 |
| 16          | 69.19 | 69.53 | 69.37 | 69.45 | 68.90 | 67.35 | 67.14 | 67.48 | 69.08 | 70.66 | 71.10 | 70.61 |
| 17          | 69.15 | 69.45 | 69.47 | 69.31 | 68.99 | 67.33 | 67.15 | 67.43 | 69.07 | 70.69 | 71.11 | 70.54 |
| 18          | 69.16 | 69.49 | 69.51 | 69.21 | 68.86 | 67.12 | 67.06 | 67.44 | 69.18 | 70.70 | 71.07 | 70.41 |
| 19          | 69.17 | 69.45 | 69.47 | 69.17 | 68.55 | 67.04 | 67.01 | 67.51 | 69.30 | 70.74 | 71.03 | 70.35 |
| 20          | 69.19 | 69.40 | 69.42 | 69.07 | 68.47 | 67.18 | 67.15 | 67.60 | 69.36 | 70.78 | 71.01 | 70.34 |
| 21          | 69.27 | 69.50 | 69.37 | 69.02 | 68.64 | 67.13 | 67.13 | 67.68 | 69.39 | 70.78 | 71.02 | 70.33 |
| 22          | 69.42 | 69.54 | 69.34 | 69.17 | 68.76 | 67.13 | 67.15 | 67.74 | 69.42 | 70.76 | 71.08 | 70.32 |
| 23          | 69.45 | 69.55 | 69.46 | 69.21 | 68.64 | 67.15 | 67.20 | 67.78 | 69.47 | 70.78 | 71.12 | 70.31 |
| 24          | 69.45 | 69.55 | 69.47 | 69.18 | 68.62 | 67.07 | 67.19 | 67.81 | 69.54 | 70.81 | 71.11 | 70.29 |
| 25          | 69.37 | 69.47 | 69.43 | 69.02 | 68.62 | 67.00 | 67.17 | 67.81 | 69.61 | 70.81 | 71.07 | 70.28 |
| 26          | 69.27 | 69.39 | 69.41 | 69.24 | 68.58 | 66.91 | 67.13 | 67.96 | 69.58 | 70.84 | 71.01 | 70.27 |
| 27          | 69.24 | 69.33 | 69.41 | 69.43 | 68.35 | 66.91 | 67.25 | 68.07 | 69.58 | 70.89 | 71.05 | 70.25 |
| 28          | 69.32 | 69.27 | 69.30 | 69.49 | 68.28 | 66.98 | 67.33 | 68.11 | 69.72 | 70.95 | 71.04 | 70.24 |
| 29          | 69.46 | 69.21 | 69.42 | 69.46 | 68.23 | 66.96 | 67.37 | 68.13 | 69.79 | 70.99 | 71.08 | 70.22 |
| 30          | 69.52 | 69.16 | 69.62 | 69.36 | ---   | 66.93 | 67.34 | 68.21 | 69.78 | 70.99 | 70.98 | 70.21 |
| 31          | 69.56 | ---   | 69.57 | 69.25 | ---   | 66.91 | ---   | 68.26 | ---   | 70.94 | 70.99 | ---   |
| MEAN        | 69.17 | 69.44 | 69.39 | 69.34 | 68.84 | 67.37 | 67.02 | 67.62 | 69.07 | 70.58 | 71.05 | 70.57 |
| WTR YR 1988 | MEAN  | 69.12 |       | HIGH  | 66.65 |       | LOW   | 71.14 |       |       |       |       |

## GROUND-WATER LEVELS

405

## 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, April 25-27, 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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 3.17 | 5.86 | 6.83 | 7.74 | 5.13 | 3.92 | 4.86 | 4.25 | 6.51 | 8.91 | 9.76 | 4.13 |
| 2           | 3.34 | 5.92 | 6.93 | 7.83 | 5.16 | 3.99 | 4.91 | 4.36 | 6.60 | 8.99 | 9.87 | 3.15 |
| 3           | 3.44 | 5.99 | 6.91 | 7.70 | 5.20 | 4.04 | 4.95 | 4.46 | 6.70 | 9.03 | 9.96 | 2.76 |
| 4           | 3.54 | 5.97 | 6.92 | 7.31 | 5.23 | 3.85 | 4.98 | 4.55 | 6.85 | 9.09 | 9.91 | 2.63 |
| 5           | 3.64 | 5.69 | 7.07 | 7.07 | 5.31 | 3.45 | 5.01 | 4.59 | 6.93 | 9.14 | 9.53 | 2.54 |
| 6           | 3.72 | 5.64 | 7.13 | 6.85 | 5.23 | 3.42 | 5.03 | 4.64 | 7.00 | 9.19 | 9.45 | 1.81 |
| 7           | 3.83 | 5.61 | 7.16 | 6.68 | 5.17 | 3.48 | 5.07 | 4.76 | 7.10 | 9.22 | 9.49 | 2.17 |
| 8           | 3.92 | 5.62 | 7.18 | 6.48 | 5.10 | 3.56 | 5.15 | 4.85 | 7.19 | 9.22 | 9.55 | 2.11 |
| 9           | 4.02 | 5.65 | 7.21 | 6.09 | 5.10 | 3.57 | 5.20 | 4.93 | 7.28 | 9.21 | 9.64 | .66  |
| 10          | 4.02 | 5.70 | 7.22 | 6.09 | 5.14 | 3.52 | 5.24 | 5.01 | 7.38 | 9.29 | 9.73 | 1.18 |
| 11          | 4.11 | 5.85 | 7.18 | 6.08 | 5.16 | 3.62 | 5.26 | 5.10 | 7.46 | 9.37 | 9.80 | 1.63 |
| 12          | 4.22 | 5.91 | 7.27 | 6.06 | 5.19 | 3.66 | 5.24 | 5.20 | 7.54 | 9.40 | 9.82 | 1.94 |
| 13          | 4.31 | 5.99 | 7.40 | 6.03 | 5.28 | 3.71 | 5.24 | 5.26 | 7.62 | 9.42 | 9.86 | 2.21 |
| 14          | 4.15 | 6.08 | 7.27 | 6.10 | 5.33 | 3.80 | 5.27 | 5.33 | 7.70 | 9.45 | 9.85 | 2.44 |
| 15          | 4.37 | 6.15 | 7.35 | 6.08 | 5.30 | 3.91 | 5.30 | 5.40 | 7.78 | 9.49 | 9.84 | 2.62 |
| 16          | 4.47 | 6.17 | 7.46 | 6.09 | 5.40 | 4.00 | 5.37 | 5.48 | 7.84 | 9.48 | 9.08 | 2.73 |
| 17          | 4.50 | 6.21 | 7.54 | 6.05 | 5.44 | 4.06 | 5.40 | 5.55 | 7.92 | 9.50 | 8.31 | 2.37 |
| 18          | 4.62 | 6.23 | 7.56 | 6.05 | 5.43 | 4.09 | 5.44 | 5.56 | 8.01 | 9.55 | 8.18 | .67  |
| 19          | 4.73 | 6.22 | 7.46 | 6.02 | 4.95 | 4.10 | 5.29 | 5.61 | 8.11 | 9.61 | 8.21 | 1.16 |
| 20          | 4.80 | 6.27 | 7.50 | 5.96 | 3.93 | 4.14 | 4.93 | 5.68 | 8.20 | 9.56 | 8.27 | 1.57 |
| 21          | 4.89 | 6.38 | 7.59 | 5.68 | 3.35 | 4.18 | 4.80 | 5.76 | 8.28 | 9.63 | 8.37 | 1.61 |
| 22          | 5.01 | 6.43 | 7.65 | 5.33 | 3.34 | 4.30 | 4.83 | 5.84 | 8.36 | 9.64 | 8.48 | 1.94 |
| 23          | 5.11 | 6.49 | 7.73 | 5.09 | 3.36 | 4.42 | 4.91 | 5.91 | 8.44 | 9.63 | 7.89 | 2.16 |
| 24          | 5.18 | 6.54 | 7.74 | 5.01 | 3.46 | 4.45 | 4.90 | 6.06 | 8.50 | 9.66 | 7.51 | 2.33 |
| 25          | 5.25 | 6.56 | 7.74 | 4.94 | 3.55 | 4.49 | 4.69 | 6.04 | 8.56 | 9.69 | 7.44 | 2.47 |
| 26          | 5.34 | 6.61 | 7.76 | 4.97 | 3.64 | 4.54 | 4.48 | 6.06 | 8.60 | 9.56 | 7.52 | 2.15 |
| 27          | 5.52 | 6.64 | 7.79 | 4.99 | 3.68 | 4.60 | 4.23 | 6.11 | 8.66 | 9.65 | 7.62 | 2.26 |
| 28          | 5.60 | 6.68 | 7.78 | 5.00 | 3.78 | 4.67 | 4.00 | 6.17 | 8.74 | 9.71 | 7.52 | 2.47 |
| 29          | 5.67 | 6.71 | 7.81 | 5.02 | 3.85 | 4.70 | 4.07 | 6.27 | 8.80 | 9.80 | 6.81 | 2.32 |
| 30          | 5.74 | 6.75 | 7.82 | 5.05 | ---  | 4.75 | 4.17 | 6.36 | 8.85 | 9.86 | 6.42 | 2.48 |
| 31          | 5.82 | ---  | 7.78 | 5.08 | ---  | 4.81 | ---  | 6.43 | ---  | 9.89 | 5.08 | ---  |
| MEAN        | 4.52 | 6.15 | 7.41 | 6.02 | 4.66 | 4.06 | 4.94 | 5.41 | 7.78 | 9.45 | 8.67 | 2.16 |
| WTR YR 1988 | MEAN | 5.95 |      | HIGH | .66  |      | LOW  | 9.96 |      |      |      |      |

## GROUND-WATER LEVELS

## 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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 51.48 | 51.38 | 49.41 | 49.15 | 49.16 | 48.32 | 47.85 | 48.09 | 49.30 | 51.97 | 54.11 | 52.57 |
| 2           | 51.52 | 51.28 | 49.53 | 49.13 | 49.04 | 48.33 | 47.98 | 48.13 | 49.36 | 51.97 | 54.19 | 52.49 |
| 3           | 51.52 | 51.13 | 49.47 | 48.98 | 48.99 | 48.27 | 48.10 | 48.17 | 49.40 | 51.97 | 54.19 | 52.37 |
| 4           | 51.58 | 50.90 | 49.35 | 48.97 | 48.86 | 48.15 | 48.09 | 48.13 | 49.62 | 51.98 | 54.23 | 52.26 |
| 5           | 51.47 | 50.81 | 49.51 | 49.08 | 48.93 | 48.23 | 48.12 | 48.09 | 49.80 | 52.01 | 54.12 | 52.17 |
| 6           | 51.34 | 51.02 | 49.61 | 49.12 | 48.99 | 48.17 | 48.02 | 48.05 | 49.90 | 52.06 | 54.01 | 52.15 |
| 7           | 51.36 | 51.04 | 49.63 | 49.02 | 49.17 | 48.19 | 47.91 | 48.19 | 49.95 | 52.16 | 53.89 | 52.16 |
| 8           | 51.54 | 50.98 | 49.56 | 49.01 | 49.09 | 48.20 | 48.00 | 48.39 | 49.99 | 52.27 | 53.78 | 52.12 |
| 9           | 51.64 | 50.85 | 49.48 | 49.09 | 49.01 | 47.87 | 48.14 | 48.49 | 50.04 | 52.39 | 53.71 | 51.98 |
| 10          | 51.60 | 50.61 | 49.35 | 49.21 | 48.95 | 47.69 | 48.18 | 48.47 | 50.20 | 52.57 | 53.68 | 52.03 |
| 11          | 51.44 | 50.65 | 49.29 | 49.28 | 48.84 | 47.94 | 48.07 | 48.50 | 50.21 | 52.75 | 53.63 | 52.09 |
| 12          | 51.30 | 50.71 | 49.29 | 49.34 | 48.72 | 47.86 | 47.98 | 48.67 | 50.27 | 52.71 | 53.58 | 52.09 |
| 13          | 51.34 | 50.60 | 49.48 | 49.31 | 48.84 | 47.71 | 48.03 | 48.75 | 50.38 | 52.64 | 53.44 | 52.01 |
| 14          | 51.43 | 50.53 | 49.50 | 49.46 | 48.86 | 47.65 | 48.07 | 48.65 | 50.52 | 52.63 | 53.31 | 51.96 |
| 15          | 51.40 | 50.56 | 49.30 | 49.39 | 48.58 | 47.77 | 48.03 | 48.59 | 50.59 | 52.70 | 53.30 | 52.02 |
| 16          | 51.36 | 50.48 | 49.40 | 49.40 | 48.70 | 47.83 | 48.14 | 48.59 | 50.62 | 52.90 | 53.15 | 52.09 |
| 17          | 51.32 | 50.28 | 49.53 | 49.25 | 48.72 | 47.84 | 48.21 | 48.55 | 50.77 | 53.10 | 53.02 | 52.05 |
| 18          | 51.35 | 50.26 | 49.56 | 49.14 | 48.58 | 47.60 | 48.17 | 48.51 | 51.02 | 53.25 | 52.92 | 51.95 |
| 19          | 51.36 | 50.13 | 49.51 | 49.05 | 48.28 | 47.54 | 48.12 | 48.51 | 51.25 | 53.48 | 52.87 | 51.91 |
| 20          | 51.35 | 49.95 | 49.42 | 48.98 | 48.26 | 47.70 | 48.30 | 48.57 | 51.37 | 53.77 | 52.87 | 51.91 |
| 21          | 51.40 | 50.06 | 49.37 | 48.98 | 48.43 | 47.66 | 48.23 | 48.68 | 51.38 | 53.87 | 52.91 | 51.87 |
| 22          | 51.53 | 50.11 | 49.29 | 49.09 | 48.57 | 47.70 | 48.29 | 48.80 | 51.55 | 53.87 | 52.95 | 51.79 |
| 23          | 51.57 | 50.11 | 49.40 | 49.14 | 48.50 | 47.69 | 48.36 | 48.87 | 51.75 | 53.80 | 52.89 | 51.77 |
| 24          | 51.55 | 50.07 | 49.38 | 49.13 | 48.51 | 47.61 | 48.34 | 48.94 | 51.96 | 53.71 | 52.76 | 51.82 |
| 25          | 51.48 | 49.93 | 49.30 | 48.95 | 48.51 | 47.51 | 48.37 | 48.89 | 52.06 | 53.61 | 52.69 | 51.88 |
| 26          | 51.33 | 49.83 | 49.24 | 49.19 | 48.51 | 47.44 | 48.20 | 48.93 | 52.09 | 53.60 | 52.70 | 51.92 |
| 27          | 51.23 | 49.72 | 49.22 | 49.42 | 48.30 | 47.51 | 48.22 | 48.96 | 52.05 | 53.59 | 52.76 | 51.92 |
| 28          | 51.28 | 49.59 | 49.05 | 49.55 | 48.31 | 47.69 | 48.22 | 48.97 | 52.00 | 53.69 | 52.67 | 51.87 |
| 29          | 51.35 | 49.47 | 49.13 | 49.54 | 48.32 | 47.72 | 48.20 | 49.01 | 52.03 | 53.83 | 52.70 | 51.86 |
| 30          | 51.39 | 49.36 | 49.34 | 49.40 | ---   | 47.74 | 48.17 | 49.10 | 52.01 | 53.94 | 52.63 | 51.88 |
| 31          | 51.37 | ---   | 49.28 | 49.26 | ---   | 47.79 | ---   | 49.21 | ---   | 54.05 | 52.58 | ---   |
| MEAN        | 51.43 | 50.41 | 49.39 | 49.19 | 48.71 | 47.84 | 48.14 | 48.60 | 50.78 | 52.99 | 53.30 | 52.03 |
| WTR YR 1988 | MEAN  | 50.24 |       | HIGH  | 47.44 |       | LOW   | 54.23 |       |       |       |       |

## GROUND-WATER LEVELS

407

## 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. Water levels for period of missing record, May 2-4, were estimated.

PERIOD OF RECORD.--May 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.8 ft below land-surface datum, Apr. 11, 1963; lowest, 34.33 ft below land-surface datum, Aug. 3, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 32.17 | 32.03 | 31.15 | 30.78 | 30.14 | 29.42 | 29.87 | 29.96 | 30.80 | 32.30 | 33.82 | 32.59 |
| 2           | 32.23 | 31.76 | 31.30 | 30.50 | 30.12 | 29.46 | 29.96 | 30.05 | 30.67 | 32.51 | 33.83 | 32.70 |
| 3           | 32.32 | 31.76 | 31.23 | 30.15 | 30.04 | 29.59 | 29.91 | 30.14 | 30.63 | 32.62 | 33.71 | 32.73 |
| 4           | 32.44 | 31.57 | 31.52 | 30.45 | 29.86 | 29.63 | 29.86 | 30.24 | 30.50 | 32.70 | 33.60 | 32.70 |
| 5           | 32.16 | 31.55 | 31.27 | 30.73 | 29.88 | 29.78 | 29.89 | 30.33 | 30.94 | 32.59 | 33.52 | 32.80 |
| 6           | 32.01 | 31.72 | 31.28 | 30.68 | 29.99 | 29.52 | 29.84 | 30.25 | 31.13 | 32.56 | 33.70 | 32.46 |
| 7           | 32.27 | 31.92 | 31.15 | 30.31 | 30.06 | 29.64 | 30.02 | 30.27 | 31.18 | 32.69 | 33.79 | 32.02 |
| 8           | 32.36 | 31.96 | 31.04 | 30.55 | 29.92 | 29.74 | 29.68 | 30.33 | 31.12 | 32.93 | 33.60 | 32.02 |
| 9           | 32.34 | 31.93 | 31.10 | 30.59 | 29.80 | 29.51 | 29.72 | 30.24 | 31.14 | 33.13 | 33.52 | 32.11 |
| 10          | 32.26 | 31.78 | 31.04 | 30.42 | 29.67 | 29.60 | 29.75 | 30.28 | 31.10 | 33.21 | 33.77 | 32.26 |
| 11          | 32.03 | 31.98 | 31.02 | 30.32 | 29.57 | 29.40 | 29.52 | 30.39 | 31.10 | 33.19 | 33.74 | 32.19 |
| 12          | 31.81 | 31.81 | 31.07 | 30.37 | 30.01 | 29.51 | 29.59 | 30.40 | 31.37 | 33.20 | 33.70 | 32.09 |
| 13          | 31.67 | 31.60 | 31.10 | 30.48 | 30.33 | 29.57 | 29.85 | 30.42 | 31.53 | 33.32 | 33.56 | 32.12 |
| 14          | 31.67 | 31.55 | 30.97 | 30.45 | 29.94 | 29.56 | 29.73 | 30.37 | 31.72 | 33.30 | 33.54 | 32.08 |
| 15          | 31.66 | 31.64 | 30.90 | 30.21 | 29.60 | 29.65 | 29.69 | 30.32 | 31.75 | 33.45 | 33.69 | 31.99 |
| 16          | 31.65 | 31.56 | 31.40 | 30.19 | 30.09 | 29.58 | 29.99 | 30.36 | 31.70 | 33.60 | 33.63 | 31.79 |
| 17          | 31.70 | 31.45 | 31.23 | 30.18 | 29.95 | 29.59 | 30.08 | 30.30 | 31.78 | 33.62 | 33.60 | 31.93 |
| 18          | 31.85 | 31.61 | 30.97 | 30.24 | 29.75 | 29.40 | 30.01 | 30.28 | 32.07 | 33.53 | 33.56 | 31.98 |
| 19          | 31.79 | 31.43 | 30.93 | 30.06 | 29.40 | 29.57 | 30.12 | 30.35 | 32.14 | 33.66 | 33.58 | 31.78 |
| 20          | 31.80 | 31.43 | 30.91 | 30.08 | 29.60 | 29.95 | 30.00 | 30.51 | 32.12 | 33.72 | 33.54 | 31.75 |
| 21          | 31.97 | 31.59 | 30.93 | 30.01 | 29.87 | 29.96 | 30.11 | 30.65 | 32.08 | 33.81 | 33.53 | 31.79 |
| 22          | 31.88 | 31.48 | 30.72 | 30.19 | 29.88 | 29.68 | 30.26 | 30.66 | 32.16 | 33.81 | 33.15 | 31.51 |
| 23          | 31.98 | 31.52 | 30.77 | 30.25 | 29.79 | 29.72 | 30.17 | 30.64 | 32.32 | 33.73 | 32.86 | 31.48 |
| 24          | 31.95 | 31.61 | 30.81 | 30.15 | 29.90 | 29.89 | 30.26 | 30.79 | 32.35 | 33.64 | 32.92 | 31.66 |
| 25          | 32.13 | 31.56 | 30.87 | 29.86 | 29.77 | 29.82 | 29.92 | 30.69 | 32.21 | 33.37 | 32.94 | 31.79 |
| 26          | 31.61 | 31.46 | 31.01 | 30.54 | 29.68 | 29.74 | 29.67 | 30.11 | 32.20 | 33.29 | 33.02 | 31.60 |
| 27          | 31.63 | 31.35 | 30.92 | 30.55 | 29.66 | 29.91 | 29.89 | 30.25 | 32.13 | 33.45 | 33.08 | 31.51 |
| 28          | 31.93 | 31.24 | 30.51 | 30.51 | 29.41 | 29.79 | 30.22 | 30.42 | 32.08 | 33.62 | 32.79 | 31.47 |
| 29          | 32.01 | 31.14 | 31.00 | 30.47 | 29.39 | 29.74 | 30.23 | 30.69 | 32.34 | 33.70 | 33.03 | 31.34 |
| 30          | 32.21 | 31.01 | 30.68 | 30.37 | ---   | 29.88 | 30.24 | 30.72 | 32.50 | 33.69 | 32.90 | 31.51 |
| 31          | 32.23 | ---   | 30.67 | 30.24 | ---   | 29.90 | ---   | 30.74 | ---   | 33.77 | 32.71 | ---   |
| MEAN        | 31.99 | 31.60 | 31.02 | 30.35 | 29.83 | 29.67 | 29.94 | 30.39 | 31.63 | 33.28 | 33.42 | 31.99 |
| WTR YR 1988 | MEAN  | 31.27 |       | HIGH  | 29.39 |       | LOW   | 33.83 |       |       |       |       |

## GROUND-WATER LEVELS

## 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.

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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 36.45 | 36.09 | 35.28 | 34.71 | 34.14 | 33.38 | 33.66 | 33.90 | 34.76 | 36.55 | 38.02 | 37.00 |
| 2           | 36.47 | 35.88 | 35.35 | 34.58 | 34.09 | 33.43 | 33.72 | 33.95 | 35.13 | 36.63 | 38.06 | 37.02 |
| 3           | 36.50 | 35.83 | 35.26 | 34.32 | 34.05 | 33.51 | 33.74 | 34.08 | 34.74 | 36.68 | 37.96 | 36.95 |
| 4           | 36.43 | 35.68 | 35.40 | 34.52 | 33.92 | 33.50 | 33.76 | 34.13 | 34.73 | 36.72 | 37.98 | 36.89 |
| 5           | 36.30 | 35.69 | 35.18 | 34.71 | 33.94 | 33.61 | 33.80 | 34.18 | 35.01 | 36.71 | 38.02 | 36.92 |
| 6           | 36.18 | 35.85 | 35.26 | 34.63 | 34.01 | 33.41 | 33.75 | 34.08 | 35.28 | 36.72 | 38.08 | 36.71 |
| 7           | 36.38 | 36.01 | 35.19 | 34.36 | 34.05 | 33.52 | 33.86 | 34.08 | 35.32 | 36.82 | 38.09 | 36.39 |
| 8           | 36.46 | 36.03 | 35.09 | 34.46 | 33.95 | 33.61 | 33.64 | 34.15 | 35.15 | 36.95 | 38.01 | 36.44 |
| 9           | 36.48 | 35.99 | 35.10 | 34.53 | 33.86 | 33.40 | 33.66 | 34.18 | 35.41 | 37.07 | 37.92 | 36.48 |
| 10          | 36.43 | 35.87 | 35.01 | 34.45 | 33.76 | 33.44 | 33.66 | 34.20 | 35.39 | 37.21 | 37.99 | 36.56 |
| 11          | 36.27 | 36.04 | 34.97 | 34.40 | 33.67 | 33.33 | 33.52 | 34.23 | 35.27 | 37.36 | 37.98 | 36.51 |
| 12          | 36.06 | 35.91 | 35.01 | 34.44 | 33.91 | 33.35 | 33.57 | 34.28 | 35.35 | 37.45 | 37.95 | 36.45 |
| 13          | 35.97 | 35.76 | 35.02 | 34.50 | 34.08 | 33.35 | 33.64 | 34.36 | 35.61 | 37.48 | 37.86 | 36.47 |
| 14          | 35.99 | 35.70 | 34.96 | 34.47 | 33.85 | 33.36 | 33.52 | 34.34 | 35.62 | 37.43 | 37.83 | 36.42 |
| 15          | 35.92 | 35.74 | 34.91 | 34.29 | 33.56 | 33.43 | 33.55 | 34.28 | 35.77 | 37.45 | 37.94 | 36.36 |
| 16          | 35.88 | 35.69 | 35.40 | 34.27 | 33.91 | 33.36 | 33.67 | 34.30 | 35.74 | 37.54 | 37.90 | 36.21 |
| 17          | 35.88 | 35.58 | 35.11 | 34.18 | 33.81 | 33.36 | 33.82 | 34.29 | 35.73 | 37.65 | 37.85 | 36.29 |
| 18          | 35.95 | 35.68 | 34.92 | 34.17 | 33.68 | 33.19 | 33.89 | 34.29 | 35.94 | 37.75 | 37.78 | 36.28 |
| 19          | 35.94 | 35.51 | 34.86 | 34.04 | 33.36 | 33.31 | 34.01 | 34.32 | 36.09 | 37.87 | 37.71 | 36.15 |
| 20          | 35.97 | 35.51 | 34.83 | 34.06 | 33.51 | 33.62 | 34.00 | 34.41 | 36.20 | 37.97 | 37.63 | 36.12 |
| 21          | 36.12 | 35.59 | 34.84 | 34.01 | 33.73 | 33.66 | 34.03 | 34.46 | 36.22 | 38.06 | 37.60 | 36.13 |
| 22          | 36.08 | 35.56 | 34.98 | 34.19 | 33.79 | 33.53 | 34.12 | 34.53 | 36.27 | 38.13 | 37.41 | 35.88 |
| 23          | 36.15 | 35.56 | 34.81 | 34.24 | 33.72 | 33.57 | 34.12 | 34.60 | 36.37 | 38.18 | 37.31 | 35.83 |
| 24          | 36.10 | 35.62 | 34.83 | 34.18 | 33.79 | 33.67 | 34.18 | 34.70 | 36.50 | 38.16 | 37.26 | 35.90 |
| 25          | 36.17 | 35.57 | 34.87 | 33.95 | 33.72 | 33.62 | 33.95 | 34.65 | 36.42 | 37.91 | 37.22 | 35.97 |
| 26          | 35.88 | 35.48 | 34.95 | 34.43 | 33.64 | 33.55 | 33.80 | 34.32 | 36.48 | 37.74 | 37.27 | 35.91 |
| 27          | 35.91 | 35.34 | 34.91 | 34.40 | 33.54 | 33.62 | 33.94 | 34.41 | 36.52 | 37.75 | 37.30 | 35.93 |
| 28          | 36.10 | 35.14 | 34.91 | 34.42 | 33.35 | 33.61 | 34.19 | 34.55 | 36.48 | 37.80 | 37.07 | 35.94 |
| 29          | 36.16 | 35.10 | 35.14 | 34.43 | 33.36 | 33.60 | 34.12 | 34.67 | 36.59 | 37.86 | 37.31 | 35.87 |
| 30          | 36.24 | 35.08 | 35.09 | 34.34 | ---   | 33.62 | 34.09 | 34.97 | 36.65 | 37.87 | 37.21 | 36.02 |
| 31          | 36.25 | ---   | 34.96 | 34.21 | ---   | 33.65 | ---   | 34.85 | ---   | 37.91 | 37.09 | ---   |
| MEAN        | 36.16 | 35.67 | 35.05 | 34.35 | 33.78 | 33.49 | 33.83 | 34.35 | 35.76 | 37.46 | 37.70 | 36.33 |
| WTR YR 1988 | MEAN  | 35.34 |       | HIGH  | 33.19 |       | LOW   | 38.18 |       |       |       |       |

## GROUND-WATER LEVELS

409

## 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, March 18-22, 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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 115.16 | 112.48 | 107.88 | 106.37 | 110.06 | 107.44 | 104.40 | 104.07 | 104.50 | 112.52 | 116.95 | 116.10 |
| 2           | 115.19 | 112.45 | 108.87 | 105.11 | 110.18 | 108.13 | 102.96 | 104.42 | 105.43 | 111.83 | 117.55 | 115.73 |
| 3           | 115.37 | 112.91 | 109.40 | 104.26 | 110.01 | 107.82 | 100.82 | 105.11 | 105.72 | 111.01 | 118.03 | 115.07 |
| 4           | 115.45 | 112.38 | 109.58 | 105.38 | 110.31 | 107.12 | 100.29 | 105.67 | 105.01 | 110.14 | 118.01 | 114.58 |
| 5           | 115.60 | 111.71 | 110.37 | 107.49 | 110.68 | 105.28 | 101.44 | 106.12 | 104.04 | 110.43 | 117.33 | 114.41 |
| 6           | 115.75 | 110.94 | 109.25 | 108.70 | 110.77 | 103.48 | 102.10 | 106.17 | 104.38 | 111.07 | 116.65 | 115.36 |
| 7           | 115.60 | 110.45 | 109.86 | 109.61 | 110.50 | 104.37 | 101.64 | 105.81 | 105.34 | 111.73 | 115.75 | 115.82 |
| 8           | 115.70 | 110.44 | 111.26 | 109.64 | 109.98 | 105.62 | 101.49 | 105.38 | 106.57 | 112.76 | 115.93 | 116.62 |
| 9           | 115.52 | 109.34 | 110.82 | 110.00 | 110.16 | 105.50 | 103.06 | 105.40 | 106.38 | 113.05 | 116.65 | 115.68 |
| 10          | 115.36 | 108.83 | 110.95 | 109.82 | 110.32 | 105.15 | 103.34 | 105.68 | 106.44 | 113.71 | 116.92 | 114.85 |
| 11          | 114.74 | 108.76 | 111.94 | 109.91 | 110.28 | 104.86 | 103.68 | 106.05 | 107.30 | 113.81 | 116.61 | 114.36 |
| 12          | 114.68 | 108.83 | 109.81 | 111.04 | 110.06 | 103.01 | 105.36 | 106.91 | 107.68 | 113.92 | 116.44 | 114.75 |
| 13          | 115.01 | 108.22 | 108.11 | 110.72 | 109.86 | 101.36 | 105.57 | 107.61 | 108.44 | 113.85 | 116.12 | 116.00 |
| 14          | 115.38 | 106.92 | 108.82 | 110.89 | 108.64 | 101.83 | 106.74 | 106.27 | 109.32 | 114.32 | 115.97 | 116.35 |
| 15          | 115.38 | 105.80 | 109.01 | 110.89 | 107.53 | 102.38 | 107.33 | 104.82 | 110.16 | 115.32 | 115.73 | 116.06 |
| 16          | 115.52 | 106.18 | 110.07 | 110.16 | 108.50 | 101.67 | 106.92 | 104.44 | 110.82 | 115.19 | 116.27 | 114.84 |
| 17          | 114.70 | 107.22 | 110.37 | 108.86 | 109.07 | 101.34 | 104.70 | 104.70 | 111.01 | 115.09 | 116.39 | 114.14 |
| 18          | 114.05 | 106.89 | 110.84 | 108.32 | 108.68 | 101.40 | 103.76 | 104.68 | 110.40 | 115.48 | 116.29 | 114.12 |
| 19          | 114.08 | 106.84 | 109.28 | 109.73 | 107.97 | 101.47 | 104.39 | 104.49 | 110.39 | 115.98 | 116.24 | 114.84 |
| 20          | 114.79 | 107.18 | 107.44 | 110.06 | 106.60 | 101.54 | 104.66 | 105.01 | 111.24 | 116.27 | 115.60 | 115.51 |
| 21          | 115.00 | 108.19 | 108.26 | 110.27 | 104.82 | 101.60 | 103.89 | 104.31 | 112.40 | 116.87 | 115.02 | 116.05 |
| 22          | 114.44 | 106.66 | 109.21 | 110.44 | 106.04 | 101.66 | 103.83 | 103.99 | 113.12 | 117.30 | 115.26 | 116.44 |
| 23          | 113.81 | 106.40 | 108.77 | 109.05 | 106.77 | 101.73 | 103.32 | 104.34 | 113.84 | 116.60 | 115.88 | 116.58 |
| 24          | 113.52 | 108.14 | 107.92 | 107.20 | 106.68 | 100.84 | 102.86 | 105.02 | 114.11 | 115.61 | 116.06 | 115.87 |
| 25          | 112.82 | 108.78 | 106.82 | 107.49 | 107.09 | 100.54 | 103.72 | 105.14 | 113.10 | 115.76 | 116.22 | 114.76 |
| 26          | 112.71 | 107.41 | 106.04 | 109.18 | 107.36 | 100.38 | 104.28 | 104.85 | 112.00 | 116.62 | 116.30 | 115.07 |
| 27          | 113.11 | 105.38 | 105.64 | 110.28 | 105.83 | 99.63  | 105.14 | 104.35 | 111.54 | 116.69 | 116.51 | 115.48 |
| 28          | 113.19 | 105.23 | 106.59 | 111.16 | 104.85 | 100.33 | 105.45 | 103.62 | 111.72 | 116.75 | 115.97 | 115.42 |
| 29          | 113.47 | 106.39 | 108.18 | 110.95 | 105.63 | 102.80 | 105.59 | 103.72 | 111.66 | 116.88 | 116.16 | 114.85 |
| 30          | 113.32 | 106.77 | 108.16 | 110.02 | ---    | 103.23 | 104.93 | 103.31 | 111.98 | 116.85 | 116.60 | 114.29 |
| 31          | 113.30 | ---    | 107.54 | 109.61 | ---    | 104.34 | ---    | 103.71 | ---    | 116.59 | 116.45 | ---    |
| MEAN        | 114.57 | 108.47 | 108.94 | 109.12 | 108.46 | 103.16 | 103.92 | 105.01 | 109.20 | 114.52 | 116.38 | 115.33 |
| WTR YR 1988 | MEAN   | 109.77 |        | HIGH   | 99.63  |        | LOW    | 118.03 |        |        |        |        |



## GROUND-WATER LEVELS

## 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. Water levels for periods of missing record, Jan. 21, May 24, and Aug. 15-26, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.34 ft below land-surface datum, July 5, 1966; lowest, 174.94 ft below land-surface datum, July 22 and 29, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 173.40 | 174.32 | 173.48 | 173.67 | 173.56 | 173.06 | 172.73 | 172.17 | 173.64 | 174.97 | 175.69 | 175.12 |
| 2           | 173.50 | 174.22 | 173.67 | 173.61 | 173.53 | 173.12 | 172.71 | 172.26 | 173.63 | 175.04 | 175.72 | 175.11 |
| 3           | 173.49 | 174.13 | 173.69 | 173.58 | 173.48 | 173.01 | 172.57 | 172.35 | 173.57 | 175.04 | 175.71 | 174.98 |
| 4           | 173.56 | 173.75 | 173.55 | 173.73 | 173.45 | 172.88 | 172.62 | 172.35 | 173.64 | 174.96 | 175.63 | 174.70 |
| 5           | 173.54 | 173.74 | 173.69 | 174.01 | 173.62 | 173.00 | 172.70 | 172.34 | 173.76 | 174.99 | 175.60 | 174.49 |
| 6           | 173.44 | 174.04 | 173.83 | 174.07 | 173.64 | 172.93 | 172.53 | 172.34 | 173.79 | 175.20 | 175.59 | 174.54 |
| 7           | 173.49 | 174.20 | 173.78 | 173.77 | 173.66 | 173.03 | 172.35 | 172.39 | 173.77 | 175.29 | 175.55 | 174.70 |
| 8           | 173.67 | 174.14 | 173.73 | 173.65 | 173.53 | 173.07 | 172.45 | 172.48 | 173.67 | 175.41 | 175.57 | 174.73 |
| 9           | 173.95 | 174.05 | 173.68 | 173.67 | 173.47 | 172.74 | 172.64 | 172.58 | 173.67 | 175.56 | 175.59 | 174.68 |
| 10          | 174.07 | 173.75 | 173.55 | 173.62 | 173.44 | 172.58 | 172.50 | 172.66 | 173.80 | 175.67 | 175.67 | 174.74 |
| 11          | 174.01 | 173.90 | 173.47 | 173.77 | 173.35 | 172.86 | 172.28 | 172.60 | 173.98 | 175.56 | 175.71 | 174.81 |
| 12          | 173.58 | 174.14 | 173.49 | 173.83 | 173.34 | 172.80 | 172.24 | 172.61 | 174.12 | 175.54 | 175.72 | 174.81 |
| 13          | 173.69 | 174.14 | 173.59 | 173.77 | 173.43 | 172.57 | 172.45 | 172.65 | 174.21 | 175.53 | 175.63 | 174.75 |
| 14          | 173.85 | 174.12 | 173.64 | 173.94 | 173.37 | 172.59 | 172.55 | 172.63 | 174.31 | 175.55 | 175.52 | 174.65 |
| 15          | 173.92 | 174.11 | 173.48 | 173.85 | 173.03 | 172.80 | 172.59 | 172.59 | 174.37 | 175.58 | 175.47 | 174.70 |
| 16          | 173.93 | 174.14 | 173.67 | 173.79 | 173.26 | 172.93 | 172.69 | 172.56 | 174.35 | 175.55 | 175.43 | 174.79 |
| 17          | 173.94 | 174.11 | 173.90 | 173.51 | 173.37 | 172.97 | 172.62 | 172.54 | 174.35 | 175.56 | 175.40 | 174.74 |
| 18          | 174.06 | 174.11 | 173.99 | 173.43 | 173.18 | 172.71 | 172.41 | 172.56 | 174.49 | 175.55 | 175.36 | 174.56 |
| 19          | 174.09 | 173.99 | 173.79 | 173.42 | 172.84 | 172.68 | 172.26 | 172.64 | 174.63 | 175.66 | 175.29 | 174.53 |
| 20          | 174.11 | 173.81 | 173.74 | 173.33 | 172.81 | 172.81 | 172.48 | 172.76 | 174.72 | 175.73 | 175.27 | 174.61 |
| 21          | 174.15 | 174.01 | 173.66 | 173.42 | 173.08 | 172.86 | 172.38 | 172.86 | 174.77 | 175.74 | 175.24 | 174.61 |
| 22          | 174.25 | 174.03 | 173.61 | 173.50 | 173.24 | 172.91 | 172.37 | 172.91 | 174.86 | 175.75 | 175.18 | 174.56 |
| 23          | 174.25 | 174.03 | 173.75 | 173.55 | 173.17 | 172.96 | 172.37 | 172.89 | 174.98 | 175.73 | 175.11 | 174.53 |
| 24          | 174.29 | 174.12 | 173.76 | 173.40 | 173.26 | 172.90 | 172.28 | 172.85 | 174.99 | 175.62 | 175.08 | 174.51 |
| 25          | 174.13 | 174.04 | 173.61 | 173.26 | 173.28 | 172.79 | 172.21 | 172.80 | 175.07 | 175.56 | 174.99 | 174.47 |
| 26          | 174.06 | 173.77 | 173.56 | 173.58 | 173.30 | 172.69 | 172.19 | 172.96 | 175.00 | 175.55 | 174.94 | 174.53 |
| 27          | 173.80 | 173.64 | 173.57 | 173.93 | 173.02 | 172.69 | 172.32 | 173.14 | 174.97 | 175.57 | 174.90 | 174.61 |
| 28          | 174.03 | 173.61 | 173.53 | 174.11 | 172.90 | 172.79 | 172.39 | 173.25 | 175.02 | 175.68 | 174.84 | 174.60 |
| 29          | 174.18 | 173.51 | 173.69 | 174.08 | 172.98 | 172.84 | 172.44 | 173.37 | 175.09 | 175.75 | 174.88 | 174.63 |
| 30          | 174.36 | 173.43 | 174.03 | 173.84 | ---    | 172.78 | 172.37 | 173.40 | 175.00 | 175.72 | 174.93 | 174.65 |
| 31          | 174.36 | ---    | 174.07 | 173.57 | ---    | 172.77 | ---    | 173.52 | ---    | 175.71 | 175.01 | ---    |
| MEAN        | 173.91 | 173.97 | 173.69 | 173.69 | 173.30 | 172.84 | 172.46 | 172.71 | 174.34 | 175.49 | 175.36 | 174.68 |
| WTR YR 1988 | MEAN   | 173.87 |        | HIGH   | 172.17 |        | LOW    | 175.75 |        |        |        |        |

## GROUND-WATER LEVELS

411

## 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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 45.80 | 47.14 | 47.88 | 48.65 | 48.25 | 46.99 | 45.10 | 45.00 | 49.60 | 48.73 | 48.63 | 48.54 |
| 2           | 45.85 | 47.16 | 47.92 | 48.67 | 48.27 | 46.96 | 45.09 | 47.36 | 49.94 | 48.70 | 48.56 | 48.53 |
| 3           | 45.91 | 47.18 | 47.92 | 48.66 | 48.29 | 46.94 | 45.07 | 47.82 | 49.97 | 48.67 | 48.47 | 48.52 |
| 4           | 45.94 | 47.20 | 47.96 | 48.68 | 48.32 | 46.89 | 45.05 | 49.00 | 49.62 | 48.65 | 48.42 | 48.51 |
| 5           | 45.98 | 47.25 | 47.99 | 48.68 | 48.37 | 46.76 | 45.07 | 45.24 | 50.86 | 48.61 | 48.40 | 48.50 |
| 6           | 46.03 | 47.30 | 48.02 | 48.66 | 48.40 | 46.54 | 45.08 | 48.51 | 51.21 | 48.59 | 48.39 | 48.48 |
| 7           | 46.08 | 47.32 | 48.05 | 48.63 | 48.38 | 46.40 | 45.05 | 47.64 | 48.50 | 48.58 | 48.41 | 48.47 |
| 8           | 46.14 | 47.34 | 48.08 | 48.63 | 48.35 | 46.24 | 47.32 | 45.46 | 49.09 | 48.57 | 48.43 | 48.45 |
| 9           | 46.19 | 47.35 | 48.10 | 48.62 | 48.33 | 46.04 | 47.70 | 45.44 | 48.61 | 48.59 | 48.45 | 48.44 |
| 10          | 46.24 | 47.38 | 48.12 | 48.62 | 48.31 | 46.01 | 45.17 | 49.77 | 51.36 | 48.69 | 48.44 | 48.40 |
| 11          | 46.25 | 47.44 | 48.15 | 48.62 | 48.28 | 45.93 | 45.12 | 46.47 | 47.40 | 48.68 | 48.43 | 48.33 |
| 12          | 46.28 | 47.47 | 48.19 | 48.63 | 48.28 | 45.80 | 45.14 | 47.56 | 47.45 | 48.65 | 48.45 | 48.26 |
| 13          | 46.36 | 47.49 | 48.23 | 48.64 | 48.26 | 45.69 | 45.18 | 51.35 | 49.68 | 48.63 | 48.47 | 48.19 |
| 14          | 46.41 | 47.52 | 48.24 | 48.65 | 48.23 | 45.63 | 45.21 | 47.85 | 53.82 | 48.61 | 48.45 | 48.14 |
| 15          | 46.44 | 47.55 | 48.28 | 48.65 | 48.22 | 45.58 | 45.22 | 46.52 | 50.19 | 48.60 | 48.44 | 48.13 |
| 16          | 46.47 | 47.58 | 48.33 | 48.66 | 48.28 | 45.52 | 45.25 | 47.72 | 49.92 | 48.64 | 48.40 | 48.10 |
| 17          | 46.52 | 47.62 | 48.35 | 48.64 | 48.30 | 45.45 | 45.26 | 49.12 | 50.82 | 50.61 | 48.36 | 48.07 |
| 18          | 46.55 | 47.65 | 48.37 | 48.66 | 48.28 | 45.36 | 45.23 | 46.14 | 47.87 | 52.31 | 48.32 | 48.03 |
| 19          | 46.59 | 47.66 | 48.39 | 48.67 | 48.18 | 45.38 | 45.23 | 48.40 | 49.87 | 48.87 | 48.30 | 48.27 |
| 20          | 46.64 | 47.67 | 48.42 | 48.66 | 48.06 | 45.35 | 45.22 | 49.09 | 54.27 | 48.91 | 48.31 | 49.06 |
| 21          | 46.97 | 47.69 | 48.44 | 48.64 | 47.88 | 45.31 | 45.14 | 46.10 | 51.06 | 48.91 | 48.34 | 48.00 |
| 22          | 46.76 | 47.70 | 48.47 | 48.61 | 47.65 | 45.30 | 45.10 | 46.15 | 48.00 | 48.87 | 48.33 | 47.97 |
| 23          | 46.80 | 47.72 | 48.51 | 48.55 | 47.46 | 48.43 | 45.06 | 49.41 | 50.19 | 48.85 | 48.41 | 47.97 |
| 24          | 46.83 | 47.74 | 48.53 | 48.49 | 47.38 | 45.29 | 45.02 | 51.52 | 50.31 | 48.84 | 48.51 | 47.99 |
| 25          | 46.85 | 47.76 | 48.55 | 48.45 | 47.26 | 45.24 | 44.98 | 48.89 | 49.07 | 48.80 | 48.51 | 48.00 |
| 26          | 46.88 | 47.78 | 48.57 | 48.44 | 47.16 | 45.22 | 44.97 | 50.76 | 49.71 | 48.78 | 48.56 | 48.01 |
| 27          | 46.92 | 47.79 | 48.58 | 48.40 | 47.06 | 45.22 | 46.68 | 47.50 | 54.39 | 48.63 | 48.62 | 48.01 |
| 28          | 46.97 | 47.80 | 48.59 | 48.34 | 47.04 | 45.19 | 48.15 | 46.60 | 51.27 | 48.50 | 48.57 | 47.99 |
| 29          | 47.03 | 47.83 | 48.64 | 48.28 | 47.00 | 45.16 | 45.10 | 48.31 | 50.22 | 48.53 | 48.53 | 48.00 |
| 30          | 47.08 | 47.84 | 48.65 | 48.24 | ---   | 45.14 | 45.06 | 52.99 | 52.12 | 48.58 | 48.79 | 47.99 |
| 31          | 47.11 | ---   | 48.65 | 48.24 | ---   | 45.36 | ---   | 49.85 | ---   | 48.60 | 48.54 | ---   |
| MEAN        | 46.48 | 47.53 | 48.30 | 48.57 | 47.98 | 45.88 | 45.43 | 48.05 | 50.21 | 48.86 | 48.46 | 48.25 |
| WTR YR 1988 | MEAN  | 47.83 |       | HIGH  | 44.97 |       | LOW   | 54.39 |       |       |       |       |

## GROUND-WATER LEVELS

## 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 periods of missing record, Jan. 1-14, Feb. 21-25, May 3, 6-25, June 3-10, and July 4-11, 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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR   | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| 1           | 131.10 | 125.01 | 118.63 | 112.89 | 107.06 | 102.79 | 99.16 | 97.69  | 108.08 | 127.92 | 132.22 | 145.60 |
| 2           | 130.90 | 124.64 | 118.52 | 112.44 | 106.91 | 102.62 | 99.06 | 97.67  | 108.11 | 128.15 | 132.59 | 145.42 |
| 3           | 130.77 | 124.29 | 118.21 | 112.27 | 106.77 | 102.39 | 98.89 | 97.65  | 109.06 | 128.20 | 132.75 | 144.89 |
| 4           | 130.67 | 124.01 | 117.91 | 112.06 | 106.58 | 102.12 | 98.77 | 97.67  | 110.02 | 128.21 | 132.84 | 144.18 |
| 5           | 130.64 | 123.86 | 117.78 | 111.84 | 106.51 | 102.10 | 98.71 | 97.68  | 110.97 | 128.22 | 133.12 | 143.51 |
| 6           | 130.64 | 123.85 | 117.54 | 111.62 | 106.46 | 101.97 | 98.55 | 98.22  | 111.93 | 128.23 | 133.53 | 142.93 |
| 7           | 130.64 | 123.76 | 117.27 | 111.40 | 106.39 | 101.93 | 98.36 | 98.82  | 112.89 | 128.24 | 134.09 | 142.33 |
| 8           | 130.59 | 123.55 | 117.15 | 111.17 | 106.19 | 101.88 | 98.30 | 98.96  | 113.84 | 128.25 | 134.72 | 141.79 |
| 9           | 130.52 | 123.25 | 117.18 | 110.95 | 106.00 | 101.48 | 98.30 | 99.11  | 114.80 | 128.24 | 135.52 | 141.25 |
| 10          | 130.31 | 122.86 | 117.13 | 110.75 | 105.82 | 101.28 | 98.30 | 99.27  | 115.76 | 128.23 | 136.54 | 140.78 |
| 11          | 129.96 | 122.68 | 116.96 | 110.56 | 105.60 | 101.36 | 98.28 | 99.44  | 116.72 | 128.22 | 137.73 | 140.23 |
| 12          | 129.60 | 122.40 | 116.70 | 110.37 | 105.38 | 101.18 | 98.24 | 99.65  | 116.93 | 128.20 | 138.62 | 139.63 |
| 13          | 129.48 | 122.16 | 116.58 | 110.16 | 105.35 | 100.94 | 98.55 | 99.88  | 117.01 | 128.21 | 139.31 | 139.02 |
| 14          | 129.35 | 122.10 | 116.27 | 109.98 | 105.22 | 100.85 | 98.69 | 100.16 | 117.12 | 128.08 | 140.14 | 138.45 |
| 15          | 129.11 | 122.09 | 115.84 | 109.82 | 104.76 | 100.89 | 98.69 | 100.44 | 117.20 | 127.81 | 140.73 | 137.99 |
| 16          | 128.81 | 122.09 | 115.75 | 109.65 | 104.65 | 100.90 | 98.68 | 100.75 | 117.41 | 127.63 | 141.04 | 137.60 |
| 17          | 128.50 | 122.06 | 115.58 | 109.36 | 104.62 | 100.84 | 98.64 | 101.06 | 117.85 | 127.54 | 141.36 | 137.14 |
| 18          | 128.20 | 122.04 | 115.30 | 109.13 | 104.35 | 100.51 | 98.40 | 101.41 | 118.56 | 127.38 | 141.58 | 136.63 |
| 19          | 127.98 | 122.04 | 114.92 | 108.88 | 103.95 | 100.38 | 98.22 | 101.79 | 119.34 | 127.22 | 141.64 | 136.24 |
| 20          | 127.82 | 121.80 | 114.60 | 108.68 | 103.77 | 100.37 | 98.22 | 102.21 | 119.81 | 127.14 | 142.05 | 135.89 |
| 21          | 127.69 | 121.55 | 114.53 | 108.53 | 103.70 | 100.23 | 98.22 | 102.62 | 119.82 | 127.15 | 142.66 | 135.46 |
| 22          | 127.56 | 121.19 | 114.53 | 108.50 | 103.62 | 100.14 | 98.11 | 103.04 | 119.82 | 127.38 | 143.20 | 135.07 |
| 23          | 127.34 | 120.93 | 114.61 | 108.34 | 103.54 | 100.07 | 98.07 | 103.50 | 121.17 | 127.84 | 143.64 | 134.69 |
| 24          | 127.12 | 120.63 | 114.45 | 108.16 | 103.46 | 99.95  | 98.04 | 104.02 | 123.80 | 128.17 | 144.11 | 134.50 |
| 25          | 126.84 | 120.30 | 114.22 | 107.87 | 103.38 | 99.79  | 97.96 | 104.52 | 124.93 | 128.30 | 144.35 | 134.52 |
| 26          | 126.50 | 120.10 | 114.09 | 107.84 | 103.30 | 99.66  | 97.87 | 105.17 | 125.93 | 128.34 | 144.59 | 134.80 |
| 27          | 126.23 | 119.87 | 113.81 | 107.85 | 103.03 | 99.65  | 97.91 | 105.83 | 126.80 | 128.59 | 144.96 | 134.99 |
| 28          | 126.15 | 119.50 | 113.55 | 107.81 | 102.94 | 99.66  | 97.91 | 106.26 | 127.57 | 129.07 | 145.16 | 134.96 |
| 29          | 125.99 | 119.25 | 113.35 | 107.63 | 102.87 | 99.59  | 97.90 | 106.74 | 127.87 | 129.71 | 145.36 | 134.87 |
| 30          | 125.73 | 118.83 | 113.29 | 107.41 | ---    | 99.45  | 97.81 | 107.27 | 127.84 | 130.56 | 145.40 | 134.64 |
| 31          | 125.40 | ---    | 113.08 | 107.19 | ---    | 99.29  | ---   | 107.74 | ---    | 131.50 | 145.48 | ---    |
| MEAN        | 128.65 | 122.09 | 115.78 | 109.71 | 104.90 | 100.85 | 98.36 | 101.49 | 117.97 | 128.26 | 139.71 | 138.67 |
| WTR YR 1988 | MEAN   | 117.25 |        | HIGH   | 97.65  |        | LOW   | 145.60 |        |        |        |        |

## GROUND-WATER LEVELS

413

## DOUGHERTY COUNTY

313554084062501 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.

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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 146.91 | 149.04 | 142.14 | 135.42 | 133.92 | 129.51 | 127.72 | 126.14 | 136.65 | 144.96 | 145.88 | 148.94 |
| 2           | 147.68 | 148.05 | 141.81 | 135.42 | 133.98 | 131.00 | 126.00 | 126.67 | 137.41 | 144.94 | 146.24 | 148.54 |
| 3           | 147.93 | 148.63 | 141.51 | 135.01 | 134.35 | 130.96 | 127.41 | 128.09 | 138.21 | 143.57 | 146.61 | 149.01 |
| 4           | 147.81 | 148.83 | 140.33 | 134.37 | 134.82 | 130.59 | 127.72 | 127.68 | 138.75 | 141.62 | 146.56 | 149.48 |
| 5           | 145.85 | 147.63 | 142.00 | 131.59 | 135.06 | 131.79 | 127.90 | 128.10 | 139.62 | 139.95 | 145.83 | 149.55 |
| 6           | 145.98 | 146.28 | 142.29 | 131.34 | 135.33 | 132.04 | 128.01 | 129.08 | 139.97 | 141.71 | 145.95 | 149.55 |
| 7           | 146.89 | 146.36 | 142.27 | 133.51 | 135.35 | 131.37 | 128.49 | 129.64 | 140.05 | 141.27 | 145.06 | 149.56 |
| 8           | 148.01 | 147.17 | 141.51 | 131.26 | 134.90 | 128.64 | 128.73 | 130.28 | 140.02 | 142.03 | 143.82 | 149.36 |
| 9           | 148.61 | 146.71 | 141.27 | 129.70 | 134.72 | 126.95 | 128.82 | 130.46 | 139.66 | 142.41 | 142.30 | 148.90 |
| 10          | 148.81 | 144.44 | 141.84 | 129.23 | 134.75 | 128.55 | 128.67 | 130.06 | 140.44 | 141.00 | 143.82 | 148.63 |
| 11          | 148.90 | 145.68 | 141.07 | 129.76 | 134.75 | 126.58 | 126.65 | 129.61 | 139.56 | 141.88 | 145.86 | 146.92 |
| 12          | 148.74 | 144.07 | 141.33 | 130.96 | 134.59 | 125.19 | 128.31 | 130.49 | 140.36 | 140.97 | 146.41 | 145.86 |
| 13          | 148.98 | 145.48 | 138.71 | 131.39 | 132.62 | 124.33 | 128.86 | 129.99 | 140.54 | 140.53 | 144.00 | 145.56 |
| 14          | 149.45 | 145.87 | 137.07 | 130.93 | 133.71 | 124.45 | 129.19 | 130.44 | 140.64 | 140.35 | 142.75 | 146.64 |
| 15          | 148.68 | 145.95 | 137.90 | 131.67 | 133.58 | 127.42 | 129.70 | 130.45 | 140.51 | 141.83 | 143.69 | 147.36 |
| 16          | 149.10 | 145.17 | 139.25 | 129.65 | 133.77 | 128.84 | 130.06 | 128.94 | 140.67 | 139.59 | 146.35 | 147.69 |
| 17          | 149.25 | 142.92 | 139.16 | 130.62 | 133.73 | 129.29 | 130.15 | 130.47 | 141.35 | 139.20 | 147.46 | 147.26 |
| 18          | 149.02 | 144.32 | 139.38 | 131.74 | 133.48 | 129.24 | 130.26 | 131.37 | 141.81 | 139.67 | 147.93 | 143.98 |
| 19          | 148.82 | 143.82 | 139.33 | 132.04 | 132.88 | 129.21 | 130.57 | 131.84 | 142.66 | 141.15 | 148.28 | 142.66 |
| 20          | 147.69 | 144.37 | 138.17 | 129.66 | 133.17 | 127.16 | 130.88 | 132.52 | 143.29 | 141.85 | 148.63 | 144.42 |
| 21          | 148.56 | 144.59 | 136.37 | 130.06 | 132.82 | 126.52 | 129.45 | 133.23 | 143.46 | 142.40 | 147.35 | 145.00 |
| 22          | 148.93 | 144.45 | 136.11 | 132.65 | 130.63 | 127.74 | 130.01 | 133.66 | 144.60 | 142.31 | 146.83 | 145.45 |
| 23          | 148.98 | 144.26 | 137.35 | 133.15 | 131.45 | 127.95 | 130.35 | 134.20 | 145.51 | 143.19 | 148.42 | 146.14 |
| 24          | 149.08 | 144.14 | 137.30 | 130.68 | 131.80 | 127.11 | 128.97 | 134.73 | 146.31 | 143.49 | 148.92 | 146.60 |
| 25          | 148.95 | 143.81 | 136.92 | 132.16 | 132.15 | 128.12 | 127.43 | 135.34 | 146.93 | 143.36 | 149.33 | 144.69 |
| 26          | 148.91 | 142.08 | 136.10 | 132.36 | 132.33 | 127.92 | 126.95 | 135.24 | 146.58 | 143.51 | 149.49 | 143.70 |
| 27          | 148.86 | 142.30 | 136.53 | 132.06 | 132.32 | 127.22 | 127.37 | 134.37 | 146.62 | 144.10 | 149.51 | 145.91 |
| 28          | 149.05 | 142.90 | 136.31 | 133.77 | 131.07 | 127.21 | 127.08 | 134.56 | 146.08 | 144.71 | 149.33 | 146.71 |
| 29          | 149.16 | 142.82 | 135.43 | 134.30 | 129.00 | 126.25 | 127.36 | 135.52 | 145.72 | 145.42 | 149.00 | 147.19 |
| 30          | 149.32 | 142.50 | 135.42 | 134.74 | ---    | 125.83 | 127.58 | 135.96 | 144.18 | 145.87 | 148.84 | 147.47 |
| 31          | 149.45 | ---    | 135.42 | 134.21 | ---    | 125.34 | ---    | 136.16 | ---    | 145.97 | 149.07 | ---    |
| MEAN        | 148.46 | 145.15 | 138.95 | 132.11 | 133.35 | 128.07 | 128.56 | 131.46 | 141.94 | 142.41 | 146.76 | 146.96 |
| WTR YR 1988 | MEAN   | 138.69 |        | HIGH   | 124.33 |        | LOW    | 149.56 |        |        |        |        |

## GROUND-WATER LEVELS

## DOUGHERTY COUNTY

313748084002901 Local number, 13L003.

LOCATION.--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.

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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 36.50 | 38.03 | 38.92 | 39.95 | 38.56 | 36.21 | 33.34 | 31.48 | 34.08 | 35.62 | 37.48 | 38.69 |
| 2           | 36.57 | 38.03 | 39.03 | 39.98 | 38.56 | 36.17 | 33.37 | 31.53 | 34.01 | 35.69 | 37.43 | 38.71 |
| 3           | 36.65 | 38.03 | 38.96 | 39.84 | 38.55 | 36.08 | 33.35 | 31.56 | 34.15 | 35.71 | 37.34 | 38.67 |
| 4           | 36.65 | 38.02 | 39.04 | 39.84 | 38.58 | 35.86 | 33.35 | 31.55 | 34.27 | 35.77 | 37.35 | 38.65 |
| 5           | 36.62 | 38.12 | 39.13 | 39.87 | 38.64 | 35.63 | 33.42 | 31.62 | 34.34 | 35.83 | 37.37 | 38.60 |
| 6           | 36.66 | 38.28 | 39.17 | 39.84 | 38.64 | 35.29 | 33.34 | 31.63 | 34.39 | 35.91 | 37.43 | 38.61 |
| 7           | 36.82 | 38.32 | 39.17 | 39.73 | 38.59 | 35.10 | 33.32 | 31.78 | 34.19 | 36.01 | 37.52 | 38.65 |
| 8           | 36.97 | 38.32 | 39.16 | 39.70 | 38.43 | 34.91 | 33.47 | 31.87 | 34.07 | 35.96 | 37.64 | 38.60 |
| 9           | 37.04 | 38.29 | 39.17 | 39.83 | 38.38 | 34.44 | 33.59 | 31.92 | 34.15 | 35.99 | 37.75 | 38.59 |
| 10          | 37.06 | 38.32 | 39.19 | 39.94 | 38.38 | 34.12 | 33.56 | 31.97 | 34.29 | 36.05 | 37.92 | 38.53 |
| 11          | 37.03 | 38.45 | 39.25 | 40.00 | 38.28 | 34.14 | 33.49 | 31.99 | 34.43 | 36.10 | 37.88 | 38.51 |
| 12          | 37.05 | 38.51 | 39.36 | 40.03 | 38.31 | 33.80 | 33.54 | 32.05 | 34.55 | 36.12 | 37.97 | 38.49 |
| 13          | 37.18 | 38.50 | 39.46 | 40.03 | 38.36 | 33.52 | 33.69 | 32.10 | 34.53 | 36.15 | 38.08 | 38.39 |
| 14          | 37.27 | 38.53 | 39.43 | 40.05 | 38.36 | 33.49 | 33.75 | 32.09 | 34.64 | 36.19 | 38.20 | 38.37 |
| 15          | 37.29 | 38.61 | 39.43 | 39.97 | 38.24 | 33.61 | 33.77 | 32.11 | 34.76 | 36.23 | 38.10 | 38.44 |
| 16          | 37.32 | 38.56 | 39.60 | 39.97 | 38.47 | 33.63 | 33.82 | 32.23 | 34.93 | 36.24 | 38.06 | 38.52 |
| 17          | 37.36 | 38.54 | 39.62 | 39.92 | 38.51 | 33.56 | 33.78 | 32.42 | 35.03 | 36.28 | 38.06 | 38.50 |
| 18          | 37.39 | 38.58 | 39.67 | 39.85 | 38.43 | 33.33 | 33.67 | 32.48 | 35.23 | 36.36 | 38.06 | 38.52 |
| 19          | 37.43 | 38.60 | 39.66 | 39.55 | 38.12 | 33.42 | 33.44 | 32.57 | 35.24 | 36.61 | 38.12 | 38.56 |
| 20          | 37.50 | 38.62 | 39.67 | 39.22 | 37.90 | 33.54 | 33.20 | 32.72 | 35.27 | 36.77 | 38.16 | 38.63 |
| 21          | 37.58 | 38.64 | 39.67 | 39.03 | 37.59 | 33.49 | 32.80 | 32.90 | 35.44 | 36.76 | 38.24 | 38.63 |
| 22          | 37.64 | 38.72 | 39.70 | 38.96 | 37.21 | 33.51 | 32.60 | 32.98 | 35.51 | 36.80 | 38.34 | 38.61 |
| 23          | 37.67 | 38.77 | 39.74 | 38.81 | 36.77 | 33.54 | 32.48 | 33.07 | 35.63 | 36.86 | 38.44 | 38.65 |
| 24          | 37.68 | 38.76 | 39.75 | 38.61 | 36.63 | 33.49 | 32.34 | 33.13 | 35.69 | 36.90 | 38.50 | 38.72 |
| 25          | 37.67 | 38.70 | 39.73 | 38.53 | 36.52 | 33.43 | 32.22 | 33.15 | 35.88 | 36.97 | 38.55 | 38.73 |
| 26          | 37.66 | 38.68 | 39.74 | 38.51 | 36.40 | 33.38 | 32.02 | 33.39 | 35.65 | 37.15 | 38.49 | 38.78 |
| 27          | 37.73 | 38.68 | 39.80 | 38.48 | 36.18 | 33.39 | 31.94 | 33.64 | 35.56 | 37.35 | 38.53 | 38.88 |
| 28          | 37.85 | 38.73 | 39.81 | 38.53 | 36.19 | 33.42 | 31.83 | 33.74 | 35.61 | 37.37 | 38.51 | 38.93 |
| 29          | 37.95 | 38.78 | 39.94 | 38.55 | 36.17 | 33.36 | 31.70 | 33.67 | 35.59 | 37.39 | 38.52 | 39.02 |
| 30          | 37.95 | 38.83 | 39.97 | 38.53 | ---   | 33.33 | 31.56 | 33.72 | 35.56 | 37.40 | 38.54 | 39.08 |
| 31          | 38.03 | ---   | 39.93 | 38.54 | ---   | 33.32 | ---   | 33.88 | ---   | 37.43 | 38.61 | ---   |
| MEAN        | 37.28 | 38.49 | 39.48 | 39.43 | 37.86 | 34.11 | 33.06 | 32.48 | 34.89 | 36.45 | 38.04 | 38.64 |
| WTR YR 1988 | MEAN  | 36.68 |       | HIGH  | 31.48 |       | LOW   | 40.05 |       |       |       |       |



## GROUND-WATER LEVELS

415

## 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.

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, 10.95 ft below land-surface datum, Sept. 2, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN  | FEB  | MAR  | APR  | MAY   | JUN  | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|------|------|------|------|-------|------|-------|-------|-------|
| 1           | 9.85  | 9.88  | 9.77  | 9.68 | 8.90 | 8.65 | 8.55 | 7.58  | 8.78 | 9.83  | 10.49 | 10.93 |
| 2           | 9.87  | 9.86  | 9.98  | 9.65 | 8.85 | 8.67 | 8.55 | 7.64  | 8.84 | 9.94  | 10.55 | 10.95 |
| 3           | 9.96  | 9.85  | 9.95  | 9.56 | 8.80 | 8.63 | 8.51 | 7.65  | 8.85 | 9.95  | 10.61 | 10.86 |
| 4           | 10.01 | 9.82  | 9.94  | 9.44 | 8.30 | 8.57 | 8.47 | 7.65  | 8.94 | 10.01 | 10.58 | 10.73 |
| 5           | 9.90  | 9.89  | 10.05 | 9.52 | 8.17 | 8.68 | 8.50 | 7.68  | 9.01 | 10.05 | 10.54 | 10.62 |
| 6           | 8.99  | 10.05 | 10.09 | 9.54 | 8.25 | 8.65 | 8.44 | 7.69  | 9.05 | 10.06 | 10.53 | 10.61 |
| 7           | 8.94  | 10.07 | 10.09 | 9.47 | 8.32 | 8.52 | 8.41 | 7.75  | 9.10 | 10.06 | 10.58 | 10.66 |
| 8           | 9.03  | 10.05 | 10.07 | 9.43 | 8.27 | 8.55 | 8.49 | 7.82  | 9.05 | 10.08 | 10.58 | 10.67 |
| 9           | 9.07  | 10.00 | 10.01 | 9.50 | 8.29 | 8.38 | 8.57 | 7.84  | 9.08 | 10.06 | 10.59 | 10.62 |
| 10          | 9.07  | 9.89  | 9.95  | 9.55 | 8.32 | 8.12 | 8.56 | 7.83  | 9.23 | 10.14 | 10.60 | 10.63 |
| 11          | 9.03  | 9.97  | 9.93  | 9.50 | 8.35 | 8.25 | 8.45 | 7.85  | 9.27 | 10.20 | 10.64 | 10.62 |
| 12          | 8.96  | 10.06 | 9.95  | 9.39 | 8.33 | 8.30 | 8.30 | 7.79  | 9.28 | 10.21 | 10.64 | 10.60 |
| 13          | 9.11  | 10.02 | 10.08 | 9.34 | 8.41 | 8.25 | 8.30 | 8.02  | 9.38 | 10.23 | 10.64 | 10.56 |
| 14          | 9.25  | 10.03 | 10.08 | 9.34 | 8.45 | 8.25 | 8.37 | 8.01  | 9.50 | 10.35 | 10.64 | 10.53 |
| 15          | 9.33  | 10.08 | 9.94  | 9.31 | 8.34 | 8.33 | 8.39 | 7.98  | 9.54 | 10.29 | 10.65 | 10.58 |
| 16          | 9.37  | 10.07 | 9.97  | 9.33 | 8.45 | 8.42 | 8.44 | 8.00  | 9.52 | 10.32 | 10.67 | 10.62 |
| 17          | 9.42  | 9.96  | 10.03 | 9.28 | 8.54 | 8.45 | 8.45 | 7.99  | 9.48 | 10.32 | 10.70 | 10.52 |
| 18          | 9.45  | 9.98  | 10.04 | 9.00 | 8.45 | 8.35 | 8.30 | 8.06  | 9.49 | 10.34 | 10.72 | 10.40 |
| 19          | 9.48  | 9.99  | 10.02 | 8.85 | 8.35 | 8.28 | 8.20 | 8.12  | 9.52 | 10.41 | 10.79 | 10.36 |
| 20          | 9.57  | 9.94  | 9.95  | 8.62 | 8.32 | 8.35 | 8.30 | 8.17  | 9.55 | 10.55 | 10.86 | 10.38 |
| 21          | 9.63  | 9.97  | 9.93  | 8.50 | 8.50 | 8.37 | 8.25 | 8.24  | 9.68 | 10.57 | 10.83 | 10.40 |
| 22          | 9.62  | 10.06 | 9.76  | 8.60 | 8.52 | 8.45 | 8.27 | 8.27  | 9.63 | 10.49 | 10.80 | 10.39 |
| 23          | 9.61  | 10.05 | 9.79  | 8.65 | 8.50 | 8.52 | 8.29 | 8.32  | 9.65 | 10.44 | 10.80 | 10.35 |
| 24          | 9.63  | 10.08 | 9.82  | 8.66 | 8.56 | 8.50 | 8.24 | 8.35  | 9.68 | 10.46 | 10.70 | 10.38 |
| 25          | 9.61  | 10.04 | 9.76  | 8.62 | 8.57 | 8.45 | 8.18 | 8.36  | 9.70 | 10.46 | 10.68 | 10.40 |
| 26          | 9.59  | 9.93  | 9.74  | 8.76 | 8.60 | 8.38 | 7.75 | 8.54  | 9.65 | 10.47 | 10.69 | 10.45 |
| 27          | 9.62  | 9.90  | 9.75  | 8.92 | 8.49 | 8.44 | 7.57 | 8.55  | 9.65 | 10.47 | 10.76 | 10.49 |
| 28          | 9.65  | 9.87  | 9.64  | 8.99 | 8.55 | 8.52 | 7.64 | 8.60  | 9.79 | 10.51 | 10.79 | 10.50 |
| 29          | 9.74  | 9.84  | 9.65  | 8.97 | 8.57 | 8.55 | 7.63 | 8.60  | 9.84 | 10.50 | 10.80 | 10.52 |
| 30          | 9.78  | 9.82  | 9.78  | 8.95 | ---  | 8.55 | 7.60 | 8.68  | 9.82 | 10.48 | 10.83 | 10.52 |
| 31          | 9.86  | ---   | 9.75  | 8.90 | ---  | 8.58 | ---  | 8.72  | ---  | 10.45 | 10.87 | ---   |
| MEAN        | 9.48  | 9.97  | 9.91  | 9.16 | 8.46 | 8.45 | 8.27 | 8.08  | 9.39 | 10.28 | 10.68 | 10.56 |
| WTR YR 1988 | MEAN  | 9.39  |       | HIGH | 7.57 |      | LOW  | 10.95 |      |       |       |       |



## GROUND-WATER LEVELS

## 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.

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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | -13.08 | -5.88  | -12.48 | -12.97 | -13.89 | -13.66 | -13.26 | -12.93 | -13.99 | -13.16 | -16.63 | -15.01 |
| 2           | -13.44 | -8.25  | -13.19 | -12.84 | -13.88 | -12.74 | -13.67 | -12.71 | -14.71 | -12.73 | -16.47 | -14.96 |
| 3           | -13.20 | -9.78  | -12.67 | -11.95 | -12.67 | -12.94 | -13.72 | -11.95 | -14.61 | -12.32 | -15.17 | -14.72 |
| 4           | -13.18 | -8.82  | -12.72 | -12.18 | -13.79 | -13.22 | -13.51 | -13.23 | -14.59 | -12.20 | -15.73 | -15.27 |
| 5           | -13.06 | -9.55  | -12.14 | -11.65 | -13.25 | -13.61 | -13.95 | -13.33 | -14.22 | -13.23 | -15.78 | -14.45 |
| 6           | -13.61 | -9.26  | -12.28 | -11.98 | -13.26 | -13.38 | -13.55 | -13.99 | -14.09 | -13.62 | -15.56 | -14.78 |
| 7           | -13.83 | -9.66  | -11.82 | -11.95 | -14.00 | -13.23 | -13.97 | -14.37 | -14.54 | -12.75 | -15.94 | -14.90 |
| 8           | -14.32 | -9.37  | -11.76 | -12.22 | -13.23 | -12.53 | -13.61 | -12.73 | -13.83 | -12.66 | -16.72 | -14.75 |
| 9           | -15.14 | -9.60  | -12.00 | -12.06 | -13.88 | -12.85 | -13.67 | -9.83  | -14.79 | -14.25 | -16.91 | -15.69 |
| 10          | -15.20 | -10.75 | -11.35 | -11.70 | -13.80 | -12.61 | -13.95 | -7.65  | -14.35 | -14.44 | -16.88 | -15.60 |
| 11          | -15.40 | -11.21 | -12.18 | -12.32 | -13.56 | -12.89 | -13.90 | -3.24  | -15.37 | -15.25 | -16.65 | -14.45 |
| 12          | -13.10 | -11.56 | -12.36 | -13.02 | -12.98 | -12.95 | -13.33 | .25    | -15.08 | -15.08 | -16.14 | -14.30 |
| 13          | -10.75 | -12.99 | -12.20 | -12.99 | -12.68 | -12.68 | -13.00 | -2.73  | -15.26 | -15.20 | -15.71 | -14.58 |
| 14          | -10.40 | -14.30 | -12.78 | -12.33 | -12.67 | -13.43 | -13.94 | -6.71  | -15.85 | -13.98 | -16.05 | -14.50 |
| 15          | -11.72 | -12.98 | -12.35 | -12.88 | -13.51 | -13.05 | -12.95 | -10.36 | -15.62 | -15.24 | -15.70 | -14.57 |
| 16          | -12.92 | -12.14 | -13.36 | -12.98 | -13.45 | -13.11 | -13.57 | -12.26 | -14.03 | -15.00 | -16.39 | -14.65 |
| 17          | -12.27 | -12.33 | -12.89 | -12.99 | -12.44 | -13.49 | -13.55 | -12.74 | -14.41 | -15.13 | -16.57 | -14.10 |
| 18          | -11.68 | -11.99 | -12.69 | -11.42 | -12.71 | -13.53 | -13.61 | -12.65 | -14.94 | -15.31 | -16.58 | -14.20 |
| 19          | -11.90 | -11.83 | -12.62 | -11.17 | -12.15 | -13.53 | -13.27 | -13.03 | -14.54 | -16.05 | -17.16 | -14.70 |
| 20          | -12.68 | -12.05 | -11.47 | -12.30 | -12.72 | -13.40 | -12.28 | -13.22 | -14.48 | -15.99 | -17.17 | -13.84 |
| 21          | -12.78 | -11.96 | -10.80 | -12.45 | -13.14 | -14.17 | -13.46 | -13.94 | -14.28 | -15.70 | -16.75 | -15.30 |
| 22          | -13.09 | -12.68 | -10.97 | -11.45 | -13.83 | -14.27 | -12.92 | -14.21 | -13.40 | -15.34 | -15.93 | -15.14 |
| 23          | -11.99 | -12.82 | -11.48 | -12.81 | -14.10 | -12.73 | -12.77 | -14.33 | -13.42 | -15.71 | -16.20 | -14.86 |
| 24          | -11.35 | -12.89 | -11.39 | -12.47 | -13.71 | -13.13 | -12.63 | -14.53 | -14.07 | -15.84 | -15.85 | -15.46 |
| 25          | -10.80 | -12.38 | -11.86 | -12.71 | -14.21 | -13.50 | -11.97 | -13.06 | -14.09 | -16.02 | -14.37 | -15.35 |
| 26          | -11.96 | -11.98 | -11.96 | -13.53 | -13.92 | -13.77 | -12.37 | -14.29 | -13.39 | -16.36 | -15.49 | -15.18 |
| 27          | -11.09 | -11.86 | -11.76 | -13.36 | -13.31 | -13.93 | -12.87 | -14.39 | -13.62 | -16.70 | -15.02 | -15.17 |
| 28          | -11.33 | -11.70 | -11.95 | -12.90 | -13.19 | -13.49 | -13.12 | -14.66 | -13.37 | -16.43 | -15.29 | -15.19 |
| 29          | -12.39 | -12.07 | -12.77 | -13.15 | -13.76 | -12.92 | -13.45 | -14.53 | -13.14 | -16.97 | -15.45 | -14.48 |
| 30          | -11.12 | -12.50 | -12.50 | -13.96 | ---    | -12.26 | -13.01 | -14.59 | -12.80 | -16.75 | -14.49 | -14.38 |
| 31          | -7.75  | ---    | -12.41 | -13.54 | ---    | -13.36 | ---    | -14.89 | ---    | -16.67 | -15.79 | ---    |
| MEAN        | -12.47 | -11.24 | -12.17 | -12.52 | -13.37 | -13.24 | -13.29 | -11.83 | -14.30 | -14.91 | -16.02 | -14.82 |
| WTR YR 1988 | MEAN   | -13.35 |        | MAX    | .25    |        | MIN    | -17.17 |        |        |        |        |

## GROUND-WATER LEVELS

417

## 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 periods of missing record, Jan. 22-29, Feb. 5, and Mar. 30, 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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 34.34 | 36.11 | 36.50 | 36.91 | 32.37 | 29.20 | 28.51 | 27.52 | 31.53 | 34.86 | 36.74 | 37.63 |
| 2           | 34.45 | 36.13 | 36.58 | 36.91 | 32.29 | 29.21 | 28.60 | 27.49 | 31.63 | 34.96 | 36.74 | 37.67 |
| 3           | 34.52 | 36.14 | 36.61 | 36.91 | 32.22 | 29.19 | 28.66 | 27.53 | 31.74 | 35.04 | 36.74 | 37.68 |
| 4           | 34.62 | 36.15 | 36.58 | 36.91 | 32.16 | 29.04 | 28.72 | 27.56 | 31.94 | 35.11 | 36.75 | 37.67 |
| 5           | 34.64 | 36.16 | 36.65 | 36.72 | 32.20 | 28.94 | 28.82 | 27.62 | 32.13 | 35.18 | 36.75 | 37.61 |
| 6           | 34.64 | 36.26 | 36.69 | 36.59 | 32.23 | 28.76 | 28.89 | 27.69 | 32.27 | 35.25 | 36.75 | 37.61 |
| 7           | 34.70 | 36.34 | 36.73 | 36.45 | 32.31 | 28.59 | 28.95 | 27.83 | 32.38 | 35.31 | 36.75 | 37.62 |
| 8           | 34.83 | 36.36 | 36.72 | 36.33 | 32.25 | 28.46 | 29.07 | 27.98 | 32.43 | 35.37 | 36.75 | 37.65 |
| 9           | 34.94 | 36.37 | 36.75 | 36.30 | 32.20 | 28.22 | 29.25 | 28.14 | 32.51 | 35.46 | 36.76 | 37.61 |
| 10          | 34.99 | 36.34 | 36.70 | 36.26 | 32.17 | 28.00 | 29.35 | 28.29 | 32.65 | 35.56 | 36.80 | 37.61 |
| 11          | 34.99 | 36.38 | 36.67 | 36.20 | 32.16 | 27.97 | 29.38 | 28.44 | 32.79 | 35.67 | 36.85 | 37.61 |
| 12          | 34.99 | 36.46 | 36.68 | 36.12 | 32.12 | 27.83 | 29.40 | 28.64 | 32.91 | 35.75 | 36.87 | 37.59 |
| 13          | 35.08 | 36.47 | 36.77 | 36.01 | 32.15 | 27.64 | 29.51 | 28.81 | 33.02 | 35.83 | 36.88 | 37.57 |
| 14          | 35.18 | 36.49 | 36.81 | 36.00 | 32.18 | 27.52 | 29.64 | 28.93 | 33.14 | 35.88 | 36.90 | 37.57 |
| 15          | 35.24 | 36.55 | 36.76 | 35.95 | 32.13 | 27.52 | 29.73 | 29.04 | 33.26 | 35.92 | 36.91 | 37.53 |
| 16          | 35.28 | 36.58 | 36.78 | 35.88 | 32.12 | 27.55 | 29.85 | 29.17 | 33.35 | 35.99 | 36.94 | 37.52 |
| 17          | 35.31 | 36.54 | 36.83 | 35.78 | 32.19 | 27.57 | 29.94 | 29.29 | 33.45 | 36.06 | 36.96 | 37.51 |
| 18          | 35.36 | 36.50 | 36.86 | 35.65 | 32.19 | 27.51 | 29.95 | 29.43 | 33.59 | 36.13 | 36.98 | 37.51 |
| 19          | 35.42 | 36.52 | 36.87 | 35.43 | 31.98 | 27.45 | 29.76 | 29.58 | 33.74 | 36.22 | 37.03 | 37.50 |
| 20          | 35.47 | 36.50 | 36.85 | 34.99 | 31.64 | 27.54 | 29.51 | 29.76 | 33.86 | 36.31 | 37.07 | 37.48 |
| 21          | 35.55 | 36.51 | 36.85 | 34.46 | 31.22 | 27.62 | 29.21 | 29.95 | 33.95 | 36.36 | 37.15 | 37.08 |
| 22          | 35.65 | 36.55 | 36.82 | 34.24 | 30.77 | 27.71 | 28.99 | 30.12 | 34.03 | 36.43 | 37.24 | 36.64 |
| 23          | 35.71 | 36.58 | 36.82 | 33.90 | 30.31 | 27.81 | 28.88 | 30.28 | 34.12 | 36.47 | 37.30 | 36.65 |
| 24          | 35.75 | 36.62 | 36.82 | 33.62 | 29.98 | 27.87 | 28.78 | 30.43 | 34.27 | 36.49 | 37.32 | 36.68 |
| 25          | 35.77 | 36.63 | 36.82 | 33.30 | 29.76 | 27.90 | 28.70 | 30.54 | 34.40 | 36.51 | 37.32 | 36.72 |
| 26          | 35.78 | 36.57 | 36.82 | 33.21 | 29.58 | 27.92 | 28.45 | 30.71 | 34.47 | 36.54 | 37.33 | 36.78 |
| 27          | 35.79 | 36.54 | 36.82 | 33.10 | 29.37 | 27.99 | 28.11 | 30.87 | 34.52 | 36.59 | 37.39 | 36.85 |
| 28          | 35.87 | 36.51 | 36.82 | 32.97 | 29.25 | 28.12 | 27.88 | 31.00 | 34.64 | 36.67 | 37.44 | 36.87 |
| 29          | 35.95 | 36.49 | 36.84 | 32.85 | 29.21 | 28.23 | 27.73 | 31.11 | 34.73 | 36.73 | 37.47 | 36.90 |
| 30          | 36.02 | 36.47 | 36.90 | 32.58 | ---   | 28.32 | 27.61 | 31.26 | 34.80 | 36.77 | 37.49 | 36.95 |
| 31          | 36.08 | ---   | 36.91 | 32.45 | ---   | 28.41 | ---   | 31.42 | ---   | 36.75 | 37.54 | ---   |
| MEAN        | 35.26 | 36.43 | 36.76 | 35.19 | 31.47 | 28.12 | 28.99 | 29.24 | 33.28 | 35.94 | 37.03 | 37.33 |
| WTR YR 1988 | MEAN  | 33.76 |       | HIGH  | 27.45 |       | LOW   | 37.68 |       |       |       |       |

## GROUND-WATER LEVELS

## 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.

PERIOD OF RECORD.--August 31, 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 95.94 ft below land-surface datum, May 19, 1988; lowest, 212.89 ft below land-surface datum, Aug. 9, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 139.67 | 133.97 | 122.16 | 114.67 | 109.97 | 107.00 | 111.75 | 100.47 | 97.25  | 106.01 | 109.58 | 117.56 |
| 2           | 139.54 | 133.57 | 121.80 | 114.27 | 109.84 | 106.94 | 111.82 | 99.97  | 97.43  | 106.18 | 109.82 | 117.54 |
| 3           | 139.47 | 133.16 | 121.44 | 114.15 | 109.74 | 106.86 | 111.50 | 99.50  | 97.57  | 106.33 | 109.94 | 117.50 |
| 4           | 139.44 | 132.75 | 121.10 | 114.00 | 109.59 | 106.85 | 111.04 | 99.05  | 97.73  | 106.47 | 110.10 | 117.44 |
| 5           | 139.48 | 132.37 | 120.78 | 113.83 | 109.50 | 106.89 | 110.51 | 98.64  | 97.91  | 106.61 | 110.29 | 117.36 |
| 6           | 139.55 | 132.05 | 120.48 | 113.66 | 109.39 | 106.98 | 110.42 | 98.26  | 98.10  | 106.79 | 110.53 | 117.25 |
| 7           | 139.61 | 131.71 | 120.18 | 113.49 | 109.33 | 107.10 | 110.36 | 97.95  | 98.28  | 106.97 | 110.73 | 117.14 |
| 8           | 139.63 | 131.33 | 120.04 | 113.31 | 109.22 | 107.32 | 110.52 | 97.67  | 98.46  | 107.18 | 110.93 | 117.00 |
| 9           | 139.63 | 130.92 | 119.58 | 113.14 | 109.11 | 107.59 | 110.92 | 97.41  | 98.69  | 107.43 | 111.14 | 116.87 |
| 10          | 139.33 | 130.50 | 119.31 | 112.99 | 109.02 | 107.94 | 111.40 | 97.15  | 98.94  | 107.69 | 111.56 | 116.72 |
| 11          | 138.84 | 130.14 | 119.05 | 112.85 | 108.94 | 108.25 | 111.90 | 96.91  | 99.27  | 107.97 | 112.27 | 116.55 |
| 12          | 138.16 | 129.80 | 118.78 | 112.72 | 108.81 | 108.57 | 112.44 | 96.70  | 99.63  | 108.14 | 112.98 | 116.38 |
| 13          | 137.56 | 129.43 | 118.52 | 112.56 | 108.73 | 108.92 | 112.38 | 96.52  | 100.00 | 108.24 | 113.50 | 116.21 |
| 14          | 137.22 | 129.05 | 118.28 | 112.43 | 108.64 | 109.18 | 111.79 | 96.38  | 100.34 | 108.31 | 113.84 | 116.02 |
| 15          | 136.76 | 128.68 | 118.03 | 112.32 | 108.54 | 109.44 | 110.99 | 96.25  | 100.67 | 108.36 | 114.09 | 115.85 |
| 16          | 136.40 | 128.30 | 117.77 | 112.16 | 108.44 | 109.71 | 110.16 | 96.14  | 100.98 | 108.38 | 114.33 | 115.67 |
| 17          | 136.19 | 127.77 | 117.54 | 112.04 | 108.36 | 109.99 | 109.38 | 96.04  | 101.26 | 108.40 | 114.45 | 115.50 |
| 18          | 136.24 | 127.39 | 117.40 | 111.91 | 108.31 | 110.25 | 108.61 | 95.97  | 101.58 | 108.42 | 114.59 | 115.34 |
| 19          | 136.42 | 127.05 | 117.40 | 111.71 | 108.17 | 110.47 | 107.85 | 95.94  | 101.96 | 108.43 | 114.69 | 115.18 |
| 20          | 136.69 | 126.66 | 117.40 | 111.56 | 108.01 | 110.54 | 107.16 | 95.94  | 102.27 | 108.43 | 115.07 | 115.03 |
| 21          | 136.98 | 126.31 | 116.67 | 111.38 | 107.90 | 110.50 | 106.48 | 95.94  | 102.49 | 108.44 | 115.75 | 114.87 |
| 22          | 137.20 | 125.95 | 116.40 | 111.23 | 107.78 | 110.33 | 105.83 | 95.94  | 102.80 | 108.45 | 116.30 | 114.69 |
| 23          | 137.25 | 125.56 | 116.17 | 111.10 | 107.67 | 110.11 | 105.13 | 95.99  | 103.19 | 108.45 | 116.74 | 114.52 |
| 24          | 137.22 | 125.19 | 115.95 | 110.97 | 107.55 | 110.00 | 104.45 | 96.09  | 103.59 | 108.46 | 117.07 | 114.36 |
| 25          | 137.27 | 124.71 | 115.74 | 110.81 | 107.47 | 109.98 | 103.80 | 96.18  | 103.99 | 108.47 | 117.27 | 114.18 |
| 26          | 137.38 | 124.24 | 115.54 | 110.67 | 107.35 | 109.98 | 103.18 | 96.41  | 104.37 | 108.47 | 117.37 | 114.02 |
| 27          | 137.47 | 123.78 | 115.36 | 110.57 | 107.25 | 110.02 | 102.60 | 96.55  | 104.76 | 108.48 | 117.47 | 113.86 |
| 28          | 137.44 | 123.35 | 115.16 | 110.46 | 107.16 | 110.03 | 102.04 | 96.68  | 105.16 | 108.54 | 117.53 | 113.71 |
| 29          | 137.01 | 122.96 | 114.98 | 110.35 | 107.06 | 110.03 | 101.50 | 96.82  | 105.52 | 108.74 | 117.55 | 113.55 |
| 30          | 136.07 | 122.55 | 114.85 | 110.22 | ---    | 110.08 | 100.97 | 96.94  | 105.78 | 108.99 | 117.56 | 113.41 |
| 31          | 134.99 | ---    | 114.81 | 110.10 | ---    | 110.95 | ---    | 97.08  | ---    | 109.27 | 117.56 | ---    |
| MEAN        | 137.81 | 128.37 | 118.02 | 112.18 | 108.51 | 108.99 | 108.30 | 97.08  | 101.00 | 107.92 | 113.95 | 115.71 |
| WTR YR 1988 | MEAN   | 113.18 |        | HIGH   | 95.94  |        | LOW    | 139.67 |        |        |        |        |

## GROUND-WATER LEVELS

419

## 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.

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, 27.59 ft below land-surface datum, Sept. 16-17, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 25.93 | 26.28 | 26.32 | 26.36 | 26.28 | 25.66 | 25.54 | 25.09 | 25.60 | 25.90 | 26.93 | 27.38 |
| 2           | 26.06 | 26.21 | 26.47 | 26.34 | 26.20 | 25.75 | 25.59 | 25.08 | 25.59 | 25.99 | 26.74 | 27.46 |
| 3           | 25.73 | 26.31 | 26.37 | 26.48 | 26.12 | 25.69 | 25.53 | 25.11 | 25.56 | 26.06 | 26.90 | 27.50 |
| 4           | 25.62 | 26.35 | 26.23 | 26.69 | 26.03 | 25.51 | 25.45 | 25.06 | 25.78 | 26.10 | 27.09 | 27.45 |
| 5           | 25.43 | 26.05 | 26.49 | 26.64 | 26.16 | 25.62 | 25.50 | 25.00 | 25.69 | 26.11 | 27.07 | 27.42 |
| 6           | 25.08 | 26.29 | 26.57 | 26.72 | 26.26 | 25.63 | 25.35 | 24.91 | 25.55 | 26.17 | 27.08 | 27.40 |
| 7           | 25.20 | 26.44 | 26.56 | 26.58 | 26.33 | 25.67 | 25.17 | 25.05 | 25.35 | 26.20 | 27.05 | 27.48 |
| 8           | 25.48 | 26.38 | 26.49 | 26.44 | 26.39 | 25.72 | 25.30 | 25.12 | 25.27 | 26.21 | 27.11 | 27.40 |
| 9           | 25.62 | 26.30 | 26.43 | 26.51 | 26.32 | 25.62 | 25.47 | 25.12 | 25.27 | 26.20 | 27.19 | 27.36 |
| 10          | 25.52 | 26.15 | 26.23 | 26.55 | 26.20 | 25.24 | 25.49 | 25.04 | 25.68 | 26.28 | 27.29 | 27.43 |
| 11          | 25.41 | 26.42 | 26.23 | 26.47 | 26.44 | 25.55 | 25.35 | 25.11 | 25.65 | 26.27 | 27.38 | 27.53 |
| 12          | 25.24 | 26.64 | 26.20 | 26.56 | 26.04 | 25.58 | 25.18 | 25.26 | 25.65 | 26.28 | 27.46 | 27.56 |
| 13          | 25.07 | 26.56 | 26.35 | 26.59 | 26.14 | 25.46 | 25.25 | 25.33 | 25.57 | 26.33 | 27.55 | 27.53 |
| 14          | 25.19 | 26.63 | 26.42 | 26.92 | 26.16 | 25.40 | 25.36 | 25.28 | 25.59 | 26.34 | 27.50 | 27.54 |
| 15          | 25.16 | 26.71 | 26.26 | 26.36 | 25.89 | 25.57 | 25.32 | 25.17 | 25.49 | 26.35 | 27.42 | 27.58 |
| 16          | 25.10 | 26.51 | 26.48 | 26.45 | 26.06 | 25.69 | 25.32 | 24.73 | 25.39 | 26.38 | 27.49 | 27.59 |
| 17          | 25.07 | 26.34 | 26.48 | 26.25 | 26.12 | 25.68 | 25.28 | 24.07 | 25.34 | 26.45 | 27.49 | 27.59 |
| 18          | 25.04 | 26.46 | 26.44 | 26.11 | 25.98 | 25.46 | 25.17 | 23.33 | 25.42 | 26.57 | 27.47 | 27.41 |
| 19          | 25.06 | 26.38 | 26.40 | 26.01 | 25.73 | 25.43 | 25.05 | 23.00 | 25.57 | 26.66 | 27.48 | 27.39 |
| 20          | 25.04 | 26.30 | 26.32 | 25.94 | 25.66 | 25.66 | 25.25 | 22.92 | 25.77 | 26.74 | 27.46 | 27.39 |
| 21          | 25.10 | 26.46 | 26.23 | 25.90 | 25.89 | 25.67 | 25.13 | 23.11 | 25.81 | 26.73 | 27.47 | 27.35 |
| 22          | 25.20 | 26.62 | 26.22 | 26.09 | 26.07 | 25.73 | 25.09 | 22.99 | 25.88 | 26.65 | 27.52 | 27.31 |
| 23          | 25.23 | 26.62 | 26.35 | 26.16 | 26.00 | 25.79 | 25.07 | 23.32 | 25.92 | 26.71 | 27.56 | 27.29 |
| 24          | 25.20 | 26.57 | 26.37 | 26.16 | 26.09 | 25.74 | 25.00 | 23.65 | 25.97 | 26.72 | 27.48 | 27.28 |
| 25          | 25.05 | 26.54 | 26.34 | 26.01 | 26.10 | 25.69 | 24.98 | 24.22 | 26.00 | 26.66 | 27.41 | 27.33 |
| 26          | 25.58 | 26.52 | 26.30 | 26.24 | 26.04 | 25.59 | 24.88 | 24.71 | 25.91 | 26.62 | 27.44 | 27.36 |
| 27          | 26.02 | 26.52 | 26.29 | 26.46 | 25.83 | 25.62 | 24.90 | 24.80 | 26.03 | 26.73 | 27.57 | 27.29 |
| 28          | 26.22 | 26.40 | 26.15 | 26.61 | 25.83 | 25.72 | 25.01 | 25.07 | 26.03 | 26.83 | 27.49 | 27.20 |
| 29          | 26.24 | 26.33 | 26.31 | 26.59 | 25.77 | 25.61 | 25.11 | 25.30 | 25.95 | 26.95 | 27.54 | 27.16 |
| 30          | 26.30 | 26.27 | 26.53 | 26.47 | ---   | 25.61 | 25.15 | 25.46 | 25.87 | 26.94 | 27.49 | 27.35 |
| 31          | 26.32 | ---   | 26.42 | 26.38 | ---   | 25.61 | ---   | 25.49 | ---   | 26.95 | 27.33 | ---   |
| MEAN        | 25.47 | 26.42 | 26.36 | 26.39 | 26.07 | 25.61 | 25.24 | 24.61 | 25.67 | 26.45 | 27.34 | 27.41 |
| WTR YR 1988 | MEAN  | 26.09 |       | HIGH  | 22.92 |       | LOW   | 27.59 |       |       |       |       |

## GROUND-WATER LEVELS

## 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, Apr. 23-25, 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, 25.82 ft below land-surface datum, Aug. 8, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 24.22 | 24.43 | 23.84 | 23.95 | 23.72 | 23.36 | 23.34 | 22.84 | 23.20 | 24.27 | 25.65 | 25.56 |
| 2           | 24.32 | 24.38 | 24.06 | 23.94 | 23.72 | 23.41 | 23.32 | 22.87 | 23.11 | 24.33 | 25.69 | 25.49 |
| 3           | 24.35 | 24.29 | 24.07 | 23.82 | 23.66 | 23.35 | 23.31 | 22.90 | 23.06 | 24.34 | 25.70 | 25.40 |
| 4           | 24.48 | 24.10 | 23.95 | 23.80 | 23.56 | 23.25 | 23.24 | 22.86 | 23.24 | 24.39 | 25.78 | 25.27 |
| 5           | 24.41 | 24.06 | 24.14 | 23.94 | 23.68 | 23.31 | 23.23 | 22.78 | 23.38 | 24.45 | 25.82 | 25.18 |
| 6           | 24.29 | 24.30 | 24.26 | 23.96 | 23.74 | 23.30 | 23.11 | 22.75 | 23.38 | 24.45 | 25.79 | 25.19 |
| 7           | 24.28 | 24.36 | 24.28 | 23.87 | 23.86 | 23.32 | 22.98 | 22.86 | 23.35 | 24.46 | 25.71 | 25.29 |
| 8           | 24.43 | 24.32 | 24.22 | 23.75 | 23.70 | 23.34 | 23.07 | 22.98 | 23.32 | 24.47 | 25.66 | 25.28 |
| 9           | 24.52 | 24.24 | 24.08 | 23.80 | 23.61 | 23.12 | 23.20 | 22.99 | 23.34 | 24.54 | 25.65 | 25.18 |
| 10          | 24.50 | 24.05 | 23.93 | 23.88 | 23.59 | 22.96 | 23.18 | 22.93 | 23.50 | 24.70 | 25.70 | 25.27 |
| 11          | 24.39 | 24.14 | 23.84 | 23.91 | 23.52 | 23.24 | 23.02 | 22.93 | 23.62 | 24.81 | 25.70 | 25.36 |
| 12          | 24.24 | 24.27 | 23.83 | 23.92 | 23.45 | 23.20 | 22.98 | 23.03 | 23.65 | 24.78 | 25.69 | 25.39 |
| 13          | 24.32 | 24.23 | 24.02 | 23.82 | 23.57 | 23.04 | 23.09 | 23.05 | 23.72 | 24.76 | 25.72 | 25.34 |
| 14          | 24.42 | 24.24 | 24.03 | 23.96 | 23.62 | 23.03 | 23.20 | 22.98 | 23.81 | 24.74 | 25.63 | 25.29 |
| 15          | 24.40 | 24.30 | 23.82 | 23.91 | 23.37 | 23.19 | 23.17 | 22.92 | 23.81 | 24.77 | 25.65 | 25.36 |
| 16          | 24.37 | 24.29 | 23.94 | 23.93 | 23.48 | 23.27 | 23.21 | 22.89 | 23.82 | 24.83 | 25.63 | 25.47 |
| 17          | 24.32 | 24.18 | 24.08 | 23.78 | 23.57 | 23.32 | 23.20 | 22.82 | 23.80 | 24.89 | 25.63 | 25.40 |
| 18          | 24.32 | 24.22 | 24.12 | 23.67 | 23.49 | 23.15 | 23.06 | 22.79 | 23.97 | 24.91 | 25.61 | 25.24 |
| 19          | 24.31 | 24.17 | 24.08 | 23.60 | 23.21 | 23.10 | 22.92 | 22.79 | 24.18 | 24.99 | 25.58 | 25.20 |
| 20          | 24.30 | 24.07 | 23.98 | 23.48 | 23.18 | 23.24 | 23.12 | 22.80 | 24.27 | 25.12 | 25.55 | 25.24 |
| 21          | 24.32 | 24.21 | 23.93 | 23.44 | 23.32 | 23.23 | 23.02 | 22.83 | 24.25 | 25.18 | 25.57 | 25.24 |
| 22          | 24.48 | 24.27 | 23.89 | 23.53 | 23.45 | 23.32 | 23.01 | 22.82 | 24.24 | 25.21 | 25.63 | 25.19 |
| 23          | 24.50 | 24.28 | 24.02 | 23.60 | 23.35 | 23.37 | 22.98 | 22.79 | 24.22 | 25.23 | 25.66 | 25.18 |
| 24          | 24.49 | 24.28 | 24.03 | 23.60 | 23.35 | 23.34 | 22.92 | 22.76 | 24.29 | 25.30 | 25.55 | 25.18 |
| 25          | 24.43 | 24.18 | 23.94 | 23.43 | 23.40 | 23.27 | 22.87 | 22.68 | 24.28 | 25.33 | 25.48 | 25.20 |
| 26          | 24.30 | 24.08 | 23.91 | 23.66 | 23.44 | 23.20 | 22.82 | 22.82 | 24.18 | 25.36 | 25.50 | 25.25 |
| 27          | 24.16 | 24.02 | 23.91 | 23.89 | 23.28 | 23.22 | 22.87 | 22.89 | 24.17 | 25.45 | 25.56 | 25.31 |
| 28          | 24.26 | 23.94 | 23.78 | 24.00 | 23.32 | 23.33 | 22.92 | 22.92 | 24.29 | 25.54 | 25.50 | 25.29 |
| 29          | 24.36 | 23.85 | 23.86 | 24.02 | 23.33 | 23.34 | 22.95 | 22.95 | 24.29 | 25.61 | 25.54 | 25.30 |
| 30          | 24.43 | 23.78 | 24.12 | 23.94 | ---   | 23.36 | 22.92 | 23.02 | 24.26 | 25.64 | 25.49 | 25.32 |
| 31          | 24.45 | ---   | 24.08 | 23.84 | ---   | 23.35 | ---   | 23.13 | ---   | 25.64 | 25.51 | ---   |
| MEAN        | 24.37 | 24.18 | 24.00 | 23.79 | 23.50 | 23.25 | 23.07 | 22.88 | 23.80 | 24.92 | 25.63 | 25.30 |
| WTR YR 1988 | MEAN  | 24.06 |       | HIGH  | 22.68 |       | LOW   | 25.82 |       |       |       |       |



## GROUND-WATER LEVELS

421

## 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 periods of missing record, Jan. 1-26, Feb. 25 to Mar. 22, Mar. 24 to May 10, 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, 55.11 ft below land-surface datum, Sept. 1-2, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 53.40 | 53.84 | 53.64 | 53.95 | 53.78 | 53.60 | 53.23 | 51.42 | 52.55 | 53.68 | 54.74 | 55.11 |
| 2           | 53.55 | 53.80 | 53.79 | 53.93 | 53.72 | 53.65 | 53.22 | 51.60 | 52.46 | 53.81 | 54.80 | 55.11 |
| 3           | 53.61 | 53.70 | 53.84 | 53.85 | 53.69 | 53.58 | 53.18 | 51.72 | 52.41 | 53.87 | 54.82 | 55.02 |
| 4           | 53.72 | 53.54 | 53.77 | 53.84 | 53.64 | 53.48 | 53.11 | 51.82 | 52.60 | 53.97 | 54.82 | 54.88 |
| 5           | 53.60 | 53.50 | 53.90 | 53.93 | 53.69 | 53.58 | 53.13 | 51.87 | 52.76 | 54.04 | 54.82 | 54.79 |
| 6           | 53.44 | 53.72 | 53.98 | 53.95 | 53.79 | 53.58 | 53.03 | 51.90 | 52.74 | 54.07 | 54.81 | 54.80 |
| 7           | 53.45 | 53.86 | 54.00 | 53.82 | 53.85 | 53.64 | 52.88 | 52.06 | 52.71 | 54.08 | 54.82 | 54.91 |
| 8           | 53.62 | 53.85 | 53.98 | 53.68 | 53.85 | 53.65 | 52.96 | 52.15 | 52.66 | 54.08 | 54.80 | 54.90 |
| 9           | 53.73 | 53.80 | 53.93 | 53.73 | 53.79 | 53.32 | 53.03 | 52.18 | 52.68 | 54.08 | 54.83 | 54.85 |
| 10          | 53.75 | 53.64 | 53.84 | 53.77 | 53.75 | 53.13 | 52.88 | 52.17 | 52.83 | 54.12 | 54.88 | 54.94 |
| 11          | 53.64 | 53.65 | 53.76 | 53.80 | 53.71 | 53.42 | 52.38 | 52.19 | 53.00 | 54.19 | 54.85 | 55.00 |
| 12          | 53.48 | 53.80 | 53.75 | 53.81 | 53.60 | 53.33 | 51.48 | 52.28 | 53.07 | 54.23 | 54.97 | 55.02 |
| 13          | 53.59 | 53.82 | 53.86 | 53.74 | 53.69 | 53.11 | 50.84 | 52.35 | 53.15 | 54.26 | 54.96 | 54.96 |
| 14          | 53.67 | 53.82 | 53.93 | 53.86 | 53.74 | 53.05 | 50.33 | 52.30 | 53.23 | 54.26 | 54.89 | 54.92 |
| 15          | 53.70 | 53.86 | 53.84 | 53.81 | 53.54 | 53.21 | 49.72 | 52.27 | 53.22 | 54.29 | 54.95 | 54.86 |
| 16          | 53.67 | 53.88 | 53.91 | 53.84 | 53.58 | 53.33 | 49.32 | 52.25 | 53.14 | 54.34 | 54.95 | 55.09 |
| 17          | 53.56 | 53.81 | 54.06 | 53.68 | 53.74 | 53.40 | 49.24 | 52.21 | 53.12 | 54.38 | 54.98 | 55.02 |
| 18          | 53.47 | 53.82 | 54.14 | 53.56 | 53.66 | 53.24 | 49.20 | 52.20 | 53.23 | 54.40 | 54.95 | 54.88 |
| 19          | 53.42 | 53.82 | 54.14 | 53.53 | 53.44 | 53.20 | 49.29 | 52.23 | 53.35 | 54.44 | 54.93 | 54.86 |
| 20          | 53.41 | 53.74 | 54.08 | 53.44 | 53.35 | 53.40 | 49.75 | 52.28 | 53.40 | 54.49 | 54.91 | 54.92 |
| 21          | 53.48 | 53.85 | 54.02 | 53.39 | 53.48 | 53.39 | 49.90 | 52.33 | 53.40 | 54.49 | 54.93 | 54.91 |
| 22          | 53.62 | 53.92 | 53.99 | 53.55 | 53.63 | 53.45 | 50.13 | 52.34 | 53.42 | 54.48 | 54.98 | 54.88 |
| 23          | 53.71 | 53.95 | 54.06 | 53.60 | 53.61 | 53.46 | 50.43 | 52.33 | 53.47 | 54.50 | 55.05 | 54.87 |
| 24          | 53.74 | 53.96 | 54.10 | 53.59 | 53.56 | 53.39 | 50.61 | 52.33 | 53.55 | 54.53 | 54.97 | 54.87 |
| 25          | 53.67 | 53.92 | 54.07 | 53.42 | 53.61 | 53.29 | 50.75 | 52.30 | 53.61 | 54.54 | 54.94 | 54.89 |
| 26          | 53.52 | 53.87 | 54.05 | 53.67 | 53.64 | 53.18 | 50.77 | 52.42 | 53.53 | 54.55 | 54.99 | 54.97 |
| 27          | 53.44 | 53.81 | 54.00 | 53.89 | 53.45 | 53.18 | 50.97 | 52.51 | 53.54 | 54.62 | 55.08 | 55.05 |
| 28          | 53.54 | 53.75 | 53.91 | 54.03 | 53.49 | 53.30 | 51.14 | 52.51 | 53.67 | 54.70 | 55.05 | 55.03 |
| 29          | 53.66 | 53.64 | 53.98 | 54.03 | 53.52 | 53.30 | 51.28 | 52.50 | 53.69 | 54.76 | 55.08 | 55.03 |
| 30          | 53.76 | 53.52 | 54.14 | 53.98 | ---   | 53.25 | 51.36 | 52.56 | 53.63 | 54.76 | 55.01 | 54.94 |
| 31          | 53.83 | ---   | 54.14 | 53.89 | ---   | 53.23 | ---   | 52.58 | ---   | 54.72 | 55.05 | ---   |
| MEAN        | 53.60 | 53.78 | 53.95 | 53.76 | 53.64 | 53.37 | 51.32 | 52.20 | 53.13 | 54.31 | 54.92 | 54.94 |
| WTR YR 1988 | MEAN  | 53.58 |       | HIGH  | 49.20 |       | LOW   | 55.11 |       |       |       |       |



## GROUND-WATER LEVELS

## 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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 138.50 | 143.88 | 141.14 | 139.19 | 134.39 | 129.27 | 127.87 | 128.23 | 137.06 | 143.28 | 144.03 | 138.25 |
| 2           | 139.04 | 144.53 | 140.98 | 138.82 | 134.33 | 129.72 | 128.37 | 128.06 | 138.24 | 144.08 | 142.79 | 138.43 |
| 3           | 139.75 | 144.33 | 141.42 | 138.41 | 134.43 | 129.02 | 127.95 | 128.14 | 139.73 | 143.24 | 141.73 | 138.54 |
| 4           | 139.49 | 143.61 | 140.89 | 138.54 | 134.34 | 128.97 | 127.85 | 128.30 | 138.36 | 142.45 | 142.03 | 137.60 |
| 5           | 139.44 | 143.41 | 141.94 | 138.52 | 134.70 | 128.82 | 127.75 | 128.39 | 137.81 | 142.80 | 143.05 | 136.64 |
| 6           | 139.39 | 144.54 | 141.94 | 137.87 | 134.73 | 128.72 | 128.35 | 129.07 | 137.45 | 143.03 | 143.24 | 137.16 |
| 7           | 140.01 | 144.83 | 141.23 | 137.19 | 134.70 | 128.23 | 127.90 | 129.88 | 136.74 | 143.39 | 143.52 | 136.99 |
| 8           | 140.31 | 144.55 | 141.16 | 137.50 | 134.17 | 127.78 | 128.84 | 130.16 | 136.34 | 144.72 | 142.79 | 136.68 |
| 9           | 141.15 | 143.96 | 141.63 | 137.27 | 133.90 | 126.98 | 129.26 | 130.10 | 135.85 | 145.27 | 143.42 | 136.76 |
| 10          | 140.98 | 143.82 | 141.91 | 137.12 | 133.61 | 127.11 | 129.16 | 130.34 | 135.55 | 144.79 | 144.09 | 136.08 |
| 11          | 140.82 | 143.97 | 142.48 | 136.61 | 133.58 | 126.95 | 128.72 | 129.75 | 135.95 | 143.89 | 144.52 | 135.53 |
| 12          | 140.76 | 143.93 | 141.68 | 136.46 | 134.34 | 127.24 | 128.17 | 129.36 | 134.92 | 143.81 | 144.73 | 134.99 |
| 13          | 141.20 | 144.86 | 141.70 | 136.27 | 134.49 | 127.30 | 128.44 | 129.94 | 135.56 | 144.30 | 144.90 | 134.53 |
| 14          | 141.15 | 144.52 | 141.80 | 136.27 | 134.19 | 126.89 | 128.74 | 130.00 | 136.99 | 144.89 | 143.95 | 134.41 |
| 15          | 141.71 | 144.32 | 141.63 | 136.97 | 133.79 | 126.76 | 129.45 | 129.56 | 138.27 | 145.98 | 142.59 | 134.29 |
| 16          | 142.47 | 144.30 | 140.52 | 136.75 | 134.18 | 126.65 | 129.95 | 129.61 | 139.04 | 145.44 | 141.39 | 134.57 |
| 17          | 142.83 | 143.79 | 140.71 | 136.24 | 133.98 | 126.79 | 130.09 | 129.80 | 141.00 | 144.09 | 140.66 | 134.94 |
| 18          | 142.78 | 141.79 | 141.04 | 135.35 | 133.00 | 126.83 | 129.75 | 129.47 | 141.68 | 144.17 | 139.99 | 133.94 |
| 19          | 142.71 | 140.87 | 140.42 | 135.69 | 132.62 | 127.02 | 128.94 | 129.83 | 141.31 | 144.54 | 140.47 | 133.55 |
| 20          | 143.06 | 142.05 | 140.53 | 135.24 | 132.25 | 126.97 | 128.59 | 130.65 | 141.29 | 145.16 | 141.12 | 133.51 |
| 21          | 142.95 | 142.31 | 140.69 | 135.00 | 131.93 | 127.10 | 128.42 | 131.38 | 142.94 | 145.42 | 141.03 | 133.62 |
| 22          | 142.45 | 142.08 | 140.58 | 135.52 | 131.24 | 126.89 | 128.81 | 131.09 | 142.97 | 145.44 | 140.98 | 133.86 |
| 23          | 144.00 | 141.52 | 140.24 | 135.29 | 130.68 | 127.41 | 128.48 | 131.18 | 142.61 | 144.83 | 141.65 | 134.26 |
| 24          | 144.21 | 141.31 | 140.08 | 135.01 | 130.37 | 127.40 | 128.11 | 131.43 | 142.71 | 143.88 | 141.35 | 134.43 |
| 25          | 144.28 | 141.19 | 139.91 | 134.66 | 130.95 | 127.79 | 128.06 | 131.05 | 143.74 | 143.66 | 140.60 | 133.91 |
| 26          | 144.11 | 140.98 | 140.11 | 134.52 | 130.87 | 127.59 | 128.03 | 131.45 | 143.72 | 143.79 | 140.16 | 133.28 |
| 27          | 143.38 | 141.45 | 139.97 | 134.74 | 130.38 | 127.36 | 128.39 | 133.27 | 143.12 | 144.12 | 139.74 | 133.45 |
| 28          | 143.57 | 141.82 | 139.41 | 135.03 | 130.13 | 127.53 | 128.53 | 134.46 | 142.50 | 144.76 | 138.89 | 133.51 |
| 29          | 144.00 | 141.60 | 139.59 | 135.25 | 129.56 | 127.50 | 129.67 | 134.15 | 142.92 | 145.25 | 139.16 | 133.63 |
| 30          | 144.59 | 140.77 | 139.27 | 135.30 | ---    | 127.34 | 128.93 | 135.29 | 142.98 | 144.28 | 139.75 | 134.06 |
| 31          | 144.70 | ---    | 139.30 | 134.90 | ---    | 127.27 | ---    | 136.29 | ---    | 143.81 | 138.91 | ---    |
| MEAN        | 141.93 | 143.03 | 140.84 | 136.37 | 132.96 | 127.59 | 128.65 | 130.63 | 139.65 | 144.28 | 141.85 | 135.18 |
| WTR YR 1988 | MEAN   | 136.94 |        | HIGH   | 126.65 |        | LOW    | 145.98 |        |        |        |        |

## GROUND-WATER LEVELS

423

## 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. 25, 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, 23.12 ft below land-surface datum, Aug. 18, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 21.75 | 22.02 | 21.87 | 22.12 | 21.92 | 21.47 | 21.45 | 20.99 | 21.04 | 21.79 | 22.66 | 22.79 |
| 2           | 21.84 | 21.86 | 22.00 | 22.06 | 21.85 | 21.50 | 21.45 | 21.02 | 21.00 | 21.70 | 22.86 | 22.84 |
| 3           | 21.91 | 21.79 | 21.95 | 21.84 | 21.81 | 21.52 | 21.40 | 21.11 | 20.90 | 21.71 | 22.84 | 22.80 |
| 4           | 21.90 | 21.64 | 21.99 | 22.12 | 21.68 | 21.47 | 21.33 | 21.11 | 20.93 | 21.78 | 22.86 | 22.74 |
| 5           | 21.80 | 21.67 | 21.99 | 22.40 | 21.75 | 21.58 | 21.49 | 21.10 | 21.12 | 21.92 | 22.86 | 22.75 |
| 6           | 21.71 | 21.87 | 22.07 | 22.28 | 21.82 | 21.45 | 21.37 | 21.03 | 21.19 | 22.07 | 22.73 | 22.67 |
| 7           | 21.87 | 22.04 | 22.04 | 22.04 | 21.86 | 21.53 | 21.38 | 21.08 | 21.18 | 22.16 | 22.72 | 22.52 |
| 8           | 22.02 | 22.07 | 21.97 | 22.01 | 21.72 | 21.60 | 21.21 | 21.13 | 21.11 | 22.19 | 22.80 | 22.55 |
| 9           | 22.09 | 22.01 | 22.03 | 22.08 | 21.78 | 21.36 | 21.22 | 21.09 | 21.16 | 22.06 | 22.93 | 22.62 |
| 10          | 22.04 | 21.89 | 21.97 | 22.06 | 21.71 | 21.33 | 21.17 | 21.06 | 21.27 | 22.07 | 22.98 | 22.74 |
| 11          | 21.90 | 22.04 | 22.14 | 22.10 | 21.52 | 21.45 | 20.98 | 21.04 | 21.25 | 22.27 | 22.82 | 22.76 |
| 12          | 21.76 | 22.06 | 21.97 | 22.23 | 21.58 | 21.39 | 20.98 | 21.09 | 21.33 | 22.46 | 22.78 | 22.76 |
| 13          | 21.78 | 21.98 | 22.04 | 22.28 | 21.74 | 21.30 | 21.15 | 21.12 | 21.40 | 22.50 | 22.73 | 22.77 |
| 14          | 21.86 | 21.96 | 22.00 | 22.30 | 21.60 | 21.30 | 21.08 | 21.07 | 21.48 | 22.49 | 22.68 | 22.76 |
| 15          | 21.85 | 22.01 | 22.00 | 22.05 | 21.29 | 21.43 | 21.08 | 21.01 | 21.48 | 22.48 | 22.80 | 22.79 |
| 16          | 21.81 | 21.98 | 22.41 | 22.03 | 21.54 | 21.44 | 21.14 | 21.02 | 21.40 | 22.36 | 22.90 | 22.76 |
| 17          | 21.77 | 21.89 | 22.23 | 21.91 | 21.60 | 21.46 | 21.19 | 20.97 | 21.38 | 22.36 | 23.00 | 22.78 |
| 18          | 21.82 | 22.03 | 22.23 | 21.86 | 21.41 | 21.25 | 21.25 | 20.96 | 21.49 | 22.52 | 23.12 | 22.74 |
| 19          | 21.79 | 21.98 | 22.15 | 21.84 | 21.10 | 21.33 | 21.20 | 20.98 | 21.57 | 22.74 | 23.08 | 22.68 |
| 20          | 21.79 | 21.94 | 22.00 | 21.83 | 21.14 | 21.58 | 21.33 | 21.03 | 21.62 | 22.75 | 22.88 | 22.70 |
| 21          | 21.90 | 22.02 | 22.12 | 21.74 | 21.37 | 21.60 | 21.32 | 21.05 | 21.60 | 22.53 | 22.85 | 22.71 |
| 22          | 21.92 | 22.00 | 22.11 | 21.95 | 21.61 | 21.59 | 21.38 | 21.04 | 21.61 | 22.47 | 22.93 | 22.56 |
| 23          | 21.97 | 22.11 | 22.19 | 21.98 | 21.64 | 21.58 | 21.28 | 21.03 | 21.64 | 22.47 | 22.86 | 22.51 |
| 24          | 21.94 | 22.11 | 22.13 | 21.95 | 21.68 | 21.62 | 21.25 | 21.04 | 21.66 | 22.46 | 22.71 | 22.57 |
| 25          | 21.92 | 22.03 | 22.11 | 21.98 | 21.70 | 21.57 | 21.15 | 21.00 | 21.52 | 22.46 | 22.68 | 22.62 |
| 26          | 21.81 | 21.94 | 22.14 | 22.02 | 21.69 | 21.48 | 20.97 | 20.88 | 21.43 | 22.54 | 22.73 | 22.62 |
| 27          | 21.71 | 21.86 | 22.12 | 22.14 | 21.53 | 21.53 | 21.07 | 20.93 | 21.59 | 22.63 | 22.78 | 22.65 |
| 28          | 21.89 | 21.72 | 21.92 | 22.18 | 21.45 | 21.56 | 21.22 | 21.00 | 21.76 | 22.70 | 22.68 | 22.67 |
| 29          | 22.01 | 21.69 | 22.18 | 22.19 | 21.44 | 21.52 | 21.19 | 21.04 | 21.80 | 22.72 | 22.83 | 22.65 |
| 30          | 22.10 | 21.68 | 22.27 | 22.09 | ---   | 21.50 | 21.15 | 21.03 | 21.74 | 22.53 | 22.79 | 22.75 |
| 31          | 22.13 | ---   | 22.25 | 21.97 | ---   | 21.47 | ---   | 21.06 | ---   | 22.48 | 22.77 | ---   |
| MEAN        | 21.88 | 21.93 | 22.08 | 22.05 | 21.60 | 21.48 | 21.23 | 21.04 | 21.39 | 22.33 | 22.83 | 22.69 |
| WTR YR 1988 | MEAN  | 21.88 |       | HIGH  | 20.88 |       | LOW   | 23.12 |       |       |       |       |

## GROUND-WATER LEVELS

## 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.

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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 37.56 | 38.59 | 39.19 | 39.97 | 35.21 | 22.97 | 21.24 | 23.29 | 36.03 | 40.00 | 37.23 | 40.53 |
| 2           | 38.05 | 38.52 | 39.24 | 39.99 | 35.24 | 23.52 | 21.43 | 23.57 | 35.75 | 40.13 | 38.61 | 40.48 |
| 3           | 37.75 | 38.48 | 39.26 | 39.98 | 35.31 | 23.98 | 21.59 | 24.45 | 36.18 | 39.65 | 38.91 | 40.30 |
| 4           | 37.05 | 38.45 | 39.27 | 39.92 | 35.38 | 23.49 | 21.76 | 25.98 | 36.43 | 38.58 | 38.89 | 40.21 |
| 5           | 36.87 | 38.48 | 39.32 | 39.78 | 35.60 | 19.97 | 22.00 | 27.36 | 36.31 | 37.21 | 39.24 | 40.07 |
| 6           | 37.39 | 38.56 | 39.36 | 39.60 | 35.73 | 17.68 | 22.16 | 27.50 | 35.83 | 36.47 | 39.56 | 39.77 |
| 7           | 37.79 | 38.58 | 39.38 | 39.39 | 35.77 | 16.97 | 22.31 | 27.74 | 35.82 | 36.17 | 39.49 | 39.42 |
| 8           | 37.45 | 38.63 | 39.39 | 39.22 | 35.69 | 16.83 | 22.56 | 29.02 | 35.53 | 36.08 | 39.20 | 39.06 |
| 9           | 37.34 | 38.63 | 39.42 | 39.08 | 35.70 | 16.79 | 22.84 | 29.16 | 35.25 | 36.07 | 39.10 | 38.76 |
| 10          | 37.26 | 38.67 | 39.45 | 38.95 | 35.75 | 16.93 | 23.06 | 28.88 | 34.80 | 36.41 | 39.12 | 38.56 |
| 11          | 37.10 | 38.77 | 39.48 | 38.83 | 35.79 | 17.04 | 23.19 | 28.64 | 36.37 | 36.65 | 39.73 | 38.36 |
| 12          | 37.02 | 38.80 | 39.50 | 38.71 | 35.91 | 16.98 | 23.42 | 28.79 | 36.98 | 36.44 | 40.09 | 38.08 |
| 13          | 37.10 | 38.80 | 39.55 | 38.60 | 36.04 | 16.94 | 23.75 | 28.69 | 37.38 | 36.40 | 40.07 | 37.74 |
| 14          | 37.37 | 38.84 | 39.57 | 38.55 | 36.07 | 17.03 | 24.00 | 30.37 | 37.71 | 36.59 | 39.95 | 37.46 |
| 15          | 37.76 | 38.89 | 39.58 | 38.46 | 35.97 | 17.20 | 24.21 | 31.20 | 37.92 | 36.51 | 39.84 | 37.35 |
| 16          | 37.81 | 38.90 | 39.63 | 38.41 | 36.24 | 17.38 | 24.43 | 31.42 | 38.12 | 36.50 | 39.64 | 37.34 |
| 17          | 37.94 | 38.91 | 39.65 | 38.31 | 36.35 | 17.54 | 24.61 | 31.00 | 38.64 | 36.52 | 39.44 | 37.32 |
| 18          | 37.67 | 38.94 | 39.67 | 38.25 | 36.30 | 17.64 | 24.68 | 30.19 | 39.15 | 37.14 | 39.26 | 37.31 |
| 19          | 37.62 | 38.92 | 39.68 | 38.20 | 35.51 | 17.94 | 24.58 | 30.29 | 39.53 | 37.47 | 39.13 | 37.37 |
| 20          | 37.71 | 38.93 | 39.71 | 38.08 | 32.77 | 18.24 | 24.06 | 31.30 | 39.80 | 37.83 | 39.07 | 37.49 |
| 21          | 38.24 | 38.97 | 39.74 | 37.86 | 27.10 | 18.47 | 23.35 | 32.04 | 39.77 | 37.08 | 39.06 | 37.57 |
| 22          | 38.42 | 38.99 | 39.75 | 37.55 | 22.31 | 18.76 | 23.11 | 33.57 | 39.56 | 36.56 | 39.04 | 37.64 |
| 23          | 38.57 | 39.01 | 39.79 | 37.07 | 20.43 | 19.06 | 22.55 | 33.19 | 39.19 | 36.37 | 39.03 | 37.73 |
| 24          | 38.29 | 39.03 | 39.80 | 36.54 | 20.15 | 19.32 | 22.28 | 32.72 | 39.34 | 36.31 | 39.08 | 37.84 |
| 25          | 38.30 | 39.05 | 39.82 | 36.03 | 20.34 | 19.60 | 22.24 | 32.44 | 39.63 | 36.30 | 39.17 | 38.10 |
| 26          | 38.19 | 39.08 | 39.84 | 35.87 | 20.72 | 19.86 | 22.29 | 32.96 | 39.80 | 36.50 | 39.25 | 38.60 |
| 27          | 38.15 | 39.11 | 39.86 | 35.73 | 21.09 | 20.14 | 22.49 | 33.31 | 39.82 | 36.67 | 39.45 | 38.69 |
| 28          | 38.22 | 39.11 | 39.87 | 35.55 | 21.69 | 20.39 | 22.72 | 34.88 | 39.90 | 36.63 | 40.12 | 38.90 |
| 29          | 38.33 | 39.14 | 39.92 | 35.37 | 22.32 | 20.59 | 22.93 | 36.25 | 39.88 | 36.67 | 40.37 | 39.05 |
| 30          | 38.85 | 39.15 | 39.95 | 35.23 | ---   | 20.80 | 23.11 | 36.23 | 39.72 | 36.97 | 40.33 | 38.86 |
| 31          | 38.78 | ---   | 39.96 | 35.20 | ---   | 21.01 | ---   | 35.89 | ---   | 36.92 | 40.43 | ---   |
| MEAN        | 37.80 | 38.83 | 39.60 | 38.01 | 31.33 | 19.07 | 22.97 | 30.40 | 37.87 | 37.03 | 39.38 | 38.53 |
| WTR YR 1988 | MEAN  | 34.25 |       | HIGH  | 16.79 |       | LOW   | 40.53 |       |       |       |       |

## 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.

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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 155.58 | 153.18 | 154.04 | 151.43 | 151.66 | 152.15 | 150.07 | 150.47 | 157.92 | 160.06 | 157.71 | 160.33 |
| 2           | 155.64 | 154.09 | 152.22 | 152.32 | 151.66 | 150.48 | 149.36 | 150.30 | 158.73 | 158.33 | 157.70 | 160.44 |
| 3           | 155.15 | 153.13 | 153.53 | 151.88 | 151.58 | 150.47 | 150.70 | 150.69 | 157.85 | 158.40 | 158.54 | 160.04 |
| 4           | 155.02 | 153.15 | 153.49 | 152.35 | 150.45 | 150.91 | 149.30 | 150.69 | 158.07 | 158.25 | 158.78 | 159.80 |
| 5           | 155.63 | 153.24 | 152.97 | 152.85 | 151.31 | 150.99 | 150.47 | 150.81 | 155.64 | 158.76 | 160.02 | 159.41 |
| 6           | 155.59 | 152.54 | 152.56 | 152.72 | 150.86 | 150.41 | 150.39 | 150.88 | 157.26 | 158.63 | 159.32 | 159.47 |
| 7           | 155.78 | 152.86 | 152.15 | 151.67 | 151.63 | 151.54 | 151.16 | 151.56 | 157.07 | 158.65 | 159.25 | 160.29 |
| 8           | 154.78 | 153.93 | 153.95 | 151.84 | 151.85 | 152.03 | 150.37 | 153.06 | 156.66 | 158.55 | 159.70 | 160.41 |
| 9           | 155.31 | 153.59 | 154.89 | 152.63 | 151.88 | 151.50 | 149.22 | 151.85 | 157.60 | 158.46 | 157.92 | 159.49 |
| 10          | 155.40 | 153.84 | 152.41 | 153.16 | 151.52 | 150.91 | 151.53 | 151.84 | 157.57 | 158.29 | 159.61 | 158.95 |
| 11          | 154.36 | 153.82 | 151.54 | 151.74 | 151.72 | 151.90 | 150.07 | 152.99 | 156.68 | 158.36 | 159.65 | 159.18 |
| 12          | 154.42 | 152.94 | 151.53 | 152.24 | 151.47 | 150.64 | 150.45 | 152.49 | 156.64 | 158.29 | 159.72 | 159.00 |
| 13          | 155.17 | 153.77 | 151.79 | 152.17 | 151.04 | 150.22 | 151.55 | 153.19 | 158.52 | 157.73 | 160.27 | 158.44 |
| 14          | 154.71 | 152.59 | 152.74 | 152.23 | 151.59 | 151.64 | 151.71 | 151.63 | 159.25 | 158.32 | 159.78 | 158.33 |
| 15          | 155.23 | 153.57 | 151.33 | 152.50 | 151.36 | 150.67 | 150.21 | 153.01 | 158.88 | 157.91 | 159.06 | 158.11 |
| 16          | 155.70 | 154.12 | 152.09 | 151.53 | 150.17 | 150.43 | 150.89 | 152.48 | 159.04 | 157.38 | 159.27 | 157.61 |
| 17          | 155.74 | 153.41 | 152.72 | 152.74 | 151.33 | 150.99 | 150.96 | 152.04 | 159.70 | 157.24 | 159.71 | 157.40 |
| 18          | 154.77 | 153.67 | 152.22 | 152.50 | 151.85 | 149.92 | 150.16 | 152.10 | 160.14 | 157.40 | 160.15 | 157.20 |
| 19          | 155.59 | 153.18 | 151.94 | 151.24 | 150.87 | 151.23 | 151.92 | 153.33 | 158.94 | 157.22 | 160.26 | 157.01 |
| 20          | 155.27 | 152.80 | 151.42 | 150.31 | 149.86 | 149.69 | 150.99 | 154.34 | 160.34 | 157.19 | 159.60 | 156.83 |
| 21          | 154.14 | 153.52 | 151.57 | 153.45 | 151.38 | 150.03 | 151.52 | 154.67 | 160.66 | 157.11 | 159.89 | 156.66 |
| 22          | 154.81 | 153.42 | 151.47 | 155.75 | 151.52 | 151.55 | 151.61 | 153.92 | 161.75 | 157.70 | 161.15 | 156.49 |
| 23          | 155.61 | 153.72 | 151.28 | 152.06 | 151.23 | 151.70 | 149.96 | 154.79 | 162.04 | 158.31 | 161.12 | 156.33 |
| 24          | 154.93 | 153.99 | 152.09 | 151.28 | 151.92 | 151.12 | 149.50 | 154.86 | 160.98 | 156.70 | 160.10 | 156.18 |
| 25          | 154.48 | 153.22 | 151.20 | 150.52 | 151.65 | 150.46 | 149.39 | 154.16 | 161.21 | 156.94 | 160.62 | 156.04 |
| 26          | 155.00 | 152.25 | 152.15 | 151.26 | 149.69 | 149.48 | 150.54 | 154.34 | 159.67 | 156.90 | 160.97 | 155.91 |
| 27          | 154.79 | 152.09 | 151.87 | 151.89 | 148.87 | 149.51 | 150.62 | 154.93 | 160.16 | 156.66 | 160.69 | 155.79 |
| 28          | 153.25 | 153.30 | 152.41 | 151.59 | 149.19 | 150.84 | 151.39 | 155.41 | 160.50 | 156.70 | 160.64 | 155.69 |
| 29          | 154.17 | 152.51 | 151.91 | 151.76 | 150.54 | 149.78 | 150.44 | 155.28 | 160.84 | 157.22 | 160.90 | 155.61 |
| 30          | 154.01 | 152.91 | 153.09 | 151.41 | ---    | 150.10 | 150.12 | 156.58 | 161.05 | 157.17 | 160.14 | 155.54 |
| 31          | 154.47 | ---    | 152.48 | 151.72 | ---    | 149.93 | ---    | 157.04 | ---    | 157.14 | 160.68 | ---    |
| MEAN        | 154.98 | 153.28 | 152.36 | 152.09 | 151.09 | 150.75 | 150.55 | 153.09 | 159.05 | 157.81 | 159.77 | 157.93 |
| WTR YR 1988 | MEAN   | 154.40 |        | HIGH   | 148.87 |        | LOW    | 162.04 |        |        |        |        |

## GROUND-WATER LEVELS

## 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.

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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 19.31 | 20.17 | 20.79 | 20.71 | 17.69 | 16.76 | 17.43 | 17.32 | 18.21 | 19.90 | 21.30 | 21.07 |
| 2           | 19.35 | 20.19 | 20.84 | 20.65 | 17.64 | 16.77 | 17.46 | 17.31 | 18.24 | 19.97 | 21.32 | 21.03 |
| 3           | 19.40 | 20.23 | 20.84 | 20.54 | 17.60 | 16.76 | 17.45 | 17.31 | 18.28 | 20.03 | 21.34 | 20.96 |
| 4           | 19.44 | 20.25 | 20.85 | 20.43 | 17.47 | 16.77 | 17.47 | 17.30 | 18.37 | 20.10 | 21.35 | 20.88 |
| 5           | 19.45 | 20.30 | 20.88 | 20.34 | 17.36 | 16.88 | 17.51 | 17.32 | 18.45 | 20.15 | 21.36 | 20.61 |
| 6           | 19.47 | 20.36 | 20.91 | 20.22 | 17.23 | 16.88 | 17.47 | 17.31 | 18.47 | 20.20 | 21.37 | 20.35 |
| 7           | 19.53 | 20.39 | 20.93 | 20.12 | 17.09 | 16.92 | 17.48 | 17.37 | 18.50 | 20.25 | 21.38 | 20.15 |
| 8           | 19.61 | 20.42 | 20.95 | 20.00 | 16.93 | 16.95 | 17.57 | 17.40 | 18.52 | 20.30 | 21.38 | 19.98 |
| 9           | 19.66 | 20.45 | 20.96 | 19.93 | 16.83 | 16.85 | 17.62 | 17.42 | 18.58 | 20.35 | 21.37 | 19.80 |
| 10          | 19.68 | 20.46 | 20.97 | 19.86 | 16.76 | 16.86 | 17.60 | 17.42 | 18.69 | 20.40 | 21.36 | 19.66 |
| 11          | 19.70 | 20.53 | 20.98 | 19.80 | 16.67 | 17.03 | 17.56 | 17.46 | 18.74 | 20.45 | 21.35 | 19.53 |
| 12          | 19.73 | 20.56 | 20.98 | 19.71 | 16.62 | 16.98 | 17.60 | 17.52 | 18.79 | 20.51 | 21.34 | 19.41 |
| 13          | 19.80 | 20.58 | 21.02 | 19.64 | 16.62 | 16.96 | 17.69 | 17.55 | 18.84 | 20.56 | 21.33 | 19.28 |
| 14          | 19.85 | 20.62 | 21.03 | 19.60 | 16.58 | 17.01 | 17.71 | 17.56 | 18.89 | 20.58 | 21.32 | 19.18 |
| 15          | 19.89 | 20.66 | 21.03 | 19.54 | 16.48 | 17.10 | 17.71 | 17.57 | 18.92 | 20.63 | 21.30 | 19.11 |
| 16          | 19.93 | 20.69 | 21.06 | 19.47 | 16.59 | 17.15 | 17.75 | 17.60 | 18.95 | 20.68 | 21.29 | 19.06 |
| 17          | 19.96 | 20.70 | 21.08 | 19.40 | 16.59 | 17.16 | 17.74 | 17.62 | 19.00 | 20.74 | 21.28 | 18.93 |
| 18          | 20.01 | 20.70 | 21.09 | 19.32 | 16.53 | 17.10 | 17.66 | 17.68 | 19.09 | 20.77 | 21.27 | 18.72 |
| 19          | 20.04 | 20.69 | 21.10 | 19.23 | 16.46 | 17.13 | 17.67 | 17.71 | 19.15 | 20.82 | 21.27 | 18.52 |
| 20          | 20.09 | 20.65 | 21.11 | 19.05 | 16.50 | 17.19 | 17.72 | 17.76 | 19.20 | 20.86 | 21.26 | 18.34 |
| 21          | 20.15 | 20.66 | 21.14 | 18.88 | 16.59 | 17.19 | 17.63 | 17.80 | 19.25 | 20.90 | 21.25 | 18.19 |
| 22          | 20.21 | 20.67 | 21.12 | 18.72 | 16.61 | 17.25 | 17.61 | 17.82 | 19.29 | 20.96 | 21.24 | 18.04 |
| 23          | 20.24 | 20.68 | 21.09 | 18.52 | 16.57 | 17.27 | 17.60 | 17.86 | 19.35 | 20.99 | 21.23 | 17.92 |
| 24          | 20.29 | 20.71 | 21.04 | 18.36 | 16.63 | 17.25 | 17.59 | 17.89 | 19.42 | 21.04 | 21.22 | 17.84 |
| 25          | 20.31 | 20.71 | 21.00 | 18.19 | 16.64 | 17.24 | 17.59 | 17.92 | 19.49 | 21.08 | 21.21 | 17.78 |
| 26          | 20.19 | 20.72 | 20.98 | 18.13 | 16.66 | 17.24 | 17.55 | 18.02 | 19.51 | 21.12 | 21.20 | 17.75 |
| 27          | 19.94 | 20.74 | 20.98 | 18.07 | 16.60 | 17.31 | 17.53 | 18.05 | 19.57 | 21.16 | 21.19 | 17.66 |
| 28          | 20.00 | 20.76 | 20.95 | 17.97 | 16.67 | 17.35 | 17.48 | 18.07 | 19.66 | 21.20 | 21.18 | 17.56 |
| 29          | 20.05 | 20.77 | 20.88 | 17.86 | 16.70 | 17.36 | 17.40 | 18.10 | 19.76 | 21.24 | 21.19 | 17.55 |
| 30          | 20.09 | 20.77 | 20.85 | 17.78 | ---   | 17.40 | 17.35 | 18.14 | 19.82 | 21.26 | 21.20 | 17.54 |
| 31          | 20.13 | ---   | 20.78 | 17.72 | ---   | 17.42 | ---   | 18.19 | ---   | 21.28 | 21.15 | ---   |
| MEAN        | 19.85 | 20.56 | 20.97 | 19.28 | 16.82 | 17.08 | 17.57 | 17.66 | 18.97 | 20.66 | 21.28 | 19.08 |
| WTR YR 1988 | MEAN  | 19.16 |       | HIGH  | 16.46 |       | LOW   | 21.38 |       |       |       |       |

## GROUND-WATER LEVELS

427

## 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.

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, 60.31 ft, Sept. 2, 1988, for period of record.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 58.45 | 58.81 | 58.84 | 58.91 | 58.86 | 58.75 | 58.26 | 56.34 | 57.58 | 59.09 | 60.11 | 60.30 |
| 2           | 58.51 | 58.76 | 59.04 | 58.89 | 58.83 | 58.80 | 58.25 | 56.52 | 57.44 | 59.22 | 60.14 | 60.31 |
| 3           | 58.43 | 58.69 | 59.07 | 58.82 | 58.82 | 58.73 | 58.20 | 56.64 | 57.38 | 59.25 | 60.15 | 60.24 |
| 4           | 58.34 | 58.52 | 58.98 | 58.82 | 58.81 | 58.62 | 58.13 | 56.73 | 57.62 | 59.37 | 60.16 | 60.11 |
| 5           | 58.15 | 58.52 | 59.16 | 58.92 | 58.97 | 58.72 | 58.14 | 56.78 | 57.79 | 59.46 | 60.13 | 60.00 |
| 6           | 58.08 | 58.80 | 59.18 | 58.94 | 59.07 | 58.71 | 58.04 | 56.81 | 57.80 | 59.48 | 60.13 | 60.01 |
| 7           | 58.17 | 58.91 | 59.19 | 58.82 | 59.17 | 58.77 | 57.89 | 56.96 | 57.79 | 59.49 | 60.13 | 60.07 |
| 8           | 58.42 | 58.90 | 59.13 | 58.69 | 59.08 | 58.77 | 57.96 | 57.05 | 57.77 | 59.49 | 60.13 | 60.08 |
| 9           | 58.61 | 58.79 | 59.05 | 58.75 | 59.02 | 58.44 | 58.03 | 57.08 | 57.85 | 59.47 | 60.15 | 60.01 |
| 10          | 58.66 | 58.62 | 58.96 | 58.79 | 59.00 | 58.25 | 57.88 | 57.06 | 58.05 | 59.52 | 60.20 | 60.08 |
| 11          | 58.56 | 58.69 | 58.90 | 58.83 | 58.91 | 58.53 | 57.37 | 57.08 | 58.21 | 59.62 | 60.25 | 60.13 |
| 12          | 58.43 | 58.85 | 58.91 | 58.85 | 58.77 | 58.44 | 56.47 | 57.16 | 58.31 | 59.67 | 60.23 | 60.14 |
| 13          | 58.45 | 58.83 | 59.14 | 58.79 | 58.88 | 58.21 | 55.83 | 57.17 | 58.39 | 59.72 | 60.22 | 60.07 |
| 14          | 58.45 | 58.84 | 59.20 | 58.91 | 58.92 | 58.15 | 55.31 | 57.13 | 58.49 | 59.71 | 60.15 | 60.01 |
| 15          | 58.31 | 58.90 | 59.07 | 58.87 | 58.68 | 58.30 | 54.70 | 57.08 | 58.48 | 59.72 | 60.17 | 60.09 |
| 16          | 58.15 | 58.91 | 59.20 | 58.91 | 58.84 | 58.42 | 54.30 | 57.04 | 58.41 | 59.76 | 60.17 | 60.18 |
| 17          | 58.00 | 58.84 | 59.37 | 58.76 | 58.94 | 58.49 | 54.21 | 57.00 | 58.40 | 59.78 | 60.19 | 60.11 |
| 18          | 58.03 | 58.91 | 59.43 | 58.64 | 58.86 | 58.32 | 54.17 | 57.01 | 58.54 | 59.78 | 60.15 | 59.98 |
| 19          | 58.08 | 58.89 | 59.35 | 58.62 | 58.58 | 58.28 | 54.26 | 57.06 | 58.72 | 59.85 | 60.11 | 59.98 |
| 20          | 58.14 | 58.82 | 59.26 | 58.54 | 58.56 | 58.47 | 54.71 | 57.11 | 58.82 | 59.86 | 60.11 | 60.04 |
| 21          | 58.26 | 58.97 | 59.22 | 58.50 | 58.74 | 58.46 | 54.86 | 57.17 | 58.84 | 59.82 | 60.12 | 60.04 |
| 22          | 58.49 | 59.03 | 59.17 | 58.66 | 58.87 | 58.51 | 55.09 | 57.22 | 58.85 | 59.80 | 60.16 | 60.01 |
| 23          | 58.52 | 59.05 | 59.29 | 58.72 | 58.73 | 58.52 | 55.38 | 57.29 | 58.86 | 59.83 | 60.18 | 60.00 |
| 24          | 58.55 | 59.09 | 59.27 | 58.72 | 58.74 | 58.45 | 55.56 | 57.38 | 58.90 | 59.86 | 60.11 | 60.00 |
| 25          | 58.50 | 58.99 | 59.19 | 58.56 | 58.79 | 58.34 | 55.70 | 57.38 | 58.93 | 59.87 | 60.07 | 60.01 |
| 26          | 58.42 | 58.88 | 59.12 | 58.81 | 58.81 | 58.23 | 55.71 | 57.55 | 58.86 | 59.88 | 60.12 | ---   |
| 27          | 58.35 | 58.83 | 59.07 | 59.04 | 58.62 | 58.23 | 55.91 | 57.63 | 58.89 | 59.95 | 60.22 | ---   |
| 28          | 58.47 | 58.81 | 58.94 | 59.15 | 58.65 | 58.34 | 56.08 | 57.59 | 59.06 | 60.03 | 60.21 | ---   |
| 29          | 58.63 | 58.78 | 59.01 | 59.15 | 58.68 | 58.34 | 56.21 | 57.55 | 59.06 | 60.13 | 60.25 | ---   |
| 30          | 58.75 | 58.75 | 59.20 | 58.99 | ---   | 58.29 | 56.29 | 57.58 | 58.98 | 60.13 | 60.22 | ---   |
| 31          | 58.81 | ---   | 59.09 | 58.90 | ---   | 58.26 | ---   | 57.60 | ---   | 60.09 | 60.25 | ---   |
| MEAN        | 58.39 | 58.83 | 59.13 | 58.82 | 58.83 | 58.46 | 56.30 | 57.12 | 58.37 | 59.70 | 60.16 | 60.08 |
| WTR YR 1988 | MEAN  | 58.67 |       | HIGH  | 54.17 |       | LOW   | 60.31 |       |       |       |       |



## GROUND-WATER LEVELS

## 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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 82.74 | 83.43 | 83.53 | 83.27 | 83.46 | 83.28 | 82.52 | 80.71 | 82.15 | 84.26 | 85.07 | 84.78 |
| 2           | 82.70 | 83.35 | 83.68 | 83.28 | 83.50 | 83.28 | 82.53 | 80.83 | 81.94 | 84.28 | 85.03 | 84.83 |
| 3           | 82.50 | 83.27 | 83.78 | 83.30 | 83.51 | 83.18 | 82.50 | 80.95 | 82.07 | 84.29 | 85.09 | 84.77 |
| 4           | 82.10 | 83.16 | 83.75 | 83.22 | 83.56 | 83.09 | 82.41 | 81.15 | 82.32 | 84.37 | 85.06 | 84.62 |
| 5           | 81.90 | 83.14 | 83.80 | 83.30 | 83.70 | 83.13 | 82.45 | 81.20 | 82.50 | 84.41 | 84.99 | 84.53 |
| 6           | 82.14 | 83.34 | 83.74 | 83.38 | 83.80 | 83.15 | 82.38 | 81.21 | 82.55 | 84.50 | 84.98 | 84.48 |
| 7           | 82.45 | 83.48 | 83.69 | 83.30 | 83.86 | 83.22 | 82.16 | 81.33 | 82.57 | 84.55 | 84.94 | 84.49 |
| 8           | 82.78 | 83.51 | 83.67 | 83.19 | 83.80 | 83.16 | 82.15 | 81.34 | 82.60 | 84.53 | 84.92 | 84.50 |
| 9           | 83.00 | 83.47 | 83.65 | 83.18 | 83.77 | 82.86 | 82.18 | 81.38 | 82.71 | 84.56 | 84.93 | 84.41 |
| 10          | 83.10 | 83.26 | 83.65 | 83.21 | 83.69 | 82.70 | 81.75 | 81.36 | 82.80 | 84.69 | 84.99 | 84.46 |
| 11          | 83.05 | 83.22 | 83.61 | 83.29 | 83.41 | 82.86 | 80.74 | 81.43 | 82.94 | 84.82 | 85.02 | 84.52 |
| 12          | 82.88 | 83.37 | 83.63 | 83.35 | 83.31 | 82.76 | 79.02 | 81.42 | 83.08 | 84.84 | 84.91 | 84.53 |
| 13          | 82.70 | 83.42 | 83.81 | 83.33 | 83.51 | 82.54 | 78.21 | 81.38 | 83.14 | 84.84 | 84.91 | 84.50 |
| 14          | 82.46 | 83.43 | 83.95 | 83.40 | 83.57 | 82.51 | 77.45 | 81.34 | 83.26 | 84.74 | 84.80 | 84.45 |
| 15          | 82.14 | 83.48 | 83.88 | 83.44 | 83.40 | 82.69 | 76.80 | 81.20 | 83.28 | 84.71 | 84.74 | 84.52 |
| 16          | 81.84 | 83.53 | 83.94 | 83.46 | 83.51 | 82.83 | 76.38 | 81.14 | 83.22 | 84.70 | 84.74 | 84.58 |
| 17          | 81.76 | 83.51 | 84.11 | 83.30 | 83.58 | 82.92 | 76.45 | 81.11 | 83.36 | 84.68 | 84.79 | 84.48 |
| 18          | 82.00 | 83.55 | 84.12 | 83.15 | 83.48 | 82.77 | 76.93 | 81.19 | 83.52 | 84.80 | 84.74 | 84.37 |
| 19          | 82.24 | 83.56 | 84.02 | 83.21 | 83.28 | 82.69 | 77.35 | 81.31 | 83.75 | 84.88 | 84.74 | 84.41 |
| 20          | 82.44 | 83.51 | 83.92 | 83.16 | 83.18 | 82.79 | 78.11 | 81.38 | 83.88 | 84.78 | 84.76 | 84.45 |
| 21          | 82.70 | 83.58 | 83.85 | 83.14 | 83.32 | 82.78 | 78.48 | 81.47 | 83.89 | 84.72 | 84.65 | 84.49 |
| 22          | 82.88 | 83.62 | 83.77 | 83.23 | 83.38 | 82.75 | 78.91 | 81.61 | 83.94 | 84.71 | 84.66 | 84.45 |
| 23          | 82.91 | 83.64 | 83.82 | 83.28 | 83.30 | 82.72 | 79.35 | 81.84 | 83.94 | 84.75 | 84.68 | 84.43 |
| 24          | 82.99 | 83.67 | 83.83 | 83.29 | 83.42 | 82.61 | 79.71 | 81.99 | 83.96 | 84.74 | 84.68 | 84.43 |
| 25          | 82.98 | 83.60 | 83.74 | 83.25 | 83.36 | 82.50 | 79.75 | 81.93 | 83.95 | 84.76 | 84.64 | 84.42 |
| 26          | 82.94 | 83.52 | 83.59 | 83.46 | 83.36 | 82.37 | 79.80 | 82.08 | 83.90 | 84.82 | 84.68 | 84.45 |
| 27          | 82.86 | 83.49 | 83.50 | 83.77 | 83.23 | 82.41 | 80.00 | 82.10 | 84.02 | 84.89 | 84.78 | 84.29 |
| 28          | 82.97 | 83.49 | 83.45 | 83.88 | 83.22 | 82.55 | 80.31 | 82.00 | 84.19 | 84.99 | 84.78 | 83.91 |
| 29          | 83.14 | 83.46 | 83.45 | 83.76 | 83.23 | 82.58 | 80.36 | 81.94 | 84.09 | 85.16 | 84.81 | 83.77 |
| 30          | 83.26 | 83.43 | 83.58 | 83.50 | ---   | 82.45 | 80.59 | 82.03 | 84.09 | 85.18 | 84.79 | 83.88 |
| 31          | 83.36 | ---   | 83.49 | 83.49 | ---   | 82.46 | ---   | 82.16 | ---   | 85.10 | 84.78 | ---   |
| MEAN        | 82.64 | 83.45 | 83.74 | 83.35 | 83.47 | 82.79 | 79.92 | 81.47 | 83.25 | 84.71 | 84.84 | 84.44 |
| WTR YR 1988 | MEAN  | 83.18 |       | HIGH  | 76.38 |       | LOW   | 85.18 |       |       |       |       |

## GROUND-WATER LEVELS

429

## 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. Water levels for periods of missing record, June 27 to Aug. 11, were estimated.

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 1987 TO SEPTEMBER 1988  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 202.10 | 202.63 | 201.86 | 202.21 | 202.39 | 201.99 | 201.68 | 202.11 | 202.74 | 202.41 | 202.19 | 203.61 |
| 2           | 202.20 | 202.54 | 202.09 | 202.22 | 202.29 | 202.02 | 201.65 | 202.15 | 202.65 | 202.46 | 202.41 | 203.67 |
| 3           | 202.27 | 202.41 | 202.07 | 202.13 | 202.22 | 201.94 | 201.57 | 202.18 | 202.56 | 202.48 | 202.60 | 203.55 |
| 4           | 202.37 | 202.21 | 201.94 | 202.17 | 202.13 | 201.81 | 201.50 | 202.12 | 202.70 | 202.17 | 202.83 | 203.37 |
| 5           | 202.25 | 202.21 | 202.11 | 202.36 | 202.29 | 201.94 | 201.52 | 202.12 | 202.92 | 202.18 | 202.82 | 203.25 |
| 6           | 202.12 | 202.51 | 202.19 | 202.36 | 202.41 | 201.91 | 201.39 | 202.07 | 202.90 | 202.42 | 202.81 | 203.28 |
| 7           | 202.16 | 202.59 | 202.18 | 202.20 | 202.47 | 201.97 | 201.25 | 202.16 | 202.81 | 202.75 | 202.85 | 203.34 |
| 8           | 202.37 | 202.55 | 202.12 | 202.09 | 202.33 | 201.97 | 201.33 | 202.26 | 202.69 | 203.26 | 203.02 | 203.39 |
| 9           | 202.50 | 202.44 | 202.04 | 202.17 | 202.24 | 201.63 | 201.46 | 202.29 | 202.68 | 203.70 | 203.20 | 203.35 |
| 10          | 202.50 | 202.24 | 201.91 | 202.26 | 202.22 | 201.52 | 201.43 | 202.25 | 202.85 | 203.67 | 203.47 | 203.42 |
| 11          | 202.32 | 202.40 | 201.82 | 202.32 | 202.16 | 201.83 | 201.65 | 202.25 | 203.01 | 203.27 | 203.45 | 203.47 |
| 12          | 202.12 | 202.52 | 201.79 | 202.33 | 202.13 | 201.76 | 201.90 | 202.34 | 203.08 | 202.93 | 203.36 | 203.49 |
| 13          | 202.25 | 202.46 | 202.01 | 202.28 | 202.23 | 201.58 | 202.12 | 202.39 | 203.14 | 202.69 | 203.48 | 203.42 |
| 14          | 202.41 | 202.43 | 202.04 | 202.43 | 202.22 | 201.59 | 202.23 | 202.33 | 203.22 | 202.60 | 203.53 | 203.33 |
| 15          | 202.41 | 202.51 | 201.88 | 202.36 | 201.92 | 201.77 | 202.26 | 202.24 | 203.23 | 202.49 | 203.59 | 203.37 |
| 16          | 202.38 | 202.47 | 202.11 | 202.37 | 202.13 | 201.90 | 202.31 | 202.20 | 203.15 | 202.16 | 203.59 | 203.47 |
| 17          | 202.33 | 202.34 | 202.26 | 202.19 | 202.18 | 201.93 | 202.27 | 202.13 | 203.10 | 201.80 | 203.59 | 203.43 |
| 18          | 202.31 | 202.44 | 202.32 | 202.06 | 201.99 | 201.65 | 202.05 | 202.11 | 203.21 | 201.78 | 203.53 | 203.31 |
| 19          | 202.33 | 202.40 | 202.26 | 201.98 | 201.71 | 201.66 | 201.91 | 202.13 | 203.34 | 201.85 | 203.49 | 203.26 |
| 20          | 202.38 | 202.31 | 202.17 | 201.87 | 201.75 | 201.85 | 202.14 | 202.23 | 203.40 | 201.79 | 203.45 | 203.30 |
| 21          | 202.50 | 202.39 | 202.12 | 201.95 | 201.99 | 201.83 | 202.09 | 202.31 | 203.38 | 201.75 | 203.45 | 203.31 |
| 22          | 202.65 | 202.39 | 202.07 | 202.20 | 202.12 | 201.88 | 202.10 | 202.35 | 203.37 | 201.68 | 203.52 | 203.27 |
| 23          | 202.67 | 202.40 | 202.21 | 202.23 | 202.03 | 201.94 | 202.10 | 202.41 | 203.00 | 201.48 | 203.56 | 203.23 |
| 24          | 202.66 | 202.42 | 202.23 | 202.19 | 202.10 | 201.87 | 202.05 | 202.44 | 202.81 | 201.44 | 203.47 | 203.23 |
| 25          | 202.56 | 202.30 | 202.17 | 202.04 | 202.16 | 201.78 | 201.99 | 202.39 | 202.88 | 201.58 | 203.40 | 203.26 |
| 26          | 202.41 | 202.11 | 202.14 | 202.31 | 202.15 | 201.68 | 201.93 | 202.54 | 202.79 | 201.90 | 203.40 | 203.30 |
| 27          | 202.29 | 201.98 | 202.13 | 202.59 | 201.93 | 201.71 | 202.09 | 202.64 | 202.40 | 202.25 | 203.48 | 203.38 |
| 28          | 202.43 | 201.88 | 201.98 | 202.70 | 201.90 | 201.78 | 202.19 | 202.63 | 202.28 | 202.34 | 203.49 | 203.39 |
| 29          | 202.55 | 201.83 | 202.16 | 202.68 | 201.92 | 201.76 | 202.21 | 202.61 | 202.24 | 202.40 | 203.50 | 203.42 |
| 30          | 202.62 | 201.76 | 202.39 | 202.57 | ---    | 201.73 | 202.16 | 202.66 | 202.41 | 202.34 | 203.44 | 203.44 |
| 31          | 202.67 | ---    | 202.34 | 202.45 | ---    | 201.70 | ---    | 202.73 | ---    | 202.12 | 203.49 | ---    |
| MEAN        | 202.39 | 202.34 | 202.10 | 202.27 | 202.13 | 201.80 | 201.88 | 202.32 | 202.90 | 202.33 | 203.27 | 203.38 |
| WTR YR 1988 | MEAN   | 202.42 |        | HIGH   | 201.25 |        | LOW    | 203.70 |        |        |        |        |

## CHEMICAL QUALITY OF PRECIPITATION

## 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 (medium code "7"). An analysis with a medium code of "8" indicates that 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 for the sampling period.

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE                        | TIME | MEDIUM<br>CODE | TOTAL<br>PRECIP-<br>ITATION<br>FOR<br>DEFINED<br>PERIOD<br>(IN) | SAMPLE<br>SIZE<br>(ML) | COL-<br>LECTOR<br>EFFI-<br>CIENCY<br>WET<br>DEPOS.<br>PERCENT | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS) |
|-----------------------------|------|----------------|-----------------------------------------------------------------|------------------------|---------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------------|
| OCT                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 06-13                       | 1400 | 7              | <0.01                                                           | 2                      | --                                                            | --                                                | --                                                       | --                             | --                                    |
| 13-20                       | 1400 | 7              | <0.01                                                           | 1                      | --                                                            | --                                                | --                                                       | --                             | --                                    |
| 20-27                       | 1400 | 7              | 0.02                                                            | 37                     | 108                                                           | --                                                | 13                                                       | --                             | 5.87                                  |
| OCT 27-<br>NOV 03           | 1400 | 7              | 0.0                                                             | 0                      | --                                                            | --                                                | --                                                       | --                             | --                                    |
| NOV                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 03-10                       | 1400 | 7              | 0.97                                                            | 1300                   | 79                                                            | 9                                                 | 12                                                       | 4.82                           | 4.88                                  |
| 10-17                       | 1400 | 7              | 1.76                                                            | 2900                   | 97                                                            | 8                                                 | 8                                                        | 4.74                           | 5.20                                  |
| 17-24                       | 1530 | 7              | 0.46                                                            | 800                    | 101                                                           | 4                                                 | 4                                                        | 4.82                           | 5.23                                  |
| NOV 24-<br>DEC 01           | 1400 | 7              | 0.92                                                            | --                     | --                                                            | --                                                | 25                                                       | --                             | 6.94                                  |
| DEC                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 01-08                       | 1400 | 7              | <0.01                                                           | 6                      | --                                                            | --                                                | 25                                                       | --                             | 6.66                                  |
| 08-15                       | 1400 | 7              | 0.03                                                            | 60                     | 116                                                           | --                                                | 15                                                       | --                             | 4.95                                  |
| 15-22                       | 1400 | 7              | 2.00                                                            | 3400                   | 98                                                            | 7                                                 | 7                                                        | 4.60                           | 4.89                                  |
| 22-29                       | 1400 | 7              | 0.11                                                            | 180                    | 98                                                            | 17                                                | 12                                                       | 4.50                           | 4.87                                  |
| DEC 29 1987-<br>JAN 05 1988 | 1400 | 7              | 1.30                                                            | 2000                   | 90                                                            | 11                                                | 10                                                       | 4.67                           | 4.74                                  |
| JAN                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 05-12                       | 1400 | 7              | 0.57                                                            | 990                    | 101                                                           | 16                                                | 14                                                       | 4.33                           | 4.56                                  |
| 12-19                       | 1400 | 7              | 2.56                                                            | 4500                   | 102                                                           | 8                                                 | 9                                                        | 4.60                           | 4.88                                  |
| 19-26                       | 1400 | 7              | 1.01                                                            | 1600                   | 94                                                            | 10                                                | 9                                                        | 4.71                           | 4.92                                  |
| JAN 26-<br>FEB 02           | 1400 | 7              | <0.01                                                           | 3                      | --                                                            | --                                                | --                                                       | --                             | 4.07                                  |
| FEB                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 02-09                       | 1400 | 7              | 1.10                                                            | 1900                   | 100                                                           | 15                                                | 16                                                       | 4.39                           | 4.53                                  |
| 09-16                       | 1400 | 7              | 0.26                                                            | 450                    | 101                                                           | 19                                                | 16                                                       | 4.41                           | 4.65                                  |
| 16-23                       | 1400 | 7              | 4.68                                                            | 8100                   | 100                                                           | 5                                                 | 4                                                        | 4.70                           | 5.23                                  |
| FEB 23-<br>MAR 01           | 1400 | 7              | <0.01                                                           | 7                      | --                                                            | --                                                | 16                                                       | --                             | 6.31                                  |
| MAR                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 01-08                       | 1400 | 7              | 3.19                                                            | 5400                   | 98                                                            | 4                                                 | 4                                                        | 4.66                           | 5.17                                  |
| 08-15                       | 1400 | 8              | 1.70                                                            | 2800                   | 97                                                            | 6                                                 | 8                                                        | 5.10                           | 4.86                                  |
| 15-22                       | 1400 | 8              | 0.51                                                            | 880                    | 100                                                           | 7                                                 | 23                                                       | 4.25                           | 4.40                                  |
| 22-29                       | 1400 | 8              | 0.43                                                            | 250                    | 34                                                            | 5                                                 | 101                                                      | 5.77                           | 7.43                                  |
| MAR 29-<br>APR 05           | 1400 | 7              | <0.01                                                           | 15                     | --                                                            | --                                                | 51                                                       | --                             | 5.06                                  |
| APR                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 05-12                       | 1400 | 7              | 0.28                                                            | 480                    | 99                                                            | 24                                                | 24                                                       | 4.34                           | 4.46                                  |
| 12-19                       | 1400 | 7              | 2.66                                                            | 4500                   | 98                                                            | 19                                                | 12                                                       | 4.59                           | 5.31                                  |
| 19-26                       | 1400 | 7              | 3.44                                                            | 5800                   | 98                                                            | 13                                                | 11                                                       | 4.78                           | 5.34                                  |
| APR 26-<br>MAY 03           | 1400 | 7              | 0.21                                                            | 370                    | 101                                                           | 16                                                | 15                                                       | 4.31                           | 4.51                                  |
| MAY                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 03-10                       | 1400 | 7              | 0.22                                                            | 390                    | 103                                                           | 38                                                | 36                                                       | 4.20                           | 4.26                                  |
| 10-17                       | 1400 | 7              | 0.62                                                            | 1100                   | 101                                                           | 19                                                | 19                                                       | 4.42                           | 4.55                                  |
| 17-24                       | 1400 | 7              | 0.18                                                            | 310                    | 100                                                           | 30                                                | 18                                                       | 4.25                           | 4.96                                  |
| 24-31                       | 1400 | 7              | 1.09                                                            | 1800                   | 97                                                            | 8                                                 | 10                                                       | 5.11                           | 6.20                                  |
| MAY 31-<br>JUN 07           | 1400 | 7              | 0.15                                                            | 270                    | 105                                                           | 25                                                | 16                                                       | 4.30                           | 4.74                                  |
| JUN                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 07-14                       | 1400 | 7              | 0.64                                                            | 1100                   | 97                                                            | 30                                                | 31                                                       | 4.16                           | 4.25                                  |
| 14-21                       | 1530 | 7              | 0.0                                                             | 0                      | --                                                            | --                                                | --                                                       | --                             | --                                    |
| 21-28                       | 1400 | 7              | 1.73                                                            | 3000                   | 101                                                           | 7                                                 | 54                                                       | 3.91                           | 3.95                                  |
| JUN 28-<br>JUL 05           | 1400 | 7              | 0.14                                                            | 270                    | 111                                                           | 25                                                | 16                                                       | 4.48                           | 4.97                                  |
| JUL                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 05-12                       | 1400 | 7              | 0.76                                                            | 1200                   | 95                                                            | 12                                                | 10                                                       | 4.60                           | 4.74                                  |
| 12-19                       | 1400 | 7              | 2.34                                                            | 4000                   | 100                                                           | 14                                                | 15                                                       | 4.55                           | 4.55                                  |
| 19-26                       | 1400 | 7              | 1.00                                                            | 1800                   | 100                                                           | 13                                                | 13                                                       | 4.57                           | 4.60                                  |
| JUL 26-<br>AUG 02           | 1400 | 7              | 0.03                                                            | 44                     | 100                                                           | --                                                | 31                                                       | --                             | 4.63                                  |
| AUG                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 02-09                       | 1400 | 7              | <0.01                                                           | 0                      | --                                                            | --                                                | --                                                       | --                             | --                                    |
| 09-16                       | 1400 | 7              | 2.52                                                            | 4400                   | 102                                                           | 8                                                 | 9                                                        | 4.64                           | 4.73                                  |
| 16-23                       | 1400 | 7              | 0.28                                                            | 480                    | 100                                                           | 23                                                | 17                                                       | 4.23                           | 4.54                                  |
| 23-30                       | 1400 | 7              | 0.66                                                            | 1200                   | 103                                                           | 24                                                | 31                                                       | 4.14                           | 4.17                                  |
| AUG 30-<br>SEP 06           | 1400 | 7              | <0.01                                                           | 0                      | --                                                            | --                                                | 5                                                        | --                             | 5.09                                  |
| SEP                         |      |                |                                                                 |                        |                                                               |                                                   |                                                          |                                |                                       |
| 06-13                       | 1400 | 7              | 3.38                                                            | 5900                   | 102                                                           | 4                                                 | 4                                                        | 5.06                           | 5.09                                  |
| 13-20                       | 1400 | 7              | 0.11                                                            | 180                    | 91                                                            | 18                                                | 12                                                       | 4.10                           | 6.10                                  |
| 20-27                       | 1400 | 7              | 0.05                                                            | 110                    | 140                                                           | 24                                                | 19                                                       | 4.27                           | 4.50                                  |
| SEP 27-<br>OCT 04           | 1400 | 7              | 1.66                                                            | 2800                   | 97                                                            | 5                                                 | 5                                                        | 5.41                           | 5.11                                  |

## TIFT COUNTY

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA---Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

| DATE         | MEDIUM CODE | CALCIUM DIS-SOLVED (MG/L AS CA) | MAGNESIUM, DIS-SOLVED (MG/L AS MG) | SODIUM, DIS-SOLVED (MG/L AS NA) | SODIUM PERCENT | SODIUM AD-SORPTION RATIO | POTASSIUM, DIS-SOLVED (MG/L AS K) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLORIDE, DIS-SOLVED (MG/L AS CL) | NITROGEN, NITRATE DIS-SOLVED (MG/L AS NO3) | NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4) | PHOSPHATE, DIS-SOLVED (MG/L AS PO4) |
|--------------|-------------|---------------------------------|------------------------------------|---------------------------------|----------------|--------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------|
| OCT          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 06-13        | 7           | --                              | --                                 | --                              | --             | --                       | --                                | --                               | --                                | --                                         | --                                         | --                                  |
| 13-20        | 7           | --                              | --                                 | --                              | --             | --                       | --                                | --                               | --                                | --                                         | --                                         | --                                  |
| 20-27        | 7           | 0.15                            | 0.13                               | 1.5                             | 77             | 0.7                      | 0.05                              | 0.86                             | 1.9                               | 1.2                                        | <0.02                                      | <0.02                               |
| OCT 27-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| NOV 03       | 7           | --                              | --                                 | --                              | --             | --                       | --                                | --                               | --                                | --                                         | --                                         | --                                  |
| NOV          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 03-10        | 7           | 0.05                            | 0.08                               | 0.68                            | 74             | 0.4                      | 0.04                              | 0.84                             | 1.2                               | 0.38                                       | 0.06                                       | <0.02                               |
| 10-17        | 7           | 0.04                            | 0.06                               | 0.53                            | 71             | 0.4                      | 0.09                              | 0.59                             | 0.94                              | 0.19                                       | 0.03                                       | <0.02                               |
| 17-24        | 7           | 0.03                            | 0.01                               | 0.03                            | 36             | 0.0                      | 0.02                              | 0.23                             | 0.06                              | 0.32                                       | <0.02                                      | <0.02                               |
| NOV 24-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| DEC 01       | 7           | 0.22                            | 0.22                               | 1.1                             | 35             | 0.4                      | 2.3                               | 0.79                             | 1.5                               | 0.24                                       | 1.2                                        | 0.13                                |
| DEC          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 01-08        | 7           | --                              | --                                 | --                              | --             | --                       | --                                | --                               | --                                | --                                         | --                                         | --                                  |
| 08-15        | 7           | 0.22                            | 0.10                               | 0.79                            | 64             | 0.4                      | 0.04                              | 1.8                              | 1.2                               | 1.3                                        | 0.19                                       | <0.02                               |
| 15-22        | 7           | 0.03                            | 0.02                               | 0.17                            | 66             | 0.2                      | 0.02                              | 0.75                             | 0.29                              | 0.23                                       | 0.05                                       | <0.02                               |
| 22-29        | 7           | 0.09                            | 0.07                               | 0.59                            | 69             | 0.4                      | 0.04                              | 1.1                              | 0.95                              | 0.68                                       | 0.09                                       | <0.02                               |
| DEC 29 1987- |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| JAN 05 1988  | 7           | 0.03                            | 0.02                               | 0.16                            | 68             | 0.2                      | 0.01                              | 0.78                             | 0.30                              | 0.48                                       | 0.05                                       | <0.02                               |
| JAN          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 05-12        | 7           | 0.03                            | 0.01                               | 0.09                            | 59             | 0.1                      | 0.01                              | 1.4                              | 0.19                              | 0.53                                       | <0.02                                      | <0.02                               |
| 12-19        | 7           | 0.04                            | 0.03                               | 0.27                            | 70             | 0.2                      | 0.02                              | 0.74                             | 0.47                              | 0.37                                       | <0.02                                      | <0.02                               |
| 19-26        | 7           | 0.09                            | 0.05                               | 0.40                            | 66             | 0.3                      | 0.02                              | 0.89                             | 0.68                              | 0.43                                       | 0.03                                       | <0.02                               |
| JAN 26-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| FEB 02       | 7           | --                              | --                                 | --                              | --             | --                       | --                                | --                               | --                                | --                                         | --                                         | --                                  |
| FEB          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 02-09        | 7           | 0.04                            | 0.01                               | 0.13                            | 61             | 0.1                      | 0.02                              | 1.4                              | 0.19                              | 0.56                                       | <0.02                                      | <0.02                               |
| 09-16        | 7           | 0.12                            | 0.06                               | 0.44                            | 63             | 0.3                      | 0.02                              | 1.5                              | 0.75                              | 0.89                                       | 0.07                                       | <0.02                               |
| 16-23        | 7           | 0.05                            | 0.01                               | 0.02                            | 22             | 0.0                      | 0.01                              | 0.43                             | 0.04                              | 0.20                                       | 0.04                                       | <0.02                               |
| FEB 23-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| MAR 01       | 7           | --                              | --                                 | --                              | --             | --                       | --                                | --                               | --                                | --                                         | --                                         | --                                  |
| MAR          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 01-08        | 7           | 0.03                            | 0.01                               | 0.07                            | 57             | 0.1                      | 0.003                             | 0.45                             | 0.11                              | 0.15                                       | 0.04                                       | 0.04                                |
| 08-15        | 8           | 0.04                            | 0.01                               | 0.10                            | 55             | 0.1                      | 0.02                              | 0.82                             | 0.16                              | 0.41                                       | 0.05                                       | <0.02                               |
| 15-22        | 8           | 0.24                            | 0.03                               | 0.16                            | 32             | 0.1                      | 0.02                              | 2.3                              | 0.30                              | 1.5                                        | 0.15                                       | 0.09                                |
| 22-29        | 8           | 1.3                             | 0.85                               | 1.9                             | 27             | 0.3                      | 3.3                               | 7.7                              | 3.7                               | 4.1                                        | 9.5                                        | 3.2                                 |
| MAR 29-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| APR 05       | 7           | 0.95                            | 0.47                               | 3.6                             | 63             | 0.8                      | 0.20                              | 4.2                              | 6.0                               | <0.20                                      | <0.13                                      | <0.13                               |
| APR          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 05-12        | 7           | 0.33                            | 0.11                               | 0.23                            | 23             | 0.1                      | 0.29                              | 2.7                              | 0.46                              | 1.7                                        | 0.18                                       | 0.04                                |
| 12-19        | 7           | 0.14                            | 0.04                               | 0.27                            | 46             | 0.2                      | 0.13                              | 1.6                              | 0.55                              | 1.1                                        | 0.58                                       | <0.02                               |
| 19-26        | 7           | 0.15                            | 0.05                               | 0.32                            | 50             | 0.2                      | 0.10                              | 1.4                              | 0.63                              | 0.95                                       | 0.09                                       | <0.02                               |
| APR 26-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| MAY 03       | 7           | 0.12                            | 0.02                               | 0.03                            | 12             | 0.0                      | 0.03                              | 0.61                             | 0.09                              | 2.0                                        | <0.02                                      | 0.03                                |
| MAY          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 03-10        | 7           | 0.37                            | 0.14                               | 0.79                            | 52             | 0.3                      | 0.06                              | 3.8                              | 1.3                               | 2.4                                        | 0.24                                       | <0.02                               |
| 10-17        | 7           | 0.20                            | 0.06                               | 0.42                            | 53             | 0.2                      | 0.04                              | 2.0                              | 0.74                              | 1.3                                        | 0.21                                       | <0.02                               |
| 17-24        | 7           | 0.35                            | 0.16                               | 0.90                            | 53             | 0.3                      | 0.15                              | 1.7                              | 1.5                               | 1.6                                        | <0.02                                      | 0.08                                |
| 24-31        | 7           | 0.30                            | 0.16                               | 0.19                            | 15             | 0.1                      | 0.72                              | 0.90                             | 0.35                              | 0.76                                       | 0.08                                       | <0.02                               |
| MAY 31-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| JUN 07       | 7           | 0.26                            | 0.05                               | 0.24                            | 33             | 0.1                      | 0.14                              | 1.8                              | 0.47                              | 1.6                                        | <0.02                                      | <0.02                               |
| JUN          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 07-14        | 7           | 0.18                            | 0.03                               | 0.13                            | 32             | 0.1                      | 0.02                              | 3.3                              | 0.19                              | 2.0                                        | 0.08                                       | <0.02                               |
| 14-21        | 7           | --                              | --                                 | --                              | --             | --                       | --                                | --                               | --                                | --                                         | --                                         | --                                  |
| 21-28        | 7           | 0.13                            | 0.01                               | 0.06                            | 25             | 0.0                      | 0.03                              | 5.3                              | 0.12                              | 2.4                                        | <0.02                                      | 0.18                                |
| JUN 28-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| JUL 05       | 7           | 0.25                            | 0.10                               | 0.56                            | 53             | 0.2                      | 0.02                              | 1.6                              | 0.70                              | 2.4                                        | <0.02                                      | <0.02                               |
| JUL          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 05-12        | 7           | 0.06                            | 0.02                               | 0.09                            | 45             | 0.1                      | 0.02                              | 0.73                             | 0.16                              | <0.03                                      | <0.02                                      | <0.02                               |
| 12-19        | 7           | 0.07                            | 0.02                               | 0.10                            | --             | 0.1                      | <0.003                            | 1.5                              | 0.13                              | 0.70                                       | <0.02                                      | <0.02                               |
| 19-26        | 7           | 0.08                            | 0.02                               | 0.09                            | --             | 0.1                      | <0.003                            | 0.96                             | 0.12                              | 0.53                                       | <0.02                                      | <0.02                               |
| JUL 26-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| AUG 02       | 7           | 0.76                            | 0.13                               | 0.79                            | 40             | 0.2                      | 0.09                              | 5.0                              | 0.58                              | 3.9                                        | <0.02                                      | 0.13                                |
| AUG          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 02-09        | 7           | --                              | --                                 | --                              | --             | --                       | --                                | --                               | --                                | --                                         | --                                         | --                                  |
| 09-16        | 7           | 0.02                            | 0.01                               | 0.09                            | 64             | 0.1                      | 0.01                              | 0.77                             | 0.15                              | <0.03                                      | <0.02                                      | <0.02                               |
| 16-23        | 7           | 0.11                            | 0.04                               | 0.17                            | 44             | 0.1                      | 0.02                              | 1.1                              | 0.05                              | 0.60                                       | 0.10                                       | <0.02                               |
| 23-30        | 7           | 0.06                            | 0.02                               | 0.17                            | 59             | 0.2                      | 0.02                              | 3.2                              | 0.16                              | 1.4                                        | 0.07                                       | <0.02                               |
| AUG 30-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| SEP 06       | 7           | 0.03                            | 0.02                               | 0.19                            | 73             | 0.2                      | 0.003                             | 0.37                             | 0.33                              | 0.24                                       | <0.02                                      | <0.02                               |
| SEP          |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| 06-13        | 7           | 0.02                            | 0.01                               | 0.09                            | 67             | 0.1                      | 0.01                              | 0.32                             | 0.14                              | <0.03                                      | <0.02                                      | <0.02                               |
| 13-20        | 7           | 0.10                            | 0.09                               | 0.70                            | 69             | 0.4                      | 0.04                              | 1.3                              | 1.3                               | 1.3                                        | <0.02                                      | 0.06                                |
| 20-27        | 7           | 0.16                            | 0.06                               | 0.24                            | 44             | 0.1                      | 0.03                              | 2.3                              | 0.26                              | 1.6                                        | <0.02                                      | 0.25                                |
| SEP 27-      |             |                                 |                                    |                                 |                |                          |                                   |                                  |                                   |                                            |                                            |                                     |
| OCT 04       | 7           | 0.02                            | 0.02                               | 0.20                            | 72             | 0.2                      | 0.02                              | 0.40                             | 0.33                              | 0.28                                       | <0.02                                      | <0.02                               |



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| Toombsboro, Oconee River near.....                 | 150     | near Valdosta.....                                | 196     |
| Total, definition of.....                          | 23      | Worth County, ground-water levels in.....         | 429     |
| Total, recoverable, definition of.....             | 23      | Wrens, Brushy Creek near.....                     | 52      |
| Total coliform bacteria, definition of.....        | 17      | WSP, definition of.....                           | 23      |
| Total discharge, definition of.....                | 23      |                                                   |         |
| Total organism count, definition of.....           | 19      | Yellow River at Milstead.....                     | 108     |
| Total-sediment discharge, definition of.....       | 21      | near Snellville.....                              | 106-107 |
| Total-sediment load, definition of.....            | 21      | near Stewart.....                                 | 109-110 |
| Tritium network, explanation of.....               | 8       | Yellowjacket Creek near LaGrange.....             | 247     |
| definition of.....                                 | 23      |                                                   |         |
| Tucsawhatchee Creek near Hawkinsville.....         | 133     | Zooplankton, definition of.....                   | 20      |







## 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)                                | $2.54 \times 10^1$     | millimeters (mm)                                 |
|                                            | $2.54 \times 10^{-2}$  | meters (m)                                       |
| feet (ft)                                  | $3.048 \times 10^{-1}$ | meters (m)                                       |
| miles (mi)                                 | $1.609 \times 10^0$    | kilometers (km)                                  |
| <i>Area</i>                                |                        |                                                  |
| acres                                      | $4.047 \times 10^3$    | square meters (m <sup>2</sup> )                  |
|                                            | $4.047 \times 10^{-1}$ | square hectometers (hm <sup>2</sup> )            |
|                                            | $4.047 \times 10^{-3}$ | square kilometers (km <sup>2</sup> )             |
| square miles (mi <sup>2</sup> )            | $2.590 \times 10^0$    | square kilometers (km <sup>2</sup> )             |
| <i>Volume</i>                              |                        |                                                  |
| gallons (gal)                              | $3.785 \times 10^0$    | liters (L)                                       |
|                                            | $3.785 \times 10^0$    | cubic decimeters (dm <sup>3</sup> )              |
|                                            | $3.785 \times 10^{-3}$ | cubic meters (m <sup>3</sup> )                   |
| million gallons                            | $3.785 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $3.785 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
| cubic feet (ft <sup>3</sup> )              | $2.832 \times 10^1$    | cubic decimeters (dm <sup>3</sup> )              |
|                                            | $2.832 \times 10^{-2}$ | cubic meters (m <sup>3</sup> )                   |
| cfs-days                                   | $2.447 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $2.447 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
| acre-feet (acre-ft)                        | $1.233 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $1.233 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
|                                            | $1.233 \times 10^{-6}$ | cubic kilometers (km <sup>3</sup> )              |
| <i>Flow</i>                                |                        |                                                  |
| cubic feet per second (ft <sup>3</sup> /s) | $2.832 \times 10^1$    | liters per second (L/s)                          |
|                                            | $2.832 \times 10^1$    | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $2.832 \times 10^{-2}$ | cubic meters per second (m <sup>3</sup> /s)      |
| gallons per minute (gal/min)               | $6.309 \times 10^{-2}$ | liters per second (L/s)                          |
|                                            | $6.309 \times 10^{-2}$ | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $6.309 \times 10^{-5}$ | cubic meters per second (m <sup>3</sup> /s)      |
| million gallons per day                    | $4.381 \times 10^1$    | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $4.381 \times 10^{-2}$ | cubic meters per second (m <sup>3</sup> /s)      |
| <i>Mass</i>                                |                        |                                                  |
| tons (short)                               | $9.072 \times 10^{-1}$ | megagrams (Mg) or metric tons                    |

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