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Water Resources Data for Alabama

Volume 1. Apalachicola, Choctawatchee, Blackwater, Escambia, Perdido, and Alabama River Basins

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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AL-79-1

WATER YEAR 1979

Prepared in cooperation with the Geological Survey of Alabama, the Alabama Highway Department, and with other State, municipal, and Federal agencies

CALENDAR FOR WATER YEAR 1979

1978

OCTOBER

S	M	T	W	T	F	S
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1979

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AUGUST

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SEPTEMBER

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30						

Water Resources Data for Alabama

Volume 1. Apalachicola, Choctawatchee, Blackwater, Escambia, Perdido, and Alabama River Basins

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AL-79-1

WATER YEAR 1979

Prepared in cooperation with the Geological Survey of Alabama, the Alabama Highway Department, and with other State, municipal, and Federal agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. W. Menard, Director

For information on the water program in Alabama write to
District Chief, Water Resources Division
U.S. Geological Survey
Post Office Box V
University, Alabama 35486

1980

PREFACE

This report was prepared by personnel of the Alabama district of the Water Resources Division of the U.S. Geological Survey under the supervision of W. J. Powell, District Chief, succeeded by C. A. Pascale, and R. J. Dingman, Regional Hydrologist, Southeastern Region, succeeded by J. L. Cook. It was done in cooperation with the State of Alabama and with other agencies.

This report is one of a series issued by State. General direction for the series is by Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and R. J. Dingman, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Alabama are in two volumes as follows:

Volume 1. Apalachicola, Choctawhatchee, Blackwater, Escambia, Perdido River basins, and Alabama River basin in the Mobile River basin.

Volume 2. Dog, Tombigbee, Mobile, Pascagoula, and Tennessee River basins.

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16. Abstract (Limit: 200 words)

Water resources data for the 1979 water year for Alabama consist of records of stage, discharge, and water quality of streams, stage and contents of lakes and reserviors, and water levels in wells. This report contains discharge records for 99 gaging stations; stage only for 23 gaging stations, stage and contents for 12 lakes and reserviors; water quality for 71 gaging stations, and water levels for 53 observation wells. Also included are 24 low-flow partial-record stations, 20 crest-stage partial-record stations, 11 flood hydrograph partial record stations, and 112 water-quality partial-record stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Alabama.

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Alabama

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

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WATER RESOURCES DATA FOR ALABAMA, 1979

Volume 1: Apalachicola, Choctawhatchie, Blackwater, Escambia, Perdido River Basins, and Alabama River in the Mobile River Basin

INTRODUCTION

Water resources data for the 1979 water year consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground-water wells. This report contains records for water discharge at 48 gaging stations; stage only at 16 gaging stations; stage and contents of 8 lakes and reservoirs; water quality at 37 gaging stations, 9 partial-record stations; and water levels at 9 observation wells. Also included are data for 24 low flow, 15 crest-stage and 8 flood hydrograph partial-record stations. Location of these sites are shown on figures 4-7. Additional water data were collected at various sites, not involved in the systematic data-collection program, and are published as miscellaneous measurements and analyses. Discharge records for a few pertinent stations in bordering states are also included in this report. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Alabama.

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

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report AL-79-1." For archiving and general distribution, the water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22151.

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 (205) 752-8104.

COOPERATION

The U.S. Geological Survey and organizations of the State of Alabama have had cooperative agreements for the systematic collection of streamflow records since 1900. Cooperative agreements between the U.S. Geological Survey and the Geological Survey of Alabama for collection of streamflow records have been continuous since 1935. There have been cooperative agreements for the collection of ground-water level records since 1940, and for the collection of water-quality records since 1962. Organizations that assisted in collecting data for this report through cooperative agreements with the Survey are:

Geological Survey of Alabama, Thomas J. Joiner, State Geologist.

Alabama Highway Department, Dr. Rex K. Rainer, Director.

The Corps of Engineers, U.S. Army gave assistance in the form of funds or services .

The Alabama Power Company (Federal Power Commission licensee) aided in collecting records.

HYDROLOGIC CONDITIONS

Streamflow during the 1979 water year, except for the southeast section, was generally above normal throughout Alabama. Annual runoff at two index gaging stations ranged from 129 to 156 percent of median for the average 47-year period of record. Monthly and annual mean discharge is compared with medians at two representative gaging stations in figure 1.

The 1979 water year began with deficient flow conditions in nearly all sections of the State. In December streamflow increased to near normal except in the southeast where it remained deficient.

Heavy and intense rainfall of April 12-14, caused widespread flooding along many streams in central and southern Alabama. General rainfall of 4 to 8 inches covered much of central Alabama with isolated areas receiving as much as 12 inches.

Runoff from the storm resulted in record-breaking floods on many streams. Peak discharges at long-term gaging stations in the Coosa, Tallapoosa, Black Warrior, Cahaba, and Tombigbee River basins equalled or exceeded the 100-year flood. Significant damage occurred to homes, highways, and bridges. In west-central Alabama two lives were lost by drowning. A summary of flood stages and discharges at 6 selected sites for the April flood is included in this report (see table 1).

Severe tidal flooding occurred along coastal area on September 13 as Hurricane Frederic moved inland. Property damage is reported to have exceeded $1 billion. The extent of the tidal flooding is depicted in a series of hydrologic atlases. Only moderate flooding occurred inland as a result of rainfall associated with the hurricane.

Figure 2 shows the lowest and highest monthly low water level during water year 1979 compared with the highest and lowest monthly low water levels for the period of record for two observation wells.

During 1979 ground-water levels in most observation wells in the State were highest in March, April, and May, and declined steadily during the rest of the year. New all-time high water levels were recorded in six wells; one well tapping aquifers of Late Cretaceous age and five wells tapping aquifers of Quaternary age.

Fifteen wells tapping aquifers of Mississippian, Pennsylvanian, Late Cretaceous, and Quaternary age and metamorphic rocks in the State recorded new all-time low water levels.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data are defined below. See also 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.

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.

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

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as 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 intestine or feces of warmblooded 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 found also in the intestine of warmblooded 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 M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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

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

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

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

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic 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 a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic meters. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimeter from 1 square kilometer.

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

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

Contents is the volume of water in a reservoir, lake, stream or aquifer. Contents herein is that of a reservoir or lake and unless otherwise indicated, 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.

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

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

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

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

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

Dissolved is that material in a representative water sample which passes through a 0.45 um 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.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = - \sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the same are different.

Drainage area of a stream at a specified 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 stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	JUL 17,78		AUG 14,78		SEP 21,78		NOV 13,78		MAR 12,79		APR 9,79	
TIME	1330		1330		1215		1215		1330		1330	
TOTAL CELLS/ML	11000		9000		5500		1400		500		220	
DIVERSITY: DIVISION	1.1		1.3		1.5		0.9		1.0		0.9	
.CLASS	1.1		1.3		1.5		1.1		1.0		0.9	
..ORDER	1.8		2.2		2.1		1.6		1.2		1.7	
...FAMILY	2.1		2.5		2.6		1.9		1.2		2.1	
....GENUS	2.4		3.3		3.4		2.8		2.0		2.3	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	89	1	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE												
....COELASTRUM	360	3	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE												
....GOLENKINIA	*	0	*	0	44	1	--	-	--	-	--	-
....MICRACTINIUM	--	-	89	1	--	-	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	*	0	200	2	67	1	22	2	--	-	29	13
....CHODATELLA	--	-	--	-	--	-	44	3	--	-	--	-
....CLOSTERIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	440	5	530	10	--	-	--	-	29	13
....FRANCEIA	--	-	--	-	--	-	--	-	--	-	--	-
....GLOEOACTINIUM	--	-	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	*	0	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	110	1	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	*	0	--	-	--	-	--	-	--	-
....TETRAEDRON	110	1	*	0	44	1	--	-	--	-	--	-
....TREUBARIA	*	0	--	-	--	-	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....ACTINASTRUM	--	-	180	2	--	-	180	13	--	-	--	-
....CRUCIGENIA	--	-	--	-	330	6	--	-	--	-	--	-
....SCENEDESMUS	180	2	310	3	360	7	44	3	81#	16	--	-
....TETRASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
..TETRASPORALES												
...PALMELLACEAE												
....SPHAEROCYSTIS	--	-	67	1	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE	--	-	--	-	--	-	--	-	--	-	--	-
....CARTERIA	*	0	180	2	*	0	--	-	--	-	--	-
....CHLAMYDOMONAS	270	3	110	1	44	1	22	2	--	-	14	7
...PHACOTACEAE												
....PHACOTUS	--	-	--	-	--	-	--	-	--	-	--	-
...VOLVOCACEAE												
....EUDORINA	530	5	--	-	--	-	--	-	--	-	--	-
....PANDORINA	360	3	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....COSMARIUM	*	0	*	0	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	240	2	470	5	130	2	290#	21	160#	32	--	-
....MELOSIRA	360	3	360	4	930#	17	44	3	200#	40	100#	47
....SKELETONEMA	--	-	--	-	--	-	510#	38	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	*	0	--	-	22	2	--	-	--	-
....COCCONEIS	*	0	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	--	-	--	-	--	-	--	-	--	-	14	7
...FRAGILARIACEAE												
....SYNEDRA	--	-	--	-	--	-	--	-	--	-	14	7
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE												
....DIPLONEIS	--	-	*	0	--	-	--	-	--	-	--	-
....NAVICULA	--	-	*	0	*	0	44	3	20	4	14	7
...NITZSCHIACEAE												
....NITZSCHIA	220	2	*	0	44	1	66	5	--	-	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....OCHROMONAS	--	-	--	-	--	-	44	3	--	-	--	-

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02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	JUL 17,78		AUG 14,78		SEP 21,78		NOV 13,78		MAR 12,79		APR 9,79	
TIME	1330		1330		1215		1215		1330		1330	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CHYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	*	0	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....AGMENELLUM	--	-	180	2	1100#	20	--	-	--	-	--	-
....ANACYSTIS	6600#	62	2500#	28	950#	17	--	-	--	-	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	220	4	--	-	--	-	--	-
....CYLINDROSPERMUM	--	-	240	3	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....LYNGBYA	600	6	870	10	160	3	--	-	--	-	--	-
....OSCILLATORIA	490	5	2400#	26	440	8	--	-	--	-	--	-
...RIVULARIACEAE												
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	*	0	*	0	--	-	--	-	--	-
....TRACHELOMONAS	*	0	--	-	--	-	22	2	40	8	--	-
PYRRHOPHYTA (FIRE ALGAE)												
.DINOPHYCEAE												
..PERIDINIALES												
...PERIDINIACEAE												
....PERIDINIUM	--	-	*	0	*	0	--	-	--	-	--	-

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02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	MAY 4,79		JUN 29,79		JUL 23,79		AUG 21,79		SEP 18,79	
TIME	0830		0845		1300		1245		1230	
TOTAL CELLS/ML	6200		4200		3700		8200		7500	
DIVERSITY: DIVISION	0.8		1.2		0.9		1.3		0.9	
.CLASS	0.8		1.2		0.9		1.3		0.9	
..ORDER	0.8		1.5		1.4		2.0		1.7	
...FAMILY	0.9		1.6		1.6		2.6		1.8	
....GENUS	0.0		1.8		1.8		3.2		2.5	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	*	0	*	0	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	130	3	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	49	1
...MICRACTINIACEAE										
....GOLENKINIA	*	0	--	-	--	-	100	1	*	0
....MICRACTINIUM	100	2	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	43	1	26	1	65	2	500	6	82	1
....CHODATELLA	*	0	--	-	--	-	--	-	--	-
....CLOSTERIOPSIS	*	0	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	110	2	130	3	--	-	--	-	--	-
....FRANCEIA	--	-	--	-	--	-	--	-	*	0
....GLOEOACTINIUM	--	-	--	-	100	3	50	1	--	-
....KIRCHNERIELLA	*	0	--	-	52	1	100	1	120	2
....OOCYSTIS	--	-	--	-	--	-	--	-	66	1
....SELENASTRUM	*	0	--	-	--	-	*	0	--	-
....TETRAEDRON	--	-	--	-	--	-	50	1	*	0
....TREUBARIA	*	0	--	-	*	0	*	0	--	-
....WESTELLA	--	-	52	1	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	280	3	66	1
....SCENEDESMUS	110	2	210	5	52	1	500	6	410	5
....TETRASTRUM	--	-	--	-	--	-	200	2	--	-
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE	*	0	--	-	--	-	--	-	--	-
....CARTERIA	--	-	--	-	--	-	--	-	*	0
....CHLAMYDOMONAS	--	-	*	0	*	0	100	1	--	-
...PHACOTACEAE										
....PHACOTUS	*	0	--	-	--	-	--	-	--	-
...VOLVOCACEAE										
....EUDORINA	--	-	--	-	--	-	--	-	--	-
....PANDORINA	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	86	1	130	3	210	6	280	3	180	2
....MELOSIRA	260	4	770#	18	77	2	400	5	160	2
....SKELETONEMA	--	-	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	50	1	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	26	1	*	0	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	*	0	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....DIPLONEIS	--	-	--	-	--	-	--	-	--	-
....NAVICULA	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	--	-	39	1	*	0	180	2	*	0

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02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	MAY 4,79		JUN 29,79		JUL 23,79		AUG 21,79		SEP 18,79	
TIME	0830		0845		1300		1245		1230	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....OCHROMONAS	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	*	0	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	100	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	100	2	360	10	800	10	920	12
....ANACYSTIS	5300#	86	--	-	--	-	280	3	1700#	23
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	--	-
....CYLINDROSPERMUM	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	310	4
....OSCILLATORIA	--	-	2700#	64	2600#	70	3400#	41	3300#	44
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	800	10	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	*	0	--	-	--	-	--	-	*	0
....TRACHELOMONAS	*	0	--	-	--	-	--	-	*	0
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-

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02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	134	105	115	144	107	131	---	---	---	170	138	151
2	139	134	136	161	144	154	---	---	---	197	147	170
3	141	129	134	153	134	145	---	---	---	201	187	195
4	130	113	123	162	137	150	---	---	---	185	179	182
5	130	122	128	177	163	173	---	---	---	184	175	179
6	121	107	116	171	134	146	---	---	---	186	165	174
7	126	106	118	145	119	131	---	---	---	186	165	173
8	129	113	123	147	131	142	---	---	---	198	178	187
9	131	115	126	142	126	137	---	---	---	204	187	197
10	136	120	129	124	124	124	---	---	---	184	162	169
11	137	121	132	---	---	---	171	164	169	168	155	163
12	131	117	125	---	---	---	172	158	166	162	146	156
13	122	114	119	---	---	---	177	150	161	161	138	145
14	---	---	---	---	---	---	178	163	169	143	130	137
15	---	---	---	---	---	---	170	146	161	143	135	139
16	128	110	119	---	---	---	169	155	161	152	145	150
17	139	118	127	---	---	---	172	160	165	150	122	135
18	161	134	147	---	---	---	174	153	166	132	121	127
19	170	153	160	---	---	---	174	146	160	129	101	122
20	166	148	156	---	---	---	170	111	136	123	94	112
21	171	155	165	---	---	---	171	153	163	134	100	121
22	170	156	164	---	---	---	170	149	162	130	117	122
23	163	140	155	---	---	---	166	136	151	119	114	115
24	146	131	138	---	---	---	156	131	148	115	110	113
25	146	132	138	---	---	---	153	132	139	117	112	114
26	150	123	137	---	---	---	156	103	142	113	105	108
27	148	132	141	---	---	---	139	97	123	104	98	100
28	142	132	136	---	---	---	187	139	170	99	95	98
29	140	131	135	---	---	---	174	157	165	100	94	98
30	137	123	129	---	---	---	172	157	166	100	91	96
31	135	108	125	---	---	---	171	157	165	98	92	94
MONTH	171	105	134	177	107	143	187	97	158	204	91	140

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	95	88	92	---	---	---	96	89	93	---	---	---
2	97	86	92	---	---	---	101	97	100	---	---	---
3	96	92	94	---	---	---	108	101	105	---	---	---
4	95	79	91	---	---	---	109	102	106	76	59	66
5	93	79	88	---	---	---	103	89	95	96	75	90
6	97	72	86	---	---	---	93	81	87	102	88	93
7	97	87	91	---	---	---	85	73	78	96	80	88
8	88	77	83	---	---	---	83	79	81	---	---	---
9	94	83	88	---	---	---	95	84	88	---	---	---
10	91	82	87	70	65	68	---	---	---	---	---	---
11	89	78	85	68	63	66	---	---	---	---	---	---
12	92	84	88	67	59	64	---	---	---	---	---	---
13	101	90	96	69	62	66	---	---	---	---	---	---
14	100	89	95	74	67	70	---	---	---	---	---	---
15	97	89	93	75	66	71	---	---	---	---	---	---
16	104	96	99	73	68	70	---	---	---	---	---	---
17	107	98	102	72	65	70	---	---	---	---	---	---
18	108	99	103	73	66	70	---	---	---	---	---	---
19	105	86	99	73	66	70	---	---	---	---	---	---
20	105	93	100	74	67	71	---	---	---	---	---	---
21	102	94	98	74	71	73	---	---	---	---	---	---
22	---	---	---	76	72	74	---	---	---	---	---	---
23	---	---	---	79	74	76	---	---	---	---	---	---
24	---	---	---	84	79	82	---	---	---	---	---	---
25	---	---	---	86	83	85	---	---	---	---	---	---
26	---	---	---	90	82	85	---	---	---	---	---	---
27	---	---	---	92	83	88	---	---	---	---	---	---
28	---	---	---	93	83	88	---	---	---	---	---	---
29	---	---	---	97	87	92	---	---	---	---	---	---
30	---	---	---	98	88	92	---	---	---	---	---	---
31	---	---	---	96	90	93	---	---	---	---	---	---
MONTH	108	72	93	98	59	77	390	47	93	102	59	84

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---			
2	---	---	---	---	---	---	131	127	129			
3	---	---	---	---	---	---	138	128	133			
4	---	---	---	---	---	---	137	126	130			
5	---	---	---	---	---	---	137	126	131			
6	---	---	---	---	---	---	133	120	130			
7	---	---	---	---	---	---	120	101	110			
8	---	---	---	---	---	---	133	108	118			
9	---	---	---	---	---	---	138	122	131			
10	---	---	---	---	---	---	139	119	131			
11	---	---	---	---	---	---	140	122	134			
12	---	---	---	---	---	---	134	121	125			
13	---	---	---	---	---	---	139	125	134			
14	---	---	---	---	---	---	133	116	123			
15	---	---	---	---	---	---	133	88	105			
16	---	---	---	---	---	---	138	90	129			
17	---	---	---	---	---	---	143	112	125			
18	---	---	---	---	---	---	132	115	123			
19	---	---	---	---	---	---	137	121	131			
20	---	---	---	---	---	---	133	113	122			
21	---	---	---	---	---	---	131	118	123			
22	---	---	---	---	---	---	---	---	---			
23	---	---	---	127	92	109	---	---	---			
24	---	---	---	---	---	---	---	---	---			
25	---	---	---	---	---	---	---	---	---			
26	---	---	---	---	---	---	---	---	---			
27	---	---	---	---	---	---	---	---	---			
28	---	---	---	---	---	---	---	---	---			
29	99	78	92	---	---	---	---	---	---			
30	---	---	---	---	---	---	---	---	---			
31	---	---	---	---	---	---	---	---	---			
MONTH	99	78	92	127	92	109	143	88	126			

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.0	24.5	25.0	21.0	20.5	21.0	---	---	---	12.5	12.0	12.0
2	26.0	25.0	25.0	21.0	21.0	21.0	---	---	---	12.5	11.5	12.0
3	25.5	25.0	25.0	21.0	20.5	20.5	---	---	---	11.5	10.5	11.0
4	25.0	24.5	24.5	21.0	20.5	20.5	---	---	---	10.5	10.5	10.5
5	24.5	23.5	24.0	20.5	20.0	20.0	---	---	---	10.5	10.0	10.0
6	24.0	23.0	23.5	19.5	19.0	19.0	---	---	---	10.5	10.0	10.0
7	23.0	22.5	23.0	19.0	19.0	19.0	---	---	---	11.0	10.5	10.5
8	23.0	22.5	23.0	19.5	19.0	19.0	---	---	---	11.0	10.0	10.5
9	23.5	23.0	23.0	20.0	18.5	19.0	---	---	---	10.5	9.5	10.0
10	23.5	22.5	23.0	19.0	19.0	19.0	---	---	---	9.5	9.0	9.5
11	23.0	22.5	23.0	---	---	---	14.0	14.0	14.0	9.0	8.5	9.0
12	22.5	22.0	22.5	---	---	---	14.0	13.5	14.0	9.0	9.0	9.0
13	22.0	21.5	22.0	---	---	---	14.0	13.5	13.5	9.0	8.5	8.5
14	---	---	---	---	---	---	14.0	13.5	13.5	8.5	8.5	8.5
15	---	---	---	---	---	---	13.5	13.0	13.5	8.5	7.5	8.0
16	22.0	21.5	22.0	---	---	---	13.5	13.0	13.5	8.0	7.5	7.5
17	22.0	21.5	21.5	---	---	---	13.5	13.0	13.5	8.0	7.5	7.5
18	22.0	21.5	21.5	---	---	---	13.5	13.0	13.0	8.5	8.0	8.0
19	21.5	21.5	21.5	---	---	---	13.5	12.5	13.0	9.0	8.5	8.5
20	21.5	21.0	21.0	---	---	---	13.5	13.0	13.5	9.0	8.5	9.0
21	22.0	21.0	21.0	---	---	---	14.0	13.5	14.0	9.0	8.0	8.5
22	22.0	21.0	21.5	---	---	---	14.0	13.5	14.0	8.5	7.5	8.0
23	21.5	20.5	21.0	---	---	---	14.0	13.5	13.5	8.0	7.5	7.5
24	21.5	20.5	21.0	---	---	---	13.5	13.0	13.0	7.5	7.5	7.5
25	21.5	21.0	21.0	---	---	---	13.0	12.5	12.5	7.5	7.0	7.0
26	22.0	21.0	21.5	---	---	---	12.5	12.0	12.5	7.0	7.0	7.0
27	22.0	21.0	21.5	---	---	---	12.5	12.0	12.5	7.0	6.5	7.0
28	21.5	21.0	21.0	---	---	---	12.0	11.5	12.0	6.5	6.5	6.5
29	21.5	21.0	21.0	---	---	---	11.5	11.5	11.5	6.5	6.5	6.5
30	21.5	21.0	21.0	---	---	---	12.0	11.5	11.5	6.5	6.0	6.5
31	21.5	20.5	21.0	---	---	---	12.0	11.5	11.5	6.5	6.5	6.5
MONTH	26.0	20.5	22.5	21.0	18.5	20.0	14.0	11.5	13.0	12.5	6.0	8.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.5	6.0	6.5	---	---	---	15.5	14.5	15.0	---	---	---
2	6.5	5.5	6.0	---	---	---	16.0	15.5	15.5	---	---	---
3	6.0	6.0	6.0	---	---	---	16.0	15.5	16.0	---	---	---
4	6.5	6.0	6.0	---	---	---	16.5	---	---	22.5	18.5	20.0
5	6.5	6.0	6.5	---	---	---	16.5	16.0	16.5	23.0	20.0	22.0
6	6.5	6.0	6.5	---	---	---	16.5	16.0	16.0	23.5	21.0	22.5
7	6.0	6.0	6.0	---	---	---	16.5	16.0	16.0	21.5	21.0	21.0
8	6.0	5.5	5.5	---	---	---	16.5	16.0	16.0	---	---	---
9	5.5	5.0	5.5	---	---	---	16.5	16.0	16.0	---	---	---
10	5.0	4.5	5.0	8.5	8.5	8.5	14.5	---	---	---	---	---
11	5.0	4.5	4.5	10.5	10.5	10.5	---	---	---	---	---	---
12	5.0	4.5	4.5	12.5	12.0	12.0	---	---	---	---	---	---
13	5.0	4.5	5.0	12.5	12.0	12.5	---	---	---	---	---	---
14	5.5	4.5	5.0	13.0	12.5	12.5	---	---	---	---	---	---
15	5.5	5.0	5.0	13.0	12.5	12.5	---	---	---	---	---	---
16	5.5	5.0	5.5	13.0	12.5	12.5	---	---	---	---	---	---
17	5.0	4.5	5.0	12.5	12.5	12.5	---	---	---	---	---	---
18	4.5	4.5	4.5	13.0	12.5	13.0	---	---	---	---	---	---
19	4.5	3.5	4.0	13.0	13.0	13.0	---	---	---	---	---	---
20	4.0	3.5	3.5	13.5	13.0	13.5	---	---	---	---	---	---
21	3.5	3.0	3.5	14.0	13.5	13.5	---	---	---	---	---	---
22	---	---	---	14.0	14.0	14.0	---	---	---	---	---	---
23	---	---	---	14.0	14.0	14.0	---	---	---	---	---	---
24	---	---	---	14.0	14.0	14.0	---	---	---	---	---	---
25	---	---	---	14.0	14.0	14.0	---	---	---	---	---	---
26	---	---	---	14.5	13.5	14.0	---	---	---	---	---	---
27	---	---	---	14.5	13.5	14.0	---	---	---	---	---	---
28	---	---	---	14.5	14.0	14.0	---	---	---	---	---	---
29	---	---	---	15.0	14.0	14.5	---	---	---	---	---	---
30	---	---	---	15.0	14.5	14.5	---	---	---	---	---	---
31	---	---	---	15.0	14.5	14.5	---	---	---	---	---	---
MONTH	6.5	3.0	5.0	15.0	8.5	13.0	16.5	14.5	16.0	23.5	18.5	21.5

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---			
2	---	---	---	---	---	---	24.0	24.0	24.0			
3	---	---	---	---	---	---	24.0	24.0	24.0			
4	---	---	---	---	---	---	25.0	24.0	24.0			
5	---	---	---	---	---	---	24.5	24.0	24.5			
6	---	---	---	---	---	---	25.0	24.0	24.5			
7	---	---	---	---	---	---	25.0	24.0	24.5			
8	---	---	---	---	---	---	25.0	24.0	24.5			
9	---	---	---	---	---	---	25.0	24.5	24.5			
10	---	---	---	---	---	---	25.0	24.0	24.5			
11	---	---	---	---	---	---	25.0	24.5	24.5			
12	---	---	---	---	---	---	24.5	24.0	24.0			
13	---	---	---	---	---	---	25.0	24.0	24.0			
14	---	---	---	---	---	---	24.0	23.5	23.5			
15	---	---	---	---	---	---	24.0	22.5	23.0			
16	---	---	---	---	---	---	25.0	22.5	24.0			
17	---	---	---	---	---	---	24.5	23.5	24.0			
18	---	---	---	---	---	---	24.0	23.5	23.5			
19	---	---	---	---	---	---	24.5	23.5	24.0			
20	---	---	---	---	---	---	24.5	23.5	24.0			
21	---	---	---	---	---	---	24.0	24.0	24.0			
22	---	---	---	---	---	---	---	---	---			
23	---	---	---	23.0	22.0	22.5	---	---	---			
24	---	---	---	---	---	---	---	---	---			
25	---	---	---	---	---	---	---	---	---			
26	---	---	---	---	---	---	---	---	---			
27	---	---	---	---	---	---	---	---	---			
28	---	---	---	---	---	---	---	---	---			
29	23.0	20.5	22.0	---	---	---	---	---	---			
30	---	---	---	---	---	---	---	---	---			
31	---	---	---	---	---	---	---	---	---			
MONTH	23.0	20.5	22.0	23.0	22.0	22.5	25.0	22.5	24.0			

02421000 CATOMA CREEK NEAR MONTGOMERY, AL

LOCATION.--Lat 32°18'26", long 86°17'58", in center sec. 6, T. 15 N., R. 18 E., Montgomery County, Hydrologic Unit 03150201, on right bank on downstream side of bridge on U.S. Highway 331, 5 mi (8 km) south of Montgomery.

DRAINAGE AREA.--298 mi^2 (772 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1952 to September 1971. Flood hydrograph, water years 1972-74. October 1974 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 151.02 ft (46.031 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge record fair.

AVERAGE DISCHARGE.--24 years (water years 1953-71, 1975-79), 377 ft^3/s (10.68 m^3/s), 17.18 in/yr (436 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,600 ft^3/s (1,380 m^3/s) Feb. 25, 1961, gage height, 28.65 ft (8.733 m); no flow for many days in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 28, 1948, reached a stage of 27.5 ft (8.38 m) at present site and datum; discharge, 38,300 ft^3/s (1,080 m^3/s).

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

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 25	0700	7830	222	21.42	6.529	Apr. 5	1200	*15500	439	*24.44	7.449
Mar. 5	1500	13500	382	23.94	7.297	Apr. 27	1500	6910	196	20.71	6.312

Minimum discharge, 0.02 ft^3/s (0.001 m^3/s) Oct. 10, 11, 13, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	.14	9.4	62	144	348	65	206	1910	4.2	52	7.8
2	1.9	.14	6.0	619	119	278	61	149	967	23	48	6.3
3	.99	.15	3.0	448	284	529	1090	125	215	23	74	5.3
4	.64	.15	488	187	1040	3970	5660	94	88	9.4	174	4.8
5	.42	.16	781	87	1010	11800	13900	92	52	6.9	150	4.2
6	.27	.18	362	39	1470	7280	7210	84	34	5.5	36	3.9
7	.27	1.3	88	258	3400	2430	2350	77	26	20	21	9.7
8	.16	2.0	33	404	4650	551	528	66	23	78	16	3.9
9	.08	.57	49	193	3620	310	671	67	23	65	12	2.6
10	.04	.24	22	116	1290	253	837	104	19	29	9.4	2.3
11	.04	.16	15	58	365	1000	561	171	16	24	10	2.5
12	.10	.14	11	207	251	1160	274	129	13	25	23	2.2
13	.04	.12	7.8	673	201	816	197	70	12	93	94	17
14	.06	.10	5.8	609	168	398	159	76	10	54	45	6.9
15	.04	.11	4.5	309	146	254	151	80	9.0	55	21	3.8
16	.04	.16	4.0	136	129	194	135	54	8.4	287	11	10
17	.04	8.1	3.4	76	116	155	102	38	7.8	249	7.8	35
18	.02	7.8	2.9	53	658	133	79	30	6.9	359	6.1	12
19	.04	1.0	2.6	39	1210	122	62	25	6.0	613	5.1	8.5
20	.06	.48	2.5	1340	868	110	51	25	5.8	501	4.1	7.1
21	.08	.27	12	3240	1720	103	45	23	5.5	414	3.4	9.9
22	.10	.16	6.3	4060	2000	105	41	20	5.2	347	24	13
23	.10	.16	3.6	600	2050	400	38	19	5.0	129	96	8.6
24	.10	.14	155	900	5490	425	47	18	26	69	500	6.8
25	.10	.12	183	350	7630	508	1110	17	26	239	210	5.4
26	.14	.12	89	300	5400	292	3540	16	15	335	88	5.3
27	.13	104	32	250	2090	167	6500	16	11	218	58	394
28	.14	17	20	220	611	121	4800	16	7.8	87	28	373
29	.12	34	14	200	---	107	1790	40	6.0	100	17	275
30	.13	45	23	180	---	87	386	95	5.0	94	12	118
31	.12	---	16	160	---	73	---	952	---	37	10	---
TOTAL	10.71	224.17	2454.8	16373	48130	34479	52440	2994	3564.4	4593.0	1865.9	1364.8
MEAN	.35	7.47	79.2	528	1719	1112	1748	96.6	119	148	60.2	45.5
MAX	4.2	104	781	4060	7630	11800	13900	952	1910	613	500	394
MIN	.02	.10	2.5	39	116	73	38	16	5.0	4.2	3.4	2.2
CFSM	.001	.03	.27	1.77	5.77	3.73	5.87	.32	.40	.50	.20	.15
IN.	.00	.03	.31	2.04	6.01	4.30	6.55	.37	.44	.57	.23	.17

CAL YR 1978 TOTAL 127343.89 MEAN 349 MAX 15000 MIN .02 CFSM 1.17 IN 15.90
WTR YR 1979 TOTAL 168493.78 MEAN 462 MAX 13900 MIN .02 CFSM 1.55 IN 21.03

02421000 CATOMA CREEK NEAR MONTGOMERY, AL--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Miscellaneous samples of chemical data published for water years 1968, 1969, and 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
03...	1315	1.0	410	--	21.0	--
NOV						
13...	1415	.50	514	7.5	18.5	8.2
14...	0815	.09	510	--	15.0	--
DEC						
19...	1400	2.5	377	--	11.0	--
FEB						
01...	1100	144	282	--	5.0	--
MAR						
13...	0800	861	120	--	15.0	--
APR						
11...	1300	452	179	7.3	18.0	9.4
MAY						
18...	0815	31	225	--	22.0	--
JUL						
10...	1545	26	200	--	26.0	--
AUG						
13...	1135	10	190	--	24.0	--

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
NOV											
13...	210	72	81	2.2	18	15	.5	5.5	170	0	139
APR											
11...	81	--	30	1.5	4.0	9	.2	1.9	--	--	--

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)
NOV											
13...	8.6	56	40	.1	2.2	290	.39	.39	.00	.00	2
APR											
11...	--	11	5.0	.1	7.2	--	--	--	.85	3.8	1

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV											
13...	80	1	1	3	290	5	140	<.2	ND	410	10
APR											
11...	120	1	ND	4	460	3	7	.2	ND	160	50

MOBILE RIVER MAIN STEM

02421351 ALABAMA RIVER BELOW JONES BLUFF LOCK AND DAM, NEAR BENTON, AL

LOCATION.--Lat 32°19'15", long 86°47'08", in NW¼ sec. 32, T. 16 N., R. 13 E., Lowndes County, Hydrologic Unit 03150201, at downstream end of Jones Bluff lock and dam, 2 mi (3 km) upstream from Big Swamp Creek, 2.5 mi (4.0 km) northeast of Benton, 5 mi (8 km) downstream from Ivy Creek, and at mile 245.4 (394.8 km).

DRAINAGE AREA.--16,300 mi^2 (42,217 km^2).

PERIOD OF RECORD.--January 1972 to current year (elevations only).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum elevation, 133.0 ft (40.54 m) Apr. 18, 1979; minimum, 78.0 ft (23.77 m) Nov. 7, 1978.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum elevation, 133.0 ft (40.54 m) Apr. 18; minimum, 78.0 ft (23.77 m) Nov. 7.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80.60	79.00	79.90	80.70	91.40	106.30	87.80	110.60	101.20	79.90	81.00	81.20
2	80.70	78.90	80.00	88.70	90.30	102.50	88.00	103.90	105.20	80.10	81.60	80.30
3	80.40	78.80	79.90	93.30	88.90	99.30	93.00	98.10	100.60	79.90	82.10	80.00
4	80.20	79.00	79.90	95.70	88.70	107.70	113.30	92.20	96.60	80.30	81.30	80.20
5	80.10	78.80	83.10	93.70	88.40	123.20	125.50	93.40	97.00	80.50	80.80	80.60
6	80.10	78.30	88.00	91.70	88.20	127.80	125.20	93.20	95.30	80.40	80.20	82.40
7	80.50	78.00	88.10	90.60	96.10	128.80	125.10	92.50	91.70	80.60	80.80	80.90
8	80.40	78.30	79.90	90.30	96.90	127.70	122.30	92.70	91.60	80.90	81.20	80.70
9	80.20	78.10	80.20	93.30	99.40	125.80	118.20	86.70	91.70	80.50	80.70	81.10
10	79.90	78.60	87.90	93.90	97.60	122.90	112.80	91.50	81.90	80.40	80.60	79.90
11	79.90	78.90	83.50	94.00	94.90	119.30	108.40	91.70	81.30	80.40	80.50	79.80
12	80.20	79.00	79.90	93.50	91.90	115.70	104.10	92.20	80.70	84.20	80.50	80.10
13	80.00	78.40	81.10	89.50	88.80	113.00	105.50	91.00	81.30	81.80	80.40	80.30
14	80.50	78.50	79.80	91.10	88.30	110.50	119.80	92.30	80.80	81.60	80.80	81.30
15	80.00	78.80	80.00	88.40	89.70	108.10	127.90	89.30	80.40	80.60	80.50	81.20
16	80.10	79.10	80.10	87.90	88.80	106.10	131.00	90.60	80.60	79.70	80.30	80.10
17	79.40	79.30	80.00	88.70	88.60	103.50	132.80	89.50	80.40	78.70	80.30	80.00
18	79.40	80.00	79.70	88.50	89.20	100.90	133.00	90.70	80.40	80.40	80.20	80.30
19	79.70	79.50	79.90	84.60	88.40	98.40	131.80	85.80	80.10	80.80	80.50	80.20
20	79.90	79.20	80.10	86.30	87.50	96.50	129.30	81.20	80.10	83.50	84.20	80.80
21	79.80	79.30	80.20	96.10	93.30	95.60	125.40	80.50	80.40	81.40	80.90	81.10
22	79.70	79.80	80.10	106.10	95.10	94.70	118.30	80.80	80.60	80.90	81.10	80.30
23	79.30	80.40	80.30	106.10	96.10	97.10	112.30	81.20	80.40	80.50	80.30	80.00
24	78.90	80.20	81.50	104.10	102.20	98.60	107.50	86.10	80.50	91.40	80.20	78.90
25	79.00	80.20	80.30	103.60	108.90	98.10	103.00	80.90	80.90	92.50	80.40	79.80
26	79.10	80.30	80.50	102.10	112.30	95.10	106.60	81.30	80.30	92.10	80.70	79.80
27	79.10	80.20	83.90	99.60	113.70	91.90	114.10	80.60	81.40	96.40	82.40	80.00
28	79.10	79.90	83.50	98.10	111.20	91.80	116.90	80.60	80.40	96.10	80.40	97.20
29	79.20	80.60	87.80	97.60	---	92.90	117.60	80.40	80.50	84.80	81.60	107.40
30	79.70	80.00	87.90	93.00	---	92.30	115.60	81.30	80.40	84.20	80.80	105.80
31	79.80	---	83.50	91.60	---	92.40	---	82.30	---	80.70	81.10	---
MEAN	79.84	79.25	81.95	93.63	94.81	105.95	115.74	88.55	85.49	83.10	80.92	82.72
MAX	80.70	80.60	88.10	106.10	113.70	128.80	133.00	110.60	105.20	96.40	84.20	107.40
MIN	78.90	78.00	79.70	80.70	87.50	91.80	87.80	80.40	80.10	78.70	80.20	78.90

CAL YR 1978 MEAN 85.37 MAX 121.30 MIN 78.00
WTR YR 1979 MEAN 89.27 MAX 133.00 MIN 78.00

02422000 BIG SWAMP CREEK NEAR LOWNDESBORO, AL

LOCATION.--Lat 32°16'00", long 86°41'40", in NE¼ sec. 19, T. 15 N., R. 14 E., Lowndes County, Hydrologic Unit 03150201, on right bank at upstream side of bridge on U.S. Highway 80, 1 mi (1.6 km) downstream from Panther Creek, 5 mi (8 km) west of Lowndesboro, and 12 mi (19 km) upstream from mouth.

DRAINAGE AREA.--247 mi^2 (640 km^2).

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

REMARKS.--Miscellaneous samples of chemical data published for water years 1968, 1969, and 1970.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV 14...	0815	.70	236	7.0	15.0	4.8	96	0	33	3.3

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV 14...	4.5	9	.2	3.5	120	0	98	19	.5	14

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)
NOV 14...	.1	1.7	120	.16	.23	.00	.00	<1	60	<1

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 14...	2	2	130	11	80	<.2	ND	210	10

02422500 MULBERRY CREEK AT JONES, AL

LOCATION.--Lat 32°34'58", long 86°54'13", in E½ sec. 31, T. 19 N., R. 12 E., Dallas County, Hydrologic Unit 03150201, on right bank 70 ft (21 m) downstream from highway bridge, 0.4 mi (0.6 km) west of Jones, 6 mi (10 km) upstream from Buck Creek, and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--208 mi^2 (539 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to September 1970, October 1974 to current year. (October 1970 to September 1974 flood hydrograph only.) Prior to October 1959, published as Mulberry "River" at Jones.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 165.23 ft (50.362 m) National Geodetic Vertical Datum of 1929. Prior to June 2, 1939, nonrecording gage at site 50 ft (15 m) upstream at same datum.

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--37 years (water years 1939-70, 1975-79), 320 ft^3/s (9.062 m^3/s), 20.89 in/yr (531 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,800 ft^3/s (929 m^3/s) Aug. 16, 1939, gage height, 30.38 ft (9.260 m); minimum daily discharge, 27 ft^3/s (0.76 m^3/s) Oct. 6, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 33.6 ft (10.24 m) in April 1938, from information by local residents, discharge, 48,000 ft^3/s (1,360 m^3/s), from rating curve extended above 30,000 ft^3/s (850 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base, 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1800	17,400	493	22.37	6.818	Apr. 14	0500	*21,800	617	*25.26	7.699
Apr. 4	0800	6,020	170	11.77	3.587						

Minimum daily discharge, 53 ft^3/s (1.50 m^3/s) Oct. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	57	122	222	214	413	246	464	553	113	144	86
2	65	57	94	1040	197	373	348	423	322	101	129	103
3	61	57	86	385	253	1410	5130	401	263	98	142	123
4	59	58	204	214	515	15100	5290	405	248	95	129	108
5	58	59	267	182	331	4010	2200	475	224	92	117	95
6	57	59	147	176	487	1220	1120	394	204	115	108	85
7	56	64	109	572	1230	900	890	357	197	352	103	80
8	55	69	101	652	634	790	935	360	188	218	141	78
9	55	70	218	294	433	682	1490	346	169	175	116	75
10	56	68	269	219	329	618	950	322	158	170	104	73
11	56	68	135	196	290	670	778	315	162	190	130	71
12	56	66	112	186	265	550	1550	315	151	448	182	69
13	56	66	103	185	249	486	13100	341	134	200	151	89
14	54	65	99	178	231	453	12500	326	129	142	112	109
15	54	65	97	158	221	417	1830	268	123	121	102	99
16	55	65	102	152	206	387	1200	235	122	109	97	83
17	56	74	120	150	189	375	950	216	119	99	95	90
18	56	107	111	158	488	363	810	204	119	134	96	110
19	56	94	100	154	567	348	722	231	114	154	98	138
20	56	77	99	1160	353	333	654	458	109	201	93	115
21	56	73	129	1620	582	321	598	271	106	190	93	157
22	56	72	147	619	436	312	590	212	103	151	104	167
23	56	71	115	457	400	858	652	208	145	128	103	116
24	56	71	138	943	1510	726	639	270	255	119	102	100
25	56	71	182	522	1210	441	1220	266	226	339	99	96
26	58	72	136	401	734	363	2670	200	178	713	100	94
27	58	88	116	436	516	324	1200	181	147	439	105	482
28	57	102	108	378	436	297	736	193	130	232	96	1330
29	57	111	105	285	---	276	590	217	117	184	90	475
30	56	155	144	255	---	258	520	260	125	230	90	251
31	56	---	191	250	---	252	---	663	---	180	86	---
TOTAL	1771	2251	4206	12799	13506	34326	62108	9797	5340	6232	3457	5147
MEAN	57.1	75.0	136	413	482	1107	2070	316	178	201	112	172
MAX	72	155	269	1620	1510	15100	13100	663	553	713	182	1330
MIN	54	57	86	150	189	252	246	181	103	92	86	69
CFSM	.28	.36	.65	1.99	2.32	5.32	9.95	1.52	.86	.97	.54	.83
IN.	.32	.40	.75	2.29	2.42	6.14	11.11	1.75	.96	1.11	.62	.92

CAL YR 1978 TOTAL 88979 MEAN 244 MAX 2630 MIN 53 CFSM 1.17 IN 15.91
WTR YR 1979 TOTAL 160940 MEAN 441 MAX 15100 MIN 54 CFSM 2.12 IN 28.78

02422500 MULBERRY CREEK AT JONES, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-1970, October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966-69, 1972, 1975.

COOPERATION.--Chemical-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT										
10...	1345	55	32	6.7	19.5	9.9	10	0	2.1	1.1
NOV										
24...	1230	71	--	7.1	20.0	9.3	9	0	1.8	1.1
JAN										
12...	1015	186	41	6.8	6.5	12.8	12	2	2.8	1.1
FEB										
20...	1345	326	--	--	9.0	11.8	10	--	2.2	1.1
APR										
02...	1400	242	--	7.1	20.5	4.6	11	6	2.7	1.0
MAY										
10...	1300	320	--	6.3	22.0	8.7	10	3	2.5	1.0
JUN										
18...	1300	120	42	7.3	27.0	6.8	--	--	--	--
JUL										
31...	1428	167	33	--	30.5	--	--	--	--	--
SEP										
05...	1300	95	38	7.3	28.0	7.5	13	0	2.9	1.4

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
10...	2.0	28	.3	1.0	12	0	10	3.8	2.4	2.6
NOV										
24...	1.6	25	.2	1.3	14	0	11	1.8	2.1	1.1
JAN										
12...	2.1	26	.3	1.1	12	0	10	3.0	3.4	3.2
FEB										
20...	2.2	30	.3	1.1	--	--	--	--	3.8	2.8
APR										
02...	1.5	22	.2	.5	6	0	5	.8	3.8	2.2
MAY										
10...	1.8	25	.2	1.1	9	0	7	7.2	1.4	2.0
JUN										
18...	--	--	--	--	16	0	13	1.3	--	--
JUL										
31...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	1.8	21	.2	1.2	16	0	13	1.3	.6	2.3

02422500 MULBERRY CREEK AT JONES, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
OCT										
10...	.1	10	28	.04	4.20	.14	.60	<1	40	ND
NOV										
24...	.0	11	28	.04	5.37	.09	.40	ND	<50	<1
JAN										
12...	.0	12	33	.04	16.6	.25	1.1	<1	<50	<1
FEB										
20...	.0	9.3	--	--	--	.29	1.3	ND	170	1
APR										
02...	.0	11	26	.04	17.0	.14	.60	ND	<100	<1
MAY										
10...	.0	9.5	25	.03	21.6	.29	1.3	1	70	ND
JUN										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
31...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	.1	12	31	.04	7.95	.19	.84	<1	<50	1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
OCT									
10...	2	1	130	1	20	.2	ND	50	10
NOV									
24...	1	6	320	2	12	--	ND	40	30
JAN									
12...	ND	2	240	<1	<5	<.2	--	40	ND
FEB									
20...	ND	4	210	1	<5	ND	ND	40	10
APR									
02...	ND	5	110	ND	<5	ND	ND	20	0
MAY									
10...	1	3	--	3	41	.2	ND	40	70
JUN									
18...	--	--	--	--	--	--	--	--	--
JUL									
31...	--	--	--	--	--	--	--	--	--
SEP									
05...	ND	2	160	1	<5	<.2	ND	40	10

MOBILE RIVER MAIN STEM

02423000 ALABAMA RIVER AT SELMA, AL

LOCATION.--Lat 32°24'20", long 87°01'07", in SE¼ sec. 36, T. 17 N., R. 10 E., Dallas County, Hydrologic Unit 03150201, in first pier from right bank of Edmund Pettus Bridge on U.S. Highway 80, in Selma, 1 mi (2 km) upstream from Valley Creek, and at mile 214.8 (345.6 km).

DRAINAGE AREA.--17,100 mi² (44,300 km²), approximately.

WATER-STAGE RECORDS

PERIOD OF RECORD.--January to December 1899 (gage heights only), January 1900 to December 1913, and June 1928 to September 1970. October 1971 to current year (gage heights only). Gage-height records December 1890 to December 1971 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 662: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 61.80 ft (18.837 m) National Geodetic Vertical Datum of 1929. Prior to June 22, 1928, nonrecording gage, June 22, 1928, to Apr. 11, 1938, water-stage recorder, and Apr. 12, 1938, to May 22, 1940, nonrecording gage all at site 300 ft (91.4 m) upstream at same datum.

REMARKS.--Records good except those for periods of no gage-height record Jan. 29 to Feb. 1 and May 10 to July 11. Flow affected by operation of reservoirs on Etowah, Coosa, Tallapoosa, and Alabama Rivers. (See Reservoirs in Mobile River basin.) Stage affected by Millers Ferry lock and dam since November 1968.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 57.97 ft (17.669 m) Mar. 1, 1961; minimum gage height, -2.20 ft (0.670 m) Nov. 1, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1886, reached a stage of 57.0 ft (17.37 m) present site and datum, from floodmarks established by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 54.89 ft (16.730 m) Apr. 18; minimum, 16.67 ft (5.081 m) Nov. 6.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.84	17.52	19.07	19.66	21.94	---	20.64	36.02	28.14	18.49	19.56	19.73
2	18.96	17.46	18.58	21.00	21.79	---	20.89	30.59	31.02	18.58	19.88	18.93
3	18.72	17.48	18.13	23.12	21.35	---	27.75	26.02	27.58	19.11	20.01	18.82
4	18.76	17.32	18.05	24.14	21.42	---	39.75	22.60	24.88	19.20	19.71	19.36
5	18.82	16.97	19.52	22.89	21.13	---	45.71	22.74	24.61	19.14	19.26	19.58
6	18.89	16.67	20.13	21.86	21.34	---	48.02	23.15	23.38	19.46	19.23	20.18
7	18.83	16.71	20.02	21.84	25.09	---	47.97	22.74	22.24	19.44	19.49	19.71
8	18.60	16.68	19.07	22.12	26.03	---	46.09	22.45	21.91	19.38	19.58	19.47
9	18.55	17.02	18.82	23.02	26.70	49.03	42.86	21.46	22.10	19.44	19.59	19.23
10	18.48	17.49	19.42	23.20	25.84	46.93	38.69	22.08	20.40	19.59	19.49	18.78
11	18.54	17.56	19.15	23.08	24.02	43.58	34.51	22.43	19.80	19.68	19.46	18.57
12	18.66	17.20	18.88	22.39	22.56	40.23	30.71	22.67	19.36	20.42	18.90	18.73
13	18.79	17.07	18.88	21.27	21.19	37.57	35.12	22.05	19.63	19.97	19.03	19.17
14	18.71	17.42	18.75	21.38	21.10	35.41	44.34	22.70	19.41	19.49	19.59	19.60
15	18.40	17.70	19.10	20.41	21.40	33.63	49.54	22.28	19.38	18.94	19.19	19.30
16	18.41	18.00	19.08	19.69	21.21	32.06	52.80	22.14	19.29	18.93	19.08	18.62
17	18.38	18.27	18.74	19.80	21.02	29.76	54.46	21.57	18.91	19.17	19.16	18.69
18	18.34	18.18	18.91	20.11	21.04	27.74	54.89	22.11	18.75	19.64	18.57	19.07
19	18.40	17.97	18.82	19.68	21.22	26.11	54.28	21.17	18.91	20.03	18.20	19.42
20	18.40	17.85	18.97	20.27	21.19	25.10	52.49	19.24	19.48	20.01	19.33	19.94
21	18.24	18.28	19.20	25.97	23.33	24.34	49.18	19.22	19.82	19.65	19.83	19.57
22	17.88	18.80	19.28	31.20	24.24	24.06	41.91	19.63	19.48	19.23	19.49	19.05
23	17.64	18.79	19.30	31.84	24.85	25.41	38.05	20.12	19.26	19.60	19.27	18.66
24	17.56	18.82	19.39	30.84	29.47	26.89	33.71	20.68	19.19	21.44	19.11	18.56
25	17.70	18.87	19.23	30.19	34.20	26.03	30.73	20.05	19.24	22.36	18.79	18.52
26	17.64	18.65	19.14	29.00	36.90	23.90	33.05	19.68	19.81	23.16	18.63	18.61
27	17.71	18.72	19.83	27.20	37.90	22.70	38.10	19.74	19.67	25.02	19.14	19.01
28	17.72	18.79	19.69	26.00	---	22.20	40.73	19.53	19.53	24.71	19.55	25.38
29	17.68	19.11	20.09	25.26	---	22.76	41.51	19.79	19.74	20.88	19.67	31.88
30	17.54	19.21	20.41	22.89	---	22.72	40.16	20.54	19.11	20.04	19.62	30.87
31	17.53	---	19.34	22.15	---	22.05	---	21.05	---	19.47	19.72	---
MEAN	18.30	17.89	19.19	23.66	---	---	40.95	22.20	21.13	20.12	19.33	20.17
MAX	18.96	19.21	20.41	31.84	---	---	54.89	36.02	31.02	25.02	20.01	31.88
MIN	17.53	16.67	18.05	19.66	---	---	20.64	19.22	18.75	18.49	18.20	18.52

MOBILE RIVER MAIN STEM

02423000 ALABAMA RIVER AT SELMA, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1955 to November 1956, June 1962 to September 1973, April 1975 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1955 to November 1956, June 1962 to September 1972, April 1975 to current year. June to September 1962 unpublished.

INSTRUMENTATION.--Temperature recorder June 1962 to September 1972, April 1975 to current year.

REMARKS.--No temperature data for Apr. 16-30, May 8-July 29 due to recorder malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1962-71, 1976-79), 31.5°C on several days in July and August 1977, and July 8, 1978; minimum (water years 1962-71, 1976-79), 3.5°C Feb. 10-11, 1979.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.5°C Aug. 15, 19; minimum 3.5°C Feb. 10, 11.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

02423000 ALABAMA RIVER AT SELMA, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.0	4.0	4.0	8.0	7.5	8.0	16.5	16.0	16.5	20.0	20.0	20.0
2	4.5	4.0	4.0	8.0	8.0	8.0	16.5	16.5	16.5	20.0	20.0	20.0
3	4.5	4.0	4.5	9.0	8.0	8.5	16.5	16.0	16.5	20.0	20.0	20.0
4	4.5	4.5	4.5	10.0	9.0	9.5	17.0	16.0	16.5	20.0	20.0	20.0
5	4.5	4.5	4.5	10.0	9.5	9.5	17.5	17.0	17.0	20.0	20.0	20.0
6	4.5	4.0	4.5	10.5	9.5	10.0	17.5	17.5	17.5	20.0	20.0	20.0
7	4.5	4.0	4.5	11.0	10.5	10.5	17.5	17.5	17.5	20.0	20.0	20.0
8	4.5	4.0	4.5	11.0	11.0	11.0	17.5	17.0	17.0	---	---	---
9	4.0	4.0	4.0	11.0	10.5	11.0	17.5	17.0	17.0	---	---	---
10	4.0	3.5	4.0	11.0	11.0	11.0	17.5	17.0	17.0	---	---	---
11	4.0	3.5	4.0	11.0	10.5	10.5	17.5	17.0	17.5	---	---	---
12	4.5	4.0	4.0	10.5	10.0	10.5	17.5	17.5	17.5	---	---	---
13	5.0	4.5	4.5	10.5	10.5	10.5	17.5	17.5	17.5	---	---	---
14	5.0	4.5	5.0	10.5	10.5	10.5	17.5	17.5	17.5	---	---	---
15	6.0	5.0	5.5	11.0	10.5	10.5	---	---	---	---	---	---
16	6.0	5.5	6.0	11.0	10.5	10.5	---	---	---	---	---	---
17	6.0	5.5	6.0	11.0	10.5	11.0	---	---	---	---	---	---
18	6.0	6.0	6.0	11.5	10.5	11.0	---	---	---	---	---	---
19	6.0	5.5	6.0	11.5	11.0	11.5	---	---	---	---	---	---
20	6.0	6.0	6.0	12.0	11.5	11.5	---	---	---	---	---	---
21	6.0	6.0	6.0	12.5	12.0	12.0	---	---	---	---	---	---
22	6.0	6.0	6.0	12.5	12.0	12.5	---	---	---	---	---	---
23	6.5	6.0	6.0	13.0	12.5	12.5	---	---	---	---	---	---
24	7.5	6.5	7.0	12.5	12.5	12.5	---	---	---	---	---	---
25	8.5	7.5	8.0	12.0	12.0	12.0	---	---	---	---	---	---
26	8.5	8.0	8.5	15.0	11.5	13.0	---	---	---	---	---	---
27	8.5	8.0	8.0	15.0	14.5	14.5	---	---	---	---	---	---
28	8.0	7.5	7.5	15.5	14.5	15.0	---	---	---	---	---	---
29	---	---	---	15.5	15.0	15.5	---	---	---	---	---	---
30	---	---	---	16.0	15.5	15.5	---	---	---	---	---	---
31	---	---	---	16.0	15.5	15.5	---	---	---	---	---	---
MONTH	8.5	3.5	5.5	16.0	7.5	11.5	17.5	16.0	17.0	20.0	20.0	20.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1				---	---	---	28.5	28.0	28.5	29.5	28.5	28.5
2				---	---	---	29.0	28.5	28.5	30.0	28.5	28.5
3				---	---	---	29.0	28.5	28.5	30.0	28.0	28.5
4				---	---	---	29.5	29.0	29.0	29.0	28.0	28.5
5				---	---	---	30.0	29.0	29.5	29.0	28.5	28.5
6				---	---	---	30.0	29.5	29.5	28.5	28.5	28.5
7				---	---	---	30.0	30.0	30.0	28.5	28.0	28.5
8				---	---	---	30.0	29.5	30.0	28.5	28.0	28.5
9				---	---	---	30.0	29.0	29.5	28.5	27.5	28.0
10				---	---	---	30.0	29.5	30.0	28.0	27.0	27.5
11				---	---	---	29.5	29.0	29.5	28.0	27.0	27.5
12				---	---	---	29.0	28.5	28.5	27.5	26.5	27.0
13				---	---	---	29.0	28.5	28.5	26.5	26.0	26.0
14				---	---	---	29.5	28.5	29.0	26.5	26.0	26.5
15				---	---	---	30.5	28.5	29.0	26.5	26.0	26.0
16				---	---	---	29.0	28.5	28.5	26.0	25.5	26.0
17				---	---	---	28.5	28.0	28.5	25.5	24.0	25.5
18				---	---	---	29.5	28.0	28.0	24.5	24.0	24.5
19				---	---	---	30.5	28.0	28.5	25.5	25.0	25.0
20				---	---	---	29.0	28.5	28.5	25.5	25.5	25.5
21				---	---	---	28.5	28.0	28.5	25.5	25.5	25.5
22				---	---	---	28.5	28.0	28.0	25.5	24.0	25.5
23				---	---	---	29.5	28.0	28.5	24.0	23.5	24.0
24				---	---	---	28.5	28.0	28.0	24.0	23.5	23.5
25				---	---	---	28.5	28.0	28.0	23.5	23.5	23.5
26				---	---	---	29.0	28.0	28.0	23.5	23.0	23.0
27				---	---	---	30.0	27.5	28.0	23.0	22.5	23.0
28				---	---	---	29.0	28.0	28.5	23.0	22.5	23.0
29				---	---	---	29.0	28.5	28.5	23.5	22.5	23.0
30				28.0	27.5	28.0	29.0	28.5	28.5	23.5	23.5	23.5
31				28.5	28.0	28.5	29.0	28.5	28.5	---	---	---
MONTH				28.5	27.5	28.5	30.5	27.5	28.5	30.0	22.5	26.0

02423425 CAHABA RIVER NEAR CAHABA HEIGHTS, AL

LOCATION.--Lat 33°24'56", long 86°44'23", in NW¼ sec. 3, T. 19 S., R. 2 W., Shelby County, Hydrologic Unit 03150202, on left bank 700 ft (213 m) upstream from bridge on county road, 2.5 mi (4.0 km) upstream from Little Shades Creek, 3.0 mi (4.8 km) south of Cahaba Heights, 3.4 mi (5.5 km) downstream from Little Cahaba River, and at mile 144.9 (233.1 km).

DRAINAGE AREA.--201 mi^2 (521 km^2).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 410 ft (125 m), from topographic map.

REMARKS.--Records good except those for October and November, which are poor. An average of 82 ft^3/s (2.32 m^3/s) is diverted above station by Birmingham Water Works Co., and is not included in records except about 7 ft^3/s (0.20 m^3/s) which is returned to river above station. Flow partly regulated by Purdy Lake (capacity 15,300 acre-ft or 18.9 hm^3) on Little Cahaba River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,400 ft^3/s (663 m^3/s) Apr. 13, 1979, gage height 28.86 ft (8.797 m); minimum, 0.10 ft^3/s (0.003 m^3/s) Oct. 26 to Nov. 26, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1515	13,400	379	21.92	6.681	Apr. 13	2100	*23,400	663	*28.86	8.797

Minimum daily discharge, 0.10 ft^3/s (0.003 m^3/s) Oct. 26 to Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	.10	1.0	202	156	879	200	470	502	2.8	157	131
2	2.3	.10	.82	798	150	790	250	379	338	3.8	141	179
3	2.4	.10	.46	394	155	1690	2670	351	236	3.6	84	311
4	2.7	.10	1.4	203	158	11600	2700	370	211	3.2	33	684
5	2.5	.10	4.9	132	148	3890	1700	400	167	4.1	37	368
6	2.4	.10	1.4	115	157	1390	997	317	144	7.1	12	279
7	2.5	.20	1.1	596	437	1430	648	240	130	6.4	7.7	239
8	2.7	.16	1.3	997	510	976	529	211	92	6.9	7.8	220
9	2.4	.16	168	512	358	607	529	184	66	6.4	7.7	142
10	1.7	.15	159	309	278	360	509	166	42	7.2	7.2	22
11	1.5	.13	30	213	280	380	392	154	55	79	518	13
12	1.5	.12	7.7	152	255	340	3520	265	19	66	705	12
13	1.4	.12	5.6	122	220	306	19300	655	12	36	310	74
14	1.2	10	4.0	103	225	254	12700	429	15	59	236	95
15	1.0	15	3.1	51	200	244	2260	322	12	13	207	73
16	.85	10	3.0	30	185	210	1600	200	9.1	8.8	205	37
17	.73	.24	3.4	22	162	200	1000	131	7.5	6.4	186	367
18	.55	.30	3.8	22	300	190	640	105	6.5	20	188	700
19	.57	.24	4.6	19	504	182	450	94	5.0	63	179	450
20	.59	.24	4.3	1140	400	175	360	107	3.8	50	57	350
21	.37	.24	6.6	2710	363	170	310	87	3.5	69	43	300
22	.22	.25	5.8	1180	370	174	290	58	4.3	79	41	250
23	.17	.28	7.0	684	290	300	264	66	9.9	66	15	200
24	.16	.20	81	909	2400	375	255	69	7.0	61	21	180
25	.14	.16	253	666	2690	315	450	59	6.3	171	51	150
26	.10	.17	113	478	1900	270	2880	39	4.9	636	51	150
27	.10	.45	44	384	1000	230	2910	27	3.4	330	41	1000
28	.10	.44	16	297	800	202	1480	36	3.2	236	28	2000
29	.10	.86	5.7	230	---	185	912	142	3.2	251	62	1700
30	.10	.97	5.7	171	---	173	648	220	3.5	222	48	1500
31	.10	---	8.8	165	---	180	---	499	---	179	89	---
TOTAL	35.35	41.68	955.48	14006	15051	28667	63353	6852	2122.1	2752.7	3775.4	12176
MEAN	1.14	1.39	30.8	452	538	925	2112	221	70.7	88.8	122	406
MAX	2.7	15	253	2710	2690	11600	19300	655	502	636	705	2000
MIN	.10	.10	.46	19	148	170	200	27	3.2	2.8	7.2	12
CFSM	.006	.007	.15	2.25	2.68	4.60	10.5	1.10	.35	.44	.61	2.02
IN.	.01	.01	.18	2.59	2.79	5.31	11.72	1.27	.39	.51	.70	2.25

CAL YR 1978 TOTAL 68426.77 MEAN 187 MAX 2780 MIN .10 CFSM .93 IN 12.66
WTR YR 1979 TOTAL 149787.71 MEAN 410 MAX 19300 MIN .10 CFSM 2.04 IN 27.72

02423630 SHADES CREEK NEAR GREENWOOD, AL

LOCATION.--Lat 33°19'34", long 86°56'59", in W½ sec. 3, T. 20 S., R. 4 W., Jefferson County, Hydrologic Unit 03150202, near left bank on downstream side of bridge on county road, 1.4 mi (2.3 km) southwest of Greenwood, 5.5 mi (8.8 km) south of Bessemer, and at mile 20.8 (33.5 km).

DRAINAGE AREA.--72.4 mi^2 (187.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1965, October 1966 to September 1973, October 1974 to current year (October 1965 to September 1966, annual maximum and October 1973 to September 1974, low-flow and flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 480.37 ft (146.417 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--13 years (water years 1965, 1967-73, 1975-79), 147 ft^3/s (4.163 m^3/s), 27.57 in/yr (700 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,900 ft^3/s (309 m^3/s) Apr. 13, 1979, gage height 13.19 ft (4.020 m); minimum, 11 ft^3/s (0.31 m^3/s) Sept. 16, 1964.

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

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1100	5750	163	12.44	3.792	Apr. 13	1100	*10900	309	*13.19	4.020

Minimum daily discharge, 12 ft^3/s (0.3 m^3/s) Oct. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTORER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	32	175	85	227	125	123	245	19	27	53
2	16	13	21	650	76	166	100	101	104	18	44	34
3	16	14	19	179	74	647	1030	99	73	35	28	63
4	15	14	25	103	79	4490	1120	102	72	27	23	951
5	15	14	60	78	66	1270	587	165	57	20	28	278
6	14	14	40	75	93	400	295	89	47	20	23	108
7	15	14	25	584	441	302	214	73	47	30	21	172
8	14	35	20	593	246	248	211	66	40	26	21	124
9	14	18	150	196	169	200	296	61	35	26	20	78
10	14	15	50	131	129	174	170	57	38	140	73	62
11	14	14	44	103	111	181	142	55	30	193	232	53
12	14	16	36	86	97	143	1410	222	31	177	442	46
13	14	14	29	79	88	129	8510	496	27	45	57	317
14	15	13	26	71	80	123	3780	181	26	170	38	1810
15	16	14	23	60	74	119	656	109	25	45	30	619
16	14	14	24	53	67	102	332	83	24	39	27	197
17	14	15	30	50	61	96	241	68	23	27	25	127
18	14	43	24	50	272	92	176	59	22	24	23	96
19	14	19	22	53	240	86	134	60	22	55	21	77
20	14	16	22	691	154	83	113	66	22	32	20	319
21	14	15	68	1560	201	89	99	51	26	47	19	638
22	14	15	62	702	147	85	92	44	25	38	18	164
23	14	15	35	323	135	213	111	41	37	29	17	109
24	13	16	124	736	1390	188	94	52	63	26	16	82
25	14	15	203	343	1460	116	233	48	25	43	25	68
26	14	15	69	230	486	99	859	37	22	151	35	60
27	14	24	50	187	270	90	1030	34	21	58	28	57
28	13	37	40	149	200	84	368	34	20	38	22	600
29	13	48	35	114	---	79	212	116	20	101	22	500
30	12	137	51	100	---	76	155	116	20	38	48	400
31	12	---	85	104	---	78	---	438	---	30	264	---
TOTAL	439	679	1544	8608	6991	10475	22895	3348	1289	1767	1737	8262
MEAN	14.2	22.6	49.8	278	250	338	763	108	43.0	57.0	56.0	275
MAX	16	137	203	1560	1460	4490	8510	496	245	193	442	1810
MIN	12	13	19	50	61	76	92	34	20	18	16	34
CFSM	.20	.31	.69	3.85	3.46	4.68	10.6	1.49	.60	.79	.78	3.80
IN.	.23	.35	.79	4.43	3.60	5.39	11.78	1.72	.66	.91	.89	4.25

CAL YR 1978 TOTAL 36904 MEAN 101 MAX 1830 MIN 12 CFSM 1.40 IN 18.99
WTR YR 1979 TOTAL 68034 MEAN 186 MAX 8510 MIN 12 CFSM 2.57 IN 35.00

02423630 SHADES CREEK NEAR GREENWOOD, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to current year.
WATER TEMPERATURES: October 1969 to October 1979 (discontinued).

INSTRUMENTATION.--Temperature recorder since October 1969.

REMARKS.--Miscellaneous samples of chemical data published for water year 1967, and 1969. No temperature data for Oct. 1-2, 14-24, Dec. 12-Jan. 16, Mar. 6, June 28-Sept. 30 due to recorder malfunctions.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama, and the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 28.5°C July 25, 1972; minimum, 1.0°C Jan. 19-20, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.0°C June 9, 10; minimum, 3.0°C Feb. 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
31...	1250	12	520	7.3	16.5	3.5	130	0	40	6.9	55	46
MAR												
06...	1410	365	140	6.7	10.0	9.4	56	20	17	3.2	5.7	18
JUN												
14...	1300	29	300	6.9	22.0	--	--	--	--	--	--	--
AUG												
28...	1015	24	305	7.3	24.5	--	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
31...	2.1	9.2	210	0	172	17	46	29	.1	10	315
MAR											
06...	.3	1.8	44	0	36	14	25	4.2	.1	7.2	89
JUN											
14...	--	--	114	0	94	23	27	--	--	--	--
AUG											
28...	--	--	110	0	90	8.8	28	--	--	--	--

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
OCT											
31...	.43	11.0	3.4	15	9	--	100	<1	--	ND	--
MAR											
06...	.12	87.7	.56	2.5	1	--	420	ND	--	ND	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
AUG											
28...	--	--	--	--	--	0	--	--	<10	--	30

02423630 SHADES CREEK NEAR GREENWOOD, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)
OCT											
31...	--	2	--	--	--	380	--	2	--	--	--
MAR											
06...	--	6	--	--	--	420	--	4	--	--	--
JUN											
14...	--	--	--	840	700	140	--	--	--	270	10
AUG											
28...	<10	--	<10	710	580	130	11000	--	10	220	20

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT											
31...	110	--	.6	--	ND	--	130	30	--	--	--
MAR											
06...	13	--	.2	--	ND	--	20	10	--	--	--
JUN											
14...	260	--	--	--	--	--	--	--	--	28	2.2
AUG											
28...	200	410	--	.00	--	0	--	--	30	18	1.2

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	16.0	12.5	14.0	13.5	11.0	12.0	---	---	---
2	---	---	---	15.5	12.0	13.5	13.0	10.0	12.0	---	---	---
3	16.5	16.5	16.5	15.0	11.0	13.0	18.5	12.5	15.5	---	---	---
4	16.5	16.5	16.5	14.0	10.5	12.0	22.0	17.5	19.5	---	---	---
5	17.0	15.5	17.0	13.0	9.5	11.5	20.5	14.0	17.0	---	---	---
6	16.0	13.0	14.5	13.5	9.5	12.0	14.0	11.5	13.0	---	---	---
7	14.5	11.5	13.0	14.0	11.5	13.0	16.5	12.0	14.0	---	---	---
8	13.5	10.0	12.0	12.5	10.0	11.5	22.0	17.0	20.0	---	---	---
9	15.0	11.0	13.5	12.0	9.0	10.5	23.5	14.0	19.0	---	---	---
10	17.5	13.5	15.5	13.0	8.5	11.0	14.0	8.0	10.5	---	---	---
11	19.0	15.0	17.5	13.5	9.0	11.5	8.5	7.0	7.5	---	---	---
12	19.5	17.5	19.0	14.5	10.0	12.5	---	---	---	---	---	---
13	19.5	15.5	18.0	15.0	11.5	13.5	---	---	---	---	---	---
14	---	---	---	16.5	13.0	15.0	---	---	---	---	---	---
15	---	---	---	18.5	14.5	17.0	---	---	---	---	---	---
16	---	---	---	21.0	18.0	19.5	---	---	---	---	---	---
17	---	---	---	22.0	19.0	20.5	---	---	---	7.0	7.0	7.0
18	---	---	---	19.5	16.5	18.0	---	---	---	9.0	7.5	8.5
19	---	---	---	17.5	14.5	16.0	---	---	---	9.0	8.5	9.0
20	---	---	---	17.5	14.5	16.0	---	---	---	9.0	8.0	8.5
21	---	---	---	16.5	13.5	15.0	---	---	---	9.0	7.0	8.0
22	---	---	---	15.5	13.0	14.5	---	---	---	7.0	6.5	7.0
23	---	---	---	18.5	15.0	17.0	---	---	---	7.5	7.0	7.0
24	---	---	---	20.0	17.5	18.5	---	---	---	7.5	5.5	6.5
25	13.5	10.5	12.0	17.0	15.0	16.0	---	---	---	5.5	4.5	5.0
26	15.0	12.5	13.5	16.5	13.5	15.0	---	---	---	6.0	4.5	5.5
27	14.0	11.0	12.5	17.5	16.5	17.0	---	---	---	7.0	6.0	6.5
28	14.5	10.0	12.5	17.0	15.5	16.5	---	---	---	7.0	5.5	6.5
29	15.5	13.0	14.0	15.5	14.0	15.0	---	---	---	5.5	5.0	5.0
30	15.0	12.0	13.0	14.5	12.0	13.0	---	---	---	5.0	4.5	5.0
31	16.0	13.5	15.0	---	---	---	---	---	---	5.0	4.5	5.0
MONTH	19.5	10.0	14.8	22.0	8.5	14.5	23.5	7.0	14.5	9.0	4.5	6.5

02423630 SHADES CREEK NEAR GREENWOOD, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.5	3.5	4.0	11.5	10.5	11.0	18.0	16.5	17.0	16.5	15.0	16.0
2	3.5	3.0	3.5	13.0	12.0	12.5	18.0	17.0	17.5	17.5	16.5	17.0
3	4.5	3.5	4.0	14.5	12.5	13.0	17.0	16.0	16.5	18.5	17.5	18.0
4	6.0	4.5	5.5	14.5	11.0	12.0	16.0	15.5	15.5	18.5	18.0	18.5
5	6.0	5.5	6.0	11.5	10.0	11.0	15.5	14.5	15.0	18.5	18.0	18.5
6	5.5	4.5	5.0	---	---	---	14.5	14.0	14.5	19.0	18.0	18.5
7	5.0	4.5	5.0	10.5	10.0	10.5	16.0	14.0	15.0	19.5	18.0	18.5
8	6.0	5.0	5.5	11.0	10.0	10.5	15.5	14.5	15.0	20.0	19.0	19.5
9	6.0	5.5	6.0	10.5	9.0	10.0	15.5	14.5	15.0	20.5	19.5	20.0
10	5.5	4.0	4.5	10.5	10.0	10.5	14.5	13.5	14.0	21.5	20.0	20.5
11	5.0	3.5	4.5	10.5	9.5	10.0	17.0	15.0	16.0	21.5	20.5	21.0
12	6.0	4.5	5.5	11.0	9.0	10.0	17.5	14.5	16.0	21.5	20.0	20.5
13	7.5	6.0	6.5	12.0	10.5	11.0	16.0	14.5	15.0	20.0	18.5	19.5
14	9.0	7.5	8.5	14.0	12.0	13.0	17.5	14.5	16.0	18.0	17.0	17.5
15	11.5	9.0	10.5	13.5	12.0	13.0	15.5	14.5	15.0	18.5	16.5	17.5
16	11.5	10.0	11.0	12.5	11.5	12.0	15.5	15.0	15.5	19.0	18.0	18.5
17	10.0	7.5	9.0	13.5	11.5	12.5	16.5	15.0	16.0	19.5	18.0	19.0
18	7.5	5.5	6.5	15.0	12.5	13.5	17.5	16.0	16.5	20.0	18.5	19.5
19	6.5	5.5	6.0	16.0	13.5	15.0	17.5	16.5	17.0	20.5	19.5	20.0
20	7.0	6.5	6.5	16.5	15.0	16.0	17.0	16.0	17.0	21.5	20.0	20.5
21	9.0	7.0	8.0	17.5	16.0	16.5	17.0	17.0	17.0	22.5	20.5	21.5
22	12.0	9.5	10.5	17.0	16.0	16.5	17.5	17.0	17.0	22.5	21.0	21.5
23	13.5	12.0	13.0	17.0	16.0	16.5	17.5	17.0	17.0	21.5	21.0	21.5
24	14.0	12.0	13.0	16.0	13.5	14.5	17.5	17.5	17.5	21.0	19.5	20.5
25	12.0	8.5	10.5	13.5	11.5	12.5	17.5	17.0	17.0	19.5	17.5	19.0
26	8.5	7.5	8.0	12.5	10.5	11.5	17.0	16.5	16.5	18.0	16.5	17.5
27	8.5	8.0	8.0	13.5	11.0	12.0	17.0	16.0	16.5	17.5	16.5	17.0
28	10.0	8.5	9.5	15.0	12.0	13.5	16.0	15.5	15.5	18.5	17.0	17.5
29	---	---	---	16.5	14.0	15.5	15.5	14.5	15.0	20.0	18.0	18.5
30	---	---	---	17.0	15.5	16.5	16.0	14.5	15.0	20.5	19.5	20.0
31	---	---	---	17.0	16.5	16.5	---	---	---	21.5	20.0	20.5
MONTH	14.0	3.0	7.5	17.5	9.0	13.0	18.0	13.5	16.0	22.5	15.0	19.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.5	21.0	21.0									
2	22.0	21.0	21.5									
3	22.0	22.0	22.0									
4	22.0	21.5	22.0									
5	22.0	21.0	21.5									
6	22.0	21.0	21.5									
7	23.0	21.5	22.5									
8	24.0	22.5	23.5									
9	25.0	23.5	24.0									
10	25.0	23.5	24.0									
11	23.5	22.0	22.5									
12	22.5	21.0	21.5									
13	22.5	20.0	21.5									
14	22.0	20.5	21.0									
15	21.5	20.0	20.5									
16	21.5	19.5	20.5									
17	22.0	19.5	20.5									
18	22.5	20.0	21.5									
19	23.5	21.0	22.0									
20	24.0	21.5	23.0									
21	23.5	22.5	23.0									
22	24.5	22.0	23.0									
23	24.0	22.0	23.0									
24	24.0	22.5	23.0									
25	22.5	21.5	22.0									
26	22.0	20.5	21.5									
27	21.5	20.5	21.0									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	25.0	19.5	22.0									

02423647 CAHABA RIVER NEAR WEST BLOCTON, AL

LOCATION.--Lat 33°05'53", long 87°03'17", in NE¼ sec. 3, T. 24 N., R. 10 E., Bibb County, Hydrologic Unit 03150202, 20 ft (6 m) from left downstream bridge corner on paved county road, 0.2 mi (0.3 km) upstream from Little Ugly Creek, 4.4 mi (7.1 km) east of West Blocton, and at mile 95.8 (154.1 km).

DRAINAGE AREA.--592 mi^2 (1,533 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 240 ft (73 m) from topographic map.

REMARKS.--Water-discharge record fair except those for period of no gage-height record, April 4-18 and Aug. 24 to Sept. 30, which are poor. An average of 82 ft^3/s (2.32 m^3/s) is diverted above station by Birmingham Water Works Co., and is not included in records except about 7 ft^3/s (0.20 m^3/s) which is returned to river above station. Flow partly regulated by Purdy Lake (capacity, 15,300 acre-ft or 18.9 hm^3) on Little Cahaba River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,200 ft^3/s (1,170 m^3/s) Apr. 13, 1979, gage height, 19.97 ft (6.087 m) from flood marks; minimum, 50 ft^3/s (1.42 m^3/s) Oct. 21, 1978; minimum gage height, 1.94 ft (0.591 m) Oct. 19, 20, 21, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 12,000 ft^3/s (340 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	0900	22,600	640	14.22	4.334	Sept. 30	unknown	unknown	unknown	unknown	unknown
Apr. 13	unknown	*41,200	1170	*19.97	6.087						

Minimum discharge, 50 ft^3/s (1.42 m^3/s) Oct. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	60	265	653	752	1780	690	1520	2150	194	350	412
2	78	55	142	3420	639	1630	759	1160	1150	195	302	400
3	78	58	114	2380	582	3240	5290	963	790	196	302	700
4	73	60	160	1260	575	21100	9300	963	849	190	236	880
5	62	62	580	843	523	20500	8000	1300	626	185	180	940
6	68	52	329	694	537	9840	3700	1060	493	190	160	650
7	100	58	199	2140	1910	3140	2400	839	415	283	156	500
8	93	60	165	4040	2190	2350	1700	719	386	322	130	450
9	93	65	1260	2420	1660	1800	1990	626	336	225	126	405
10	97	65	1350	1480	1230	1450	1600	571	289	253	110	350
11	97	60	518	1070	952	1370	1300	535	271	422	87	311
12	90	58	296	849	813	1220	4000	819	225	829	1460	262
13	90	58	222	721	705	1040	33000	1680	210	510	1240	287
14	90	62	190	645	602	914	29000	1740	180	283	501	502
15	81	58	170	550	543	842	16800	1040	160	430	358	575
16	70	60	167	458	479	736	8000	759	156	225	309	392
17	58	70	170	403	411	658	3000	562	151	236	283	355
18	55	78	175	382	639	593	2500	477	147	160	271	710
19	52	103	167	382	1540	560	1620	468	140	142	259	1580
20	52	97	156	3240	1280	419	1320	485	138	199	247	1680
21	50	78	185	10400	1230	469	1120	437	137	215	242	830
22	52	70	354	7100	1120	501	995	365	135	247	170	850
23	55	75	270	3180	973	1160	1030	336	140	231	160	900
24	55	70	378	3930	6220	2150	942	350	173	210	155	645
25	55	68	1290	3290	8810	1540	1160	329	240	215	148	530
26	55	73	839	2210	5700	1160	4310	302	230	879	143	460
27	55	93	528	1800	2750	952	7430	265	213	1250	310	850
28	58	103	385	1470	1890	800	5240	247	203	644	368	1830
29	55	185	309	1170	---	662	2800	277	200	535	440	5600
30	52	422	298	950	---	626	1980	617	197	644	308	19000
31	55	---	412	873	---	599	---	1040	---	445	340	---
TOTAL	2149	2536	12043	64403	47255	85801	162976	22851	11130	11184	9851	43836
MEAN	69.3	84.5	388	2078	1688	2768	5433	737	371	361	318	1461
MAX	100	422	1350	10400	8810	21100	33000	1740	2150	1250	1460	19000
MIN	50	52	114	382	411	419	690	247	135	142	87	262
CFSM	.12	.14	.66	3.51	2.85	4.68	9.18	1.25	.63	.61	.54	2.47
IN.	.14	.16	.76	4.05	2.97	5.39	10.24	1.44	.70	.70	.62	2.75

CAL YR 1978 TOTAL 280196 MEAN 768 MAX 10200 MIN 50 CFSM 1.30 IN 17.61
WTR YR 1979 TOTAL 476015 MEAN 1304 MAX 33000 MIN 50 CFSM 2.20 IN 29.91

02423647 CAHABA RIVER NEAR WEST BLOCTON, AL

WATER-QUALITY RECORDS

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

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama, and the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
24...	1215	54	338	--	16.5	11.0	140	--	40	9.9	15	18
NOV												
09...	0900	71	350	7.8	14.0	10.0	130	27	37	9.9	19	23
DEC												
28...	1245	373	198	7.8	6.0	11.4	77	23	21	5.9	7.0	16
JAN												
30...	1200	919	--	--	6.0	--	--	--	--	--	--	--
MAR												
20...	1300	419	210	8.2	16.5	10.6	94	19	28	5.9	6.9	13
APR												
13...	1450	45200	57	7.1	15.5	8.6	24	6	6.7	1.8	1.7	13
MAY												
08...	1300	719	180	7.6	20.0	8.9	76	25	22	5.1	5.4	13
JUN												
18...	1245	151	295	8.2	23.0	--	120	45	35	7.5	11	16
JUL												
18...	1100	152	243	--	29.0	--	--	--	--	--	--	--
AUG												
24...	1200	154	270	--	28.5	--	--	--	--	--	--	--
31...	0930	142	298	7.4	27.5	--	120	14	36	7.3	11	16

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
24...	.6	3.3	--	--	--	--	--	9.3	.1	1.4	--
NOV											
09...	.7	3.8	130	0	107	3.3	38	10	.1	.9	188
DEC											
28...	.3	3.1	65	0	53	1.6	29	4.9	.1	6.7	114
JAN											
30...	--	--	--	--	--	--	--	--	--	--	--
MAR											
20...	.3	1.8	92	0	75	.9	25	3.8	.1	6.1	125
APR											
13...	.2	1.2	22	0	18	2.8	5.8	1.0	.0	8.4	38
MAY											
08...	.3	1.5	62	0	51	2.5	24	2.9	.1	8.9	104
JUN											
18...	.4	2.6	90	0	74	.9	59	3.8	.0	--	--
JUL											
18...	--	--	--	--	--	--	--	--	--	--	--
AUG											
24...	--	--	--	--	--	--	--	--	--	--	--
31...	.4	4.3	130	0	107	8.3	26	8.0	.1	7.0	167

02423647 CAHABA RIVER NEAR WEST BLOCTON, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)
OCT											
24...	--	--	.95	4.2	1	30	<1	--	--	--	--
NOV											
09...	.26	36.0	.95	4.2	3	50	<1	ND	2	--	--
DEC											
28...	.16	115	.84	3.7	1	<50	2	ND	5	--	--
JAN											
30...	--	--	--	--	--	--	--	--	--	--	--
MAR											
20...	.17	141	.50	2.2	--	<100	--	--	--	--	--
APR											
13...	.05	4640	.16	.70	ND	<10	--	ND	2	--	--
MAY											
08...	.14	202	.80	3.5	ND	<120	1	1	13	--	--
JUN											
18...	--	--	.32	1.4	2	110	<1	ND	10	180	170
JUL											
18...	--	--	--	--	--	--	--	--	--	--	--
AUG											
24...	--	--	--	--	--	--	--	--	--	--	--
31...	.23	64.0	.71	3.1	3	200	1	<1	3	470	470

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT											
24...	100	2	--	--	20	<.2	ND	120	20	--	--
NOV											
09...	420	4	--	--	10	<.2	ND	120	10	--	--
DEC											
28...	260	1	--	--	34	<.2	--	50	10	--	--
JAN											
30...	--	--	--	--	--	--	--	--	--	--	--
MAR											
20...	20	--	--	--	ND	--	--	20	ND	--	--
APR											
13...	90	--	--	--	10	<.2	ND	70	<5	--	--
MAY											
08...	80	3	--	--	52	.2	ND	60	50	--	--
JUN											
18...	10	3	30	30	0	<.2	ND	100	<5	10	4.1
JUL											
18...	--	--	--	--	--	--	--	--	--	--	--
AUG											
24...	--	--	--	--	--	--	--	--	--	--	--
31...	0	3	--	30	40	.3	ND	150	<5	20	7.7

02424000 CAHABA RIVER AT CENTREVILLE, AL

LOCATION.--Lat 32°56'42", long 87°08'21", in E½ sec. 26, T. 23 N., R. 9 E., Bibb County, Hydrologic Unit 03150202, on left bank 60 ft (18 m) downstream from bridge on U.S. Highway 82, 0.2 mi (0.3 km) west of Centreville, 0.5 mi (0.8 km) upstream from Gulf, Mobile & Ohio Railroad bridge, 2.5 mi (4.0 km) upstream from Sandy Creek, and at mile 81.2 (130.7 km).

DRAINAGE AREA.--1,029 mi^2 (2,665 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1901 to February 1908, May 1929 to March 1932, May 1935 to current year. Gage-height records collected at same site from January 1917 to December 1971 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 682: 1901-08. WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 180.74 ft (55.090 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 31, 1939, nonrecording gage at same site. Prior to May 1929, at datum 1.15 ft (0.351 m) lower.

REMARKS.--Water-discharge record good. An average of 82 ft^3/s (2.32 m^3/s) is diverted above station by Birmingham Water Works Co., and is not included in records except about 7 ft^3/s (0.20 m^3/s) which is returned to river above station. Flow partly regulated by Purdy Lake; capacity, 15,300 acre-ft (18.9 hm^3) on Little Cahaba River.

AVERAGE DISCHARGE.--52 years (water years 1901-07, 1929-31, 1935-79), 1,620 ft^3/s (45.9 m^3/s), 21.38 in/yr (543 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,600 ft^3/s (2,370 m^3/s) Mar. 29, 1951; maximum gage height, 36.63 ft (11.165 m), Apr. 8, 1938; minimum, 90 ft^3/s (2.55 m^3/s) Oct. 24-29, 1904, gage height -0.35 ft (-0.107 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20,000 ft^3/s (566 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	2100	48,500	1,370	31.45	9.586	Apr. 13	2300	*78,400	2,220	*35.03	10.677

Minimum discharge, 194 ft^3/s (5.49 m^3/s) Oct. 31, Nov. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	195	685	986	1260	2760	1170	2470	4150	529	758	708
2	233	196	401	4600	1110	2570	1260	2080	2150	520	678	699
3	226	197	324	3270	1050	3890	10200	1820	1550	524	649	1390
4	226	199	415	1840	1130	41400	16000	1810	1520	521	599	1550
5	226	202	879	1290	1050	33700	11000	2500	1350	512	644	1620
6	220	206	735	1080	1080	14900	5950	2040	1160	744	536	1040
7	253	212	476	2470	3350	5890	3820	1710	1050	1040	495	840
8	261	222	395	5240	3410	4360	3010	1520	989	831	449	743
9	266	219	1450	3210	2530	3280	3490	1410	928	682	424	679
10	269	241	2090	2040	1940	2630	2840	1330	859	624	417	642
11	269	230	1000	1550	1620	2530	2230	1250	848	781	448	530
12	262	224	642	1280	1430	2270	9740	1420	768	1170	1420	446
13	261	224	501	1110	1290	1940	58100	2250	742	1100	1730	532
14	253	221	437	1000	1150	1750	60800	2480	696	780	876	911
15	244	221	393	882	1070	1600	35300	1770	662	811	698	991
16	232	219	381	772	979	1440	12600	1440	643	610	623	656
17	216	242	397	692	890	1330	5510	1230	628	570	588	598
18	204	272	396	654	1190	1250	4220	1120	613	507	571	2640
19	199	275	382	650	2300	1190	3270	1050	599	491	554	2890
20	199	304	358	4390	2000	1140	2700	1140	585	691	538	1550
21	199	250	413	14500	1940	1110	2390	1090	578	668	524	1490
22	201	225	572	9150	1900	1090	2180	977	571	713	707	1570
23	204	219	565	4540	1690	2240	2250	932	581	621	546	1230
24	202	231	565	5200	9820	3680	2110	935	749	568	491	1020
25	198	221	1480	4460	12400	2420	2240	970	789	576	469	865
26	202	215	1290	3090	8250	1850	6620	890	658	1420	450	778
27	202	263	879	2520	4730	1550	9410	840	607	1850	516	1820
28	202	303	671	2160	3300	1360	7580	814	574	1160	567	10700
29	201	389	569	1750	---	1180	4680	848	568	984	774	9380
30	200	654	548	1500	---	1100	3170	1110	552	1230	530	3840
31	196	---	669	1400	---	1060	---	2180	---	932	576	---
TOTAL	6967	7491	20958	89276	75859	150460	295840	45426	28717	24760	19845	54348
MEAN	225	250	676	2880	2709	4854	9861	1465	957	799	640	1812
MAX	269	654	2090	14500	12400	41400	60800	2500	4150	1850	1730	10700
MIN	196	195	324	650	890	1060	1170	814	552	491	417	446
CFSM	.22	.24	.66	2.80	2.63	4.72	9.58	1.42	.93	.78	.62	1.76
IN.	.25	.27	.76	3.23	2.74	5.44	10.70	1.64	1.04	.90	.72	1.96

CAL YR 1978 TOTAL 449234 MEAN 1231 MAX 13400 MIN 195 CFSM 1.20 IN 16.24
WTR YR 1979 TOTAL 819947 MEAN 2246 MAX 60800 MIN 195 CFSM 2.18 IN 29.64

02424000 CAHABA RIVER AT CENTREVILLE, AL--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.80	1.56	3.11	3.82	4.59	7.63	4.77	7.57	9.88	3.30	4.08	3.85
2	1.77	1.57	2.28	9.79	4.26	7.30	4.99	6.86	6.90	3.28	3.87	3.82
3	1.75	1.57	2.02	8.48	4.15	9.02	14.60	6.37	5.74	3.29	3.80	5.44
4	1.72	1.58	2.32	5.76	4.32	29.93	22.47	6.34	5.69	3.29	3.66	5.77
5	1.70	1.59	3.61	4.65	4.14	28.31	19.64	7.62	5.33	3.27	3.78	5.90
6	1.68	1.61	3.24	4.18	4.21	22.45	12.95	6.79	4.91	3.84	3.47	4.64
7	1.81	1.64	2.51	6.39	8.11	13.04	9.53	6.13	4.66	4.69	3.35	4.14
8	1.84	1.69	2.25	11.13	8.53	9.98	8.27	5.74	4.52	4.17	3.20	3.87
9	1.86	1.67	4.71	8.34	7.11	8.48	8.96	5.51	4.35	3.78	3.12	3.70
10	1.87	1.77	6.16	6.16	6.05	7.46	8.00	5.34	4.17	3.64	3.10	3.59
11	1.88	1.71	3.91	5.19	5.43	7.30	7.00	5.16	4.14	4.06	3.20	3.25
12	1.85	1.69	2.98	4.62	5.03	6.83	12.25	5.52	3.93	5.00	5.39	2.99
13	1.85	1.68	2.57	4.25	4.73	6.24	32.57	7.14	3.86	4.85	6.34	3.24
14	1.81	1.67	2.37	4.00	4.44	5.87	33.09	7.55	3.73	4.08	4.39	4.21
15	1.78	1.66	2.23	3.69	4.25	5.57	28.77	6.24	3.64	4.17	3.92	4.42
16	1.73	1.65	2.19	3.40	4.05	5.26	21.25	5.58	3.59	3.65	3.72	3.56
17	1.66	1.75	2.23	3.19	3.82	5.03	12.15	5.12	3.55	3.54	3.62	3.40
18	1.60	1.87	2.23	3.09	4.51	4.85	9.94	4.85	3.51	3.36	3.57	7.05
19	1.58	1.88	2.18	3.08	6.76	4.73	8.70	4.71	3.46	3.32	3.52	8.16
20	1.58	1.98	2.10	8.33	6.21	4.63	7.88	4.90	3.42	3.89	3.47	5.63
21	1.58	1.77	2.28	21.19	6.12	4.56	7.34	4.78	3.40	3.84	3.43	5.49
22	1.59	1.67	2.75	17.74	6.03	4.52	6.98	4.52	3.38	3.96	3.94	5.66
23	1.60	1.64	2.74	10.54	5.63	6.71	7.12	4.40	3.40	3.73	3.49	4.90
24	1.59	1.68	2.73	11.30	14.38	9.11	6.88	4.41	3.85	3.58	3.31	4.44
25	1.58	1.64	4.93	10.28	19.98	7.19	7.11	4.50	4.01	3.60	3.24	4.03
26	1.59	1.62	4.54	7.97	16.40	6.15	12.17	4.29	3.62	5.53	3.17	3.79
27	1.60	1.81	3.57	7.04	10.82	5.55	16.60	4.15	3.49	6.53	3.37	5.62
28	1.59	1.97	3.02	6.38	8.46	5.16	15.16	4.08	3.40	5.10	3.50	16.84
29	1.59	2.24	2.74	5.60	---	4.77	10.55	4.17	3.39	4.68	4.05	17.50
30	1.59	3.03	2.69	5.10	---	4.61	8.63	4.80	3.35	5.25	3.38	9.83
31	1.57	---	3.03	4.90	---	4.52	---	6.73	---	4.54	3.50	---
MEAN	1.70	1.76	2.97	7.08	6.88	8.48	12.88	5.54	4.28	4.09	3.71	5.62
MAX	1.88	3.03	6.16	21.19	19.98	29.93	33.09	7.62	9.88	6.53	6.34	17.50
MIN	1.57	1.56	2.02	3.08	3.82	4.52	4.77	4.08	3.35	3.27	3.10	2.99

02424000 CAHABA RIVER AT CENTREVILLE, AL--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, and 1968.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
04...	1145	224	--	--	23.0	--
24...	1000	208	--	8.3	15.5	10.2
NOV						
08...	1330	215	--	--	15.5	--
DEC						
28...	1600	650	210	--	8.0	--
JAN						
29...	1145	1800	--	--	5.5	--
APR						
13...	1640	68100	54	7.2	16.0	8.7
MAY						
01...	1200	2450	--	--	18.5	--
07...	0930	174	--	--	21.0	--
JUN						
25...	1100	806	255	--	26.5	--
JUL						
23...	1100	617	260	--	27.0	--
AUG						
23...	1030	558	24	--	27.0	--

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT											
24...	140	16	36	12	5.3	8	.2	1.6	150	0	123
APR											
13...	25	4	7.1	1.7	1.3	10	.1	1.2	25	0	21

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)
OCT											
24...	1.2	22	4.0	.1	3.8	160	.22	89.9	.20	.90	<1
APR											
13...	2.5	2.9	.9	.0	8.6	37	.05	6800	.09	.40	ND

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
24...	40	<1	4	ND	30	2	20	<.2	ND	110	ND
APR											
13...	10	ND	ND	1	60	ND	8	<.2	ND	50	<5

02424940 OAKMULGEE CREEK NEAR AUGUSTIN, AL

LOCATION.--Lat 32°32'01", long 87°05'24", in SE¼ sec. 17, T. 18 N., R. 10 E., Dallas-Perry County line, Hydrologic Unit 03150202, on downstream side of State Highway 219 bridge, 2 mi (3 km) north of Augustin.

DRAINAGE AREA.--215 mi^2 (557 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 139.71 ft (42.584 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for period of no gage height March 6 to May 18, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft^3/s (365 m^3/s) March 5, 1979, gage height, 19.53 ft (5.953 m); minimum, 27 ft^3/s (0.76 m^3/s) July 8, 1977, gage height, 2.63 ft (0.802 m).

EXTREMES FOR CURRENT PERIOD.--Peak discharges above base of 2,310 ft^3/s (65 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 5	0700	*12900	365	19.53	5.953	Apr. 14	unknown	12800	362	19.48	5.938
Apr. 5	unknown	unknown		unknown		Apr. 27	unknown	unknown		unknown	

Minimum discharge, 33 ft^3/s (0.93 m^3/s) Nov. 2, 4-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	34	159	218	308	579	320	650	285	93	174	65
2	75	33	150	530	278	484	310	580	335	85	116	80
3	61	34	107	512	293	926	1000	520	262	66	100	176
4	55	33	146	610	404	7630	4500	470	186	59	136	166
5	49	33	247	418	414	9220	5000	430	158	56	131	139
6	45	34	264	272	526	3200	4000	460	140	62	95	100
7	43	36	228	383	730	2000	1200	490	131	104	76	78
8	41	38	146	492	768	1300	1100	340	119	228	73	64
9	40	39	197	488	800	1000	1150	330	106	270	70	56
10	40	40	242	456	572	800	1400	320	99	230	65	50
11	40	40	225	305	432	700	1200	300	96	188	73	46
12	40	40	178	254	358	750	1000	270	96	170	124	42
13	39	40	129	233	317	700	3000	240	93	142	128	57
14	38	40	109	218	290	600	11000	270	89	121	121	100
15	37	40	97	195	266	540	7000	220	78	95	89	122
16	36	40	93	176	245	480	4000	200	67	78	68	121
17	36	42	111	162	225	450	2000	185	62	67	60	95
18	36	66	116	166	314	430	1200	175	60	70	57	85
19	36	77	112	176	408	420	940	158	58	81	55	88
20	36	75	102	568	474	410	860	232	54	82	53	92
21	36	62	122	1070	506	390	800	222	51	106	52	99
22	36	53	150	1330	425	380	740	178	50	135	49	98
23	36	50	158	1310	442	390	700	160	91	124	51	93
24	36	48	157	1010	845	660	740	168	128	100	83	89
25	35	46	178	750	1040	720	740	178	139	152	68	80
26	35	46	185	747	1350	540	1200	184	124	280	59	75
27	35	56	169	663	1150	380	2300	152	105	374	56	250
28	35	79	133	540	778	370	1700	139	88	401	53	572
29	35	89	114	481	---	360	1100	158	77	206	50	520
30	35	137	138	411	---	340	800	202	76	154	47	492
31	34	---	165	355	---	330	---	238	---	176	56	---
TOTAL	1312	1520	4827	15499	14958	37479	63000	8819	3503	4555	2488	4190
MEAN	42.3	50.7	156	500	534	1209	2100	284	117	147	80.3	140
MAX	101	137	264	1330	1350	9220	11000	650	335	401	174	572
MIN	34	33	93	162	225	330	310	139	50	56	47	42
CFSM	.20	.24	.73	2.33	2.48	5.62	9.77	1.32	.54	.68	.37	.65
IN.	.23	.26	.84	2.68	2.59	6.48	10.90	1.53	.61	.79	.43	.72

CAL YR 1978 TOTAL 83944 MEAN 230 MAX 2100 MIN 28 CFSM 1.07 IN 14.52
WTR YR 1979 TOTAL 162150 MEAN 444 MAX 11000 MIN 33 CFSM 2.07 IN 28.06

02425000 CAHABA RIVER NEAR MARION JUNCTION, AL

LOCATION.--Lat 32°26'38", long 87°10'49", in SE¼ sec. 16, T. 17 N., R. 9 E., Dallas County, Hydrologic Unit 03150203, on right bank 10 ft (3 m) downstream from bridge on U.S. Highway 80, 3.8 mi (6.1 km) downstream from Oakmulgee Creek, 3.5 mi (5.6 km) east of Marion Junction, and 21.4 mi (34.4 km) above the mouth.

DRAINAGE AREA.--1,768 mi^2 (4,579 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to September 1954, October 1968 to current year. Monthly discharge only October to December 1938, published in WSP 1304. Gage-height records collected at same site from 1939 to 1971 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1304: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 86.72 ft (26.432 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Auxiliary water-stage recorder 6.2 mi (10.0 km) downstream from base gage at same datum. October 1940 to September 1954, nonrecording gage 12 mi (19 km) downstream from base gage at same datum.

REMARKS.--Water-discharge records good. For diversion above station see Remarks for station at Centreville.

AVERAGE DISCHARGE.--27 years (water years 1939-54, 1969-79), 2,927 ft^3/s (82.89 m^3/s), 22.48 in/yr (571 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,400 ft^3/s (2,360 m^3/s) Aug. 16, 1939, gage height, 42.95 ft (13.091 m); minimum observed, 224 ft^3/s (6.34 m^3/s) Sept. 16, 1954, gage height, 0.80 ft (0.244 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 24, 1961, reached a stage of 43.80 ft (13.350 m), present datum, from floodmarks (discharge not determined).

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

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 28	0200	14800	419	23.68	7.218	Apr. 6	2400	22200	629	30.72	9.363
Mar. 6	2000	48800	1380	39.04	11.899	Apr. 15	1400	*73900	2090	*41.13	12.536

Minimum discharge, 393 ft^3/s (11.1 m^3/s) Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	692	399	1080	1460	2720	7740	2300	8000	3590	904	1690	864
2	606	396	1180	3760	2420	5450	2590	4600	5120	850	1360	1040
3	550	396	872	5660	2640	5790	9110	3850	3320	796	1330	1250
4	526	396	914	5200	2900	17900	13500	3490	2380	822	1260	1960
5	508	396	1170	3200	2730	26000	19100	3830	2200	768	1190	2020
6	447	402	1380	2280	3490	42200	21600	4380	2020	886	1060	2140
7	432	417	1410	2580	4970	43200	21300	3830	1770	1210	1000	1500
8	426	429	1040	4260	6470	30700	17200	3300	1610	2380	891	1200
9	459	444	1160	6490	6160	19700	12200	2920	1480	2320	865	1040
10	459	456	1940	5400	4650	12500	9370	2690	1420	1660	804	937
11	468	456	2860	3310	3640	8010	7270	2520	1380	1490	797	870
12	468	465	1730	2610	3120	6380	6470	2450	1310	1580	1080	796
13	465	456	1210	2220	2800	5190	14900	2850	1190	1740	1690	747
14	456	450	981	1980	2550	4370	26100	3760	1110	1740	2510	905
15	459	450	864	1790	2350	3820	69200	3810	1030	1310	1480	1160
16	450	459	808	1620	2200	3440	59800	2920	966	1260	1150	1490
17	438	462	808	1470	2030	3130	41500	2400	929	1080	1010	1070
18	426	546	820	1390	2420	2890	29700	2090	894	953	948	931
19	426	588	804	1370	3160	2710	22600	1900	869	951	902	2240
20	411	582	776	3610	4120	2590	16400	1830	848	885	868	3470
21	405	568	808	6120	4010	2500	12200	1890	815	1390	839	2360
22	402	543	914	6730	3760	2700	8960	1790	795	1650	851	2220
23	402	498	981	7380	3680	5380	7000	1640	1110	1480	992	2270
24	402	474	1080	7980	7100	6620	6000	1650	1270	1330	952	1740
25	402	468	1140	8190	10100	6010	4730	1610	1240	1270	837	1420
26	402	471	1840	8170	12900	4260	5970	1610	1310	1950	813	1230
27	402	504	1860	6160	14400	3400	9900	1460	1090	2520	769	1320
28	402	578	1360	5060	13700	2980	12200	1380	978	3210	787	2800
29	402	676	1130	4120	---	2690	12600	1450	911	2180	870	7930
30	402	872	1080	3390	---	2440	11300	1670	955	1790	1250	10000
31	399	---	1100	3020	---	2330	---	2000	---	2000	933	---
TOTAL	13994	14697	37100	127980	137190	295020	513070	85570	45910	46355	33778	60920
MEAN	451	490	1197	4128	4900	9517	17100	2760	1530	1495	1090	2031
MAX	692	872	2860	8190	14400	43200	69200	8000	5120	3210	2510	10000
MIN	399	396	776	1370	2030	2330	2300	1380	795	768	769	747
CFSM	.26	.28	.68	2.34	2.77	5.38	9.67	1.56	.87	.85	.62	1.15
IN.	.29	.31	.78	2.69	2.89	6.21	10.80	1.80	.97	.98	.71	1.28

CAL YR 1978 TOTAL 805941 MEAN 2208 MAX 16500 MIN 330 CFSM 1.25 IN 16.96
WTR YR 1979 TOTAL 1411584 MEAN 3867 MAX 69200 MIN 396 CFSM 2.19 IN 29.70

02425000 CAHABA RIVER NEAR MARION JUNCTION, AL--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.48	1.63	3.40	4.21	6.67	14.63	5.89	---	8.15	3.01	4.69	2.91
2	2.26	1.62	3.63	8.52	6.12	11.15	6.43	---	10.65	2.88	4.02	3.31
3	2.10	1.62	2.93	11.48	6.53	11.68	16.50	8.66	7.74	2.74	3.95	3.78
4	2.03	1.62	3.03	10.77	7.00	26.76	21.96	8.06	6.05	2.81	3.80	5.22
5	1.98	1.62	3.59	7.54	6.69	33.81	27.98	8.63	5.70	2.67	3.63	5.34
6	1.79	1.64	4.05	5.85	8.06	38.34	30.24	9.50	5.33	2.94	3.35	5.58
7	1.74	1.69	4.12	6.42	10.42	38.45	30.03	8.63	4.84	3.66	3.22	4.29
8	1.72	1.73	3.31	9.33	12.72	36.49	26.03	7.72	4.52	6.05	2.97	3.66
9	1.83	1.78	3.57	12.75	12.24	28.59	20.46	7.04	4.26	5.92	2.91	3.31
10	1.83	1.82	5.19	11.08	9.92	20.90	16.86	6.57	4.14	4.62	2.76	3.08
11	1.86	1.82	6.92	7.74	8.31	15.01	13.95	6.31	4.06	4.28	2.74	2.92
12	1.86	1.85	4.76	6.48	7.40	12.59	12.75	6.19	3.90	4.46	3.41	2.74
13	1.85	1.82	3.66	5.74	6.81	10.75	23.52	6.91	3.65	4.79	4.66	2.62
14	1.82	1.80	3.18	5.27	6.37	9.49	32.88	8.52	3.46	4.79	6.26	3.00
15	1.83	1.80	2.91	4.88	6.00	8.61	40.74	8.60	3.30	3.91	4.27	3.57
16	1.80	1.83	2.77	4.53	5.69	7.98	39.96	7.04	3.15	3.79	3.56	4.27
17	1.76	1.84	2.77	4.24	5.36	7.41	38.19	6.09	3.06	3.40	3.24	3.38
18	1.72	2.09	2.80	4.08	6.13	6.98	35.77	5.47	2.99	3.12	3.11	3.07
19	1.72	2.21	2.76	4.04	7.47	6.66	31.07	5.11	2.92	3.11	3.00	5.66
20	1.67	2.19	2.69	8.27	9.11	6.44	25.17	4.96	2.87	2.96	2.92	8.02
21	1.65	2.15	2.77	12.19	8.93	6.27	20.51	5.08	2.79	4.06	2.85	6.01
22	1.64	2.08	3.03	13.12	8.51	6.64	---	4.88	2.74	4.60	2.88	5.75
23	1.64	1.95	3.18	14.11	8.39	11.04	---	4.59	3.45	4.26	3.20	5.83
24	1.64	1.88	3.40	14.97	13.69	12.96	---	4.60	3.83	3.95	3.11	4.79
25	1.64	1.86	3.54	15.27	17.87	12.02	10.05	4.53	3.75	3.82	2.84	4.14
26	1.64	1.87	4.97	15.25	21.37	9.32	11.95	4.52	3.91	5.20	2.78	3.74
27	1.64	1.97	5.01	12.25	23.19	7.91	17.60	4.23	3.42	6.29	2.67	3.92
28	1.64	2.18	4.03	10.56	22.32	7.15	20.55	4.06	3.17	7.57	2.72	6.70
29	1.64	2.44	3.51	9.11	---	6.61	21.00	4.20	3.02	5.66	2.91	14.87
30	1.64	2.93	3.39	7.89	---	6.17	19.40	4.64	3.12	4.89	3.78	17.75
31	1.63	---	3.45	7.21	---	5.96	---	5.30	---	5.31	3.07	---
MEAN	1.80	1.91	3.62	8.88	9.97	14.35	---	---	4.26	4.24	3.40	5.11
MAX	2.48	2.93	6.92	15.27	23.19	38.45	---	---	10.65	7.57	6.26	17.75
MIN	1.63	1.62	2.69	4.04	5.36	5.96	---	---	2.74	2.67	2.67	2.62

02425000 CAHABA RIVER NEAR MARION JUNCTION, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1972-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT										
10...	1100	436	202	6.7	18.0	10.5	91	14	23	8.2
NOV										
24...	1015	446	--	7.6	17.0	9.8	86	17	22	7.5
JAN										
04...	1130	5120	127	7.1	6.0	12.9	50	10	14	3.6
FEB										
20...	1130	4160	129	7.0	8.5	12.0	60	22	17	4.3
APR										
02...	1130	2280	150	7.5	18.5	9.9	64	13	18	4.5
MAY										
10...	1015	2600	149	7.3	22.0	9.4	64	16	18	4.7
JUN										
18...	1100	886	215	7.7	26.0	9.7	--	--	--	--
AUG										
03...	0955	1300	163	--	27.0	--	--	--	--	--
SEP										
05...	1030	1920	183	7.5	26.0	8.2	84	14	23	6.5

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
10...	1.8	4	.1	1.1	94	0	77	30	15	3.8
NOV										
24...	4.1	9	.2	1.5	84	0	69	3.4	12	3.3
JAN										
04...	4.1	15	.3	1.9	48	0	39	6.1	15	4.6
FEB										
20...	3.4	11	.2	1.2	47	0	39	7.5	14	2.9
APR										
02...	2.8	9	.2	.6	62	0	51	3.1	12	2.4
MAY										
10...	3.0	9	.2	1.2	59	0	48	4.7	--	2.4
JUN										
18...	--	--	--	--	86	0	71	2.7	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	4.9	11	.2	2.2	86	0	71	4.4	13	3.9

02425000 CAHABA RIVER NEAR MARION JUNCTION, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
OCT										
10...	.1	5.8	106	.14	125	.00	.00	<1	70	<1
NOV										
24...	.1	6.7	100	.14	120	.16	.70	ND	100	ND
JAN										
04...	.0	7.5	77	.10	1060	.43	1.9	1	<50	2
FEB										
20...	.0	7.7	78	.11	876	.79	3.5	ND	290	<1
APR										
02...	.0	7.4	80	.11	492	.25	1.1	ND	<100	1
MAY										
10...	.0	8.6	--	--	--	.36	1.6	<0	60	<1
JUN										
18...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	.1	7.6	106	.14	550	.43	1.9	1	150	1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
OCT									
10...	2	2	220	1	29	.2	ND	100	20
NOV									
24...	1	<1	190	3	37	.3	ND	80	10
JAN									
04...	ND	4	730	2	6	<.2	--	60	10
FEB									
20...	ND	4	120	2	<5	<.2	ND	60	18
APR									
02...	ND	7	100	2	<5	<.2	0	60	50
MAY									
10...	1	8	220	<1	73	.2	<0	60	20
JUN									
18...	--	--	--	--	--	--	--	--	--
AUG									
03...	--	--	--	--	--	--	--	--	--
SEP									
05...	ND	13	60	3	<5	<.2	ND	90	10

02425200 BIG SWAMP CREEK NEAR ORRVILLE, AL

LOCATION.--Lat 32°13'17", long 87°09'48", in NW¼ sec. 3, T. 14 N., R. 9 E., Dallas County, Hydrologic Unit 03150203, on left bank, 20 ft (6.1 m) upstream from county road, 3 mi (4.8 km) upstream from mouth, and 9.8 mi (15.8 km) southeast of Orrville.

DRAINAGE AREA.--37.8 mi^2 (97.9 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 87.74 ft (26.74 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for period of no gage-height record, May 8 to June 18, which are poor. Records of specific conductance and water temperature for the water year 1979 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--7 years (water years 1973-79), 53.5 ft^3/s (1.563 m^3/s), 19.22 in/yr (488 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,400 ft^3/s (96.2 m^3/s) Mar. 31, 1976, gage height, 14.07 ft (4.289 m), minimum daily, 0.7 ft^3/s (0.02 m^3/s) Nov. 25, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 404 ft^3/s (11.4 m^3/s) and annual maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 7	1000	418	11.8	5.08	1.548	Apr. 4	0700	*3,330	94.3	*14.05	4.282
Feb. 24	0500	654	18.5	6.39	1.948	Apr. 12	2300	573	16.2	5.94	1.811
Mar. 4	1200	2,560	72.5	12.72	3.877						

Minimum daily discharge, 0.7 ft^3/s (0.02 m^3/s) Nov. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	1.3	5.1	25	47	34	24	47	16	7.3	20	3.3
2	2.6	1.3	3.2	107	36	22	129	35	15	5.4	27	3.9
3	2.1	1.4	2.3	68	51	200	1690	29	72	16	23	12
4	2.0	1.4	19	41	111	2000	2470	26	36	3.2	16	7.9
5	1.8	1.4	16	28	104	1100	1100	28	22	2.7	11	4.2
6	1.8	1.4	7.2	20	241	500	600	26	13	2.5	8.6	4.2
7	1.4	1.5	4.7	70	404	600	500	22	11	32	7.2	4.2
8	1.4	1.6	3.5	74	364	700	450	19	10	13	6.2	3.5
9	1.5	1.5	12	45	217	400	350	17	8.0	62	7.6	3.0
10	1.6	1.5	7.8	37	106	200	298	16	9.0	24	12	3.3
11	1.6	1.5	5.3	26	65	150	177	15	7.6	20	20	2.8
12	1.4	1.4	3.9	22	44	100	166	22	6.4	40	20	2.8
13	1.4	1.5	3.4	20	32	70	420	160	5.6	20	12	8.6
14	1.4	1.5	3.2	17	24	56	110	80	5.2	12	9.0	5.9
15	1.2	1.7	2.9	14	18	45	80	40	4.8	10	6.8	4.4
16	1.3	1.5	3.0	12	11	39	75	30	4.5	8.0	5.9	4.2
17	1.3	3.9	3.2	11	9.0	36	70	23	4.0	6.6	5.6	5.3
18	1.3	4.2	2.6	10	36	34	65	19	3.5	6.8	5.3	5.3
19	1.3	1.7	2.8	10	57	33	60	15	3.1	8.5	5.0	5.0
20	1.3	1.4	2.8	169	60	32	55	13	2.8	18	4.4	4.5
21	1.3	1.3	4.7	287	100	32	53	12	2.6	11	3.9	6.2
22	1.3	1.3	3.7	276	85	31	50	11	2.6	10	3.9	4.8
23	1.3	1.3	3.5	193	148	223	81	12	3.5	9.0	3.9	3.9
24	1.2	2.1	7.6	185	571	206	47	16	14	15	8.6	3.8
25	1.3	.70	6.5	137	519	132	78	11	7.5	12	9.0	3.5
26	1.3	1.1	5.0	109	306	72	104	9.0	6.5	16	10	3.5
27	1.4	4.7	3.9	148	118	48	270	8.4	4.2	17	6.5	55
28	1.4	3.6	3.5	126	69	38	120	8.0	3.6	14	4.2	66
29	1.4	9.5	3.3	96	---	32	95	7.8	3.4	20	4.2	28
30	1.4	10	10	71	---	27	65	12	7.6	85	3.7	15
31	1.4	---	9.8	63	---	25	---	20	---	27	3.5	---
TOTAL	48.9	70.20	175.4	2517	3953.0	7217	9852	809.2	315.0	554.0	294.0	288.0
MEAN	1.58	2.34	5.66	81.2	141	233	328	26.1	10.5	17.9	9.48	9.60
MAX	4.5	10	19	287	571	2000	2470	160	72	85	27	66
MIN	1.2	.70	2.3	10	9.0	22	24	7.8	2.6	2.5	3.5	2.8
CFSM	.04	.06	.15	2.15	3.73	6.16	8.68	.69	.28	.47	.25	.25
IN.	.05	.07	.17	2.48	3.89	7.10	9.70	.80	.31	.55	.29	.28

CAL YR 1978 TOTAL 9864.70 MEAN 27.0 MAX 669 MIN .70 CFSM .71 IN 9.71
WTR YR 1979 TOTAL 26093.70 MEAN 71.5 MAX 2470 MIN .70 CFSM 1.89 IN 25.68

02425500 CEDAR CREEK AT MINTER, AL

LOCATION.--Lat 32°04'45", long 86°59'02", in SE¼ sec. 20, T. 13 N., R. 11 E., Dallas County, Hydrologic Unit 03150203, near right bank on downstream side of bridge on county road, 0.2 mi (0.3 km) downstream from Snake Creek, 0.5 mi (0.8 km) east of Minter, and 4 mi (6 km) upstream from Dry Cedar Creek.

DRAINAGE AREA.--217 mi^2 (562 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1952 to September 1970. Flood hydrograph and low flow, water years 1971-73. Annual maximum, water year 1974. October 1974 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 123.50 ft (37.643 m) National Geodetic Vertical Datum of 1929. Prior to July 27, 1972, an old channel 500 ft (152 m) left at same datum.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--23 years (water years 1953-70, 1975-79), 254 ft^3/s (7.193 m^3/s), 15.90 in/yr (404 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 99,800 ft^3/s (2,830 m^3/s) Feb. 17, 1975, gage height, 26.53 ft (8.086 m), from floodmarks, from rating curve extended above 46,000 ft^3/s (1,303 m^3/s); minimum daily, 0.1 ft^3/s (0.003 m^3/s) Aug. 12, Sept. 15, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 21	0600	6220	176	17.69	5.392	Mar. 4	1500	7150	202	19.18	5.846
Feb. 7	0700	5250	149	15.70	4.785	Apr. 4	1900	*8440	239	*20.40	6.218
Feb. 24	0900	6320	179	17.91	5.459	Apr. 27	0100	4470	127	13.68	4.170
						May 31	2200	7100	201	19.11	5.825

Minimum daily discharge, 9.0 ft^3/s (0.25 m^3/s) Oct. 9-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	16	85	143	242	306	149	160	3970	28	70	310
2	12	16	46	2040	188	263	143	130	635	27	52	103
3	11	17	36	601	357	1650	2840	110	430	27	49	56
4	10	18	494	210	1430	6860	7420	100	262	26	47	46
5	10	19	1560	136	649	4420	6110	90	148	25	44	38
6	10	19	335	107	1650	978	1140	85	108	33	41	33
7	10	21	118	509	4360	539	548	80	88	112	37	29
8	10	24	75	618	1180	426	466	75	77	118	35	26
9	9.0	27	72	242	522	351	615	72	77	406	33	24
10	9.0	25	94	144	344	330	444	70	65	156	33	22
11	9.0	24	66	110	272	2000	324	120	62	416	40	21
12	9.0	23	51	115	234	886	266	266	52	489	96	20
13	9.0	23	45	403	210	503	316	467	46	488	103	28
14	10	23	42	263	194	390	399	307	43	592	54	36
15	9.5	24	38	153	178	314	266	173	40	165	41	31
16	9.3	26	38	112	164	263	180	123	38	88	35	27
17	10	29	37	96	151	245	150	101	37	64	32	38
18	10	30	35	88	392	230	130	88	36	58	31	81
19	10	33	34	81	536	216	120	79	34	131	31	59
20	11	31	34	2880	410	204	110	82	33	124	30	42
21	11	28	38	5130	1630	209	100	79	31	81	28	39
22	11	28	41	954	778	197	95	70	30	76	32	35
23	11	27	37	447	2330	1090	90	70	29	60	60	33
24	11	27	92	1060	5870	877	170	86	30	89	115	30
25	12	26	253	494	2450	382	1170	82	29	538	83	28
26	12	27	128	289	948	257	1900	64	38	860	54	48
27	13	54	75	1230	489	218	3670	58	33	536	49	412
28	13	91	57	829	377	202	955	54	31	216	45	2590
29	15	72	49	374	---	192	400	54	30	158	38	577
30	15	132	54	264	---	169	240	67	30	112	32	206
31	15	---	67	284	---	153	---	2930	---	87	264	---
TOTAL	339.8	980	4226	20406	28535	25320	30926	6392	6592	6386	1734	5068
MEAN	11.0	32.7	136	658	1019	817	1031	206	220	206	55.9	169
MAX	15	132	1560	5130	5870	6860	7420	2930	3970	860	264	2590
MIN	9.0	16	34	81	151	153	90	54	29	25	28	20
CFSM	.05	.15	.63	3.03	4.70	3.77	4.75	.95	1.01	.95	.26	.78
IN.	.06	.17	.72	3.50	4.89	4.34	5.30	1.10	1.13	1.09	.30	.87

CAL YR 1978 TOTAL 107233.3 MEAN 294 MAX 6980 MIN 9.0 CFSM 1.36 IN 18.38
WTR YR 1979 TOTAL 136904.8 MEAN 375 MAX 7420 MIN 9.0 CFSM 1.73 IN 23.47

02425500 CEDAR CREEK AT MINTER, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-68, 1972-73, 1975-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT										
13...	1230	9.0	185	7.4	24.5	10.2	82	0	30	1.6
DEC										
01...	0945	88	130	7.0	13.0	10.8	60	1	22	1.2
JAN										
11...	1100	111	--	7.5	5.0	13.0	--	--	--	--
FEB										
21...	1030	1830	--	7.3	8.5	12.2	93	11	35	1.4
MAR										
30...	1200	161	321	7.6	19.5	10.0	160	34	60	1.6
MAY										
11...	1000	120	310	7.7	25.0	8.3	150	--	57	1.8
JUN										
21...	1015	32	273	7.5	28.0	8.2	--	--	--	--
AUG										
02...	1452	55	279	--	31.0	--	--	--	--	--
SEP										
04...	0945	48	202	7.8	26.0	8.7	100	12	38	1.6

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
13...	3.3	8	.2	1.1	100	0	82	6.4	4.0	3.4
DEC										
01...	2.4	8	.1	1.6	72	0	59	12	5.9	2.0
JAN										
11...	--	--	--	--	170	0	139	8.6	21	5.2
FEB										
21...	2.7	6	.1	1.1	100	0	82	8.0	14	3.4
MAR										
30...	2.7	4	.1	.2	150	0	123	6.0	--	--
MAY										
11...	3.0	4	.1	.8	--	--	--	--	6.2	3.2
JUN										
21...	--	--	--	--	140	0	115	7.1	--	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
SEP										
04...	2.3	5	.1	1.3	110	0	90	2.8	3.6	2.6

02425500 CEDAR CREEK AT MINTER, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
OCT										
13...	.1	6.8	100	.14	2.44	.00	.00	<1	50	ND
DEC										
01...	.1	7.9	80	.11	19.2	.11	.50	1	<50	ND
JAN										
11...	.1	9.1	--	--	--	.09	.40	--	--	--
FEB										
21...	.1	7.5	117	.16	578	.50	2.2	1	<50	2
MAR										
30...	.1	10	--	--	--	.09	.40	0	<100	<1
MAY										
11...	.1	9.5	--	--	--	.12	.53	1	180	<1
JUN										
21...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
SEP										
04...	.1	9.8	114	.16	14.8	.06	.27	1	160	1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
OCT									
13...	4	ND	60	1	30	.4	ND	200	<5
DEC									
01...	1	ND	480	4	14	.3	--	130	10
JAN									
11...	--	--	--	--	--	--	--	--	--
FEB									
21...	ND	7	300	2	<5	<.2	ND	160	30
MAR									
30...	--	7	60	ND	<5	<.2	ND	210	ND
MAY									
11...	ND	2	30	2	15	<.2	ND	240	10
JUN									
21...	--	--	--	--	--	--	--	--	--
AUG									
02...	--	--	--	--	--	--	--	--	--
SEP									
04...	ND	6	80	6	<5	.2	ND	190	<5

MOBILE RIVER MAIN STEM

02427506 ALABAMA RIVER AT MILLERS FERRY LOCK AND DAM, NEAR CAMDEN, AL

LOCATION.--Lat 32°06'00", long 84°23'52", in NW¼ sec. 17, T. 13 N., R. 17 E., Wilcox County, Hydrologic Unit 03150203, at downstream end of Millers Ferry lock and dam, 1.0 mi (1.6 km) downstream from State Highway 28, 1.3 mi (2.1 km) downstream from Prairie Creek, 6.6 mi (10.6 km) upstream from Dixon Creek, 12 mi (19 km) northwest of Camden, and at mile 142.25 (228.88 km).

DRAINAGE AREA.--20,700 mi^2 (53,600 km^2).

PERIOD OF RECORD.--November 1968 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. November 1968 to September 1971 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 19.00 ft (5.791 m) above National Geodetic Vertical Datum of 1929.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 62.3 ft (18.98 m) Apr. 20, 1979; minimum, 10.5 ft (3.20 m) Sept. 2, 3, 4, 1969.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 62.3 ft (18.98 m) Apr. 20; minimum, 14.2 ft (4.33 m) Oct. 9.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.70	14.70	15.20	15.40	25.40	47.10	24.20	51.10	28.80	14.50	18.80	15.70
2	14.70	14.90	15.00	23.40	23.60	43.20	22.40	48.30	38.10	15.40	16.60	15.90
3	15.00	15.00	15.30	27.00	24.20	37.80	36.50	42.30	39.40	15.40	17.80	15.30
4	14.80	14.90	14.90	30.10	24.30	46.30	50.30	34.20	34.50	15.20	16.20	15.10
5	14.90	15.10	15.10	29.20	26.00	55.40	55.10	27.80	29.60	15.30	15.60	15.90
6	14.90	15.30	19.40	25.80	23.60	57.40	57.00	26.50	29.50	15.20	15.30	16.10
7	14.50	15.10	22.60	24.10	31.90	58.60	58.10	26.80	26.40	16.40	16.50	17.30
8	14.30	15.00	16.10	26.60	36.20	59.70	58.20	27.60	27.30	17.30	15.60	15.70
9	14.20	14.80	15.30	26.40	36.00	60.10	58.10	25.20	23.60	16.00	15.50	15.60
10	14.80	14.80	21.90	28.10	33.90	59.90	56.60	24.20	23.90	15.80	15.60	15.70
11	15.00	15.30	15.70	28.00	30.10	59.30	54.20	25.30	19.90	16.50	15.50	15.60
12	15.00	15.20	15.50	26.80	28.60	57.70	50.20	25.90	17.60	23.40	15.60	15.40
13	15.00	15.40	16.10	25.40	24.40	55.60	46.80	28.70	16.20	18.50	15.60	15.80
14	15.10	15.30	15.10	23.30	22.80	53.00	48.40	27.20	16.00	16.70	15.50	15.80
15	15.20	15.30	15.20	23.30	23.00	49.50	52.10	26.60	15.70	17.60	15.70	16.30
16	14.40	15.20	15.40	22.80	23.10	46.20	56.60	26.50	15.60	15.50	15.40	15.50
17	14.80	15.20	15.20	22.80	23.20	43.50	59.20	25.80	15.60	15.50	15.40	15.40
18	14.60	15.20	15.50	16.30	24.30	39.10	61.00	23.60	15.40	15.80	15.40	15.30
19	14.90	15.30	15.10	17.20	23.70	35.30	61.80	25.10	15.40	16.70	15.30	15.60
20	14.80	15.20	15.20	20.60	23.80	32.70	62.30	23.20	15.50	20.30	15.40	16.50
21	14.80	15.10	15.30	30.40	25.10	29.60	62.20	17.20	15.50	18.80	15.80	19.30
22	14.90	15.10	15.50	40.10	30.80	28.70	61.50	17.10	16.50	15.90	16.70	15.70
23	15.20	15.10	15.20	41.70	30.90	29.80	59.60	16.20	15.50	15.60	15.20	15.80
24	15.20	15.10	15.40	42.30	34.80	33.50	56.40	22.30	15.50	22.00	15.50	15.70
25	15.20	15.00	15.70	42.30	45.00	34.90	52.00	17.90	15.50	23.40	15.80	15.70
26	15.30	15.00	15.40	39.30	47.10	32.80	47.60	17.90	15.40	27.60	15.70	15.20
27	15.10	15.20	16.60	37.70	48.30	28.00	46.30	16.60	16.10	29.60	15.60	15.40
28	15.10	15.20	16.00	36.30	48.60	27.20	49.50	16.60	15.90	31.10	16.10	22.90
29	14.80	15.10	17.60	33.50	---	25.00	50.50	15.60	15.80	28.70	17.20	34.90
30	14.70	15.20	16.40	30.40	---	26.60	51.00	16.90	16.10	22.70	15.90	39.90
31	14.70	---	21.90	26.00	---	26.90	---	22.60	---	16.40	16.50	---
MEAN	14.86	15.11	16.32	28.47	30.10	42.59	52.19	25.45	20.73	18.86	15.95	17.53
MAX	15.30	15.40	22.60	42.30	48.60	60.10	62.30	51.10	39.40	31.10	18.80	39.90
MIN	14.20	14.70	14.90	15.40	22.80	25.00	22.40	15.60	15.40	14.50	15.20	15.10

CAL YR 1978 MEAN 20.45 MAX 54.10 MIN 13.80
WTR YR 1979 MEAN 24.79 MAX 62.30 MIN 14.20

02427700 TURKEY CREEK AT KIMBROUGH, AL

LOCATION.--Lat 32°01'15", long 87°33'30", in SE¼ sec. 10, T. 12 N., R. 5 E., Wilcox County, Hydrologic Unit 03150203, on right bank on upstream side of bridge on county road, 0.3 mi (0.5 km) upstream from Southern Railway bridge, 0.6 mi (1.0 km) downstream from State Highway 5, 1 mi (2 km) south of Kimbrough, and 2 mi (3 km) upstream from mouth.

DRAINAGE AREA.--114 mi^2 (295 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 58.78 ft (17.916 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge record fair.

AVERAGE DISCHARGE.--21 years, 143 ft^3/s (4.050 m^3/s), 17.03 in/yr (433 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,600 ft^3/s (1,120 m^3/s) Dec. 10, 1961, gage height, 25.02 ft (7.626 m); minimum, no flow Sept. 25, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	1500	2650	75.0	10.97	3.344	Apr. 4	0500	6170	175	18.27	5.569
Mar. 4	1100	*20000	566	*23.37	7.123						

Minimum daily discharge, 1.5 ft^3/s (0.042 m^3/s) Oct. 7-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.0	34	133	107	250	80	83	62	26	19	15
2	1.9	3.2	23	459	92	191	146	75	50	16	16	10
3	1.8	3.2	18	113	125	1230	4070	66	51	12	13	12
4	1.7	3.4	64	67	253	11400	5920	61	188	11	23	16
5	1.6	3.4	78	52	173	3460	3360	100	93	9.8	19	15
6	1.6	3.4	41	47	618	1000	600	74	55	9.0	13	12
7	1.5	3.6	29	155	1150	300	400	61	42	109	10	9.8
8	1.5	4.0	28	130	301	230	300	55	35	43	9.4	8.6
9	1.5	5.8	78	73	189	210	450	52	30	208	8.2	7.4
10	1.5	5.8	67	56	148	1300	350	50	26	78	7.8	6.7
11	1.5	6.1	39	50	131	500	250	47	26	64	15	6.1
12	1.8	6.1	30	49	119	300	200	60	23	138	61	6.1
13	1.9	6.4	26	53	110	200	270	459	20	56	41	146
14	2.2	6.4	23	49	103	160	310	245	18	39	20	162
15	2.6	6.1	22	43	98	140	210	117	16	32	13	47
16	2.6	5.8	22	40	90	120	150	80	15	26	11	28
17	2.4	8.2	22	38	82	110	130	63	14	21	9.0	32
18	2.4	23	23	37	194	102	110	53	13	29	8.2	37
19	2.6	19	22	37	221	97	100	47	13	26	7.8	32
20	2.6	17	22	695	167	93	100	46	12	58	7.4	26
21	2.6	11	28	880	326	91	110	42	12	58	8.2	39
22	2.6	11	32	187	197	87	120	37	11	38	11	43
23	2.4	14	27	166	352	485	150	42	12	31	7.8	31
24	2.6	14	36	395	2410	261	200	58	29	49	28	24
25	2.8	15	43	163	1600	142	300	44	21	41	18	21
26	2.6	16	34	126	1100	113	600	35	17	49	13	19
27	2.8	42	29	472	600	100	260	31	14	51	36	26
28	2.8	42	26	247	400	96	150	29	12	41	26	40
29	3.0	33	25	147	---	85	120	28	12	64	18	30
30	3.0	57	30	121	---	80	90	78	42	33	12	23
31	3.0	---	38	128	---	79	---	50	---	23	18	---
TOTAL	69.4	397.9	1059	5408	11456	23012	19606	2368	984	1488.8	527.8	930.7
MEAN	2.24	13.3	34.2	174	409	742	654	76.4	32.8	48.0	17.0	31.0
MAX	3.0	57	78	880	2410	11400	5920	459	188	208	61	162
MIN	1.5	3.0	18	37	82	79	80	28	11	9.0	7.4	6.1
CFSM	.02	.12	.30	1.53	3.59	6.51	5.74	.67	.29	.42	.15	.27
IN.	.02	.13	.35	1.76	3.74	7.51	6.40	.77	.32	.49	.17	.30

CAL YR 1978 TOTAL 34595.0 MEAN 94.8 MAX 2530 MIN 1.2 CFSM .83 IN 11.29
WTR YR 1979 TOTAL 67307.6 MEAN 184 MAX 11400 MIN 1.5 CFSM 1.61 IN 21.96

02427700 TURKEY CREEK AT KIMBROUGH, AL--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, 1969, and 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
11...	1155	1.5	141	--	20.0	--
NOV						
14...	1030	8.0	166	7.2	14.0	7.9
JAN						
05...	1225	53	81	--	5.0	--
FEB						
13...	1215	110	85	--	9.0	--
MAR						
28...	1220	92	85	--	16.5	--
APR						
13...	0900	1300	89	7.0	19.0	8.5
MAY						
09...	1205	51	100	--	22.5	--
JUN						
20...	1105	11	113	--	27.0	--
JUL						
31...	1230	23	94	--	28.5	--

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
NOV											
14...	51	0	15	3.1	11	31	.7	2.3	72	0	59
APR											
13...	31	11	9.2	1.9	4.2	22	.3	1.3	24	0	20

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)
NOV											
14...	7.3	3.7	9.5	.0	12	93	.13	2.01	.00	.00	<1
APR											
13...	3.8	9.5	4.0	.0	15	58	.08	204	.02	.09	ND

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV											
14...	50	<1	1	1	570	1	66	.2	ND	210	40
APR											
13...	90	1	ND	8	680	4	15	2.0	ND	120	10

MOBILE RIVER MAIN STEM

02428400 ALABAMA RIVER AT CLAIBORNE LOCK AND DAM, NEAR MONROEVILLE, AL

LOCATION.--Lat 31°36'40", long 87°33'10", in SE¼ sec. 34, T. 8 N., R. 5 E., Monroe County, Hydrologic Unit 03150204, just upstream from Claiborne lock and dam, 3.5 mi (5.6 km) upstream from Flat Creek, 3.8 mi (6.1 km) downstream from Silver Creek, 15 mi (24 km) northwest of Monroeville, and at mile 81.9 (131.8 km).

DRAINAGE AREA.--21,500 mi^2 (55,700 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 19.00 ft (2.438 m) National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 216,000 ft^3/s (6,120 m^3/s) Apr.22, 1979, maximum gage height, 55.45 ft (16.901 m) Apr. 23, 1979, minimum, 6,050 5,630 ft^3/s (159 m^3/s) Oct. 30, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 216,000 ft^3/s (6,120 m^3/s) Apr. 22, 1979, maximum gage height, 55.45 ft (16.901 m) Apr. 23, minimum daily, 5,630 ft^3/s (159 m^3/s) Oct. 30.

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7060	6500	15700	18400	35000	136000	35300	130000	40000	11400	22100	17500
2	6980	6480	10700	36700	32600	110000	30100	131000	86200	10000	20900	15700
3	7780	6480	9580	51900	33700	93800	89100	117000	90000	10900	23000	12600
4	7860	6660	10100	66000	42300	107000	119000	102000	79000	9790	16500	12900
5	7170	6460	18000	59300	42900	119000	124000	56700	61700	10800	14400	20700
6	7750	6630	25500	36700	38100	140000	136000	46200	53900	11800	14600	22800
7	7710	6420	27600	38200	79200	150000	149000	46100	42300	13700	17900	24100
8	7600	6400	19300	45200	84600	170000	156000	47800	41300	17900	14900	18800
9	6850	6410	14900	49700	78900	180000	157000	39500	34000	19600	15200	16000
10	6470	6540	28500	55700	77500	190000	159000	34900	32400	17700	15100	13000
11	7010	6630	21800	55000	58400	190000	159000	38000	25000	20800	12400	10800
12	6510	6660	20400	47800	46700	190000	151000	42100	21600	29400	10300	15800
13	6250	6530	20100	37200	34500	180000	143000	52900	22800	24700	11600	17700
14	6480	6510	13000	29900	28900	170000	135000	48100	20800	16200	11600	15200
15	6520	6540	13100	28900	29600	160000	143000	44400	16400	15800	13600	10800
16	7440	6370	11200	28600	29700	140000	151000	43500	14000	12400	11600	7900
17	6500	6600	9650	28600	29600	120000	160000	39300	11400	13700	15100	7940
18	6590	6640	11100	21100	31800	110000	180000	32300	10700	16000	10100	9810
19	6390	6630	10300	21900	35600	90400	190000	34600	10500	18500	8560	13600
20	6420	6570	10100	29100	34300	64700	200000	26800	13300	24900	12100	15900
21	7570	6640	12100	73600	50600	49200	210000	12900	14400	21900	15200	25000
22	6580	6930	13700	96700	68800	48500	215000	12800	15600	16200	21700	15400
23	6500	6630	12200	99200	73200	59000	210000	17200	12200	19000	12800	12500
24	6700	6510	10400	102000	82500	76700	200000	26200	9650	29900	11300	13000
25	6710	6550	13300	107000	101000	79200	170000	20300	11000	33200	10300	12800
26	6670	6630	10300	105000	121000	58800	150000	17600	15900	49500	9620	15500
27	6510	10100	18600	89900	136000	46200	125000	13700	21700	56900	10800	15200
28	6660	15300	21700	88300	142000	41100	125000	14700	16100	61200	16300	29200
29	6460	15700	23300	79500	---	35200	128000	14000	14900	44500	24400	64200
30	5630	16700	22200	59400	---	43200	128000	21600	14800	28400	20100	80000
31	6350	---	22300	39900	---	47000	---	33300	---	20500	21300	---
TOTAL	211680	228350	500730	1726400	1679000	3395000	4427500	1357500	873550	707190	465380	582350
MEAN	6828	7612	16150	55690	59960	109500	147600	43790	29120	22810	15010	19410
MAX	7860	16700	28500	107000	142000	190000	215000	131000	90000	61200	24400	80000
MIN	5630	6370	9580	18400	28900	35200	30100	12800	9650	9790	8560	7900
CFSM	.32	.35	.75	2.59	2.79	5.09	6.87	2.04	1.35	1.06	.70	.90
IN.	.37	.40	.87	2.99	2.91	5.87	7.66	2.35	1.51	1.22	.81	1.01

CAL YR 1978 TOTAL 10114070 MEAN 27710 MAX 128000 MIN 5630 CFSM 1.29 IN 17.50
WTR YR 1979 TOTAL 16154630 MEAN 44260 MAX 215000 MIN 5630 CFSM 2.06 IN 27.95

MOBILE RIVER MAIN STEM

02428401 ALABAMA RIVER BELOW CLAIBORNE LOCK AND DAM, NEAR MONROEVILLE, AL

LOCATION.--Lat 31°36'40", long 87°33'10", in SE¼ sec. 34, T. 8 N., R. 5 E., Monroe County, Hydrologic Unit 03150204, at downstream end of Claiborne lock and dam, 3.4 mi (5.5 km) upstream from Flat Creek, 3.7 mi (6.0 km) downstream from Silver Creek, 15 mi (24 km) northwest of Monroeville, and at mile 81.8 (131.6 km).

DRAINAGE AREA.--21,500 mi^2 (55,800 km^2).

PERIOD OF RECORD.--December 1969 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. December 1969 to September 1971 in files of the Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 8.00 ft (2.438 m) below National Geodetic Vertical Datum of 1929.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 61.2 ft (18.65 m) Apr. 6, 7, 1976. Mar. 12, 1979; minimum, 15.8 ft (4.82 m) Oct. 30, 1978.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 61.2 ft (18.65 m) Mar. 12; minimum, 15.8 ft (4.82 m) Oct. 30.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.80	16.60	23.60	22.50	26.60	52.10	33.60	54.00	33.10	22.20	27.00	25.70
2	16.80	16.40	21.70	28.20	32.30	51.80	30.40	54.10	41.10	20.40	26.60	24.30
3	17.10	16.40	20.10	31.60	31.70	50.20	35.30	53.00	44.00	19.90	27.10	22.70
4	17.50	16.70	19.30	35.60	32.30	50.30	49.30	49.50	44.10	20.30	26.20	20.80
5	17.20	16.60	20.10	36.70	34.20	53.50	53.10	44.00	40.40	19.90	24.20	23.60
6	16.50	16.70	26.20	34.50	32.70	55.70	55.50	38.30	37.90	20.20	22.70	25.60
7	17.20	16.90	27.60	31.10	37.00	57.40	57.00	35.40	35.60	20.60	23.80	25.70
8	17.20	17.00	27.00	33.20	42.40	58.60	58.00	35.80	34.10	23.80	24.00	25.10
9	17.20	16.60	23.30	33.60	43.20	59.60	58.90	33.90	31.70	25.30	23.30	24.50
10	16.40	16.50	25.60	34.90	42.10	60.50	59.30	32.20	31.80	23.80	22.90	23.00
11	16.40	16.50	26.70	35.00	41.00	61.10	59.10	31.50	29.10	25.60	23.60	22.00
12	16.60	16.80	25.00	34.80	37.60	61.20	58.20	32.90	28.10	28.00	21.60	21.10
13	16.70	16.60	25.40	33.90	35.00	60.20	56.60	34.70	26.60	29.30	22.20	24.70
14	16.90	16.80	23.60	31.00	31.50	59.50	54.70	35.60	24.70	26.30	22.30	25.00
15	16.80	17.00	21.90	30.10	30.50	58.00	54.00	34.20	24.60	25.70	22.40	24.80
16	17.80	16.70	21.60	29.80	30.00	56.70	54.70	33.60	24.20	24.60	22.80	21.60
17	16.50	16.80	20.40	29.30	29.90	54.10	56.00	33.60	22.70	23.00	20.90	20.50
18	16.70	16.90	19.70	27.50	29.80	51.60	57.80	31.20	22.10	22.70	22.50	20.00
19	16.70	16.80	20.40	26.20	30.30	48.40	57.80	30.50	21.40	24.80	19.40	20.90
20	16.60	16.90	19.50	26.70	30.50	45.50	53.30	31.00	21.50	27.00	18.70	22.20
21	16.50	16.90	20.30	33.10	31.10	41.90	54.40	25.90	22.90	27.40	23.20	25.80
22	16.60	16.70	20.90	42.50	36.50	38.30	55.00	24.20	23.40	26.40	25.00	25.80
23	16.80	16.70	21.50	45.30	37.90	37.70	55.00	28.20	22.70	25.00	23.90	22.70
24	16.70	16.60	20.30	46.90	42.50	39.70	54.50	28.40	21.10	27.10	21.50	22.10
25	16.80	16.70	21.80	48.50	47.00	42.10	50.00	28.20	20.20	29.50	20.00	21.60
26	16.80	16.60	20.70	47.40	49.40	41.80	49.50	26.40	22.10	32.60	19.50	22.40
27	16.90	16.80	21.20	46.50	50.50	38.80	56.00	25.70	24.70	34.80	19.30	22.60
28	16.80	20.10	24.60	45.80	51.70	36.50	54.10	23.90	24.50	37.60	20.60	27.00
29	16.60	22.30	25.70	44.30	---	33.80	53.70	24.10	23.10	37.50	25.20	34.80
30	15.80	23.60	26.00	42.40	---	33.60	53.80	26.30	22.80	32.00	25.30	42.10
31	16.40	---	26.80	37.60	---	34.30	---	27.70	---	28.60	25.10	---
MEAN	16.78	17.24	22.85	35.69	36.69	49.18	52.95	33.81	28.21	26.19	22.99	24.36
MAX	17.80	23.60	27.60	48.50	51.70	61.20	59.30	54.10	44.10	37.60	27.10	42.10
MIN	15.80	16.40	19.30	22.50	26.60	33.60	30.40	23.90	20.20	19.90	18.70	20.00

CAL YR 1978 MEAN 25.90 MAX 55.20 MIN 15.80
WTR YR 1979 MEAN 30.53 MAX 61.20 MIN 15.80

02429500 ALABAMA RIVER AT CLAIBORNE, AL
(National stream-quality accounting network station)

LOCATION.--Lat 31°32'48", long 87°30'45", in sec. 25, T. 7 N., R. 5 E., Monroe County, Hydrologic Unit 03150204, near left bank on downstream side of bridge on U.S. Highway 84 at Claiborne, 0.5 mi (0.8 km) downstream from Limestone Creek, 12 mi (19 km) west of Monroeville, and at mile 76.1 (122.4 km).

DRAINAGE AREA.--22,000 mi^2 (57,000 km^2), approximately.

PERIOD OF RECORD.--March 1966 to September 1968, October 1969 to current year.

PERIOD OF DAILY RECORD.--
CHEMICAL ANALYSES: March 1966 to September 1968.
SPECIFIC CONDUCTANCE: March 1966 to September 1968, May 1974 to current year.
WATER TEMPERATURES: March 1966 to September 1968, May 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1974.

REMARKS.--Miscellaneous samples of chemical data published for water year 1965. No specific conductance Oct. 24, Mar. 22-Apr. 9, June 17-20, 29-Aug. 1, Aug. 5-Sept. 18, Sept. 21-30, or temperature data for Mar. 22-Apr. 9,June Z9-Aug. 1, Aug. 5-Sept. 18, Sept. 21-30 due to recorder malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: (Water years 1966-68, 1978). Maximum daily, 255 micromhos Oct. 22, 1977; minimum daily, 66 micromhos Mar. 10, 1966.
WATER TEMPERATURES: Maximum (water years 1966-68, 1979), 31.5°C July 14-19, 1978; minimum (water years 1967-68, 1975-78), 4.0°C Jan. 17-18, Feb. 24-25, Mar. 1, 1968.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 5.0°C Feb. 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
17...	1230	7250	150	7.4	22.0	8.0	8.1	1	7	54	2
NOV											
14...	1100	6600	160	7.8	19.0	10	9.2	12	4	50	2
DEC											
19...	1015	10300	165	7.6	13.0	10	10.9	--	4	53	3
JAN											
11...	1100	55000	176	7.4	8.0	10	10.2	240	450	53	3
FEB											
08...	1200	29000	104	7.2	6.5	40	11.3	81	940	39	8
MAR											
13...	1200	180000	74	7.5	7.0	50	10.4	570	570	28	2
APR											
10...	1130	159000	78	7.2	17.0	45	7.3	92	140	28	7
MAY											
02...	1030	131000	71	7.3	18.5	45	7.5	100	66	28	6
JUN											
28...	1315	16100	103	7.4	26.5	17	8.8	14	--	41	9
JUL											
24...	1030	30000	106	7.3	27.5	20	7.0	--	18	38	5
AUG											
22...	1115	217000	119	7.0	29.0	15	7.7	140	160	44	0
SEP											
19...	1015	13600	126	7.1	26.5	15	8.1	60	24	44	7

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
OCT											
17...	15	4.0	8.9	26	.5	11	1.7	63	0	52	4.0
NOV											
14...	14	3.7	11	31	.7	13	2.0	58	0	48	1.5
DEC											
19...	15	3.7	11	30	.7	13	2.0	61	0	50	2.5
JAN											
11...	14	4.5	10	28	.6	12	1.9	62	0	51	3.9
FEB											
08...	12	2.1	4.3	19	.3	5.7	1.4	38	0	31	3.8
MAR											
13...	8.7	1.6	3.0	18	.2	4.4	1.4	32	0	26	1.6
APR											
10...	8.7	1.5	2.5	16	.2	3.8	1.3	26	0	21	2.6
MAY											
02...	8.3	1.7	2.6	16	.2	3.8	1.2	27	0	22	2.2
JUN											
28...	12	2.6	6.0	24	.4	7.2	1.2	39	0	32	2.5
JUL											
24...	11	2.6	6.0	25	.4	7.3	1.3	40	0	33	3.2
AUG											
22...	13	2.9	7.5	26	.5	9.0	1.5	54	0	44	8.6
SEP											
19...	12	3.3	8.5	29	.6	10	1.5	45	0	37	5.7

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)
OCT											
17...	9.3	8.6	.1	5.4	83	85	.11	1630	.17	.02	--
NOV											
14...	11	11	.1	5.7	89	87	.12	1590	.30	.03	--
DEC											
19...	10	9.7	.1	5.7	88	89	.12	2450	.32	.09	--
JAN											
11...	11	9.5	.1	6.8	97	90	.13	14400	.35	.05	--
FEB											
08...	9.4	4.5	.1	7.3	--	62	.08	4860	.33	.05	--
MAR											
13...	6.1	2.5	.0	5.8	--	46	.06	22400	.20	.03	--
APR											
10...	5.4	3.6	.0	5.6	--	42	.06	18000	.20	.06	--
MAY											
02...	5.3	2.5	.1	6.1	--	42	.06	14900	.22	.03	.04
JUN											
28...	7.9	5.7	.1	6.3	--	61	.08	2650	.20	.03	.04
JUL											
24...	8.3	5.9	.1	6.2	64	62	.09	5180	.27	.03	.04
AUG											
22...	8.3	6.7	.1	6.4	70	74	.10	41000	.19	.00	.00
SEP											
19...	7.7	7.7	.1	6.4	--	70	.10	2570	.21	.01	.01

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT 17...	.21	.23	.00	.24	.40	1.8	.03	--	.02
NOV 14...	.28	.31	.31	.00	.61	2.7	.03	--	.01
DEC 19...	.12	.21	.01	.20	.53	2.3	.07	--	.05
JAN 11...	.36	.41	.09	.32	.76	3.4	.08	--	.04
FEB 08...	.36	.41	.14	.27	.74	3.3	.09	--	.02
MAR 13...	.28	.31	.05	.26	.51	2.3	.09	--	.01
APR 10...	.47	.53	.17	.36	.73	3.2	.09	--	.02
MAY 02...	.25	.28	.08	.20	.50	2.2	.08	.25	.03
JUN 28...	.25	.28	.14	.14	.48	2.1	.06	.18	.02
JUL 24...	.24	.27	.21	.06	.54	2.4	.06	.18	.02
AUG 22...	.52	.52	.17	.35	.71	3.1	.04	.12	.01
SEP 19...	.37	.38	.11	.27	.59	2.6	.07	.21	.03

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
NOV 14...	1	1	100	0	100	--	0	--	<10	<10
JAN 11...	1	1	0	0	0	4	2	2	<10	<10
MAR 13...	1	0	0	0	0	4	0	4	10	10
MAY 02...	2	2	0	0	0	120	79	41	10	0
JUL 24...	2	2	--	0	30	2	1	1	10	0

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
NOV 14...	0	0	0	0	0	0	0	400	340	60
JAN 11...	0	1	1	0	4	3	1	1000	980	20
MAR 13...	0	0	0	0	4	1	3	3400	3200	190
MAY 02...	<10	2	2	0	46	39	7	3500	3400	130
JUL 24...	<10	0	0	0	2	2	0	820	740	80

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)
NOV									
14...	--	0	--	40	30	10	<.5	.0	<.5
JAN									
11...	28	17	11	90	80	10	<.5	.0	<.5
MAR									
13...	--	1	--	70	50	20	<.5	.0	.5
MAY									
02...	110	100	7	110	100	10	<.5	.0	<.5
JUL									
24...	2	2	0	70	70	2	<.5	.0	<.5

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV									
14...	0	0	0	0	0	0	10	10	0
JAN									
11...	0	0	0	0	0	0	20	10	10
MAR									
13...	0	0	0	0	0	0	60	50	10
MAY									
02...	0	0	0	0	0	0	60	60	0
JUL									
24...	0	0	0	0	0	0	40	30	10

DATE	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
NOV										
14...	--	<1.2	<.4	--	2.4	<.4	2.3	<.4	.06	.07
MAR										
13...	<.5	<.8	<.6	<.4	1.7	.7	1.6	.7	.06	.50
MAY										
02...	<.4	<.6	3.0	2.0	1.4	1.7	1.3	1.7	.03	.05

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
OCT								
17...	2.4	--	--	--	.079	.079	.080	.000
NOV								
14...	--	3.7	.7	2700	.079	.000	.000	.000
DEC								
19...	6.2	--	--	--	--	--	--	--
JAN								
11...	--	4.5	.9	--	--	--	--	--
FEB								
08...	5.2	--	--	--	--	--	--	--
MAR								
13...	--	12	.3	--	--	--	--	--
APR								
10...	5.0	--	--	--	--	--	--	--
MAY								
02...	--	3.8	.8	920	--	--	--	--
JUN								
28...	4.7	--	--	4600	--	--	--	--
JUL								
24...	--	6.7	.1	1100	.000	.000	.000	.000
AUG								
22...	4.6	--	--	1300	.080	.080	.060	.000
SEP								
19...	4.0	--	--	1300	.000	.000	.000	.000

DATE	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT				APR			
17...	9	176	96	10...	95	40800	76
NOV				MAY			
14...	12	214	99	02...	96	34000	73
DEC				JUN			
19...	5	139	94	28...	19	826	97
JAN				JUL			
11...	56	8320	80	24...	46	3730	89
FEB				AUG			
08...	93	7280	74	22...	36	21100	84
MAR				SEP			
13...	83	40300	74	19...	32	1180	--

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	JUL 19,78		AUG 22,78		SEP 19,78		NOV 14,78		MAY 2,79	
TIME	1100		1215		0930		1100		1030	
TOTAL CELLS/ML	8800		17000		1700		2700		920	
DIVERSITY: DIVISION	0.4		0.7		0.8		0.7		1.5	
.CLASS	0.4		0.7		0.8		0.8		1.5	
..ORDER	0.4		0.8		0.9		0.9		1.7	
...FAMILY	0.4		1.0		1.0		0.9		2.3	
....GENUS	1.2		1.7		1.0		1.0		2.9	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	44	1	--	-	--	-	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	180	1	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....MICRACTINIUM	--	-	--	-	--	-	--	-	28	3
...OOCYSTACEAE										
....ANKISTRODESMUS	67	1	89	1	--	-	--	-	28	3
....CHODATELLA	--	-	*	0	22	1	--	-	--	-
....DICTYOSPHAERIUM	--	-	350	2	--	-	--	-	--	-
....FRANCEIA	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	44	1	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	42	5
....SELENASTRUM	--	-	--	-	--	-	44	2	14	2
....TETRAEDRON	*	0	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	*	0	--	-	--	-	--	-
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	--	-	220#	24
....SCENEDESMUS	--	-	270	2	89	5	22	1	56	6
....TETRASTRUM	89	1	--	-	--	-	--	-	56	6
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	*	0	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	180	1	89	5	--	-	--	-
...VOLVOCACEAE										
....PLATYDORINA	--	-	710	4	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....ARTHRODESMUS	--	-	--	-	--	-	--	-	14	2
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	160	1	22	1	200	7	14	2
....MELOSIRA	110	1	290	2	66	4	89	3	84	9
....SKELETONEMA	44	1	--	-	--	-	--	-	--	-
..PENNALES										
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	--	-	14	2
...NAVICULACEAE										
....NAVICULA	--	-	*	0	--	-	44	2	--	-
...NITZSCHIACEAE										
....NITZSCHIA	*	0	--	-	--	-	--	-	42	5
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....OCHROMONAS	*	0	110	1	--	-	44	2	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	*	0	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	JUL 19,78		AUG 22,78		SEP 19,78		NOV 14,78		MAY 2,79	
TIME	1100		1215		0930		1100		1030	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	6200#	71	12000#	67	1400#	83	2300#	84	--	-
....ANACYSTIS	2100#	24	3200#	18	--	-	--	-	310#	33
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	JUN 28,79		JUL 24,79		AUG 22,79		SEP 19,79	
TIME	1315		1030		1115		1015	
TOTAL CELLS/ML	4600		1100		1300		1300	
DIVERSITY: DIVISION	0.9		1.5		1.2		0.8	
.CLASS	0.9		1.5		1.2		0.8	
..ORDER	1.7		2.0		1.3		1.2	
...FAMILY	1.7		2.3		1.4		1.3	
....GENUS	1.9		2.6		2.2		1.3	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	65	6	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	*	0	--	-	--	-	--	-
....CHODATELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....FRANCEIA	--	-	--	-	--	-	29	2
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	13	1	--	-	14	1
....TREUBARIA	--	-	13	1	26	2	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	210	4	--	-	--	-	--	-
....SCENEDESMUS	150	3	77	7	51	4	110	9
....TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	14	1
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-
...VOLVOCACEAE								
....PLATYDORINA	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....ARTHRODESMUS	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	270	6	100	10	77	6	14	1
....MELOSIRA	180	4	270#	26	190#	15	14	1
....SKELETONEMA	--	-	--	-	--	-	--	-
..PENNALES								
...FRAGILARIACEAE								
....SYNEDRA	*	0	--	-	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	--	-	14	1
...NITZSCHIACEAE								
....NITZSCHIA	*	0	26	2	26	2	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....OCHROMONAS	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE	JUN 28,79		JUL 24,79		AUG 22,79		SEP 19,79	
TIME	1315		1030		1115		1015	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	1100#	25	310#	29	--	-	1000#	77
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	510#	40	--	-
....OSCILLATORIA	2600#	56	180#	17	360#	28	86	6
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	26	1	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	26	2	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	142	138	140	151	143	148	160	151	157	177	170	173
2	144	137	141	153	145	150	162	149	156	177	166	172
3	145	139	142	154	146	151	159	158	158	170	153	161
4	145	140	143	156	146	152	160	158	159	167	160	163
5	147	141	144	159	149	154	164	151	158	168	151	160
6	148	143	146	157	149	153	165	153	158	169	160	164
7	150	142	147	157	153	154	155	149	151	168	160	163
8	152	143	148	161	157	159	149	147	148	169	160	165
9	154	144	150	161	152	157	160	147	155	180	165	170
10	153	145	150	160	151	156	163	149	155	184	172	178
11	152	147	150	161	153	158	166	152	160	180	175	178
12	153	147	151	163	156	160	163	147	156	176	170	172
13	153	148	151	165	158	162	165	148	157	173	169	171
14	154	150	152	168	160	165	174	165	168	180	170	175
15	156	148	153	162	157	160	175	160	166	182	171	177
16	156	148	152	161	157	159	163	159	161	185	177	181
17	156	149	152	160	157	159	169	162	165	186	169	176
18	157	148	153	160	155	159	171	159	166	168	164	166
19	158	148	154	161	155	158	170	165	167	167	164	165
20	156	147	153	159	154	157	167	163	165	169	145	159
21	157	146	153	162	155	159	170	161	164	156	146	151
22	156	147	152	162	154	159	173	163	169	164	143	153
23	153	143	149	161	155	160	173	168	171	163	131	148
24	---	---	---	163	157	160	168	163	166	132	124	129
25	151	144	148	165	158	162	169	157	166	129	123	126
26	149	143	147	167	163	165	174	164	171	128	121	124
27	150	143	147	168	165	167	175	171	173	120	114	117
28	148	142	146	171	167	169	183	171	177	118	109	114
29	149	141	146	171	164	167	181	174	178	121	113	117
30	148	144	147	165	158	161	177	170	174	130	121	124
31	149	142	146	---	---	---	171	168	169	145	131	138
MONTH	158	137	148	171	143	159	183	147	163	186	109	156

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	148	138	143	99	92	96	---	---	---	77	69	73
2	151	140	146	97	91	94	---	---	---	77	71	73
3	146	136	141	92	90	91	---	---	---	78	75	77
4	135	130	132	94	85	89	---	---	---	82	78	80
5	133	128	131	109	84	95	---	---	---	87	80	83
6	127	121	125	108	86	94	---	---	---	92	73	89
7	119	103	110	94	91	92	---	---	---	95	84	90
8	112	104	108	96	88	92	---	---	---	93	87	90
9	121	110	115	91	82	87	---	---	---	96	83	91
10	116	105	111	85	80	83	78	77	78	90	83	88
11	112	94	104	82	77	80	77	75	76	88	78	84
12	115	105	109	80	71	76	78	76	77	88	78	83
13	108	102	105	78	74	76	80	76	78	94	88	90
14	103	95	100	75	71	73	99	80	84	90	87	89
15	104	97	100	76	72	74	107	77	88	92	82	89
16	106	99	102	77	74	76	85	78	81	93	81	90
17	109	104	106	78	74	76	84	75	80	96	90	87
18	115	106	110	79	75	78	80	70	75	100	96	98
19	113	101	107	90	76	81	73	65	69	101	97	99
20	107	103	105	100	82	90	68	62	66	106	97	101
21	103	95	99	88	85	87	66	62	64	113	93	105
22	106	100	104	---	---	---	64	62	63	113	91	97
23	108	101	105	---	---	---	65	63	64	108	92	100
24	108	98	104	---	---	---	68	65	66	98	86	89
25	120	102	108	---	---	---	72	68	69	88	85	86
26	121	107	115	---	---	---	74	71	72	90	80	85
27	107	98	103	---	---	---	82	75	77	99	85	88
28	104	98	101	---	---	---	84	76	79	89	85	87
29	---	---	---	---	---	---	88	78	82	89	82	86
30	---	---	---	---	---	---	80	73	77	85	79	82
31	---	---	---	---	---	---	---	---	---	84	79	77
MONTH	151	94	112	109	71	85	107	62	75	113	69	88

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	85	75	74				---	---	---	---	---	---
2	97	83	88				198	183	189	---	---	---
3	97	82	88				228	208	220	---	---	---
4	96	75	88				230	175	222	---	---	---
5	99	84	93				---	---	---	---	---	---
6	100	90	97				---	---	---	---	---	---
7	100	92	95				---	---	---	---	---	---
8	100	89	91				---	---	---	---	---	---
9	97	90	93				---	---	---	---	---	---
10	98	103	97				---	---	---	---	---	---
11	100	97	99				---	---	---	---	---	---
12	104	92	100				---	---	---	---	---	---
13	106	97	101				---	---	---	---	---	---
14	102	99	101				---	---	---	---	---	---
15	103	100	102				---	---	---	---	---	---
16	103	94	100				---	---	---	---	---	---
17	---	---	---				---	---	---	---	---	---
18	---	---	---				---	---	---	---	---	---
19	---	---	---				---	---	---	117	101	106
20	---	---	---				---	---	---	118	116	117
21	111	94	102				---	---	---	---	---	---
22	111	98	107				---	---	---	---	---	---
23	116	105	110				---	---	---	---	---	---
24	107	101	104				---	---	---	---	---	---
25	109	101	106				---	---	---	---	---	---
26	106	92	104				---	---	---	---	---	---
27	105	102	104				---	---	---	---	---	---
28	107	103	105				---	---	---	---	---	---
29	---	---	---				---	---	---	---	---	---
30	---	---	---				---	---	---	---	---	---
31	---	---	---				---	---	---	---	---	---
MONTH	116	75	98				230	175	210	118	101	112

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	27.5	26.5	27.0	21.5	21.0	21.0	23.5	23.0	23.0	12.0	11.5	11.5
2	27.0	26.5	26.5	21.5	20.5	21.0	23.0	22.5	23.0	11.5	11.0	11.5
3	26.5	26.0	26.5	21.0	20.5	21.0	23.0	22.5	23.0	11.0	10.0	10.5
4	26.5	26.0	26.5	21.0	20.0	20.5	23.0	22.5	23.0	10.0	9.5	10.0
5	26.5	25.5	26.0	20.5	20.0	20.5	22.5	21.5	22.0	9.5	9.0	9.5
6	26.0	25.5	26.0	20.5	20.0	20.0	21.5	21.0	21.5	9.5	9.0	9.0
7	25.5	25.0	25.5	20.0	20.0	20.0	21.5	21.0	21.0	9.5	9.0	9.5
8	25.0	24.5	25.0	20.0	19.0	19.5	22.0	21.5	21.5	9.5	9.5	9.5
9	24.5	24.0	24.5	19.5	19.0	19.5	22.0	21.0	21.5	9.5	8.5	9.0
10	24.5	24.0	24.0	19.5	19.0	19.0	21.0	20.0	20.5	8.5	8.0	8.0
11	24.5	23.5	24.0	19.5	18.5	19.0	20.0	18.5	19.0	8.5	8.0	8.0
12	24.5	23.5	24.0	19.5	18.5	19.0	18.5	18.0	18.5	8.5	8.0	8.5
13	24.5	23.5	24.0	19.0	18.5	19.0	18.0	17.5	17.5	8.5	8.0	8.0
14	24.0	23.0	23.5	19.0	18.5	19.0	17.5	17.0	17.0	8.5	8.5	8.5
15	23.0	22.5	22.5	27.5	27.0	27.0	17.0	16.5	17.0	8.5	8.0	8.0
16	23.0	22.5	22.5	27.5	27.0	27.0	17.0	16.5	16.5	8.0	7.5	8.0
17	22.5	21.5	21.5	27.5	27.0	27.5	17.0	16.5	16.5	7.5	7.5	7.5
18	21.5	21.0	21.5	27.0	27.0	27.0	16.5	16.0	16.0	8.0	8.0	8.0
19	21.5	21.0	21.0	27.0	26.5	26.5	16.5	12.5	14.5	8.5	8.0	8.0
20	21.5	20.5	21.0	26.5	26.0	26.5	13.0	12.5	13.0	9.5	8.5	9.0
21	21.0	20.5	20.5	26.5	26.0	26.0	13.0	13.0	13.0	9.5	9.0	9.0
22	21.0	20.0	20.5	26.5	25.5	26.0	13.0	12.5	12.5	9.0	8.0	8.5
23	21.0	20.0	20.5	26.0	25.5	26.0	12.5	12.5	12.5	9.0	8.5	9.0
24	21.0	---	---	26.0	25.5	26.0	12.5	12.5	12.5	8.5	8.5	8.5
25	21.0	20.0	20.5	25.5	25.0	25.5	12.5	11.5	12.0	8.5	7.5	8.0
26	21.0	20.5	21.0	25.0	25.0	25.0	12.0	11.5	11.5	7.5	7.0	7.5
27	21.5	20.5	21.0	25.0	25.0	25.0	11.5	11.5	11.5	7.0	7.0	7.0
28	21.5	21.0	21.0	25.0	24.5	24.5	11.5	11.0	11.5	7.0	6.5	7.0
29	21.5	20.5	21.0	24.5	24.0	24.0	11.0	11.0	11.0	7.0	6.5	6.5
30	21.5	21.0	21.0	24.0	23.5	23.5	11.0	11.0	11.0	6.5	6.5	6.5
31	21.5	21.0	21.0	---	---	---	11.5	11.0	11.0	6.5	6.5	6.5
MONTH	27.5	20.0	23.0	27.5	18.5	23.0	23.5	11.0	16.5	12.0	6.5	8.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.5	6.0	6.5	7.0	6.5	7.0	---	---	---	18.5	18.0	18.5
2	6.5	5.5	6.0	7.0	6.5	6.5	---	---	---	19.0	18.5	18.5
3	6.5	6.0	6.0	7.0	7.0	7.0	---	---	---	19.0	18.5	18.5
4	6.5	6.5	6.5	8.5	7.0	7.5	---	---	---	19.5	19.0	19.0
5	7.0	6.5	7.0	9.0	8.0	8.5	---	---	---	19.5	19.0	19.5
6	7.0	6.5	6.5	9.0	8.5	8.5	---	---	---	20.0	19.5	20.0
7	6.5	6.5	6.5	8.5	8.0	8.0	---	---	---	20.5	20.0	20.0
8	7.0	6.5	6.5	8.0	7.5	7.5	---	---	---	21.5	21.0	21.0
9	6.5	6.0	6.5	8.0	7.5	7.5	---	---	---	21.5	20.5	21.0
10	6.0	5.5	6.0	8.0	7.5	7.5	17.0	17.0	17.0	22.0	22.0	21.5
11	6.0	5.0	5.5	7.5	7.5	7.5	17.0	17.0	17.0	22.0	21.5	22.0
12	6.0	5.5	5.5	7.5	7.0	7.0	17.5	17.0	17.5	22.5	22.0	22.0
13	7.5	5.5	6.0	7.0	7.0	7.0	17.5	17.5	17.5	22.5	22.0	22.0
14	6.0	6.0	6.0	8.0	8.0	8.0	18.0	17.5	17.5	22.0	21.5	21.5
15	6.5	6.0	6.5	9.0	8.5	9.0	18.0	17.5	17.5	22.0	21.5	22.0
16	7.0	6.5	6.5	9.5	9.5	9.5	18.0	17.5	18.0	22.5	22.0	22.0
17	7.0	6.5	6.5	10.5	10.0	10.5	18.0	---	---	22.5	22.0	22.5
18	6.5	6.5	6.5	11.5	11.0	11.5	18.0	18.0	18.0	22.5	22.5	22.5
19	6.5	6.0	6.0	13.0	12.5	12.5	18.0	18.0	18.0	23.0	22.5	22.5
20	6.0	6.0	6.0	14.0	13.5	14.0	18.0	18.0	18.0	23.5	22.5	23.5
21	6.5	6.0	6.0	15.0	15.0	15.0	18.0	18.0	18.0	23.5	23.5	23.5
22	6.5	6.0	6.5	---	---	---	18.0	18.0	18.0	23.5	23.0	22.5
23	7.0	6.5	6.5	---	---	---	18.5	18.0	18.0	23.0	21.5	23.0
24	7.5	7.0	7.0	---	---	---	18.5	18.0	18.5	23.0	22.5	23.0
25	7.5	7.5	7.5	---	---	---	18.5	18.5	18.5	23.0	22.5	22.5
26	7.5	7.5	7.5	---	---	---	18.5	18.0	18.5	23.0	22.5	22.5
27	7.5	7.0	7.0	---	---	---	18.5	18.5	18.5	22.5	21.0	22.0
28	7.0	6.5	7.0	---	---	---	18.5	18.5	18.5	23.0	21.5	21.0
29	---	---	---	---	---	---	18.5	18.5	18.5	23.0	23.5	23.0
30	---	---	---	---	---	---	18.5	18.0	18.5	23.5	23.0	23.0
31	---	---	---	---	---	---	---	---	---	23.5	23.0	23.0
MONTH	7.5	5.0	6.5	15.0	6.5	9.0	18.5	17.0	18.0	23.5	18.0	21.5

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.5	22.5	23.0				---	---	---	---	---	---
2	24.0	23.5	24.0				29.5	29.5	29.5	---	---	---
3	23.5	23.0	23.5				29.5	29.0	29.0	---	---	---
4	23.5	23.5	23.5				31.5	28.5	29.5	---	---	---
5	24.0	23.0	23.5				---	---	---	---	---	---
6	24.5	24.0	24.0				---	---	---	---	---	---
7	25.0	25.0	22.5				---	---	---	---	---	---
8	25.0	25.0	25.0				---	---	---	---	---	---
9	26.0	25.5	26.0				---	---	---	---	---	---
10	25.5	25.5	26.0				---	---	---	---	---	---
11	26.0	25.5	25.5				---	---	---	---	---	---
12	26.0	25.5	25.5				---	---	---	---	---	---
13	25.5	25.0	25.5				---	---	---	---	---	---
14	25.5	25.0	25.5				---	---	---	---	---	---
15	25.5	25.0	25.5				---	---	---	---	---	---
16	25.5	25.0	25.0				---	---	---	---	---	---
17	25.0	22.5	24.0				---	---	---	---	---	---
18	24.0	21.0	22.0				---	---	---	---	---	---
19	23.5	20.0	21.0				---	---	---	26.5	23.5	24.0
20	26.5	20.0	23.0				---	---	---	24.0	24.0	24.0
21	28.0	27.0	27.5				---	---	---	---	---	---
22	27.5	27.0	27.0				---	---	---	---	---	---
23	27.0	27.0	27.0				---	---	---	---	---	---
24	27.0	26.5	27.0				---	---	---	---	---	---
25	27.0	26.5	26.5				---	---	---	---	---	---
26	27.0	26.5	26.5				---	---	---	---	---	---
27	26.5	26.5	26.5				---	---	---	---	---	---
28	26.5	26.0	26.5				---	---	---	---	---	---
29	---	---	---				---	---	---	---	---	---
30	---	---	---				---	---	---	---	---	---
31	---	---	---				---	---	---	---	---	---
MONTH	28.0	20.0	25.0				31.5	28.5	29.5	26.5	23.5	24.0

02429595 LITTLE RIVER NEAR URIAH, AL

LOCATION.--Lat 31°14'31", long 87°36'50", in NW¼ sec. 7, T. 3 N., R. 5 E., Escambia County, Hydrologic Unit 03150204, on left bank 150 ft (46 m) upstream from bridge on county road, 7 mi (11 km) northwest of McCullough.

DRAINAGE AREA.--99.2 mi^2 (256.9 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1968 to Sept. 30, 1979 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 129 ft (39.6 m). Prior to July 1978, recording gage at site 200 ft (60.96 m) upstream at datum 1.00 ft (0.305 m) higher.

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--11 years, 183 ft^3/s (5.183 m^3/s), 25.05 in/yr (636 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft^3/s (354 m^3/s) Sept. 8, 1974, gage height, 16.14 ft (4.919 m); minimum, 43 ft^3/s (1.22 m^3/s) Oct. 4, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	0400	1830	51.8	7.52	2.292	Apr. 4	2100	1910	54.1	7.80	2.377
Mar. 4	1300	*3460	98.0	*11.20	3.414						

Minimum daily discharge, 69 ft^3/s (1.954 m^3/s) Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	83	258	155	247	232	210	188	258	97	99	103
2	123	81	159	497	197	214	220	181	274	91	91	103
3	109	77	131	313	234	472	430	181	192	103	89	139
4	101	77	326	177	476	2070	1330	181	186	135	85	129
5	101	77	495	147	386	798	949	201	170	103	85	103
6	97	79	249	133	502	502	432	188	170	89	81	93
7	91	107	172	346	755	417	346	177	155	83	75	93
8	89	127	149	392	461	377	351	177	175	115	71	87
9	89	101	236	192	302	344	377	179	145	260	69	81
10	91	95	263	153	258	344	304	168	127	285	75	79
11	89	89	166	137	236	562	287	379	121	353	199	77
12	89	87	135	172	223	414	269	386	111	333	181	81
13	89	85	123	201	214	350	309	441	107	203	123	543
14	85	85	113	147	208	310	573	381	103	190	95	573
15	81	85	107	121	201	290	351	243	101	168	87	197
16	83	87	107	113	190	280	265	199	99	161	79	166
17	81	89	133	109	183	270	241	177	99	252	77	461
18	81	97	121	107	212	260	225	175	97	159	81	324
19	81	91	107	105	234	250	216	172	93	166	75	201
20	81	85	103	423	197	260	210	161	87	208	71	172
21	81	85	133	759	368	250	208	153	85	236	85	166
22	79	83	139	331	287	400	208	149	85	227	91	155
23	79	83	107	245	704	560	210	344	151	388	131	137
24	79	85	326	428	1430	400	296	638	199	375	309	127
25	81	83	340	271	736	310	379	307	137	293	289	119
26	81	87	172	225	397	260	287	208	119	320	348	121
27	83	408	135	412	309	240	227	181	105	265	221	151
28	81	366	117	313	247	230	205	166	95	175	166	170
29	79	241	109	216	---	225	194	161	95	139	183	133
30	85	483	121	201	---	220	192	166	115	125	129	115
31	85	---	129	346	---	215	---	168	---	109	111	---
TOTAL	2765	3788	5481	7887	10394	12326	10301	7176	4056	6206	3951	5199
MEAN	89.2	126	177	254	371	398	343	231	135	200	127	173
MAX	141	483	495	759	1430	2070	1330	638	274	388	348	573
MIN	79	77	103	105	183	214	192	149	85	83	69	77
CFSM	.90	1.27	1.78	2.56	3.74	4.01	3.46	2.33	1.36	2.02	1.28	1.74
IN.	1.04	1.42	2.06	2.96	3.90	4.62	3.86	2.69	1.52	2.33	1.48	1.95

CAL YR 1978 TOTAL 75716 MEAN 207 MAX 2100 MIN 77 CFSM 2.09 IN 28.39
WTR YR 1979 TOTAL 79530 MEAN 218 MAX 2070 MIN 69 CFSM 2.20 IN 29.82

02429595 LITTLE RIVER NEAR URIAH, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1969, 1971-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
11...	1445	91	22	6.4	18.0	9.9
NOV						
27...	1500	458	29	6.3	17.0	7.9
JAN						
09...	1500	189	22	6.0	8.0	11.6
FEB						
15...	1430	193	26	6.3	13.5	10.7
APR						
03...	1615	432	25	5.7	18.0	9.1
MAY						
14...	1530	349	23	5.6	19.5	9.0
JUN						
19...	1430	93	36	6.7	22.5	8.5
AUG						
02...	0925	92	26	--	24.5	--
SEP						
10...	1400	84	23	6.6	22.5	8.9

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT											
11...	6	3	1.5	.5	2.0	41	.4	.3	3	0	2
NOV											
27...	--	--	.8	--	2.1	25	.3	1.2	7	0	6
JAN											
09...	4	1	.9	.5	2.2	49	.5	.6	4	0	3
FEB											
15...	8	3	2.2	.6	2.5	39	.4	.4	6	0	5
APR											
03...	7	4	1.7	.7	2.0	36	.3	.6	4	0	3
MAY											
14...	3	0	.4	.4	2.9	60	.8	1.2	5	0	4
JUN											
19...	--	--	--	--	--	--	--	--	10	0	8
SEP											
10...	5	0	1.1	.6	2.6	50	.5	.3	6	0	5

02429595 LITTLE RIVER NEAR URIAH, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	ARSENIC DIS-SOLVED (UG/L AS AS)
OCT											
11...	1.9	.7	4.1	.0	8.1	20	.03	4.92	.29	1.3	<1
NOV											
27...	5.6	10	2.1	.0	7.2	--	--	--	.20	.90	<1
JAN											
09...	6.4	1.0	3.5	.0	7.6	19	.03	9.70	.18	.80	1
FEB											
15...	4.8	4.0	2.6	.0	6.5	24	.03	12.5	.25	1.1	<1
APR											
03...	13	1.9	3.0	.0	6.9	20	.03	23.3	.14	.60	0
MAY											
14...	20	.6	3.1	.0	7.5	20	.03	18.8	.18	.80	ND
JUN											
19...	3.2	--	--	--	--	--	--	--	--	--	--
SEP											
10...	2.4	0	2.5	.1	8.6	20	.03	4.54	.34	1.5	<1

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
11...	30	<1	2	--	100	1	30	.2	--	40	10
NOV											
27...	<50	1	1	5	660	2	140	<.2	ND	30	10
JAN											
09...	<50	<1	ND	1	250	4	<5	<.2	--	30	10
FEB											
15...	100	1	ND	2	--	1	<5	<.2	ND	30	890
APR											
03...	100	1	--	10	370	3	<5	<.2	ND	40	20
MAY											
14...	ND	4	ND	18	280	5	84	.2	ND	50	40
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
SEP											
10...	<50	1	ND	1	90	2	<5	<.2	ND	10	20

RESERVOIRS IN MOBILE RIVER BASIN

02393500 ALLATOONA RESERVOIR.--Lat 34°09'46", long 84°43'40", Bartow County, Hydrologic Unit 03150104, at forebay of dam on Etowah River, 2.8 mi (4.5 km) upstream from Nashville, Chattanooga, and St. Louis Railway bridge, 4 mi (6.4 km) east of Cartersville, and 6 mi (9.7 km) upstream from Pumpkinvine Creek. DRAINAGE AREA, 1,110 mi^2 (2,870 km^2), approximately. PERIOD OF RECORD, December 1949 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by concrete gravity dam. Spillway, crest elevation, 835.0 ft (254.51 m) is equipped with nine taintor gates 40 ft (12.2 m) wide by 25 ft (7.6 m) high. There are four sluices 5.67 ft (1.73 m) by 10 ft (3.05 m) high and one sluice 4.0 ft (1.22 m) in diameter. Storage began Dec. 27, 1949; water in lake first reached minimum pool elevation Feb. 5, 1950. Total capacity at elevation 860.0 ft (262.13 m), top of gates, is 670,000 acre-ft (826 hm^3), of which 587,100 acre-ft (724 hm^3) is controlled storage above 800 ft (243.84 m), minimum pool. Lake is used for flood control and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 693,800 acre-ft (855 hm^3) Apr. 10, 1964, elevation, 861.19 ft (262.491 m); minimum, 119,600 acre-ft (147 hm^3) Dec. 4, 1954, elevation, 809.34 ft (246.69 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 599,900 acre-ft (740 hm^3) Apr. 18, elevation, 856.16 ft (260.958 m); minimum, 216,000 acre-ft (266 hm^3) Dec. 28, 29, elevation, 824.70 ft (251.369 m).

02399499 WEISS LAKE.--Lat 34°10'19", long 85°45'14", in SE¼ sec. 12, T. 10 S., R. 8 E., Cherokee County, Hydrologic Unit 03150105, about 75 ft (23 m) upstream from centerline of left end of Weiss Dam on Coosa River on U.S. Highway 411, 1.2 mi (1.9 km) east of Leesburg, 4 mi (6 km) upstream from Yellow Creek, and at mile 226.1 (363.80 km). DRAINAGE AREA, 5,270 mi^2 (13,650 km^2), approximately. PERIOD OF RECORD, March 1961 to current year. GAGE, water-stage recorder with remote indicating gages, referenced to a vertical staff gage. Datum of gage is National Geodetic Vertical Datum of 1929.

Reservoir is formed by a compacted earth dam with a concrete gated spillway section. Spillway is equipped with five radial gates 40 ft (12.2 m) wide by 38 ft (11.6 m) high. Storage began Mar. 28, 1961. Total capacity at elevation 564 ft (171.9 m) is 360,400 acre-ft (444 hm^3). Reservoir is used for power development and flood control. Gage-height record and capacity table furnished by Alabama Power Co.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 559,100 acre-ft (689 hm^3) Apr. 8, 1977, elevation, 570.91 ft (174.013 m); minimum daily contents, 127,200 acre-ft (157 hm^3) Jan. 1, 1970, elevation, 556.31 ft (169.563 m).

EXTREMES FOR CURRENT YEAR: Maximum daily contents 540,200 acre-ft (666 hm^3) Mar. 7, elevation, 570.47 ft (173.879 m); minimum daily contents, 141,800 acre-ft (175 hm^3) Jan. 4, elevation, 557.14 ft (169.816 m).

02401620 H. NEELY HENRY RESERVOIR.--Lat 33°47'02", long 86°03'10", in N½ sec. 31, T. 14 S., R. 6 E., Calhoun County, Hydrologic Unit 03150106, at forebay of Henry Dam on Coosa River, near Ohatchee, and 16 mi (26 km) south of Gadsden. DRAINAGE AREA, 6,590 mi^2 (17,070 km^2) (determined by Corps of Engineers). PERIOD OF RECORD, April 1966 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Alabama Power Co.).

Reservoir is formed by a compacted earth dam with a concrete gated spillway section. Spillway is equipped with six radial gates 40 ft (12.2 m) wide by 29 ft (8.8 m) high. Storage began Feb. 23, 1966. Total capacity at elevation 508 ft (154.84 m) is 120,850 acre-ft (149 hm^3). Reservoir is used for power development and flood control. Gage-height record and capacity table furnished by Alabama Power Co.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 126,800 acre-ft (156 hm^3) Oct. 19, 1966, elevation, 508.52 ft (155.000 m); minimum daily contents, 51,890 acre-ft (64.0 hm^3) Apr. 2, 1966, elevation, 499.88 ft (152.363 m).

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 120,300 acre-ft (148 hm^3) May 20, elevation, 507.95 ft (154.823 m); minimum daily contents, 68,300 acre-ft (84.2 hm^3) Apr. 12, elevation, 502.31 ft (153.104 m).

02405200 LOGAN MARTIN RESERVOIR.--Lat 33°24'33", long 86°20'17", in NW¼ sec. 33, T. 18 S., R. 3 E., St. Clair County, Hydrologic Unit 03150106, at Logan Martin Dam on Coosa River, 2 mi (3 km) upstream from Kelly Creek, and 10 mi (16 km) north of Childersburg, Ala. DRAINAGE AREA, 7,770 mi^2 (20,124 km^2), approximately. PERIOD OF RECORD, July 1964 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

Reservoir is formed by a compacted earth dam with gated concrete spillway section. Spillway is equipped with six taintor gates 40 ft (12.2 m) wide by 38 ft (11.6 m) high and one stoney-type trash gate 20 ft (6.1 m) wide by 22.5 ft (6.86 m) high. Storage began June 21, 1964. Total capacity at elevation 465 ft (141.7 m) (top of power pool) is 273,300 acre-ft (337 hm^3), of which 142,107 acre-ft (175 hm^3) is usable storage above elevation 452.5 ft (137.92 m) (minimum pool). Reservoir is used for power development and flood control. Gage-height record and capacity tables furnished by Alabama Power Co.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 475,800 acre-ft (587 hm^3) Apr. 6, 1977, elevation, 475.31 ft (144.874 m); minimum daily contents, 186,100 acre-ft (229 hm^3) Oct. 17, 1972, elevation, 458.27 ft (139.681 m).

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 436,400 acre-ft (538 hm^3) Apr. 15, elevation, 473.65 ft (144.369 m), minimum daily, 194,000 acre-ft (239 hm^3) Feb. 24, elevation, 458.99 ft (139.900 m).

02407950 LAY LAKE.--Lat 32°57'54", long 86°31'03", in NE¼ sec. 24, T. 23 N., R. 15 E., Chilton County, Hydrologic Unit 03150107, at Lay Dam on Coosa River, 0.5 mi (0.8 km) upstream from Page Creek, and 11 mi (18 km) northeast of Clanton. DRAINAGE AREA, 9,090 mi^2 (23,540 km^2), approximately. GAGE, water-stage recorder with remote indicating gages. Prior to May 14, 1968, staff gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Alabama Power Co.). Prior to Jan. 1, 1966, at old Coosa River datum, 37.9 ft (11.55 m) lower.

Reservoir is formed by a concrete gravity-type dam equipped with 26 radial gates 30 ft (9.1 m) wide by 17 ft (5.2 m) high. The pool was filled on Jan. 4, 1968. Total capacity at elevation 396.0 ft (120.70 m) (top of gates) is 262,774 acre-ft (324 hm^3), of which 117,780 acre-ft (145 hm^3) is controlled storage above elevation 382.0 ft (116.43 m) (minimum pool). Prior to May 14, 1968, reservoir was formed by a concrete gravity-type dam, completed April 1914. Dam was equipped with 26 vertical lift gates 30 ft (9.1 m) wide by 14 ft (4.3 m) high. Total capacity at elevation 382.0 ft (116.43 m) was 144,994 acre-ft (179 hm^3). Reservoir is used for power development. Gage-height record and capacity table furnished by Alabama Power Co.

RESERVOIRS IN MOBILE RIVER BASIN--Continued

02409400 MITCHELL LAKE.--Lat 32°48'30", long 86°26'30", in NE¼ sec. 15, T. 21 N., R. 16 E., Chilton County, Hydrologic Unit 03150107, at Mitchell Dam on Coosa River, 5 mi (8 km) downstream from Hatchet Creek, and 11 mi (18 km) southeast of Clanton, Ala. DRAINAGE AREA, 9,830 mi^2 (25,460 km^2), approximately. GAGE, staff gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Alabama Power Co.). Prior to Jan. 1, 1966, at old Coosa River datum, 38.08 ft (11.607 m) lower.

Reservoir is formed by concrete gravity-type dam, completed August 1923, equipped with 26 radial gates 30 ft (9.1 m) wide and 15 ft (4.6 m) high. Total storage at elevation 311.9 ft (95.07 m) (top of power pool) is 172,000 acre-ft (212 hm^3), of which 33,300 acre-ft (41.1 hm^3) is usable storage above elevation 305.9 ft (93.24 m). Reservoir is used for power development. Gage-height record and capacity table furnished by Alabama Power Co.

02410400 JORDAN LAKE.--Lat 32°37'07", long 86°15'19", in N½ sec. 22, T. 19 N., R. 18 E., Elmore County, Hydrologic Unit 03150107, at Jordan Dam on Coosa River, 4 mi (6 km) upstream from Pigeonroost Creek, and 5 mi (8 km) northwest of Wetumpka, Ala. DRAINAGE AREA, 10,200 mi^2 (26,400 km^2), approximately. GAGE, water-stage recorder with remote indicating gages. Prior to February 1967, staff gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Alabama Power Co.). Prior to Jan. 1, 1966, at old Coosa River datum 38.0 ft (11.58 m) lower.

Reservoir, completed January 1929, is formed by a concrete arch-type dam equipped with 17 taintor gates 30 ft (9.1 m) wide by 18 ft (5.5 m) high and 18 taintor gates 34 ft (10.4 m) wide and 8.1 ft (2.47 m) high. Prior to Mar. 25, 1967, the dam was equipped with 17 radial gates 30 ft (9.1 m) wide by 18 ft (5.5 m) high and 642 ft (195.7 m) open-crest spillway.

Bouldin Hydro Plant (completed February 1967, failed Feb. 9, 1975).--Lat 32°34'58", long 86°17'02", in SE¼ sec. 32, T. 19 N., R. 18 E., Elmore County, also utilizes the water from Jordan Reservoir through a canal approximately 1 mi (2 km) north of Jordan Dam joining the Bouldin Hydro Plant forebay with Jordan Reservoir. The discharge from Bouldin Hydro Plant flows through a 4.5 mi (7.2 km) canal to the Coosa River at approximately 7 mi (11 km) downstream from Wetumpka. There are no facilities at Bouldin Hydro Plant for releasing hydraulic flows in excess of generating capabilities of Jordan and Bouldin Hydro Plants. Total storage at elevation 252.0 ft (76.81 m) is 236,200 acre-ft (291 hm^3), of which 58,000 acre-ft (71.5 hm^3) is usable storage above elevation 242.0 ft (73.76 m). Reservoir is used for power development. Gage-height record and storage tables furnished by Alabama Power Co.

02417500 LAKE MARTIN.--Lat 32°40'41", long 85°54'30", in sec. 36, T. 20 N., R. 21 E., Tallapoosa County, Hydrologic Unit 03150109, at forebay of Martin Dam on Tallapoosa River, 5 mi (8 km) upstream from Sougahatchee Creek, and 10 mi (16 km) north of Tallassee, Ala. DRAINAGE AREA, 3,000 mi^2 (7,800 km^2), approximately. PERIOD OF RECORD, October 1927 to current year. GAGE, remote indicating gage referenced to wire-weight gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Alabama Power Co.), adjustment unknown.

Lake is formed by a combination arch and gravity concrete dam with a riprap earth embankment on left or east end. Spillway is equipped with 20 modified stoney-type gates, 30 ft (9.1 m) wide and 16 ft (4.9 m) high. Storage began in the summer of 1926, and the powerhouse was completed in the summer of 1927. Total capacity at elevation 490.00 ft (149.352 m) (top of gates) is 1,622,000 acre-ft (2000 hm^3), of which 1,375,000 acre-ft (1,700 hm^3) is controlled storage above elevation 430.00 ft (131.064 m) (minimum pool). Lake is used for power development. Gage-height record and capacity table furnished by Alabama Power Co.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents since Oct. 1, 1940, 1,648,900 acre-ft (2,033 hm^3) Apr. 14, 1979, elevation, 490.69 ft (149.562 m); minimum daily, 555,000 acre-ft (684 hm^3) June 29, 1941, elevation, 452.12 ft (137.806 m).

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 1,648,900 acre-ft (2,033 hm^3) Apr. 14, elevation, 490.69 ft (149.562 m); minimum daily, 1,198,400 acre-ft (1,478 hm^3) Jan. 19, elevation, 478.09 ft (145.722 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
	02393500 ALLATOONA RESERVOIR			02399499 WEISS LAKE		
Sept. 30	835.94	321,500	.....	562.12	253,100	.....
Oct. 31	832.06	281,500	-40,000	560.90	221,900	-31,200
Nov. 30	827.20	236,800	-44,700	559.60	191,500	-30,400
Dec. 31	825.20	220,100	-16,700	558.00	158,000	-33,500
CAL YR 1978	.....	.....	- 6,500	.....	.....	+14,800
Jan. 31	829.76	259,600	+39,500	559.46	188,400	+30,400
Feb. 28	837.86	342,700	+83,100	563.30	285,800	+97,400
Mar. 31	836.10	323,200	-19,500	562.36	259,600	-26,200
Apr. 30	850.52	508,600	+185,400	563.46	290,500	+30,900
May 31	841.85	389,900	-118,700	563.64	295,700	+ 5,200
June 30	841.40	384,300	- 5,600	563.62	295,100	- 600
July 31	841.78	389,000	+ 4,700	564.08	308,800	+13,700
Aug. 31	839.10	356,900	-32,100	563.68	296,900	-11,900
Sept. 30	841.53	385,900	+29,000	563.24	284,100	-12,800
WTR YR 1979	.....	.....	-64,400	.....	.....	+31,000
	02401620 H. NEELY HENRY RESERVOIR			02405200 LOGAN MARTIN RESERVOIR		
Sept. 30	507.46	114,900	.....	462.87	242,500	.....
Oct. 31	505.84	98,300	-16,600	461.94	230,000	-12,500
Nov. 30	504.54	86,400	-11,900	460.85	216,100	-13,900
Dec. 31	504.98	90,300	+ 3,900	459.98	205,500	-10,600
CAL YR 1978	.....	.....	+ 3,900	.....	.....	+ 2,900
Jan. 31	504.18	83,200	- 7,100	459.56	200,600	- 4,900
Feb. 28	505.00	90,500	+ 7,300	460.00	205,700	+ 5,100
Mar. 31	504.43	85,400	- 5,100	459.68	202,000	- 3,700
Apr. 30	507.47	115,000	+29,600	463.84	256,100	+54,100
May 31	507.08	110,800	- 4,200	464.86	271,200	+15,100
June 30	507.52	115,600	+ 4,800	464.33	263,200	- 8,000
July 31	507.47	115,000	- 600	464.78	270,000	+ 6,800
Aug. 31	505.99	99,800	-15,200	464.83	270,700	+ 700
Sept. 30	507.74	118,000	+18,200	465.57	282,100	+11,400
WTR YR 1979	.....	.....	+ 3,100	.....	.....	+39,600
	COMBINED LAY, MITCHELL, AND JORDAN LAKES			02417500 LAKE MARTIN		
Sept. 30	.....	626,200	.....	484.59	1,421,000	.....
Oct. 31	.....	628,100	+ 1,900	482.77	1,356,600	-64,400
Nov. 30	.....	634,800	+ 6,700	480.60	1,281,600	-75,000
Dec. 31	.....	629,600	- 5,200	479.02	1,228,700	-52,900
CAL YR 1978	.....	.....	-16,200	.....	.....	-16,200
Jan. 31	.....	645,900	+16,300	479.12	1,232,000	+ 3,300
Feb. 28	.....	657,200	+11,300	482.23	1,337,800	+105,800
Mar. 31	.....	651,300	- 5,900	486.31	1,483,400	+145,600
Apr. 30	.....	640,100	-11,200	489.79	1,613,900	+130,500
May 31	.....	639,000	- 1,100	489.54	1,604,400	- 9,500
June 30	.....	646,400	+ 7,400	489.57	1,605,500	+ 1,100
July 31	.....	653,800	+ 7,400	489.57	1,605,500	0
Aug. 31	.....	653,400	- 400	487.39	1,523,300	-82,200
Sept. 30	.....	659,000	+ 5,600	486.88	1,504,400	-18,900
WTR YR 1979	.....	.....	+32,800	.....	.....	+83,400

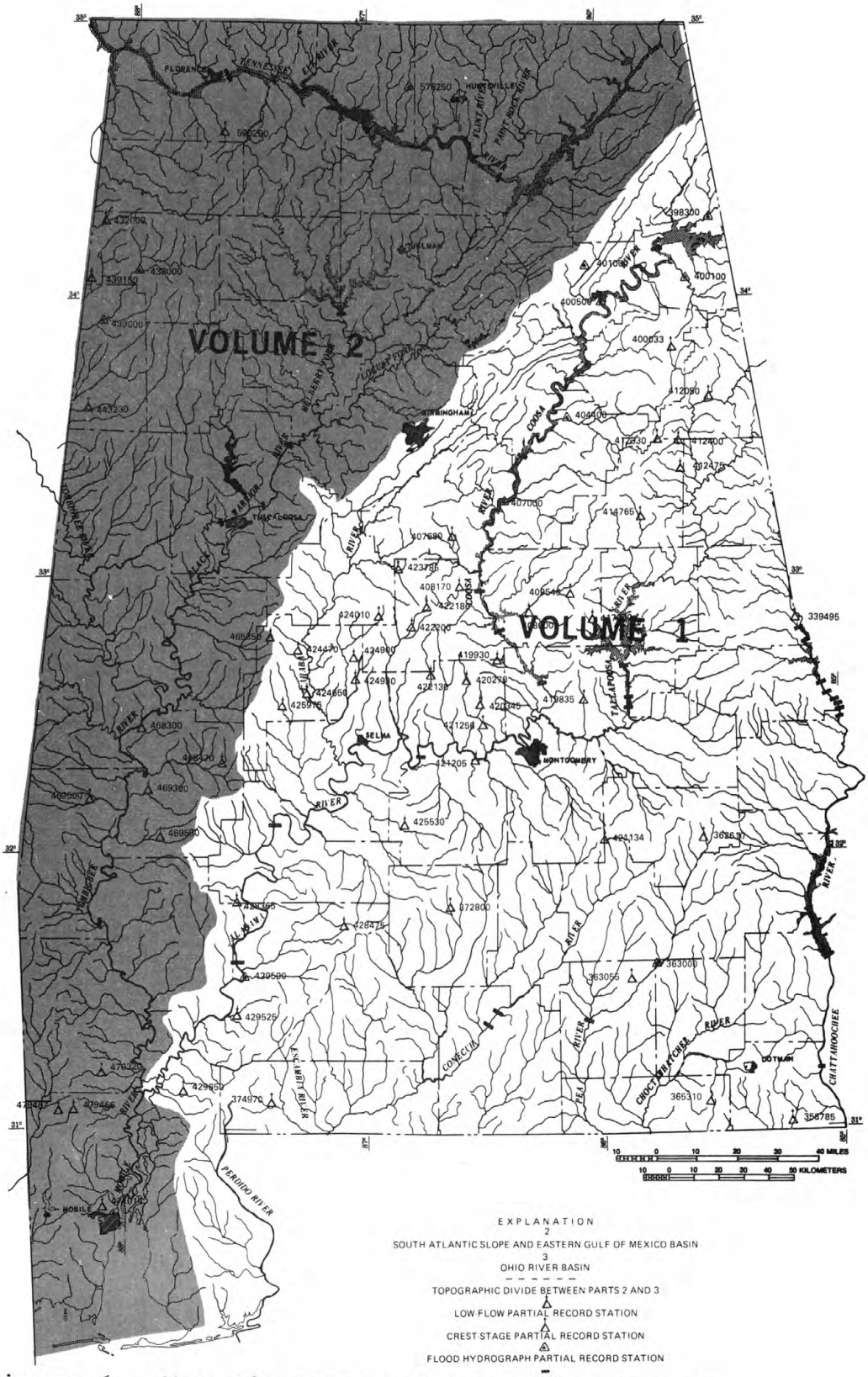

Figure 6.--Map of Alabama showing location of partial-record stations.

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 useable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. These measurements and others collected for some special reason are called measurements at miscellaneous sites.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream when continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1979

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements: Date	Measurements: Discharge (ft^3/s)
		Apalachicola River basin				
02339495	Oseligee Creek near Lanett, AL.	Lat 32°54'05", long 85°11'47", SW¼NW¼NW¼ sec. 13, T. 22 N., R. 28 E., Chambers County, at bridge on Fredonia Highway, 1.8 mi (241 km) north of Lanett.	.....	1968	11- 8-78	9.76
		Mobile River basin				
02408170	Walnut Creek near Clanton, AL.	Lat 32°53'07", long 86°32'15", SW¼ sec. 14, T. 22 N., R. 15 E., Chilton County, at county road bridge, 6.0 mi (9.7 km) northeast of Clanton.	.....	1949, 1968, 1973, 1978	11- 6-78	9.28 est.
02408600	Swamp Creek at Salter, AL.	Lat 32°51'27", long 86°18'26", SE¼ sec. 30, T. 22 N., R. 18 E., Coosa County, at bridge on county road approximately 6.0 mi (9.7 km) southwest of Rockford, and 6.5 mi (10.5 km) east of Clanton.	.....	1973	11- 8-78	0
02412400	Ketchepedrakee Creek near Delta, AL.	Lat 33°27'46", long 85°42'02", sec. 16, T. 18 S., R. 9 E., Clay County at State Highway 9 bridge 1.7 mi (2.7 km) north of Delta, 5.6 mi (9.0 km) southwest of Hollis Crossroads.	.....	.....	11- 8-78	8.13
02412475	Mad Indian Creek near Barfield, AL.	Lat 33°22'09", long 85°39'36", SW¼NE¼SW¼ sec. 13, T. 19 S., R. 9 E., Clay County at county road bridge 3.2 mi (5.1 km) east of Barfield, 1.0 mi (1.6 km) southwest of Christiana.	.....	.....	11- 8-78	6.79
02417200	Oakachoy Creek near Equality, AL.	Lat 32°50'00", long 86°02'10", SW¼ sec. 2, T. 21 N., R. 20 E., Coosa County, at county road bridge 6 mi (9.6 km) northeast of Equality.	.....	1973-74	11- 8-78	4.89
02419930	Mortar Creek near Deatsville, AL.	Lat 32°37'16", long 86°25'29", SE¼ sec. 14, T. 19 N., R. 16 E., Autauga County, at county road bridge approximately 3.0 mi (4.8 km) west of Deatsville.	.....	1968	11- 3-78	8.78
02420270	Autauga Creek near White City, AL.	Lat 32°37'48", long 86°34'23", NW¼ sec. 16, T. 19 N., R. 15 E., Autauga County, at county road bridge 2 mi (3.2 km) southeast of White City.	.....	1968, 1971	11- 6-78	0
02420345	Bridge Creek near Prattville, AL.	Lat 32°29'52", long 86°32'34", NW¼ sec. 35, T. 18 N., R. 15 E., Autauga County, at county road bridge, 4.5 mi (7.2 km) northwest of Prattville.	.....	1968	11- 3-78	29.9

Discharge measurements made at low-flow partial-record stations during water year 1979--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
02421135	Pinchony Creek near Davenport, AL.	Lat 32°03'26", long 86°25'07", SE¼ sec. 35, T. 13 N., R. 16 E., Lowndes County, at U.S. Highway 31 bridge, 1.0 mi (1.6 km) southwest of Davenport.	.....	1968, 1969	11- 6-78	1.54
02421205	Tallawassee Creek near Robinson Bend, AL.	Lat 32°19'24", long 86°33'47", center of sec. 33, T. 16 N., R. 15 E., Lowndes County, at county road bridge 1.0 mi (1.6 km) southeast of Robinson Bend.	.....	1968, 1969	11- 6-78	7.32
02422130	Little Mulberry Creek near Billingsley, AL.	Lat 32°36'49", long 86°43'31", NE¼ sec. 24, T. 19 N., R. 13 E., Autauga County, at bridge on U.S. Highway 82, 2.5 mi (4.0 km) south of Billingsley.	.....	1949, 1968	11- 6-78	10.9
02422186	Gale Creek near Thorsby, AL.	Lat 32°53'59", long 86°44'08", SW¼ sec. 12, T. 22 N., R. 13 E., Chilton County, 1.5 mi (2.4 km) southwest of Thorsby.	.....	1949	11- 6-78	2.42
02422200	Middle Fork Mulberry Creek near Maplesville, AL.	Lat 32°47'35", long 86°51'57", NE¼ sec. 13, T. 21 N., R. 12 E., Chilton County, on State Highway 22, 3.0 mi (4.8 km) east of Maplesville.	40.0 (104 km^2)	1965	11- 6-78	8.37
02423785	Mahan Creek near Brierfield, AL.	Lat 33°01'25", long 86°52'18", NE¼ sec. 33, T. 24 N., R. 12 E., Chilton County, at county road bridge approximately 2.5 mi (4.0 km) southeast of Brierfield.	.....	1968	11- 6-78	0
02424470	Old Town Creek Creek near Heiberger, AL.	Lat 32°42'41", long 87°16'35", NW¼ sec. 16, T. 29 N., R. 8 E., Perry County at county road bridge, 3.0 mi (4.8 km) south of Heiberger.	31.5 (81.6 km^2)	1960, 1968	11- 7-78	5.44
02424650	Rice Creek near Vilula, AL.	Lat 32°33'20", long 87°15'00", SE¼ sec. 3, T. 18 N., R. 8 E., Perry County, 1.0 mi (1.6 km) northeast of Vilula.	29.6 (76.7 km^2)	1949	11- 7-78	1.88
02424900	Little Pryor Creek near Osborn, AL.	Lat 32°42'35", long 87°04'18", NE¼ sec. 22, T. 20 N., R. 10 E., Perry County, at culvert on gravel road, 5 mi (8.0 km) east-northeast of Osborn, 6.0 mi (9.6 km) southwest of Oakmulgee, and 10 mi (16.1 km) east-northeast of Sprott.	.....	.....	11- 7-78	0.075
02424930	Little Oakmulgee Creek near Summerfield, AL.	Lat 32°35'28", long 87°03'02", SW¼ sec. 26, T. 19 N., R. 10 E., Perry County, at county road bridge 5.0 mi (8.0 km) north of Summerfield.	.....	1968	11- 7-78	5.37
02425530	Dry Cedar Creek at Fostoria, AL.	Lat 32°04'36", long 86°49'46", N½ sec. 26, T. 13 N., R. 12 E., Lowndes County, at county road bridge approximately 0.8 mi (1.3 km) south of Fostoria, and 9.5 mi (15.3 km) east of Minter.	.....	.....	11- 6-78	0
02425975	Washington Creek at Vaiden, AL.	Lat 32°33'18", long 87°19'24", NE¼ sec. 21, T. 18 N., R. 7 E., Perry County, at bridge on State Highway 5, 0.4 mi (0.6 km) north of Vaiden, 8.0 mi (12.9 km) southwest of Marion.	.....	.....	11- 7-78	0.094

Discharge measurements made at low-flow partial-record stations during water year 1979--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
02428365	Cane Creek below Lower Peach Tree, AL.	Lat 31°48'02", long 87°32'02", SW¼ sec. 25, T. 10 N., R. 5 E., Clarke County, at bridge on county road, 2.8 mi (4.5 km) south of Lower Peach Tree, and 3.5 mi (5.6 km) north of Chance.	.....	.....	11- 8-78	0.147
02428475	Robinson Creek near Beatrice, AL.	Lat 31°41'01", long 87°13'03", S½ sec. 1, T. 8 N., R. 8 E., Monroe County, at bridge on State Highways 21 and 47, 2.5 mi (4.0 km) northeast of Tunnel Springs, and 3.5 mi (5.6 km) south of Beatrice.	.....	.....	11- 9-78	7.11
02429525	Lovetts Creek near Frisco City, AL.	Lat 31°24'26", long 87°32'48", SW¼ sec. 11, T. 5 N., R. 5 E., Monroe County, at bridge on unpaved county road approximately 8.0 mi (12.9 km) southwest of Frisco City.	.....	1966-69	11- 9-78	34.5

Flood hydrograph partial-record stations

The data given in the following tables generally comprise a description of the station and a table showing time, gage height, and discharge at selected times for major peaks that occurred during the year.

The description of the station gives the location, drainage area, period of record, type and history of gages, extremes of discharge and general remarks. The explanation of data presented is identical to that for gaging stations.

CHOCTAWHATCHEE RIVER BASIN

02363000 PEA RIVER NEAR ARITON, AL

LOCATION.--Lat 31°35'41", long 85°46'59", in SW¼ sec. 7, T. 7 N., R. 23 E., Dale County, Hydrologic Unit 03140202, on left bank at downstream side of abandoned bridge, and about 20 ft (6 m) upstream from bridge on U.S. Highway 231, 2.2 mi (3.5 km) downstream from Bryors Mill Creek, 2.8 mi (4.5 km) downstream from Atlantic Coast Line Railroad bridge, 3.5 mi (5.6 km) west of Ariton, and at mile 89.6 (144.2 km).

DRAINAGE AREA.--492 mi^2 (1,274 km^2).

PERIOD OF RECORD.--October 1938 to September 1970 (October 1970 to current year flood hydrograph only).

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.72 ft (75.200 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--32 years (1938-70), 615 ft^3/s (17.42 m^3/s), 16.98 in/yr (431 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,600 ft^3/s (1,350 m^3/s) Feb. 18, 1975, gage height, 24.38 ft (7.431 m); minimum, 6.5 ft^3/s (0.18 m^3/s) Sept. 14, 1968, gage height, 1.60 ft (0.488 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, about 25 ft (7.6 m), present site and datum, March 1929, from information by local residents (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 26	1400	7660	217	16.21	4.941	Apr. 28	2200	4600	130	13.18	4.017
Apr. 7	1000	*8240	233	*16.60	5.060						

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
2-03	0200	3.95	768	2-24	0600	9.10	2810	4-11	0100	6.04	1590
2-03	1900	3.92	756	2-24	1200	9.92	3150	4-11	2400	5.38	1360
2-03	2400	4.16	857	2-24	1800	10.20	3250				
				2-24	2400	10.64	3430	4-12	0100	5.36	1350
2-04	1800	4.44	976					4-12	2400	4.93	1190
2-04	2400	4.48	994	2-25	0600	12.12	4130				
				2-25	1200	13.83	5070	4-13	2000	4.90	1170
2-05	2400	4.82	1140	2-25	1800	14.78	5880	4-13	2400	5.08	1250
				2-25	2400	15.36	6490				
2-06	1400	5.16	1270					4-14	0300	5.14	1270
2-06	2300	6.53	1760	2-26	0600	15.82	7080	4-14	2400	4.84	1150
2-06	2400	6.57	1770	2-26	1200	16.17	7600				
				2-26	1400	16.21	7660	4-15	0100	4.83	1140
2-07	1300	6.86	1880					4-15	2400	4.57	1030
2-07	2400	6.85	1870	4-03	1500	3.69	659				
				4-03	2400	4.06	815	4-16	0100	4.56	1030
2-08	2400	7.61	2110					4-16	2400	4.21	878
				4-04	0600	4.81	1130				
2-09	2400	8.37	2360	4-04	1100	6.87	1880	4-25	0700	3.61	623
				4-04	2400	7.88	2190	4-25	0800	3.78	695
2-10	1900	8.87	2530					4-25	0900	4.18	865
2-10	2400	8.74	2490	4-05	1200	9.12	2630	4-25	1200	6.12	1620
				4-05	2400	11.41	3610	4-25	1600	7.02	1930
2-11	0100	8.70	2480					4-25	1900	7.05	1940
2-11	2400	6.98	1920	4-06	0800	13.73	4980	4-25	2400	7.03	1930
				4-06	2000	16.38	7910				
2-12	0100	6.90	1890	4-06	2400	16.59	8230	4-26	2300	8.17	2290
2-12	2400	5.46	1390					4-26	2400	8.32	2340
				4-07	0100	16.60	8240				
2-13	0100	5.41	1370	4-07	1100	15.98	7310	4-27	2400	10.06	3000
2-13	2400	4.53	1020	4-07	2400	13.71	4970				
								4-28	2000	13.13	4560
2-14	0100	4.50	1000	4-08	0100	13.49	4810	4-28	2200	13.18	4600
2-14	2400	4.03	802	4-08	1500	10.32	3110	4-28	2400	13.17	4590
				4-08	2400	8.88	2540				
2-15	0100	4.02	797					4-29	0100	13.12	4550
2-15	2400	3.80	703	4-09	0100	8.82	2520	4-29	2400	10.71	3260
				4-09	2400	7.99	2230				
2-23	0600	5.71	1450					4-30	0100	10.56	3200
2-23	1200	5.80	1490	4-10	0100	7.94	2210	4-30	2400	7.74	2150
2-23	1800	6.01	1570	4-10	2400	6.08	1600				
2-23	2400	7.12	2020								

CHOCTAWHATCHEE RIVER BASIN

02363000 PEA RIVER NEAR ARITON, AL--Continued

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
5-01	0100	7.66	2120	5-02	2400	5.00	1210	5-04	0100	4.40	958
5-01	2400	6.02	1580					5-04	2400	4.26	900
				5-03	0300	4.99	1210				
5-02	0100	5.96	1560	5-03	2400	4.42	967				

MOBILE RIVER BASIN

02398300 CHATTOOGA RIVER ABOVE GAYLESVILLE, AL

LOCATION.--Lat 34°17'25", long 85°30'33", in NW¼ sec. 5, T.9 S., R.11 E., Cherokee County, Hydrologic Unit 03150105, on left bank 10 ft (3.0 m) upstream from bridge on county road, 600 ft (183 m) downstream from Mills Creek and 3.5 mi (5.6 km) northeast of Gaylesville.

DRAINAGE AREA.--368 mi^2 (953 km^2).

PERIOD OF RECORD.--January 1959 to September 1967. October 1967 to September 1971 (annual maximum only). October 1971 to current year (flood hydrograph only).

REVISED RECORDS.--WSP 1906: Location.

GAGE.--Water-stage recorder. Datum of gage is 562.11 ft (171.331 m) National Geodetic Datum of 1929 (Alabama Power Company bench mark). December 4, 1958 to July 20, 1959, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--8 years (1960-67), 670 ft^3/s (18.97 m^3/s), 24.72 in/yr (628 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s (467 m^3/s) Mar. 5, 1966, gage height, 22.03 ft (6.715 m); 1959-67, minimum daily discharge, 115 ft^3/s (3.26 m^3/s) Oct. 25 to Nov. 3, 1961, Sept. 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1951, reached a stage of 23.5 ft (7.16 m) from flood-marks.

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

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 5	0930	15400	436	21.58	6.578	Apr. 13	2030	*16800	476	*22.17	6.757

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge
03-04	2400	20.36	12700	04-04	0600	11.62	3020	04-12	1800	12.60	3630
				04-04	0930	11.74	3090	04-12	2400	16.33	6360
03-05	0600	21.52	15300	04-04	1200	11.66	3040				
03-05	0930	21.58	15400	04-04	1800	11.18	2750	04-13	0600	18.27	8410
03-05	1200	21.50	15300	04-04	2400	10.48	2330	04-13	1200	20.87	13800
03-05	1800	20.86	13800					04-13	1800	22.14	16800
03-05	2400	19.70	11300	04-05	1200	9.26	1680	04-13	2030	22.17	16800
				04-05	2400	8.53	1360	04-13	2400	22.03	16500
03-06	0600	18.54	8940								
03-06	1200	17.51	7400	04-06	1200	8.13	1190	09-26	0600	5.39	305
03-06	1800	16.02	6120	04-06	2400	7.72	1030				
03-06	2400	13.36	4150					09-27	0000	5.34	294
				04-07	2400	7.30	873	09-27	0800	5.38	303
03-07	0600	11.87	3170					09-27	1100	5.55	342
03-07	1200	11.49	2940	04-08	2400	7.30	873	09-27	1400	6.34	552
03-07	1800	11.22	2780					09-27	1800	7.59	980
03-07	2400	10.97	2630					09-27	2400	8.92	1520
				04-09	0600	8.90	1520				
				04-09	0730	9.03	1570	09-28	0600	10.68	2450
03-08	1200	10.56	2380	04-09	1200	8.77	[illegible]	09-28	1200	12.30	3440
03-08	2400	10.16	2150	04-09	2400	8.23	1230	09-28	1800	13.22	4050
								09-28	2400	13.70	4380
03-09	1200	9.73	1920	04-10	1200	7.59	980				
03-09	2400	9.34	1720	04-10	2400	7.29	869	09-29	0600	14.00	4600
								09-29	1200	14.24	4760
04-03	0400	8.65	1410	04-11	1200	7.14	816	09-29	1800	14.38	4860
04-03	0600	9.94	2030	04-11	2400	6.99	764	09-29	2400	14.25	4770
04-03	1200	11.98	3240								
04-03	1400	12.04	3280					09-30	0600	12.90	3830
04-03	1600	11.95	3220	04-12	0700	6.93	743	09-30	1200	9.67	1890
04-03	1800	11.74	3090	04-12	1200	8.13	1190	09-30	1800	8.52	1350
04-03	2400	11.36	2860	04-12	1500	9.84	1980	09-30	2400	8.14	1200

MOBILE RIVER BASIN

02400100 TERRAPIN CREEK AT ELLISVILLE, AL

LOCATION.--Lat 39°03'54", long 85°36'51", in SW¼ sec. 20, T.11 S., R.10 E., Cherokee County, Hydrologic Unit 03150105, on right bank 40 ft (12 m) downstream from bridge, 0.2 mi (0.3 km) southwest of Ellisville, 17 mi (27.4 km) south-southeast of Centre, and at mile 6.7 (10.8 km).

DRAINAGE AREA.--258 mi^2 (668 km^2).

PERIOD OF RECORD.--October 1962 to September 1967. October 1967 to September 1972 (annual maximum only). October 1972 to current year (flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 539.07 ft (164.309 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--5 years (1962-67), 410 ft^3/s (11.61 m^3/s), 21.58 in/yr (548 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,100 ft^3/s (569 m^3/s) Mar. 4, 1979, gage height, 19.82 ft (6.041 m); 1962-67, minimum discharge, 80 ft^3/s (2.3 m^3/s) Sept. 11, 29, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
3-4	1300	*20100	569	*19.82	6.041	4-13	0900	12800	362	17.78	5.419
4-3	1400	8760	248	16.21	4.941						

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge
3-01	0200	6.79	690	3-07	0100	10.12	2330	3-17	1800	6.04	410
3-01	0900	6.81	699	3-07	1500	9.72	2100	3-17	2400	6.01	399
3-01	1200	6.86	720	3-07	2400	9.57	2010				
3-01	1300	6.85	716					3-18	0100	6.01	399
3-01	2400	6.67	639	3-08	0100	9.55	2000	3-18	2400	5.94	380
				3-08	2400	9.20	1810				
3-02	0100	6.66	634								
3-02	2400	6.35	515	3-09	0100	9.20	1810	3-19	0200	5.93	378
				3-09	2400	8.94	1670	3-19	2400	5.87	362
3-03	0800	6.29	495								
3-03	1300	6.39	529	3-10	0100	8.93	1670	3-20	0100	5.87	362
3-03	1400	6.45	549	3-10	2300	8.80	1610	3-20	2400	5.82	349
3-03	1500	6.59	604	3-10	2400	8.82	1620				
3-03	1600	6.85	716					3-21	0400	5.81	347
3-03	1800	7.48	996	3-11	0400	8.85	1630	3-21	2400	5.75	331
3-03	1900	7.97	1220	3-11	0600	8.79	1600				
3-03	2000	8.89	1650	3-11	1400	8.42	1430	3-22	0400	5.75	331
3-03	2100	10.09	2310	3-11	2400	8.14	1300	3-22	2400	5.69	315
3-03	2200	11.61	3320								
3-03	2300	13.14	4480	3-12	0100	8.12	1290	3-23	0400	5.69	315
3-03	2400	14.29	5640	3-12	2400	7.85	1160	3-23	0800	5.87	362
								3-23	1100	6.16	450
3-04	0300	16.36	9070	3-13	0100	7.82	1150	3-23	1200	6.46	552
3-04	0700	18.31	14400	3-13	2400	7.38	951	3-23	1400	7.22	879
3-04	1100	19.59	18900					3-23	1500	7.65	1070
3-04	1300	19.82	20100	3-14	0100	7.37	746	3-23	1600	7.95	1210
3-04	1800	18.81	15900	3-14	1400	7.32	924	3-23	1700	8.00	1230
3-04	1900	18.35	14500	3-14	2000	7.31	920	3-23	2200	7.53	1020
3-04	2000	18.09	13700	3-14	2400	7.25	892	3-23	2400	7.63	1060
3-04	2300	16.51	9380								
3-04	2400	16.08	8500	3-15	0200	7.23	884	3-24	0200	7.71	1100
				3-15	2400	7.03	794	3-24	0300	7.70	1100
3-05	0100	15.62	7600					3-24	1900	7.01	784
3-05	0200	15.10	6670	3-16	0100	7.02	789	3-24	2400	6.86	720
3-05	0600	14.22	5560	3-16	0700	6.93	750				
3-05	0800	13.87	5170	3-16	1200	6.74	669	3-25	0100	6.84	712
3-05	1500	13.05	4400	3-16	1800	6.58	600	3-25	1300	6.58	600
3-05	2400	12.15	3710	3-16	2400	6.38	525	3-25	2400	6.41	535
3-06	0100	12.01	3610					3-26	0100	6.40	532
3-06	1200	10.92	2850	3-17	0100	6.35	515	3-26	2400	6.17	454
3-06	2400	10.18	2360	3-17	1000	6.15	447				

Flood hydrograph partial-record stations--Continued

MOBILE RIVER BASIN

02400100 TERRAPIN CREEK AT ELLISVILLE, AL--Continued

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge
3-27	0100	6.16	450	4-04	1800	13.08	4420	4-12	1800	12.89	4270
3-27	2400	6.02	403	4-04	2300	11.93	3550	4-12	2000	14.39	5760
3-28	0100	6.02	403	4-04	2400	11.74	3410	4-12	2400	16.32	9000
3-28	2400	5.92	375	4-05	0100	11.56	3290	4-13	0400	17.24	11200
3-29	0200	5.91	373	4-05	0600	10.90	2840	4-13	0800	17.62	12300
3-29	2400	5.84	354	4-05	1900	10.03	2270	4-13	0900	17.78	12800
3-30	0200	5.84	354	4-05	2400	9.77	2120	4-13	1600	17.29	11300
3-30	2400	5.78	339	4-06	0100	9.74	2110	4-13	2000	17.36	11500
3-31	0800	5.78	339	4-06	2400	9.12	1770	4-13	2200	17.22	11100
3-31	2400	5.76	334	4-07	0100	9.10	1760	4-13	2400	16.82	10100
4-01	1500	5.78	339	4-07	2400	8.73	1570	4-14	0100	16.53	9430
4-01	1900	5.76	334	4-08	0100	8.72	1570	4-14	0400	15.42	7230
4-01	2400	5.75	331	4-08	2200	8.51	1470	4-14	0600	14.78	6230
4-02	1100	5.74	328	4-08	2400	8.56	1490	4-14	1100	13.83	5140
4-02	1700	5.74	328	4-09	0100	8.68	1550	4-14	1800	13.03	4380
4-02	2000	5.86	360	4-09	0200	9.02	1710	4-14	2400	12.49	3960
4-02	2100	5.94	380	4-09	0400	9.78	2130	4-15	0100	12.42	3910
4-02	2200	6.12	437	4-09	0500	9.90	2200	4-15	0700	11.91	3540
4-02	2300	6.39	529	4-09	1200	8.91	1660	4-15	2100	10.61	2650
4-02	2400	6.83	707	4-09	2400	8.12	1290	4-15	2400	10.40	2510
4-03	0100	7.58	1040	4-10	0100	8.07	1260	4-16	0100	10.34	2470
4-03	0200	9.05	1730	4-10	1300	7.67	1080	4-16	2200	9.62	2040
4-03	0400	12.01	3610	4-10	2400	7.45	982	4-16	2400	9.59	2020
4-03	0500	13.07	4420	4-11	0100	7.43	964	4-17	0100	9.57	2010
4-03	0600	13.89	5180	4-11	2400	7.18	861	4-17	2400	9.25	1840
4-03	0700	14.50	5880	8-12	0700	7.13	838	4-18	0100	9.24	1830
4-03	1000	15.63	7620	4-12	0900	7.37	946	4-18	2400	8.98	1690
4-03	1400	16.21	8760	4-12	1100	7.43	974	4-19	0100	8.97	1690
4-03	1700	16.03	8390	4-12	1200	7.77	1130	4-19	2400	8.73	1570
4-03	2200	13.76	5070	4-12	1300	8.43	1430	4-20	0100	8.71	1560
4-03	2400	13.04	4390	4-12	1400	9.30	1860	4-20	2300	8.41	1420
4-04	0600	12.32	3840	4-12	1600	11.54	3270	4-20	2400	8.34	1390
4-04	1000	13.17	4510	4-12	1700	12.23	3770				
04-04	1200	13.57	4880								
04-04	1400	13.67	4980								
04-04	1700	13.31	4640								

MOBILE RIVER BASIN

MOBILE RIVER MAIN STEM

02400500 COOSA RIVER AT GADSDEN, AL

LOCATION.--Lat 34°00'37", long 85°59'52", in NE¼ sec. 10, T. 12 S., R. 6 E., Etowah County, Hydrologic Unit 03150106, near midstream in pier of Etowah County Memorial Bridge on Forrest Avenue in Gadsden, 450 ft (137 m) downstream from Louisville & Nashville Railroad bridge 1.5 mi (2.4 km) upstream from Big Wills Creek, and at mile 174.8 (281.3 km).

DRAINAGE AREA.--5,800 mi^2 (15,000 km^2), approximately.

PERIOD OF RECORD.--October 1926 to September 1976. October 1976 to current year (flood hydrograph and gage height record only). Gage-height records collected at same site since 1890 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 682: Drainage area. WSP 1906: 1944, 1947-49, 1951-52, 1954, 1958.

GAGE.--Water-stage recorder. Datum of gage is 485.97 ft (148.124 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1926, nonrecording gage on Louisville & Nashville Railroad bridge 450 ft (137 km) upstream at datum 1.15 ft (0.351 m) higher. Oct. 1, 1926, to Mar. 31, 1932, water-stage recorder, and Apr. 1, 1932, to May 23, 1935, nonrecording gage, at present site and datum. Since May 4, 1965, auxiliary water-stage recorder 2.2 mi (3.5 km) upstream from base gage at present datum.

REMARKS.--Water-discharge record good. Since December 1949, flow regulated by Allatoona Reservoir 158.8 mi (255.5 km) upstream (station 02393500) and since April 1961, by Weiss Reservoir 31.5 mi (50.7 km) upstream (station 02399499).

AVERAGE DISCHARGE.--50 years, (1926-76) 9,468 ft^3/s (268 m^3/s), 22.17 in/yr (563 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,900 ft^3/s (2,180 m^3/s) Apr. 11, 1936, gage height, 31.13 ft (9.488 m); minimum daily, 100 ft^3/s (2.83 m^3/s), many days in water year 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1886, reached a stage of 37.9 ft (11.55 m), from flood-marks established by Corps of Engineers, discharge 115,000 ft^3/s (3,260 m^3/s), from rating curve extended above 80,000 ft^3/s (2,270 m^3/s). Flood of July 15, 1916, reached a stage of 32.7 ft (9.97 m), discharge, 85,000 ft^3/s (2,410 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 56,100 ft^3/s (1,589 m^3/s) Apr. 14, gage height 27.45 ft (8.367 m).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, MEAN VALUE, 1979

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
01-21	20.36	21500	03-08	24.63	52300	04-09	21.66	27200
01-22	21.27	24700	03-09	24.43	51700	04-10	21.33	25100
01-23	21.37	25200	03-10	24.29	51100	04-11	20.70	21800
01-24	21.33	25200	03-11	24.16	50600	04-12	21.05	23400
01-25	21.18	25100	03-12	24.05	49500	04-13	25.15	45500
01-26	21.20	25000	03-13	23.88	48700	04-14	27.29	54300
01-27	21.00	24200	03-14	23.70	47500	04-15	26.60	53700
01-28	20.15	18800	03-15	23.51	42900	04-16	25.32	53100
01-29	18.95	12900	03-16	22.56	32400	04-17	24.52	50200
01-30	18.78	11000	03-17	21.49	26500	04-18	23.96	47900
01-31	18.73	11200	03-18	21.15	25600	04-19	23.68	46600
02-01	18.64	12100	03-19	20.88	25300	04-20	23.51	45900
02-02	18.52	11700	03-20	20.38	22300	04-21	23.36	45300
			03-21	19.58	17900	04-22	23.20	44700
02-24	20.51	25300	03-22	19.29	19900	04-23	23.03	43800
02-25	22.33	27900	03-23	19.60	21900	04-24	23.18	40000
02-26	22.43	28200	03-24	19.75	14600	04-25	23.32	35200
02-27	22.04	27000				04-26	23.92	37100
02-28	21.84	28000	04-01	19.11	8220	04-27	23.97	31000
03-01	21.63	26800	04-02	19.05	11600	04-28	23.54	27500
03-02	21.73	27400	04-03	20.23	22600	04-29	23.28	24300
03-03	21.77	27700	04-04	22.17	32200	04-30	22.95	23200
03-04	25.12	45600	04-05	21.99	36800	05-01	22.35	17900
03-05	26.65	52300	04-06	22.40	39400	05-02	22.06	15200
03-06	26.36	54300	04-07	22.42	33000	05-03	21.73	15600
03-07	25.10	53500	04-08	21.87	28400	05-04	21.71	14900

02401000 BIG WILLS CREEK NEAR CRUDUP, AL

LOCATION.--Lat 34°05'53", long 86°02'17", in SE¼ sec. 6, T. 11 S., R. 6 E., Etowah County, Hydrologic Unit 03150106, near right bank on upstream side of bridge on county road, 1 mi (1.6 km) upstream from Fisher Creek, 2 mi (3.2 km) west of Crudup, and at mile 25.0 (40.2 km).

DRAINAGE AREA.--185 mi^2 (479 km^2).

PERIOD OF RECORD.--October 1943 to September 1970. October 1970 to September 1979 (flood hydrograph only). Converted to crest-stage partial-record station.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage 570 ft (174 m) (by barometer). Prior to July 10, 1957, non-recording gage at site 100 ft (30 m) downstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--27 years (1943-70), 304 ft^3/s) (8.609 m^3/s), 22.32 in/yr (567 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft^3/s (419 m^3/s) Mar. 29, 1951, gage height, 14.5 ft (4.42 m) from floodmarks. Minimum observed, 21 ft^3/s (0.59 m^3/s) Sept. 22, 1955, Dec. 5, 1956, gage height, 1.26 ft (0.384 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1884 reached a stage of 16.3 ft (4.97 m) from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft^3/s (102 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1600	9860	279	13.46	4.103	Apr. 13	2200	*10,000	280	*13.48	4.109

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
2-20	0200	3.16	269	2-26	0100	9.89	3,520	3-03	2000	6.74	1,460
2-20	0900	3.22	282	2-26	1200	9.68	3,290	3-03	2100	7.19	1,660
2-20	1600	3.20	276	2-26	2100	9.22	2,820	3-03	2400	8.77	2,430
2-20	2400	3.37	315	2-26	2400	8.93	2,610				
								3-04	0300	9.97	3,010
2-21	0900	3.64	378	2-27	0100	8.87	2,520	3-04	0900	11.91	6,070
2-21	2400	4.23	541	2-27	1000	7.45	1,770	3-04	1100	12.59	8,220
				2-27	1700	6.58	1,390	3-04	1400	13.25	9,540
				2-27	2400	6.11	1,200	3-04	1700	13.44	9,920
2-22	1000	4.52	620					3-04	2000	13.46	9,960
2-22	1300	4.57	644					3-04	2400	13.41	9,860
2-22	1600	4.55	636	2-28	0100	6.05	1,160				
2-22	2400	4.47	613	2-28	1300	5.47	951				
				2-28	2200	5.17	842	3-05	0100	13.36	9,760
				2-28	2400	5.14	832	3-05	0700	13.10	9,240
2-23	0100	4.44	604					3-05	1100	12.52	8,080
2-23	1300	4.27	553					3-05	1900	10.83	4,830
2-23	2200	4.23	541	3-01	1100	5.33	899	3-05	2300	10.19	3,870
2-23	2400	4.32	568	3-01	1600	5.37	913	3-05	2400	10.07	3,720
				3-01	1900	5.33	899				
				3-01	2400	5.20	852				
2-24	0200	4.64	667					3-06	0100	9.94	3,570
2-24	0300	4.95	767					3-06	0700	9.09	2,700
2-24	0600	6.01	1,160	3-02	0100	5.16	836	3-06	1300	8.28	2,160
2-24	1100	6.76	1,470	3-02	0500	5.04	796	3-06	2300	7.07	1,600
2-24	1800	7.68	1,880	3-02	0600	4.19	529	3-06	2400	6.99	1,570
2-24	2400	8.70	2,400	3-02	0700	4.98	777				
				3-02	2100	4.64	667				
				3-02	2400	4.59	651	3-07	0100	6.92	1,540
2-25	0600	9.68	3,290					3-07	1200	6.23	1,250
2-25	1000	9.91	3,540					3-07	2400	5.77	1,070
2-25	1300	9.94	3,570	3-03	0700	4.51	625				
2-25	2100	9.86	3,490	3-03	1100	4.80	654				
2-25	2400	9.91	3,540	3-03	1400	4.82	724	3-08	0100	5.75	1,060
				3-03	1500	4.99	781	3-08	2100	5.27	877
				3-03	1700	5.22	1,010	3-08	2400	5.19	849

Flood hydrograph partial-record stations--Continued

MOBILE RIVER BASIN

02401000 BIG WELLS CREEK NEAR CRUDUP, AL--Continued

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
4-11	0200	4.26	550	4-13	2200	13.48	10,000	4-16	2400	5.99	1,100
4-11	0100	4.26	550	4-13	2300	13.45	9,940				
4-11	2400	4.03	482	4-13	2400	13.45	9,940				
								4-17	0100	5.94	1,140
								4-17	1800	5.28	881
4-12	0800	4.00	474	4-14	0100	13.37	9,760	4-17	2400	5.12	825
4-12	0900	4.49	619	4-14	1000	12.64	8,320				
4-12	1100	4.93	760	4-14	2400	10.71	4,840				
4-12	1300	5.15	835					4-18	0100	5.10	818
4-12	1400	5.36	910					4-18	2400	4.88	800
4-12	1800	6.40	1,320	4-15	0100	10.58	4,430				
4-12	2100	7.16	1,640	4-15	0500	10.13	3,800				
4-12	2400	8.18	2,110	4-15	1000	8.77	2,450	4-19	0100	4.67	678
				4-15	2300	7.28	1,980	4-19	2400	4.41	595
				4-15	2400	7.14	1,900				
4-13	0300	9.03	2,850								
4-13	0800	9.93	3,580					4-20	0100	4.40	592
4-13	0800	10.64	4,320	4-16	0100	7.14	1,900	4-20	2400	4.22	530
4-13	1300	12.40	7,840	4-16	0300	7.50	1,800				
4-13	1700	13.20	9,440	4-16	1300	6.61	1,410				

MOBILE RIVER BASIN

02404400 CHOCCOLOCCO CREEK AT JACKSON SHOALS, NEAR LINCOLN, AL

LOCATION.--Lat 33°32'54", long 86°05'49", in SE¼ sec. 15, T. 17 S., R. 5 E., Talladega County, Hydrologic Unit 03150106, on left bank at foot of Jackson Shoals, 50 ft (15 m) upstream from Alabama Power Company Jackson Shoals transformer station, 900 ft (274 m) upstream from highway bridge, 1.8 mi (2.9 km) downstream from Eastaboga Creek, and 4.5 mi (7.2 km) southeast of Lincoln.

DRAINAGE AREA.--484 mi^2 (1,254 km^2).

PERIOD OF RECORD.--October 1960 to September 1967, October 1967 to September 1970 (annual maximum only), October 1970 to September 1974 continuous gage-height record in files of Geological Survey, October 1974 to current year (flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 448.50 ft (136.703 m) National Geodetic Vertical Datum of 1929 (Alabama Power Company bench mark).

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--7 years (water years 1960-1967), 807 ft^3/s (22.85 m^3/s), 22.64 in/yr (575 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,900 ft^3/s (1,040 m^3/s) Apr. 30, 1963, gage height, 39.98 ft (12.186 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1951 reached a stage of 42.4 ft (12.92 m) from floodmarks.

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

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1400	*30,100	852	*37.76	11.509	Apr. 13	1900	*30,100	852	*37.76	11.509
Apr. 3	1300	19,700	558	33.80	10.302	Apr. 27	0200	7,800	221	26.54	8.089

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
3-02	2400	19.49	955	4-02	2300	21.42	2,300	4-14	0100	36.79	27,200
				4-02	2400	23.60	4,270	4-14	2100	30.59	13,500
3-03	1500	19.45	933								
3-03	1700	19.63	1,040	4-03	0400	30.20	12,900	4-15	0100	29.54	12,000
3-03	2000	20.56	1,640	4-03	0800	32.82	17,800	4-15	0600	28.76	10,900
3-03	2100	21.21	2,130	4-03	1300	33.80	19,700	4-15	2400	26.68	7,980
3-03	2200	22.87	3,550	4-03	1400	33.70	19,500				
3-03	2300	24.76	5,570	4-03	2400	30.53	13,400	4-16	0100	26.58	7,850
3-03	2400	26.81	8,150					4-16	2400	24.57	5,340
				4-04	0100	30.10	12,800				
3-04	0500	34.03	20,200	4-04	0500	29.24	11,500	4-24	2400	20.64	1,700
3-04	1400	37.76	30,100	4-04	1600	29.71	12,200				
3-04	2400	35.55	23,800	4-04	2400	27.76	9,460	4-25	1200	20.91	1,900
								4-25	1800	22.54	3,260
3-05	0100	35.19	22,900	4-05	0100	27.49	9,090	4-25	2400	24.70	5,500
3-05	1000	32.56	17,300	4-05	1300	25.49	6,450				
3-05	2400	28.24	10,100	4-05	2400	24.43	5,180	4-26	0300	25.45	6,400
								4-26	0600	25.91	6,980
3-06	0100	27.98	9,770	4-06	0100	24.32	5,060	4-26	1200	25.42	6,360
3-06	1000	26.78	8,110	4-06	2400	22.97	3,640	4-26	1900	24.31	5,050
3-06	2400	25.81	6,850					4-26	2200	25.09	5,970
				4-07	0100	22.94	3,620	4-26	2400	26.17	7,320
3-07	0100	25.76	6,790	4-07	2400	22.20	2,950				
3-07	2400	24.24	4,970					4-27	0200	26.54	7,800
				4-10	2400	21.45	2,320	4-27	0300	26.45	7,680
3-08	0100	24.18	4,910					4-27	0600	25.75	6,780
3-08	2000	22.84	3,530	4-11	0200	21.44	2,310	4-27	1200	24.58	5,360
3-08	2100	22.00	2,780	4-11	2400	21.11	2,050	4-27	1800	23.87	4,570
3-08	2200	22.75	3,450					4-27	2400	23.35	4,020
3-08	2400	22.57	3,280	4-12	0800	21.16	2,090				
				4-12	1200	22.09	2,860	4-28	1200	22.65	3,360
3-09	0100	22.52	3,240	4-12	1300	22.60	3,310	4-28	2400	21.97	2,750
3-09	2400	21.79	2,600	4-12	1500	24.70	5,500				
				4-12	2200	33.32	18,700	4-29	1200	21.65	2,480
4-01	2400	18.99	685	4-12	2400	34.15	20,400	4-29	2400	21.34	2,230
4-02	1900	18.98	680	4-13	0900	35.52	23,800	4-30	1200	21.15	2,080
4-02	2000	19.09	735	4-13	1900	37.76	30,100	4-30	2400	20.92	1,900
4-02	2100	19.36	883	4-13	2400	36.92	27,600				
4-02	2200	19.96	1,240								

MOBILE RIVER BASIN

MOBILE RIVER MAIN STEM

02407000 COOSA RIVER AT CHILDERSBURG, AL

LOCATION.--Lat 33°17'30", long 86°21'50", in NE¼ sec. 18, T. 20 S., R. 3 E., Shelby County, Hydrologic Unit 03150107, near right bank on downstream side of Central of Georgia Railway bridge, 700 ft (213 m) upstream from bridge on State Highway 38, 0.5 mi 0.8 km) downstream from Tallasseehatchee Creek, 1 mi (2 km) northwest of Childersburg, and at mile 86.3 (138.9 km).

DRAINAGE AREA.--8,390 mi^2 (21,730 km^2), approximately.

PERIOD OF RECORD.--October 1913 to September 1978. October 1978 to current year (flood hydrograph only). Monthly discharge only for periods October 1913 to February 1914, June 1915, July to September, November 1916, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 382.45 ft (116.571 m) National Geodetic Vertical Datum of 1929 (levels by Alabama Power Co.). Prior to Oct. 1, 1915, at datum 0.10 ft (0.030 m) lower. Since Sept. 29, 1967, auxiliary water-stage recorder, 3.5 mi (5.6 km) downstream.

REMARKS.--Water-discharge record poor. Since December 1949 flow regulated by Allatoona Reservoir on Etowah River, since April 1961 by Weiss Reservoir on Coosa River, since July 1964 by Logan-Martin Reservoir. (See Reservoirs in Mobile River basin.)

AVERAGE DISCHARGE.--65 years (1913-78), 13,860 ft^3/s (392.5 m^3/s), 22.43 in/yr (570 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150,000 ft^3/s (4,248 m^3/s) Apr. 14, 1979; maximum gage height, 30.41 ft (9.269 m) Feb. 23, 1961; minimum daily discharge, 378 ft^3/s (10.7 m^3/s) Apr. 20, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 150,000 ft^3/s (4,248 m^3/s) Apr. 14, gage height, 28.99 ft (8.836 m).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
3-03	2400	19.52	65300	3-11	0600	19.96	71100	4-16	0600	26.87	133000
				3-11	1200	19.89	69100	4-16	1200	26.31	127000
3-04	0600	21.53	78100	3-11	1800	19.86	68100	4-16	1800	25.65	118000
3-04	1200	22.79	91300	3-11	2400	19.79	67700	4-16	2400	24.93	110000
3-04	1800	24.32	110000								
3-04	2400	25.10	117000	3-12	0600	19.71	68800	4-17	0600	24.02	101000
				3-12	1200	19.59	65700	4-17	1200	23.30	97400
3-05	0300	25.16	119000	3-12	1800	19.43	62400	4-17	1800	22.47	87700
3-05	0600	25.12	116000					4-17	2400	21.91	84500
3-05	1200	24.82	111000	3-13	0600	19.30	63300				
3-05	1800	24.53	111000	3-13	1800	19.19	60300	4-18	0600	21.56	82100
3-05	2400	24.22	107000	3-13	2400	19.06	59600	4-18	1200	21.15	77100
								4-18	1800	20.70	74400
3-06	0600	23.89	107000	3-14	0600	19.03	60200	4-18	2400	20.46	74500
3-06	1200	23.47	101000	3-14	2400	18.69	58600				
3-06	1800	23.15	98400					4-19	0600	20.29	74200
3-06	2400	22.93	95600	4-12	1200	15.96	43700	4-19	1200	19.99	70500
				4-12	1800	19.54	77400	4-19	2400	19.48	65900
3-07	0600	22.73	95000	4-12	2400	21.61	84400				
3-07	1200	22.68	91900					4-20	1200	19.28	64700
3-07	1800	22.52	91200	4-13	0600	22.89	93300	4-20	2400	19.25	64500
3-07	2400	22.44	91600	4-13	1200	24.87	115000				
				4-13	1800	26.58	132000	4-21	1200	19.18	63400
3-08	0600	22.33	91800	4-13	2400	27.87	146000	4-21	1800	18.97	60000
3-08	1200	22.12	87100					4-21	2400	18.81	58900
3-08	1800	22.09	88800	4-14	0600	28.68	150000				
				4-14	1200	28.92	148000	4-22	0600	18.78	59700
3-09	0600	21.95	88700	4-14	1500	28.99	149000	4-22	2400	18.71	60200
3-09	1200	21.68	84100	4-14	1800	28.96	148000				
3-09	2400	20.91	76700	4-14	2400	28.82	148000	4-23	0600	18.68	59300
3-10	0600	20.74	75600	4-15	0600	28.49	145000				
3-10	1200	20.37	70500	4-15	1200	28.11	141000				
3-10	1800	19.99	68800	4-15	1800	27.69	138000				
3-10	2400	19.93	70100	4-15	2400	27.28	134000				

MOBILE RIVER BASIN

MOBILE RIVER MAIN STEM

02429500 ALABAMA RIVER AT CLAIBORNE, AL

LOCATION.--Lat 31°32'48", long 87°30'45", in sec. 25, T. 7 N., R. 5 E., Monroe County, Hydrologic Unit 03150204, near left bank on downstream side of bridge on U.S. Highway 84 at Claiborne, 0.5 mi (0.8 km) downstream from Limestone Creek, 12 mi (19 km) west of Monroeville, and at mile 76.1 (122.4 km).

DRAINAGE AREA.--22,000 mi^2 (57,000 km^2), approximately.

PERIOD OF RECORD.--April 1930 to September 1975, October 1979 to current year (flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 0.4 ft (0.12 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by reservoirs on Etowah, Coosa, Tallapoosa, and Alabama Rivers. (See Reservoirs in Mobile River basin.)

AVERAGE DISCHARGE.--45 years (water years 1930-75), 32,540 ft^3/s (921.5 m^3/s), 20.08 in/yr (510 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 267,000 ft^3/s (7,560 m^3/s) Mar. 7, 1961; maximum gage height, 55.15 ft (16.810 m) Mar. 7, 1961; 1930-75, minimum daily discharge, 2,850 ft^3/s (80.7 m^3/s) July 13, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 217,000 ft^3/s (6,150 m^3/s) Apr. 22, maximum gage height, 51.29 ft (15.633 m).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1979

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
3-01	1200	41.73	117000	3-15	2400	45.85	141000	4-11	1800	47.55	166000
3-01	2400	41.62	114000								
				3-16	1200	44.98	131000	4-12	1200	46.80	153000
3-02	1200	41.25	109000	3-16	2400	44.00	123000				
3-02	2400	40.45	101000					4-13	1200	45.30	137000
				3-17	1200	42.95	114000				
3-03	1200	39.33	93300	3-17	2400	41.85	106000	4-14	1200	43.70	125000
3-03	2400	39.50	115000								
				3-18	1200	40.55	98200	4-15	1200	43.32	130000
3-04	1200	40.80	125000	3-18	2400	39.00	91800				
3-04	2400	42.20	132000					4-16	1200	44.00	139000
				3-19	1200	37.45	82000				
3-05	1200	43.20	138000	3-19	2400	35.74	75500	4-17	1200	45.20	152000
3-05	2400	44.20	145000					4-17	2400	45.94	162000
				3-20	1200	34.15	68900				
3-06	1200	45.02	150000	3-20	2400	32.92	64800	4-18	1200	46.75	172000
3-06	2400	45.75	158000					4-18	2400	47.65	182000
				3-21	1200	31.35	56900				
3-07	1200	46.40	165000	3-21	2400	29.18	50800	4-19	1200	48.45	190000
3-07	2400	46.95	171000					4-19	2400	49.10	198000
				4-02	2400	20.90	42700				
3-08	1200	47.45	175000					4-20	1200	49.75	205000
3-08	2400	47.89	176000	4-03	1200	a	73000	4-20	2400	50.25	209000
				4-03	2400	a	96000				
3-09	1200	48.30	183000					4-21	1200	50.68	212000
3-09	2400	48.70	188000	4-04	1200	a	110000	4-21	2400	51.00	216000
				4-04	2400	a	125000				
3-10	1200	49.00	192000					4-22	1200	51.24	217000
3-10	1800	49.25	197000	4-05	1200	42.60	136000	4-22	2400	51.29	214000
3-10	2400	49.36	196000	4-05	2400	43.75	145000				
								4-23	1800	51.18	210000
3-11	0600	49.48	196000	4-06	1200	44.75	151000				
3-11	1200	49.57	197000	4-06	2400	45.40	154000	4-24	1200	50.71	200000
3-11	1800	49.58	195000								
				4-07	1200	46.00	161000	4-25	1200	49.35	175000
3-12	1200	49.55	191000	4-07	2400	46.45	164000				
3-12	2400	49.37	185000					4-26	1200	47.24	149000
				4-08	1200	46.85	166000				
3-13	1200	49.00	180000	4-08	2400	47.30	170000	4-27	1200	44.80	127000
3-13	2400	48.55	172000								
				4-09	1200	47.62	173000	4-28	1200	43.30	123000
3-14	1200	48.00	165000	4-09	2400	47.85	176000				
3-14	2400	47.40	156000					4-29	1200	42.93	126000
				4-10	1200	47.95	173000				
3-15	1200	46.65	150000	4-10	2400	47.90	171000				

a No gage-height record.

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, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are 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 1979

Station No.	Station name	Location	Drainage area (mi2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft3/s)
		Apalachicola River basin					
02358785	Cowarts Creek near Cottonwood, AL	Lat 31°01'30", long 85°14'07", in sec. 10, T. 7 N., R. 10 W., Houston County, 5.4 mi (8.7 km) east-southeast of Cottonwood.	104 (269 km2)	1971-79	3-04-79	11.42	10,600
		Choctawhatchee River basin					
02362610	Bluff Creek near Midway, AL	Lat 32°03'00", long 85°34'21", in E½ sec. 6, T. 12 N., R. 25 E., Bullock County, 4.0 mi (6.4 km) southeast of Midway.	19.4 (50.2 km2)	1972-79	4-04-79	13.26	3,710
02363055	Moores Branch near Victoria, AL	Lat 31°26'47", long 85°53'57", in SE¼ sec. 25, T. 6 N., R. 21 E., Coffee County, on State Highway 167, 5 mi (8 km) south of Victoria, and 0.8 mi (1.3 km) above mouth.	2.17 (5.62 km2)	1974-75##, 1976-79		<2.27	<164
02365310	Grants Branch Tributary near Fadette, AL	Lat 31°02'21", long 85°35'11", in SE¼ sec. 24, T. 1 N., R. 24 E., Geneva County, at culvert on county road No. 91, 4.8 mi (7.7 km) south of Slocomb.	1.50 (3.89 km2)	1972-79	3-04-79	6.68	435
		Escambia River basin					
02372800	Stallings Creek near Greenville, AL	Lat 31°46'36", long 86°38'45", in SW¼ sec. 3, T. 9 N., R. 14 E., Butler County 4.0 mi (6.4 km) south of Greenville at U.S. Highway 31, and 3.2 mi (5.1 km) above mouth.	35.9 (93.0 km2)	1972-79	3-04-79	10.60	4,230
02374970	Sizemore Creek near Robinsonville, AL	Lat 31°06'54", long 87°23'30", in NW¼ sec. 32, T. 2 N., R. 7 E., Escambia County, about 9.0 mi (14.5 km) northeast of Atmore, near Robinsonville.	78.3 (202.8 km2)	1971-79	3-04-79	26.21	2,770
		Mobile River basin					
02400033	Nances Creek near White Plains, AL	Lat 33°50'43", long 85°40'00", in SW¼ sec. 2, T. 14 S., R. 9 E., Calhoun County, on upstream wingwall of culvert on State Highway 9, 6 mi (9.7 km) southwest of Piedmont, and 6.5 mi (10.4 km) northeast of White Plains	4.60 (11.91 km2)	1970-74##, 1970-79	3-04-79	6.12	1,010
02407680	Waxahatchee Creek near Columbiana, AL	Lat 33°10'49", long 86°39'08", in NW¼ sec. 28, T. 21 S., R. 1 W., Shelby County, 3.0 mi (4.8 km) west of Columbiana along State Highway 70.	32.7 (84.7 km2)	1971-79	4-13-79	15.90	7,900
02409540	Proctor Creek near Rockford, AL	Lat 32°49'08", long 86°21'52", in SW¼ sec. 9, T. 21 N., R. 17 E., Coosa County, at culvert on State Highway 22, 10 mi (16 km) west of Rockford	1.02 (2.64 km2)	1972-79	3-04-79	8.33	981
02412050	Cane Creek near Heflin, AL	Lat 33°39'16", long 85°31'52", in NW¼ sec. 7, T. 16 S., R. 11 E., Cleburne County, 3.5 mi (5.6 km) east of Heflin, and approximately 3.0 mi (4.8 km) above mouth.	47.8 (123.8 km2)	1971-79	3-04-79	11.76	7,400

Operated as a flood hydrograph and rainfall station.

Annual maximum discharge at crest-stage partial-record stations during water year 1979--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft^3/s)
		Mobile River basin--Continued					
02412320	Elder Creek near Dempsy, AL	Lat 33°27'48", long 85°46'33", in NE¼ sec. 14, T. 18 S., R. 8 E., Clay County, on upstream side of pipe culvert on State Highway 49, 1.2 mi (1.9 km) north of Dempsy, and 10 mi (16 km) north of Lineville, and about 5 mi (8 km) above mouth.	1.79 (4.64 km^2)	1973-75≠≠, 1976-79	3-04-79	10.18	953
02414765	Enitachopoco Creek below Ashland, AL	Lat 33°23'07", long 86°00'51", on section line between sections 6 and 7, T. 21 S., R. 8 E., Clay County, at county road 3.5 mi (5.6 km) south of Ashland.	25.8 (66.8 km^2)	1972	1-10-72	8.99	b2,100
				1972-73	3-18-73	11.6	b3,870
				1972-74	4-04-74	6.15	b970
				1972-75	9-23-75	9.82	b2,550
				1972-76	1-26-76	11.53	b3,810
				1972-77	3-29-77	11.22	b3,550
				1972-78	5-08-78	8.96	b2,080
				1972-79	3-04-79	15.38	8,820
02419835	Chubbahatchee Creek near Friendship, AL	Lat 32°30'38", long 86°04'31", in SE¼ sec. 29, T. 18 N., R. 20 E., Elmore County, about 5 mi (8 km) west of Friendship, along County Road 8.	45.7 (118.4 km^2)	1971	3-02-71	33.06	b4,090
				1971-72	3-11-72	31.11	b2,990
				1971-73	2-02-73	30.21	b2,500
				1971-74	No peak above		b1,210
				1971-75	4-14-75	35.16	b5,350
				1971-76	1-26-76	30.30	b2,550
				1971-77	3-29-77	29.43	b2,120
				1971-78	1-26-78	31.77	b3,350
				1971-79	3-05-79	30.22	2,510
02421256	Swift Creek near Vida, AL	Lat 32 34'06", long 86 40'34", sec. 4, T. 18 N., R. 14 E., Autauga County, about 12 mi (19 km) northwest of Prattville along U.S. Highway 82, near Vida.	99.4 (257	1970-79	3-04-79	63.97	≠
02424010	Sandy Creek near Centreville, AL	Lat 32°53'00", long 86°59'48", in SW¼ sec. 8, T. 22 N., R. 11 E., Bibb County at culvert on U.S. Highway 82, 8 mi (13 km) southeast of Centreville, and about 10 mi (about 16 km) upstream from mouth.	0.63 (1.63 km^2)	1971-74≠≠, 1975-78	6-08-78	3.25	100
02429650	Majors Creek near Tensaw, Ala.	Lat 31°07'43", long 87°49'06", in SW¼ sec. 18, T. 2 N., R. 3 E., Baldwin County, about 10 mi (16 km) north of Stockton and 3 mi (5 km) south of Tensaw, along State Highway 59.	44.7 (115.8 km^2)	1970-79	unknown	5.83	661

≠ Discharge not determined.
≠≠ Operated as a flood hydrograph and rainfall station.
b Revised.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin				
02398201 Berry Spring	Mills Creek	Lat 34°25'47", long 85°30'27", in SW¼ sec. 17, T. 7 S., R. 11 E., Cherokee County, 4 mi (6 km) northeast of Jamestown.	.....	1968-71, 1973-75, 1977-78	10-26-78	a1.94
02399205 Congo Spring	Unnamed tributary	Lat 34°17'48", long 85°39'49", in SW¼ sec. 35, T. 8 S., R. 9 E., Cherokee County, 6 mi (9 km) southwest of Blanche.	.....	1954-55, 1962, 1968-71, 1973-75, 1977-78	10-26-78	a2.14
02400550 Allen Spring	Allen Branch	Lat 34°31'00", long 85°39'23", in NE¼ sec. 14, T. 6 S., R. 9 E., DeKalb County, at county road 4 mi (6 km) southwest of Valley Head.	.....	1968-71, 1973-75, 1977-78	10-25-78	a0.95
02401093 Black Creek	Big Wills Creek	Lat 34°04'48", long 85°58'45", in NE¼ sec. 14, T. 11 S., R. 6 E., Etowah County, 3 mi (4.8 km) east of Reese City.	44.9 (117 km^2)	1967	6- 5-79 8-24-79	a33.0 a1.24
02401387 Muckleroy Spring	Muckleroy Creek	Lat 35°53'45", long 86°18'41", in NW¼NE¼NE¼ sec. 22, T. 13 S., R. 3 E., St. Clair County, 800 ft (244 m) upstream from Muckleroy Creek, and 1.6 mi (2.6 km) northwest of Whitney.	.....	1969-74,‡ 1977-78	10-24-78	a1.24
02401590 Shoal Creek	Coosa River	Lat 33°48'08", long 86°07'02", in sec. 21, T. 14 S., R. 5 E., St. Clair County, at county road, 3 mi (4.8 km) upstream from mouth, and 4.8 mi (7.7 km) north of Ragland.	27.6 (71.9 km^2)	1967-68	6- 5-79 8-23-79	a34.6 a5.23
02401650 Webster Chapel Spring	Unnamed tributary	Lat 33°53'57", long 85°50'29", in SW¼SE¼NW¼ sec. 18, T. 13 S., R. 8 E., Calhoun County, 1.4 mi (2.3 km) south-southwest of Webster Chapel, and 6.9 mi (11.1 km) south-southwest of Hokes Bluff.	.....	1975, 1977-78	10-26-78	a2.22
02401730 Germania Spring	Tallahatchee Creek	Lat 33°50'50", long 85°45'25", in SW¼NW¼ sec. 1, T. 14 S., R. 8 E., Calhoun County at Jacksonville.	.....	1957-60, 1965, 1974-75, 1977-78	10-26-78	a2.35
02401775 Seven Springs	Unnamed tributary	Lat 33°51'08", long 85°51'44", in SW¼ sec. 36, T. 13 S., R. 7 E., Calhoun County at State Highway 204, 1000 ft (300 m) upstream from mouth and 1.8 mi (2.9 km) northwest of Angel.	.....	1956-60, 1969-71, 1973-75, 1977-78	10-27-78	a4.82
02401850 McCullars Spring	Unnamed tributary	Lat 33°59'13", long 85°56'01", in SW¼ sec. 29, T. 14 S., R. 7 E., Calhoun County, at culvert on county road crossing, 3 mi (4.8 km) northwest of Alexandria.	.....	1958-59, 1968-70, 1973-75, 1977-78	10-27-78	a3.68
02405500 Kelly Creek	Coosa River	Lat 33°26'51", long 86°23'13", in SW¼ sec. 24, T. 18 S., R. 2 E., Shelby County, near left bank on downstream side of bridge on State Highway 53, 4.2 mi (6.8 km) north of Vincent.	192 (497 km^2)	1951-70‡	8-23-79	a30.5
02407741 Mill Creek	Waxahatchee Creek	Lat 33°03'08", long 86°34'46", in NW¼ sec. 21, T. 24 N., R. 15 E., Shelby County, at county road, 1.5 mi (2.4 km) southwest of Bay Spring Church, and 4.0 mi (6.4 km) south of Shelby.	.....	1968-71, 1974, 1977	11- 3-78	a1.93

‡ Operated as a continuous-record station.
a Base flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
02423130 Cahaba River	Alabama River	Lat 33°37'50", long 86°35'58", in SW¼ sec. 24, T. 16 S., R. 1 W., Jefferson County, at U.S. Highway 11, 0.4 mi (0.6 km) northeast of Trussville.	20.0 (52.1 km^2)	1964-68, 1970, 1972	6-13-79 8-29-79	a10.8 a7.26
02423190 Big Black Creek	Cahaba River	Lat 33°35'45", long 86°31'53", in NW¼SW¼ sec. 34, T. 16 S., R. 1 E., St. Clair County, at county road 3 mi (4.8 km) north of Leeds.	41.2 (107 km^2)	1967-68	6-13-79	a11.7
02423398 Little Cahaba River	Cahaba River	Lat 33°31'28", long 86°34'32", in SE¼ sec. 30, T. 17 S., R. 1 E., Jefferson County, at county road 2.3 mi (3.7 km) southwest of Leeds.	19.4 (50.5 km^2)	1943-49, 1952-54, 1964, 1968-69, 1972	6-13-79	a13.2
02423580 Shades Creek	Cahaba River	Lat 33°27'56", long 86°46'54", in SE¼ sec. 18, T. 18 S., R. 2 W., Jefferson County, 0.2 mi (0.3 km) southwest of U.S. Highway 31, and 1 mi (1.6 km) southeast of Homewood.	20.8 (54.2 km^2)	1943-44, 1945, 1948, 1967-68, 1971-72	6-14-79 8-28-79	a7.20 a5.35
02423638 Tannehill Spring	Mud Creek	Lat 33°15'33", long 87°04'52", in SW¼NW¼NE¼ sec. 32, T. 20 S., R. 5 W., Tuscaloosa County at culvert on Southern Railroad, 1.0 mi (1.6 km) northwest of Tannehill State Park, and 1.4 mi (2.2 km) south of Bucksville.	.....	1972	11-22-78	1.13
02424025 Lightseys Pond Spring	Cahaba River	Lat 32°54'34", long 87°07'20", in SE¼SE¼ sec. 1, T. 22 N., R. 9 E., Bibb County, at State Highway 219, 2.5 mi (4.0 km) south of Centreville.	.....	1957, 1971, 1973-75, 1977-78	11- 2-78	27.3

a Base flow.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02401093 BLACK CREEK NEAR REESE CITY, AL (Lat 34 04 48 Long 085 58 45)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
05...	1030	33	38	5.9	19.5	10	0	8	20	6.5
AUG										
24...	1110	1.2	54	7.6	22.5	26	0	21	1.0	5.3

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
05...	--	--	--	--	--	1500	970	530	--	--
AUG										
24...	0	<10	<10	<10	<10	1500	750	750	2200	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
05...	110	20	90	--	--	--	--	25	2.2
AUG									
24...	--	0	420	30	.00	0	<10	25	.08

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02401590 SHOAL CREEK NEAR RAGLAND, AL (Lat 33 48 08 Long 086 07 02)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
05...	1300	35	93	7.5	19.0	54	0	44	2.7	3.0
AUG										
23...	1110	5.2	224	7.5	23.0	190	0	156	9.6	2.6

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
05...	--	--	--	--	--	1000	350	650	--	--
AUG										
23...	2	<10	<10	<10	<10	230	160	70	3500	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
05...	40	10	30	--	--	--	--	17	1.6
AUG									
23...	50	30	20	50	.00	0	10	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02405500 KELLY CREEK NEAR VINCENT, AL (Lat 33 26 51 Long 086 23 13)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN									
05...	1430	185	58	7.0	20.5	28	0	23	4.5
AUG									
23...	1345	30	78	7.1	25.5	42	0	34	5.3

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)
JUN									
05...	4.1	--	--	--	--	1100	740	360	--
AUG									
23...	2.8	<10	10	<10	<10	800	370	430	6100

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
05...	--	60	10	50	--	--	--	34	17
AUG									
23...	<10	70	10	60	320	.00	20	17	1.4

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02423130 CAHABA RIVER AT TRUSSVILLE, AL (Lat 33 37 50 Long 086 35 58)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	1225	11	150	7.4	21.0	80	0	66	5.1	5.3
AUG										
29...	1230	7.3	112	7.6	24.5	64	0	52	2.6	4.5

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	170	130	40	--	--
AUG										
29...	0	<10	20	<10	<10	710	660	50	1900	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	20	0	20	--	--	--	--	7	.21
AUG									
29...	70	--	--	330	.00	0	60	37	.73

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02423190 BIG BLACK CREEK NEAR LEEDS, AL (Lat 33 35 45 Long 086 31 53)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)
JUN									
13...	1520	12	308	7.0	22.0	19	0	16	3.0
AUG									
29...	1130	12	680	7.8	24.0	140	0	115	3.6

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	110	1500	1300	230	600	0	600	3	.10
AUG									
29...	--	--	--	--	--	--	--	10	.33

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02423390 CAHABA RIVER AT PUMP STATION NEAR BIRMINGHAM, AL (Lat 33 27 05 Long 086 42 58)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
(ND denotes constituent not detected)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT										
31...	1510	230	7.6	17.5	7.2	100	--	32	5.6	3.5
MAR										
06...	1540	102	7.1	10.5	10.7	33	10	8.4	2.8	6.2
MAY										
24...	1230	168	7.5	22.5	7.4	61	12	16	5.1	9.1
SEP										
06...	1110	114	7.2	25.0	6.7	51	19	12	5.0	5.8

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT									
31...	7	.2	3.3	--	--	--	--	8.8	3.8
MAR									
06...	28	.5	1.1	27	0	22	3.4	23	1.7
MAY									
24...	24	.5	1.6	60	0	49	3.0	32	2.1
SEP									
06...	19	.4	2.0	38	0	31	3.8	19	4.2

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
OCT									
31...	.1	7.3	--	--	1.4	6.4	1	<50	<1
MAR									
06...	.1	5.0	64	.09	.43	1.9	ND	100	<1
MAY									
24...	.0	5.6	102	.14	.18	.80	<1	60	ND
SEP									
06...	.1	8.9	76	.10	.13	.57	1	70	<1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
OCT									
31...	ND	3	20	2	42	.8	ND	80	40
MAR									
06...	ND	3	50	<1	5	<.2	ND	30	10
MAY									
24...	ND	7	40	ND	25	.3	ND	60	20
SEP									
06...	ND	10	70	1	<5	<.2	--	30	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02423398 LITTLE CAHABA RIVER NEAR LEEDS, AL (Lat 33 31 28 Long 086 34 32)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
13...	1345	13	420	7.6	21.0	200	0	164	8.0	40
AUG										
29...	1015	14	432	8.1	22.5	190	0	156	2.4	51

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
13...	--	--	--	--	--	80	50	30	--	--
AUG										
29...	0	<10	70	20	<10	760	720	40	20000	70

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
13...	20	0	20	--	--	--	--	69	2.4
AUG									
29...	50	30	20	480	.00	0	60	42	1.6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02423425 CAHABA RIVER NEAR CAHABA HEIGHTS, AL (Lat 33 24 56 Long 086 44 23)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
14...	1145	28	177	7.5	24.0	82	0	67	4.1	12
AUG										
28...	1400	28	236	7.4	26.0	110	0	90	7.0	12

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)
JUN										
14...	--	--	--	--	--	260	230	30	--	--
AUG										
28...	0	<10	10	<10	<10	410	380	30	11000	<10

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
14...	40	30	10	--	--	--	--	13	.98
AUG									
28...	70	60	10	320	.00	0	20	12	.93

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02423580 SHADES CREEK NEAR HOMEWOOD, AL (Lat 33 27 56 Long 086 46 54)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN										
14...	1405	7.2	271	7.6	26.0	114	0	94	4.6	23
AUG										
28...	0900	5.4	300	8.2	29.5	120	0	98	1.2	20

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)
JUN									
14...	--	--	--	--	--	890	870	20	--
AUG									
28...	0	<10	10	<10	<10	440	390	50	7800

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN									
14...	--	120	30	90	--	--	--	2	.04
AUG									
28...	20	220	30	190	270	.00	30	9	.13

SPECIFIC CONDUCTANCE AND TEMPERATURE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

APALACHICOLA RIVER BASIN

02342500 - UCHEE CREEK NEAR FORT MITCHELL AL (LAT 32 19 00 LONG 085 00 54)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					MAR , 1979				
02...	1100	40	53	21.5	12...	1330	1090	45	14.0
NOV					MAY				
13...	1140	34	57	16.0	01...	1130	638	43	18.0
DEC					JUN				
18...	1230	83	47	9.5	04...	1210	200	48	25.0
JAN , 1979					JUL				
29...	1245	394	40	9.0	11...	1540	181	38	25.0

02342933 - SOUTH FORK COWIKEE CREEK NEAR BATESVILLE AL (LAT 32 01 03 LONG 085 17 45)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					MAR , 1979				
02...	0905	7.0	97	17.5	12...	1025	278	73	12.0
NOV					MAY				
13...	0940	4.6	84	13.0	01...	0900	134	77	16.0
DEC					JUN				
18...	1020	14	85	6.0	05...	1140	29	78	25.5
JAN , 1979					JUL				
29...	1010	90	94	4.5	11...	1140	38	77	25.0

02343300 - ABBIE CREEK NEAR HALEBURG AL (LAT 31 28 24 LONG 085 09 45)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					MAR , 1979				
02...	1535	71	44	20.0	13...	0820	332	41	12.0
NOV					MAY				
14...	0810	66	46	14.0	03...	0855	237	36	18.0
DEC					JUN				
19...	0820	92	44	9.0	07...	0730	96	48	24.0
JAN , 1979					JUL				
30...	0830	192	29	5.0	10...	0945	138	42	23.0

CHOCTAWHATCHEE RIVER BASIN

02364570 - PANTHER CREEK NEAR HACODA AL (LAT 31 07 15 LONG 086 11 13)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					MAR , 1979				
03...	0850	5.8	65	19.0	14...	0840	64	33	14.0
03...	0945	5.8	65	19.5	MAY				
NOV					02...	1015	24	27	18.0
15...	0905	2.6	49	15.0	JUN				
DEC					06...	1110	12	39	23.5
20...	1020	7.8	47	13.0	JUL				
JAN , 1979					09...	1520	4.2	44	24.5
31...	0930	70	29	7.0					

SPECIFIC CONDUCTANCE AND TEMPERATURE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

ESCAMBIA RIVER BASIN

02371200 - INDIAN CREEK NEAR TROY AL (LAT 31 48 50 LONG 086 07 15)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					MAR , 1979				
02...	1102	2.1	55	17.5	14...	1325	22	48	15.5
NOV					MAY				
16...	1040	2.2	56	16.5	02...	0750	17	42	16.0
DEC					JUN				
21...	1015	8.4	60	14.5	05...	0845	8.4	48	19.0
JAN , 1979					JUL				
31...	1315	12	43	5.0	09...	1130	12	46	21.5

02372250 - PATSALIGA CREEK NEAR BRANTLEY AL (LAT 31 35 46 LONG 086 24 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					MAY , 1979				
02...	1530	88	124	22.5	17...	0930	454	117	20.0
NOV					JUL				
13...	1110	134	130	18.0	05...	1030	94	105	26.0
DEC					AUG				
19...	0950	155	90	10.0	13...	1120	469	100	24.0
JAN , 1979									
18...	1203	408	75	8.0					

02374660 - MURDER CREEK AT KIRKLAND AL (LAT 31 11 30 LONG 087 01 35)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					MAR , 1979				
03...	0835	142	--	28.0	13...	0905	1360	87	12.5
NOV					MAY				
14...	1035	158	90	16.0	17...	1600	362	82	23.0
DEC					JUL				
19...	1540	223	100	13.0	06...	0855	194	90	27.0
JAN , 1979					AUG				
18...	0940	305	94	8.0	13...	1220	479	91	25.0

MOBILE RIVER BASIN

02410000 - PATTERSON CREEK NEAR CENTRAL AL (LAT 32 40 54 LONG 086 07 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					JUN , 1979				
02...	1222	.98	47	20.0	08...	0815	3.9	41	24.5
NOV					JUL				
03...	1052	.49	--	14.5	17...	1300	2.1	40	25.0
15...	1350	.93	45	16.0	AUG				
DEC					09...	1150	1.4	50	23.0
19...	1525	1.4	55	13.5					
JAN , 1979									
31...	1400	4.9	44	6.5					

02413300 - LITTLE TALLAPOOSA RIVER NEAR NEWELL AL (LAT 33 26 00 LONG 085 24 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					MAR , 1979				
17...	1425	60	84	14.5	28...	1320	486	43	14.0
NOV					MAY				
29...	1323	160	83	15.0	08...	1320	683	53	20.0
JAN , 1979					JUN				
15...	1320	352	73	4.0	14...	1300	341	49	23.0
FEB					JUL				
13...	1245	441	58	6.5	30...	1341	201	50	28.0

SPECIFIC CONDUCTANCE AND TEMPERATURE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MOBILE RIVER BASIN--Continued

02424940 - OAKMULGEE CREEK NEAR SUMMERFIELD AL (LAT 32 32 01 LONG 087 05 24)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					MAR , 1979				
02...	1235	73	30	21.0	26...	1320	539	20	13.5
NOV					MAY				
13...	1130	41	25	14.5	07...	1400	478	23	21.0
DEC					JUN				
18...	0950	115	28	7.0	18...	1228	61	24	24.0
JAN , 1979					JUL				
30...	1120	411	30	4.5	30...	0940	161	23	24.5

02425200 - BIG SWAMP CREEK NEAR ORRVILLE AL (LAT 32 13 17 LONG 087 09 48)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1978					MAR , 1979				
02...	1030	2.4	88	19.5	26...	1050	73	62	13.5
NOV					MAY				
13...	1015	1.5	80	14.0	07...	1155	21	82	21.0
DEC					JUN				
18...	1210	2.8	78	6.5	18...	1030	3.7	95	24.0
JAN , 1979					JUL				
30...	1000	72	75	4.0	30...	1155	99	66	25.0

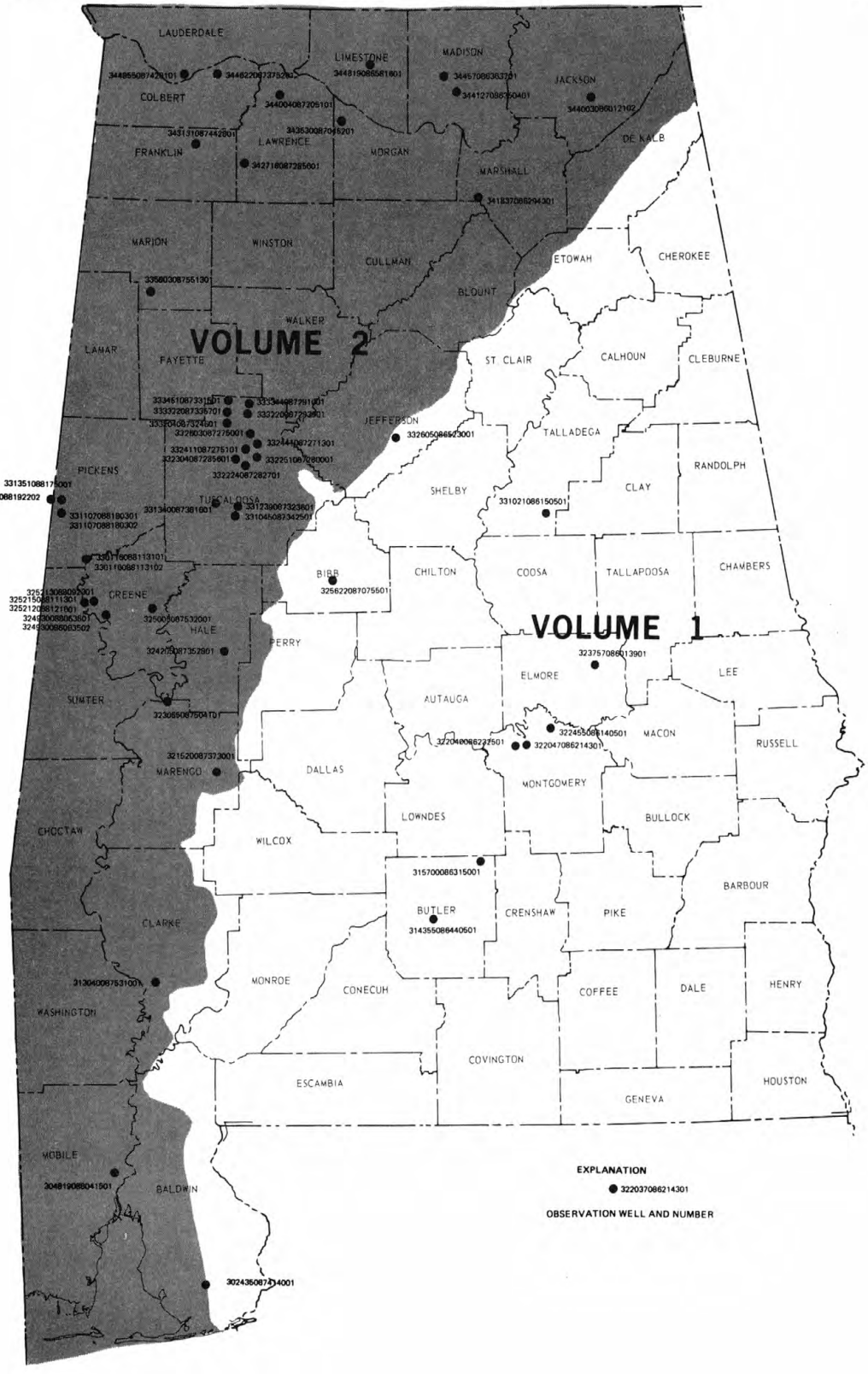

Figure 7.--Map of Alabama showing location of observation wells.

BIBB COUNTY

325622087075501. Local number, Bib-1.
LOCATION.--Lat 32°56'22", long 87°07'55", Hydrologic Unit 03150202, in SW¼ sec. 25, T. 23 N., R. 9 E., at junction of U.S. Highway 82 and State Highway 219, Centreville.
Owner: Centreville Gin and Cotton Co.
AQUIFER.--Copper Ridge Dolomite of Late Cambrian age and Chepultepec Dolomite of Early Ordovician age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 404 ft (123 m), cased to 80 ft (24 m), open hole below.
DATUM.--Altitude of land-surface datum is 230.93 ft (70.39 m). Measuring point: Top of casing, 0.43 ft (0.13 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--April 1948 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.0 ft (5.5 m) below land-surface datum, Apr. 2, 1951; lowest, 32.3 ft (9.8 m) below land-surface datum, several times October and November 1954.
EXTREMES FOR CURRENT YEAR.--Highest water level, 20.42 ft (6.22 m) below land-surface datum, Apr. 14; lowest, 31.22 ft (9.52 m) below land-surface datum, Nov. 11, 14, 15, 16.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.27	31.20	30.59	28.94	28.37	22.32	23.71	25.47	26.77	28.52	28.77	28.34
10	30.32	31.29	30.03	28.21	27.47	25.72	25.49	26.03	27.27	28.28	28.95	28.95
15	30.42	31.32	30.35	29.33	28.15	26.72	20.66	26.09	27.65	28.35	28.47	28.94
20	30.38	31.14	30.45	29.44	27.78	27.16	24.55	26.60	28.00	28.67	28.91	28.08
25	30.65	31.24	30.30	26.34	25.16	26.63	25.23	26.95	28.07	28.70	29.02	28.62
EOM	31.13	30.83	30.19	27.97	26.01	27.35	24.76	26.94	28.27	28.29	28.82	26.67
MAX	31.13	31.32	30.72	30.09	28.47	27.35	27.37	27.11	28.27	28.70	29.07	29.08

BUTLER COUNTY

314355086440501. Local number, But-3.
LOCATION.--Lat 31°43'55", long 86°44'05", Hydrologic Unit 03140303, in SW¼ sec. 23, T. 9 N., R. 13 E., at junction county roads 25 and 28 and 9 mi (14 km) southwest of Greenville.
Owner: U.S. Geological Survey.
AQUIFER.--Nanafalia Formation of Paleocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 213 ft (65 m), screened 203 to 213 ft (62 to 65 m).
DATUM.--Altitude of land-surface datum is 370 ft (113 m). Measuring point: Top of floor in recorder house, 2.96 ft (0.90 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--February 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 69.75 ft (21.26 m) below land-surface datum May 14, 1976; lowest, 74.26 ft (22.63 m) below land-surface datum, Oct. 24-26, 1972.
EXTREMES FOR CURRENT YEAR.--Highest water level, 72.13 ft (21.99 m) below land-surface datum, Apr. 25, 26, 27, and May 12, 13, 14, 15; lowest, 73.73 ft (22.47 m) below land-surface datum, Nov. 25.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	73.31	73.63	73.36	73.26	72.86	72.53	72.25	72.17	72.19	72.69	---	72.70
10	73.39	73.65	73.40	73.21	72.87	72.57	72.25	72.20	72.31	72.65	---	72.76
15	73.46	73.68	73.39	73.18	72.82	72.54	72.26	72.14	72.42	72.67	---	72.76
20	73.49	73.71	73.36	73.09	72.81	72.50	72.29	72.19	72.53	---	72.67	72.73
25	73.53	73.73	73.30	72.98	72.62	72.42	72.20	72.21	72.54	---	72.66	72.86
EOM	73.62	73.51	73.31	72.93	72.66	72.43	72.19	72.23	72.58	---	72.68	72.85
MAX	73.62	73.73	73.52	73.29	72.95	72.67	72.41	72.26	72.59	72.71	72.69	72.86

BUTLER COUNTY

315700086315001. Local number, But-4.
LOCATION.--Lat 31°57'00", long 86°31'50", Hydrologic Unit 03140303, in NW¼ sec. 11, T. 11 N., R. 15 E., at County Road 75, 0.5 mi (0.8 km) northwest of U.S. Highway 31, and 10 mi (16 km) northeast of Greenville.
Owner: U.S. Geological Survey.
AQUIFER.--Ripley Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 290 ft (88 m), screened 280 to 290 ft (85 to 88 m).
DATUM.--Altitude of land-surface datum is 440 ft (134 m). Measuring point: Top of floor in recorder house, 2.51 ft (0.77 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--February 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 218.9 ft (66.7 m) below land-surface datum, Mar. 7, 1970; lowest, 250.05 ft (76.22 m) below land-surface datum, Sept. 27, 28, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 247.42 ft (75.41 m) below land-surface datum, Apr. 4; lowest, 250.03 ft (76.21 m) below land-surface datum, Sept. 16, 25.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	249.80	249.11	248.11	248.14	247.89	247.71	247.63	248.01	247.96	248.91	249.26	249.87
10	249.84	249.08	248.22	248.27	247.95	247.72	247.77	248.00	248.09	248.83	249.40	250.00
15	249.63	249.03	248.18	248.27	247.84	247.84	247.88	248.00	248.26	248.91	---	250.01
20	249.43	248.96	248.01	247.99	247.92	247.81	248.00	247.98	248.54	248.96	249.54	249.95
25	249.27	248.80	247.96	247.87	247.69	247.67	247.97	247.97	248.75	249.10	249.69	250.03
EOM	249.24	248.46	248.00	247.89	247.74	247.72	248.04	247.98	248.79	249.16	249.81	249.93
MAX	249.97	249.20	248.44	248.27	247.96	247.90	248.04	248.05	248.84	249.16	249.85	250.03

ELMORE COUNTY

323757086013901. Local number, Elm-1.
LOCATION.--Lat 32°37'57", long 86°01'39", Hydrologic Unit 03150110, in NE¼ sec. 14, T. 19 N., R. 20 E., at Elmore County High School, Eclectic.
Owner: City of Eclectic.
AQUIFER.--Augen gneiss.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 402 ft (123 m), cased to 63 ft (19 m), open hole below.
DATUM.--Altitude of land-surface datum is 557.5 ft (169.9 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--February 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.34 ft (1.93 m) below land-surface datum, Apr. 8, 1960; lowest, 12.76 ft (3.89 m) below land-surface datum, Oct. 29, 1954.
EXTREMES FOR CURRENT YEAR.--Highest water level, 7.14 ft (2.18 m) below land-surface datum, Apr. 26; lowest, 11.89 ft (3.62 m) below land-surface datum, Nov. 26.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.84	11.57	11.45	10.58	9.22	7.99	7.75	7.32	7.95	9.00	8.28	9.12
10	10.93	11.66	11.23	10.43	9.01	7.97	7.66	7.49	8.16	8.83	8.36	9.29
15	11.08	11.79	11.16	10.29	8.86	8.00	7.46	7.50	8.30	8.68	8.46	9.45
20	11.17	11.82	11.03	10.00	8.65	8.01	7.51	7.61	8.55	8.57	8.68	9.47
25	11.27	11.88	11.00	9.55	8.33	8.02	7.51	7.91	8.69	8.43	8.79	9.58
EOM	11.52	11.77	10.97	9.36	8.26	8.10	7.35	7.95	8.76	8.17	8.89	9.37
MAX	11.52	11.89	11.75	10.92	9.38	8.25	8.09	8.06	8.76	9.00	8.89	9.59

JEFFERSON COUNTY

332605086523001. Local number, Jef-1.
LOCATION.--Lat 33°26'05", long 86°52'30", Hydrologic Unit 03150202, in SW¼ sec. 29, T. 18 S., R. 3 W., at County Road 42, 1.0 mi (1.6 km) west of Oxmoor, and 2.9 mi (4.7 km) southeast of Midfield.
Owner: Woodward Iron Company.
AQUIFER.--Bangor Limestone of Late Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 140 ft (43 m), cased to 68 ft (21 m), open hole below.
DATUM.--Altitude of land-surface datum is 641.94 ft (195.66 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.28 ft (2.83 m) below land-surface datum, Apr. 4, 1977; lowest, 83.04 ft (25.31 m) below land-surface datum, Dec. 27, 28, 1954.
EXTREMES FOR CURRENT YEAR.--Highest water level, 12.57 ft (3.83 m) below land-surface datum, Apr. 13; lowest, 30.82 ft (9.39 m) below land-surface datum, Dec. 17.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.98	29.54	30.66	27.12	20.65	15.30	16.26	13.80	17.45	22.52	23.86	19.53
10	28.28	29.87	30.47	20.68	20.12	15.56	15.64	14.82	18.29	22.80	24.30	20.04
15	28.63	30.05	30.59	---	19.97	16.17	13.43	14.88	19.24	22.41	20.61	20.49
20	28.78	30.30	30.65	23.80	19.97	16.85	13.89	15.35	20.29	22.89	20.60	17.76
25	29.00	30.47	30.05	20.70	17.38	17.59	14.29	16.68	21.03	23.33	21.25	16.81
EOM	29.42	30.59	29.40	20.40	17.37	18.48	13.55	17.28	21.64	23.35	21.17	14.81
MAX	29.42	30.66	30.82	29.13	20.65	18.48	18.56	17.39	21.64	23.35	24.30	20.95

MONTGOMERY COUNTY

322040086232501. Local number, Mtg-4.
LOCATION.--Lat 32°20'40", long 86°23'25", Hydrologic Unit 03150201, in SW¼ sec. 20, T. 16 N., R. 17 E., at County Road 54, 1.0 mi (1.6 km) southwest of intersection with U.S. Highway 31, and 6.0 mi (9.6 km) southwest of Montgomery.
Owner: City of Montgomery.
AQUIFER.--Sand of Gordo Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 446 ft (136 m), screened 408 to 413 ft (124 to 126 m), 424 to 429 ft (129 to 131 m), 441 to 446 ft (134 to 136 m).
DATUM.--Altitude of land-surface datum is 152.8 ft (46.6 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--March 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 41.9 ft (12.8 m) below land-surface datum, Feb. 5, 1968; lowest, 135.1 ft (41.2 m) below land-surface datum, Oct. 2, 3, 1955.
EXTREMES FOR CURRENT YEAR.--Highest water level, 87.02 ft (26.52 m) below land-surface datum, Dec. 26; lowest, 111.21 ft (33.90 m) below land-surface datum, Oct. 7.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	110.18	101.45	92.53	92.24	95.64	95.71	101.12	100.71	101.46	108.77	105.79	102.85
10	109.90	101.12	92.27	91.84	96.97	97.09	98.81	99.48	102.53	108.71	105.57	104.06
15	99.76	97.56	91.03	90.14	95.21	96.48	99.19	99.73	102.19	108.14	105.03	103.11
20	102.06	89.80	90.50	91.39	96.92	94.84	103.38	101.41	105.74	108.26	103.57	103.12
25	100.86	92.55	87.53	95.88	98.84	95.99	103.25	100.12	108.15	107.34	103.68	102.07
EOM	100.52	91.85	90.73	94.51	100.12	100.26	101.88	97.79	108.20	106.32	102.39	---
MAX	111.21	102.69	93.44	96.15	100.12	100.26	103.81	103.48	108.35	108.85	106.27	104.41

MONTGOMERY COUNTY

322047086214301. Local number, Mtg-3.
LOCATION.--Lat 32°20'47", long 86°21'43", Hydrologic Unit 03150201, in SE¼ sec. 21, T. 16 N., R. 17 E., at Lomax School on Hayneville Road, 0.5 mi (0.8 km) northeast of intersection with U.S. Highway 31, and 4.5 mi (7.2 km) southwest of Montgomery.
Owner: County of Montgomery.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 270 ft (82 m), screened 210 to 215 ft (64 to 66 m), 220 to 225 ft (67 to 69 m), 265 to 270 ft (81 to 82 m).
DATUM.--Altitude of land-surface datum is 167.2 ft (51.0 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--August 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.9 ft (3.6 m) below land-surface datum, Mar. 17, 1968; lowest, 31.3 ft (9.5 m) below land-surface datum, Oct. 1, 1955.
EXTREMES FOR CURRENT YEAR.--Highest water level, 16.54 ft (5.04 m) below land-surface datum, Mar. 7; lowest, 24.16 ft (7.36 m) below land-surface datum, Sept. 12.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.40	23.00	22.83	22.03	20.15	16.91	18.12	17.37	19.08	21.98	21.68	23.74
10	22.76	23.19	22.80	21.79	19.31	17.25	16.90	17.76	19.60	21.74	21.58	24.10
15	22.76	22.97	22.77	21.58	18.91	17.14	17.32	18.28	20.16	21.77	22.24	23.81
20	22.76	22.67	22.21	21.19	19.00	17.52	18.03	18.87	21.19	21.91	22.44	23.49
25	22.84	22.76	21.79	20.74	17.89	17.95	18.43	19.27	21.77	21.67	22.99	23.56
EOM	22.94	22.79	21.83	20.32	17.67	18.91	17.10	19.40	21.64	21.66	23.34	23.09
MAX	22.94	23.22	22.91	22.03	20.32	18.91	18.96	19.51	21.77	22.09	23.34	24.16

MONTGOMERY COUNTY

322455086140501. Local number, Mtg-5.
LOCATION.--Lat 32°24'55", long 86°14'05", Hydrologic Unit 03150201, in NW¼ sec. 35, T. 17 N., R. 18 E., at Gunter Air Force Base, on U.S. Highway 231, and 4.7 mi (7.6 km) northeast of Montgomery.
Owner: U.S. Air Force.
AQUIFER.--Sand of Gordo Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 232 ft (71 m), screened 215 to 232 ft (66 to 71 m).
DATUM.--Altitude of land-surface datum is 220.8 ft (67.3 m). Measuring point: Top of casing, 1.80 ft (0.55 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--January 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 82.78 ft (25.23 m) below land-surface datum, Mar. 29, 1972; lowest, 116.97 ft (35.65 m) below land-surface datum, Sept. 16, 24, 1963.
EXTREMES FOR CURRENT YEAR.--Highest water level, 89.08 ft (27.15 m) below land-surface datum, May 31; lowest, 93.80 ft (28.58 m) below land-surface datum, Dec. 17.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	93.53	93.68	93.03	92.13	90.74	89.43	89.17	89.79	90.90	92.07
10	---	---	93.73	93.61	92.94	91.99	90.58	89.31	89.26	89.92	91.07	92.31
15	---	---	93.73	93.56	92.72	91.72	90.45	89.28	89.35	90.16	91.30	92.54
20	---	93.50	93.67	93.32	92.64	91.41	90.20	89.22	89.44	90.28	91.51	92.66
25	---	93.58	93.70	93.25	92.26	91.13	89.94	89.21	89.52	90.45	91.65	92.96
EOM	---	93.53	93.72	93.15	92.28	91.01	89.66	89.14	89.58	90.65	91.87	93.06
MAX	92.32	93.58	93.80	93.74	93.18	92.28	90.95	89.61	89.58	90.65	91.87	93.06

331021086150501. Local number, Ta1-2.
LOCATION.--Lat 33°10'21", long 86°15'05", Hydrologic Unit 03150107, in SW¼ sec. 29, T. 21 S., R. 4 E., at 3rd Street and Norton Avenue, Sylacauga.
Owner: City of Sylacauga.
AQUIFER.--Marble.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 202 ft (62 m), cased to 69 ft (21 m), open hole below.
DATUM.--Altitude of land-surface datum is 546.4 ft (166.5 m). Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum.
REMARKS.--Missing record due to recorder malfunction.
PERIOD OF RECORD.--October 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.1 ft (3.4 m) below land-surface datum, Mar. 30, 1959; lowest, 50.88 ft (15.51 m) below land-surface datum, Oct. 12, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level, 17.41 ft (5.31 m) below land-surface datum, Apr. 5; lowest, 50.88 ft (15.51 m) below land-surface datum, Oct. 12.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.04	46.59	45.77	40.40	33.31	---	18.08		23.94			
10	46.44	47.79	---	37.55	30.09	---	---		---			
15	46.01	48.77	---	38.26	31.36	---	---		---			
20	46.93	49.18	46.26	39.21	27.89	23.67	---		---			
25	46.93	48.58	43.08	30.66	23.16	22.78	---		---			
EOM	47.52	47.89	42.27	31.96	24.89	24.42	---		---			
MAX	50.88	49.18	48.21	42.11	33.33	25.59	25.70		24.42			

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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