

Surface Water Supply of the United States 1954

Part 2-B. South Atlantic Slope and Eastern Gulf of Mexico Basins, Ogeechee River to Pearl River

Prepared under the direction of J. V. B. WELLS, Chief, Surface Water Branch

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1334

*Prepared in cooperation with the States
of Alabama, Florida, Georgia,
Louisiana, and Mississippi, and with
other agencies*



UNITED STATES DEPARTMENT OF THE INTERIOR

Fred A. Seaton, *Secretary*

GEOLOGICAL SURVEY

Thomas B. Nolan, *Director*

PREFACE

This report was prepared by the Geological Survey in cooperation with the States of Alabama, Florida, Georgia, Louisiana, and Mississippi, and with other agencies, by personnel of the Water Resources Division, C. G. Paulsen, chief, under the general direction of J. V. B. Wells, chief, Surface Water Branch, and B. J. Peterson, chief, Annual Reports Section.

The data were computed under supervision of district engineers, Surface Water Branch, as follows :

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A. O. Patterson	Ocala, Fla.
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CALENDAR FOR WATER YEAR 1954

OCTOBER 1953

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JANUARY 1954

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FEBRUARY 1954

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JUNE 1954

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JULY 1954

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AUGUST 1954

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SEPTEMBER 1954

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SCOPE OF WORK

This volume is one of a series of 18 reports presenting measurements of stage, discharge, and content of streams, lakes, and reservoirs in the United States during the water year ending September 30, 1954. Since 1888, when the United States Geological Survey first studied streamflow in relation to problems of irrigation, similar measurements have been made at more than 13,050 gaging stations in the 48 States and at many others in the Territories of Alaska and Hawaii. On September 30, 1954, the Geological Survey and cooperating organizations were maintaining 6,750 gaging stations, including those in Alaska and Hawaii. Discharge measurements only were made at many other points in the 1954 water year, most of which are published at the end of this report.

COOPERATION

Many State, municipal, and private organizations have cooperated with the Geological Survey in this work by either furnishing or helping to collect data. Organizations that supplied data are acknowledged in station descriptions, and organizations that assisted in the collection of data through cooperative agreements with the Survey are:

Alabama: State Geological Survey, W. B. Jones, State geologist; State Highway Department, W. G. Pruett, director; State Department of Conservation, E. M. McGowin, director; and the city of Birmingham, J. W. Morgan, mayor.

Florida: State Division of Water Survey and Research, A. G. Matthews, chief engineer; State Geological Survey, Herman Gunter, director; State Park Service, E. L. Hill, director; State Road Department, R. A. Simpson, chairman, succeeded by C. M. Webb; State Trustees of Internal Improvement Fund, F. C. Elliot, engineer and secretary; Dade County, E. A. Anderson, county engineer; Pinellas County, C. A. Peterson, director of public works; Polk County, R. P. Gladney, chairman of county commission; the city of Jacksonville, Haydon Burns, chairman of city commission; the cities of Miami and Miami Beach, W. A. Glass, director, Miami Department of Water and Sewers, C. A. Renshaw, city manager, Miami Beach; city of Pensacola, O. J. Semmes, Jr., city manager; the town of Perry, W. T. Pace, mayor; the city of Tampa, J. S. Long, superintendent of water department; and the Central and Southern Florida Flood Control District, W. T. Wallis, secretary.

Georgia: State Department of Mines, Mining and Geology, Garland Peyton, director, and State Highway Department of Georgia, J. L. Gillis, director.

Louisiana: State Department of Public Works, R. T. Sessums, director.

Mississippi: State Geological Survey, W. C. Morse, director.

Assistance in the form of funds or services was given by the Corps of Engineers, Department of the Army, in collecting records published herein for 111 gaging stations, of which 28 were in Alabama, 32 in Florida, 28 in Georgia, 1 in Louisiana, and 22 in Mississippi.

The following organizations aided in collecting records:

Florida: Florida Power Corporation.

Georgia: The Georgia Power Co., Crisp County Power Commission, and the cities of Carrollton and Dalton.

DIVISION OF WORK

The stream-gaging work was done by the Water Resources Division of the Geological Survey, under the direction of personnel shown in the preface. The data for stations in the several States were collected and prepared for publication in the district offices listed below.

<u>State</u>	<u>District office</u>	<u>Address</u>
Alabama <u>a/</u>	Montgomery.....	507 New Post Office Building.
Florida <u>b/</u>	Ocala.....	Building 211, Camp Roosevelt.
Georgia <u>c/</u>	Atlanta.....	644 Peachtree-Seventh Building.
Louisiana.....	Baton Rouge.....	850 North Fifth Street.
Mississippi.....	Jackson.....	301 Century Building.

a/ Except for Chattahoochee River at Columbia.

b/ Includes North Prong St. Marys River at Moniac, Ga.

c/ Except for North Prong St. Marys River at Moniac, but including Chattahoochee River at Columbia, Ala.

Information of a more detailed nature than that published for most of the gaging stations given in this report is on file in the district offices listed above. Provisional records of discharge prior to publication, and other unpublished data concerning the gaging-station records may usually be obtained from the district office.

DEFINITION OF TERMS AND ABBREVIATIONS

The terms of streamflow and other hydrologic data, as used in this report, are defined as follows:

Cubic foot per second (cfs) is the rate of discharge of a stream whose channel is 1 square foot in cross-sectional area and whose average velocity is 1 foot per second.

Cubic feet per second per square mile (cfs/m) 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.

Runoff in inches is the depth to which an area would be covered if all the water draining from it in a given period were uniformly distributed on its surface. The term is used for comparing runoff with rainfall, which is also usually expressed in inches.

Acre-foot is the quantity of water required to cover an acre to the depth of 1 foot and is equivalent to 43,560 cubic feet. The term is commonly used in relation to storage for irrigation.

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, 1.983471 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

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, a long reach of the channel, or an artificial structure.

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

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

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

DOWNSTREAM ORDER OF LISTING GAGING STATIONS

Beginning with the series of reports for the water year ending September 30, 1951, the order of listing gaging-station records was changed. In this report, in a downstream direction along the main stem all stations on a tributary entering above a main-stem station are listed before that station. If a tributary enters between two main-stem stations, it is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. To indicate the rank of any tributary on which a gaging station is situated and the stream to which it is immediately tributary, each indention in the listing of gaging stations in the table of contents of this report represents one rank. This downstream order and system of indention show which gaging stations are on tributaries between any two stations on a main stem and the rank of the tributary on which each gaging station is situated.

The order of listing used before the publication of the 1951 report listed first all stations on the main stem from headwaters toward mouth, then all stations on the uppermost tributary to the main stem from the tributary's source to mouth, and then all stations from source to mouth of the uppermost tributary to the tributary.

EXPLANATION OF DATA

The base data collected at gaging stations consist of records of stage and measurements of discharge. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow. The records of stage are obtained either from direct readings on a nonrecording gage or from a water-stage recorder that gives a continuous record of fluctuations. Measurements of discharge are made with a current meter by the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in Water-Supply Paper 888 and are also outlined in standard textbooks on the measurement of stream discharge. Typical structures in use at gaging stations are shown in figure 1.

Rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect determinations of peak discharge (such as slope-area or contracted-opening determinations, computation of flow over dams or weirs, and by other methods), velocity-area studies, and logarithmic plotting. The application of the daily mean gage height to those rating tables gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors



A. PEARL RIVER NEAR COLUMBIA, MISS.



B. LITTLE MANATEE RIVER NEAR WIMAUMA, FLA.

FIGURE 1.—GAGING-STATION STRUCTURES.

based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is essentially the shifting-control method.

At some gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. Information requisite for determining the slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage. If so, the rate of change in stage is used as a factor in the determination of discharge.

At most gaging stations in the northern part of the United States and at some in the mountainous regions of other parts the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and engineers, and comparable records of discharge for other stations in the same or nearby basins. If the stage-discharge relation is affected by ice, this information is given in a note to the table. No mention is made of occasional days of ice effect if the degree of accuracy of daily records is not changed.

The data herein presented generally comprise a description of the station, a skeleton rating table, and a table showing the daily discharge and monthly and yearly discharge and runoff of the stream. Records are published for the water year which begins on October 1 and ends on September 30. A calendar for the water year 1954 is shown on page IV for the purpose of finding the day of the week for any date.

The description of the station gives the location, drainage area, records available, type and history of gages, average discharge, extremes of discharge, general remarks, and notations of revisions of the previously published record. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "Location" for some stations, is that determined and used by the Corps of Engineers unless otherwise noted. Under "Records available" are given the periods for which there are published records generally equivalent to those at the present site. Under "Gage" are given the type of gage currently in use and the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of records available. Under "Average discharge" is given the average discharge for the number of years indicated. It is not given for stations having fewer than five complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. Under "Extremes" are given the maximum discharge and gage height; the minimum discharge if there is little or no regulation; the minimum daily discharge if there is extensive regulation (also the minimum discharge if useful); and the minimum gage height (unless it is of no importance). In the first paragraph, the data given are for the complete current water year unless otherwise specified. In the second paragraph, the data given are for the periods of record within the calendar year dates in the heading (not necessarily those for the complete years indicated by the heading dates).

Reliable information concerning major floods that have occurred outside the period of record are given in the third or last paragraph under "Extremes." Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder, a crest-stage indicator, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. Information pertaining to the accuracy of the records and conditions which affect the natural flow at the gaging station is given under "Remarks."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual reports. In order to make it easier to find such revised records, a paragraph headed "Revisions (water years)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge are concerned in the revision, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

Skeleton rating tables are published for all stations except those at which the daily discharge for the greater part of the open-water period was determined by the shifting-control method, the slope method, or other special methods involving an equivalent adjustment to the gage height of more than one-tenth foot. Skeleton rating tables are generally not published for stations on canals.

For stations equipped with water-stage recorders, except those on streams subject to sudden or rapid fluctuation, the daily table gives the discharge corresponding to the daily mean gage height. For stations subject to such fluctuation the daily mean gage height may not indicate the true daily mean discharge, which must be obtained by averaging the discharge for parts of the day or by using the discharge integrator, an instrument for obtaining the daily mean discharge from a continuous gage-height graph and containing, as an essential element, a curve representing the stage-discharge relation at the station. For stations equipped with nonrecording gages, the table of daily discharge gives the discharge corresponding to once-daily readings of the gage, or to the mean of twice-daily readings, or to the mean gage height determined from gage-height graphs based on gage readings. For periods of rapidly changing stage, the daily mean discharge is determined from gage-height graphs based on gage readings, the frequency of which is stated in the station description.

In the table of daily discharge, the values for the maximum day and the minimum day for

each month are underlined. If the value is repeated, it is underlined only on the first day of its occurrence.

In the monthly summary below the daily table, the line headed "Total" gives the sum of the daily values; it is the total cfs-days for the month. The line headed "Mean" gives the average flow in cubic feet per second during the month. Runoff for the month may be expressed in cubic feet per second per square mile (line headed "Cfsm"), or in inches (line headed "In."), or in acre-feet (line headed "Ac-ft"). Values for cubic feet per second per square mile and runoff in inches are omitted if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the values of maximum are the maximum daily discharges, not the momentary discharges when the water was at crest stage. Likewise, the minimums in this summary are the minimum daily discharges.

Peak discharges and the times of their occurrence and corresponding gage heights of most stations are listed below the table of daily and monthly discharge. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man.

Footnotes to the table of daily discharge indicate periods when discharge was computed or estimated by unusual or special methods during periods of no gage-height record and ice effect, or by other effects that reduce the degree of accuracy of the records. Days on which discharge measurements were made are indicated by asterisk and footnote unless they were made at frequent regular intervals, in which instance the general frequency of discharge measurements is given under "Remarks" in the station description.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is usually given in the first report in which data for the reservoir are published, but it is omitted from succeeding reports.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

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

The station description states the degree of accuracy of the records. "Excellent" indicates that, in general, the error in the daily records is believed to be less than 5 percent; "good," less than 10 percent; "fair," less than 15 percent; and "poor," probably more than 15 percent. The records of monthly and yearly mean discharge and runoff are, in general, more nearly accurate than the daily records.

Runoff at some stations, as indicated by the monthly mean, may vary widely from natural runoff, owing to diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and runoff in inches are not published unless storage or diversion records are included to indicate the extent of the regulation or

diversion, or unless satisfactory adjustments can be made for changes in contents of reservoirs or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur when relatively large negative adjustments are made or when evaporation is large in comparison with the observed discharge.

Many gaging stations on streams in the irrigated areas of the United States are situated above most of the diversions from those streams, and therefore the discharge recorded does not actually show the water supply available at the stations for further development, because water must first be supplied to existing irrigation systems.

PUBLICATIONS

To facilitate publication of the annual series of reports, the area of the United States is divided into 14 parts whose boundaries coincide with certain natural drainage lines. Formerly, the results of streamflow measurements were published in 14 volumes, one for each of the 14 parts. Beginning with the reports for 1951, the records are published in 18 volumes, there being 2 volumes each for Parts 1, 2, 3, and 6. The boundaries of the various parts are indicated by the following list and the map in figure 2.

- Part 1. North Atlantic slope basins, in two volumes:
 A, North Atlantic slope basins, Maine to Connecticut.
 B, North Atlantic slope basins, New York to York River.
2. South Atlantic slope and eastern Gulf of Mexico basins, in two volumes:
 A, South Atlantic slope basins, James River to Savannah River.
 B, South Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River.
3. Ohio River basin, in two volumes:
 A, Ohio River basin except Cumberland and Tennessee River basins.
 B, Cumberland and Tennessee River basins.
4. St. Lawrence River basin.
5. Hudson Bay and upper Mississippi River basins.
6. Missouri River basin, in two volumes:
 A, Missouri River basin above Sioux City, Iowa.
 B, Missouri River basin below Sioux City, Iowa.
7. Lower Mississippi River basin.
8. Western Gulf of Mexico basins.
9. Colorado River basin.
10. The Great Basin.
11. Pacific slope basins in California.
12. Pacific slope basins in Washington and upper Columbia River basin.
13. Snake River basin.
14. Pacific slope basins in Oregon and lower Columbia River basin.

Water-supply papers and other publications of the Geological Survey containing data on the water resources of the United States may be purchased or consulted as follows:

1. Copies may be purchased from the Superintendent of Documents, Government Printing Office, Washington 25, D. C., who will, on application, furnish lists giving prices. A list of Geological Survey publications may also be obtained by applying to the Director, Geological Survey, Washington, D. C.

2. Sets of the reports may be consulted in the libraries of the principal cities in the United States.

3. Sets are available for consultation in the offices of the Water Resources Division of the Geological Survey. Addresses of the offices in the area covered by this report are given on page 2.

Early records of the flow of streams in the United States are published in the reports listed below. In many of these reports records for years earlier than those indicated have been included for some streams.

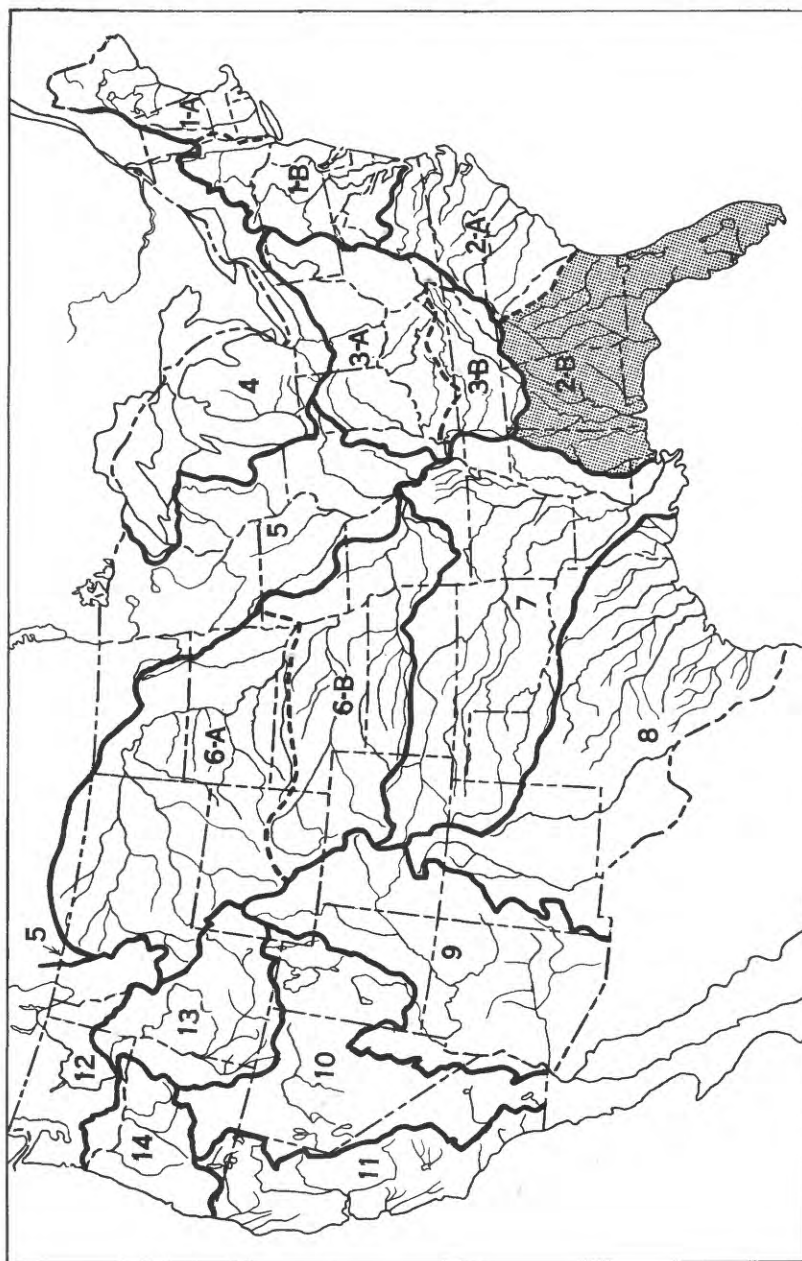


Figure 2.--Map of the United States showing areas covered by the 16 annual volumes on surface-water supply. The area covered by this report is shaded.

Streamflow data for the years 1884-1901, in reports of the Geological Survey

(A = Annual Report; B = Bulletin)

Report	Character of data	Year
10th A, pt. 2	Descriptive information only.	
11th A, pt. 2	Monthly discharge and descriptive information.....	1884 to September 1890.
12th A, pt. 2	.....do.....	1884 to June 30, 1891.
13th A, pt. 3	.....do.....	1884-92.
14th A, pt. 2	Monthly discharge.....	1888-93.
B 131.....	Descriptions, measurements, gage heights, and ratings.....	1893-94.
16th A, pt. 2	Descriptive information only.	
B 140.....	Descriptions, measurements, gage heights, ratings, and monthly discharge.	1895.
WSP 11.....	Gage heights.....	1896.
16th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge...	1895-96.
WSP 15.....	Descriptions, measurements, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries above Kansas River.	1897.
WSP 16.....	Descriptions, measurements, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries above Kansas River.	1897.
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge...	1897.
WSP 27.....	Measurements, ratings, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries.	1898.
WSP 28.....	Measurements, ratings, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries.	1898.
20th A, pt. 4	Monthly discharge.....	1898.
WSP 35 to 39.	Descriptions, measurements, gage heights, and ratings.....	1899.
21st A, pt. 4	Monthly discharge.....	1899.
WSP 47 to 52.	Descriptions, measurements, gage heights, and ratings.....	1900.
22d A, pt. 4.	Monthly discharge.....	1900.
WSP 65, 66...	Descriptions, measurements, gage heights, and ratings.....	1901.
WSP 75.....	Monthly discharge.....	1901.

Reports on surface-water supply containing records from 1899 to date for drainage basins in this report are listed below. The data for any particular gaging station will, in general, be found in the reports covering the years during which the station was maintained. Before 1951, records for the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River basins were included with those for the south Atlantic slope and eastern Gulf of Mexico basins.

Numbers of water-supply papers containing results of stream measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, 1899-1954

Year	WSP	Year	WSP	Year	WSP	Year	WSP	Year	WSP
1899	36	1911	302	1923	562	1934	757	1945	1032
1900	46	1912	322	1924	582	1935	782	1946	1052
1901	65, 75	1913	352	1925	602	1936	802	1947	1082
1902	83	1914	382	1926	622	1937	822	1948	1112
1903	98	1915	402	1927	642	1938	852	1949	1142
1904	127	1916	432	1928	662	1939	872	1950	1172
1905	166	1917	452	1929	682	1940	892	1951	1204
1906	204	1918	472	1930	697	1941	922	1952	1234
1907-8	242	1919-20	502	1931	712	1942	952	1953	1274
1909	262	1921	522	1932	727	1943	972	1954	1354
1910	282	1922	542	1933	742	1944	1002		

The records at most of the stations discussed in these reports extend over many years. Discharge measurements at many points other than regular gaging stations have been made each year and are published under "Miscellaneous discharge measurements" at the end of each report. The streams and points of measurement are listed in the same order as the streams and gaging stations in the body of the report. An index of the records obtained before 1904 has been published in Water-Supply Paper 119.

Each of the reports on the surface-water supply for the year 1939 (Water-Supply Paper 872 for the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River) contains, for the area included in that report, a summary of yearly discharge at gaging stations at which 10 or more complete years of record had been collected. These summaries were reprinted separately.

Reports also have been published that are compilations of records for various areas, usually a single State or drainage basin. These reports contain records previously published (some of which may have been revised), as well as some records not contained in the annual series of water-supply papers. The only such reports for any part of the area

covered by this report are Water-Supply Paper 107, "Water powers of Alabama, with an appendix on stream measurements in Mississippi, 1895-1903" and Water-Supply Paper 197, "Water resources of Georgia, 1895-1905."

Records of discharge have been published also in State reports. Some of these are not contained in the publications of the Geological Survey or are revisions of records previously published in its water-supply papers. The following table contains a list of these reports for the area covered by this report.

State reports containing compilations of records of discharge

State	Period	Report	Issued by
Alabama.....	1895-1915	Bull. 17, Water powers of Alabama.....	Geological Survey of Alabama.
Do.....	1904-47	Special Report 20, Water Resources and Hydrology of southeastern Alabama.	Do.
Florida.....	1898-1946	Bull. 31, Springs of Florida.....	Florida Geological Survey.
Georgia.....	1895-1906	Bull. 16, Water powers of Georgia.....	Geological Survey of Georgia.
Do.....	1907-19	Bull. 38, Water powers of Georgia.....	Do.
Louisiana.....	1903-38	Geol. Bull. 16, Surface water supply of Louisiana.	Department of Conservation.
Mississippi...	1900-1948	Bull. 68, Surface Waters of Mississippi..	Mississippi Geological Survey.

The reports listed in the foregoing tables contain the customary records of discharge collected during the systematic operation of gaging stations. Detailed information on the stage and discharge of many streams during major floods has been included in special reports on these floods published by the Geological Survey. The more recent of these special reports also contain other pertinent hydrologic information and analyses and compilations of data relating to earlier notable floods. The following list gives the numbers and titles of these reports:

Report	Issued by
WSP 771: Floods in the United States, magnitude and frequency.	U. S. Geological Survey.
WSP 847: Maximum discharges at stream-measurement stations through September 1938.	Do.
WSP 1066: Floods of August 1940 in the southeastern States.	Do.
WSP 1137-I: Summary of floods in the United States during 1950.	Do.
WSP 1227-A: Floods of March-April 1951 in Alabama and adjacent States.	Do.
Cir. 100: Floods in Georgia, frequency and magnitude.	Do.
Cir. 342: Floods in Alabama, frequency and magnitude.	Do.
Floods in Louisiana, magnitude and frequency.	Louisiana Department of Highways.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

The table below contains a list of gaging stations for the area covered by this report, at which records of discharge were collected during the water year October 1952 to September 1954 by agencies other than the Geological Survey. The records of these stations are not contained in publications of the Geological Survey, nor have they been published elsewhere.

Records of discharge collected by agencies other than the Geological Survey

Stream	Location	Period	Collected by
Chattahoochee River....	Ft. Gaines, Ga.....	1953-54	Corps of Engineers.
Do.....	Franklin, Ga.....	1945-54a/	Do.
Flint River.....	Near Molena, Ga.....	1953-54a/	Do.
Do.....	Newton, Ga.....	1947-54a/	Do.
Harney Pond Canal.....	At Lake Okeechobee, Fla.....	1951-54	Do.
Indian Prairie Canal....	Near Okeechobee, Fla.....	1951-54	Do.
Levee 8 canal.....	At Sand Cut, Fla.....	1954	Do.
Little Cedar Creek.....	Cave Springs, Ga.....	1948-54	Do.
Miami Canal.....	At Lake Okeechobee, Fla.....	1951-54	Do.
Nine Mile Canal.....	.....do.....	1951-54	Do.
North New River and Hillsboro Canals.	.....do.....	1951-54	Do.
Old Town Creek.....	Verona, Miss.....	1947-54a/	Do.
Prairie Creek.....	Gallion, Ala.....	1952-54a/	Do.
Taylor Creek.....	At Lake Okeechobee, Fla.....	1951-54	Do.
Upatol Creek.....	Fort Benning, Ga.....	1948-54a/	Do.

a/ Some earlier records published in reports of Geological Survey.

HYDROLOGIC CONDITIONS

The water year 1954 was characterized by deficient to slightly below median runoff over most of the area covered by this report with the exception of Florida where runoff was near median in the northern part to well above median in the central and southern part. Noteworthy floods occurred in Florida during October and in Alabama during December and January. Beginning with May in Alabama and Georgia drought conditions gradually spread over most of the area so that by the end of the water year streamflows had either dropped below or were approaching the minimum of record. Both industry and agriculture were being affected by the prolonged drought. For three key gaging stations in the area covered by this report, a comparison of the monthly and yearly mean discharges during the 1954 water year with the median discharge for the 25-year period 1921-45 is shown in figure 3 on the opposite page.

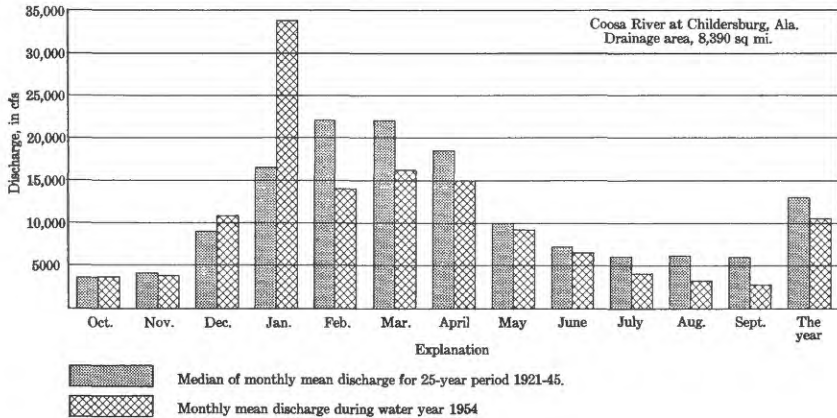
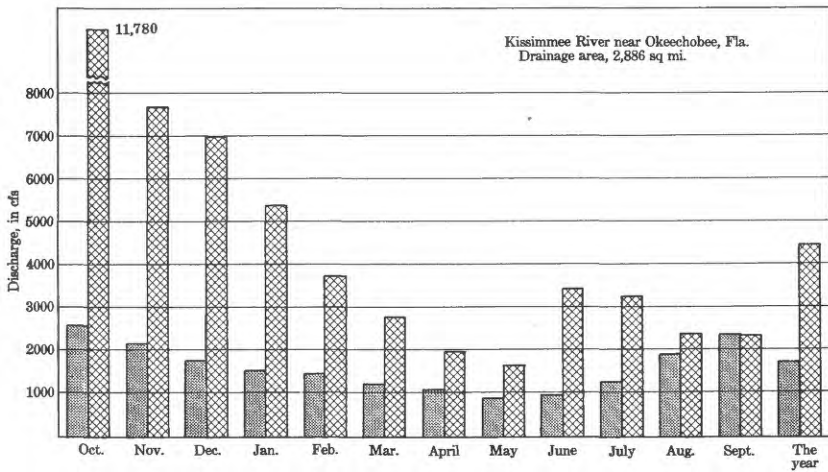
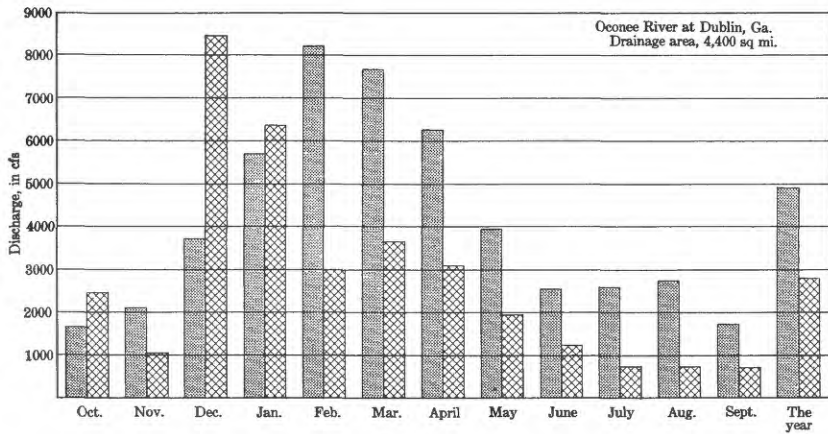


Figure 3. Comparison of discharge at three key gaging stations during 1954 water year with median discharge for 25-year period.

OGEECHEE RIVER BASIN

Ogeechee River at Scarboro, Ga.

Location.--Lat 32°42'40", long 81°52'45", on left bank 15 ft downstream from highway bridge at Scarboro, Jenkins County, 3½ miles downstream from Sculls Creek, 6½ miles upstream from Horse Creek, and 7½ miles southeast of Millen.

Drainage area.--1,940 sq mi, approximately.

Records available.--April 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 111.81 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). Prior to Dec. 18, 1941, staff gage at same site and datum.

Average discharge.--17 years, 1,649 cfs.

Extremes.--Maximum discharge during year not determined; minimum daily, 120 cfs Sept. 5-10, 1937-54: Maximum discharge, 24,600 cfs Aug. 17, 1940, Mar. 27, 1944 (gage height, 12.8 ft); minimum daily, that of Sept. 5-10, 1954.
Maximum stage known, 17.0 ft in October 1929, from information by local residents.

Remarks.--Records good except those for periods of no gage-height record, which are poor.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Mar. 10-22, Apr. 27, 28)

-0.95	120	4.0	860
-1.5	151	6.0	1,550
0.0	198	7.0	2,170
5	255	7.5	2,770
2.0	462	8.0	3,740

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,600	447	640	3,320	1,710	1,510	1,650	680	447	190	255	125
2	3,600	447	640	3,420	1,710	1,550	1,650	680	478	185	231	125
3	3,500	432	621	3,530	1,650	1,600	1,650	680	511	175	215	125
4	3,200	432	680	3,420	1,650	1,710	1,650	680	602	165	205	125
5	2,900	432	860	3,320	1,550	1,770	1,550	640	640	190	195	120
6	2,400	432	1,100	3,220	1,510	1,770	1,600	602	640	185	185	120
7	2,020	462	1,310	3,030	1,470	1,650	1,700	583	640	185	175	120
8	1,710	478	1,430	2,940	1,430	1,650	1,700	602	602	180	170	120
9	1,470	511	1,510	2,860	1,390	1,550	1,750	602	511	180	165	120
10	1,270	529	1,600	2,770	1,350	1,510	1,600	602	447	200	160	120
11	1,130	547	1,650	2,700	*1,310	1,430	1,600	583	417	240	175	*126
12	1,000	547	1,710	2,540	1,310	1,390	1,750	583	388	281	210	126
13	910	547	1,890	2,370	1,270	1,390	1,700	621	340	340	190	126
14	810	547	2,090	2,260	1,240	1,310	1,700	700	320	300	175	123
15	760	547	2,320	2,090	1,240	1,310	1,700	700	294	231	165	126
16	700	547	2,560	2,020	1,200	*1,270	1,700	740	294	210	160	140
17	680	*547	2,620	1,950	1,160	1,270	1,650	810	307	205	155	143
18	660	529	2,770	1,890	1,160	1,310	1,600	860	333	210	150	151
19	640	529	2,770	1,830	1,160	1,390	1,600	940	326	237	150	164
20	621	529	2,700	1,770	1,160	1,430	1,550	1,000	307	288	145	173
21	602	529	2,700	1,770	1,240	1,470	1,500	1,000	294	320	135	183
22	583	529	2,700	1,770	1,350	1,550	1,400	970	281	320	130	183
23	583	547	2,860	1,770	1,390	1,550	1,350	970	262	288	130	183
24	565	547	3,030	1,770	1,430	1,550	1,300	970	249	249	130	173
25	547	583	3,220	1,770	1,430	1,550	1,200	910	231	231	130	168
26	529	602	3,220	1,630	1,470	1,550	1,100	785	220	226	130	168
27	494	640	3,120	1,690	1,510	1,510	*1,000	621	210	214	125	159
28	640	640	3,120	1,690	1,470	1,470	940	511	200	209	125	151
29	482	660	3,030	1,690	-	1,510	810	447	200	209	125	151
30	462	640	3,030	1,630	-	1,550	720	447	195	226	125	151
31	447	-	3,120	1,770	-	1,600	-	447	-	255	125	-
Total	39,349	15,935	66,621	73,150	36,920	46,630	44,770	21,966	11,186	7,124	5,041	4,288
Mean	1,269	531	2,149	2,360	1,390	1,504	1,492	709	373	230	163	143
Cfm	0.654	0.274	1.11	1.22	0.716	0.775	0.769	0.365	0.192	0.119	0.084	0.074
In.	0.75	0.51	1.28	1.41	0.75	0.89	0.86	0.42	0.21	0.14	0.10	0.08
Calendar year 1953: Max	13,900	Min	242	Mean	1,709	Cfm	0.681	In.	11.96			
Water year 1953-54: Max	3,600	Min	120	Mean	1,027	Cfm	0.529	In.	7.20			

* Discharge measurement made on this day.

Note.--No gage-height record Oct. 1-6, Apr. 5-26, June 26 to July 11, July 16-18, 27-29, Aug. 3 to Sept. 10; discharge estimated on basis of weather records and records for stations on nearby streams.

Ogeechee River near Eden, Ga.

Location.--Lat 32°10', long 81°25', on right bank 600 ft downstream from bridge on U. S. Highways 25, 80, and 280, 2 miles west of Eden, Effingham County, 2 miles upstream from Seaboard Air Line Railroad bridge, and 3 miles upstream from Black Creek.

Drainage area.--2,650 sq mi, approximately.

Records available.--April 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 19.64 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers).

Average discharge.--17 years, 2,169 cfs.

Extremes.--Maximum discharge during year, 5,180 cfs Jan. 1 (gage height, 9.0 ft); minimum observed, 131 cfs Sept. 12-14.

1937-54: Maximum discharge, 26,300 cfs Mar. 31, 1944 (gage height, 14.7 ft); minimum observed, that of Sept. 12-14, 1954.

Maximum stage known, 20.0 ft in October 1929, from data furnished by Central of Georgia Railway Co.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 30				Jan. 1 to Sept. 30			
1.5	560	7.0	2,830	0.04	131		
3.0	1,040	8.0	3,700	3.0	438		
5.0	1,740	9.0	5,180	3.0	1,040		

Note.--Same as preceding table above 3.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,320	640	738	5,180	2,550	2,150	2,000	1,240	640	279	240	150
2	4,480	624	738	5,180	2,550	2,200	1,950	1,380	596	266	250	146
3	4,180	592	738	5,000	2,550	2,200	1,900	1,480	581	263	276	146
4	3,920	592	755	4,820	2,490	2,200	1,900	1,380	581	257	286	139
5	4,040	576	802	4,640	2,430	2,200	1,900	1,110	625	253	270	139
6	4,640	576	868	4,640	2,310	2,150	1,950	980	790	243	253	146
7	4,820	576	980	4,480	2,250	2,100	1,950	915	980	233	229	146
8	5,000	592	1,080	4,480	2,150	2,100	1,950	820	1,080	222	219	146
9	5,000	624	1,210	4,320	2,100	2,150	1,950	730	1,020	*246	226	139
10	4,640	656	1,510	4,320	2,050	2,150	2,000	685	915	236	226	*139
11	4,040	656	1,450	4,180	1,950	2,150	2,050	640	820	243	226	139
12	3,510	672	1,620	4,180	*1,860	2,150	2,050	640	700	233	226	135
13	*2,990	688	1,820	3,920	1,820	2,050	2,000	685	610	226	219	131
14	2,490	688	2,050	3,920	1,740	1,950	2,000	850	538	250	212	135
15	2,150	688	2,200	3,800	1,700	1,860	2,000	1,180	494	279	205	191
16	1,860	688	2,370	3,700	1,660	1,780	1,950	1,480	452	325	194	246
17	1,620	672	2,620	3,600	1,620	*1,740	1,900	1,740	410	352	194	279
18	1,450	*656	2,830	3,510	1,590	1,620	1,780	1,700	381	349	194	279
19	1,310	656	3,070	3,330	1,560	1,590	1,660	1,560	381	292	198	240
20	1,180	640	3,240	3,240	1,520	1,520	1,590	1,580	381	263	205	226
21	1,080	640	3,420	3,070	1,480	1,480	1,560	1,240	381	257	198	212
22	1,020	640	3,510	2,910	1,450	1,480	1,560	1,180	366	*263	184	219
23	950	640	3,700	2,760	1,450	1,520	1,520	1,140	*352	292	164	226
24	915	624	3,700	2,690	1,450	1,590	1,480	1,110	349	319	172	226
25	868	640	3,920	2,690	1,590	1,620	1,420	1,080	343	331	165	233
26	820	656	4,040	2,620	1,740	1,660	1,340	1,040	346	319	169	253
27	785	672	4,180	2,620	1,860	1,740	1,240	1,020	322	289	150	253
28	770	688	4,320	2,620	2,000	1,820	*1,180	980	310	263	146	240
29	738	704	4,640	2,620	-	1,900	1,110	980	289	257	158	226
30	704	720	5,000	2,550	-	1,950	1,110	915	286	243	169	226
31	672	-	5,180	2,550	-	2,000	-	775	-	233	158	-
Total	76,962	19,376	78,099	114,140	53,470	58,770	51,950	34,035	16,319	8,376	6,401	5,731
Mean	2,483	646	2,519	3,692	1,910	1,896	1,732	1,098	544	270	206	191
Cfsm	0.937	0.244	0.951	1.39	0.721	0.715	0.654	0.414	0.205	0.102	0.078	0.072
In.	1.08	0.27	1.10	1.60	0.75	0.82	0.73	0.48	0.23	0.12	0.09	0.08
Calendar year 1953: Max	15,100			Min 367		Mean 2,370		Cfsm 0.894		In. 12.15		
Water year 1953-54: Max	5,180			Min 131		Mean 1,435		Cfsm 0.542		In. 7.35		

* Discharge measurement made on this day.

Note.--Discharge Aug. 19 to Sept. 30 computed from twice-daily staff-gage readings.

Canoochee River near Claxton, Ga.

Location.--Lat 32°11'05", long 81°53'25", on right bank 400 ft upstream from bridge on State Highway 73, 2 miles northeast of Claxton, Evans County, and 10 miles upstream from Lotts Creek.

Drainage area.--555 sq mi, approximately.

Records available.--May 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 80.5 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department). Prior to Oct. 20, 1949, staff gage at same site and datum.

Average discharge.--17 years, 419 cfs.

Extremes.--Maximum discharge during year, 3,170 cfs Oct. 2 (gage height, 11.8 ft), occurred on recession following peak of Sept. 28, 1953; maximum independent peak discharge, 2,020 cfs Jan. 1 (gage height, 9.7 ft); minimum discharge observed, 0.86 cfs Sept. 8-14, 1937-54: Maximum discharge, 12,100 cfs Apr. 2, 1948 (gage height, 13.9 ft, from graph based on gage readings), from rating curve extended above 5,100 cfs by logarithmic plotting; minimum observed, that of Sept. 8-14, 1954.

Remarks.--Records good prior to Aug. 5, fair thereafter.

Revisions (water years).--WSP 1112: 1939-41, 1944.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1-21, Jan. 23 to Feb. 1, June 15 to July 5)

Oct. 1 to Dec. 31				Jan. 1 to Sept. 30			
2.4	117	9.0	1,740	1.24	0.86	2.0	36
3.0	317	10.0	2,190	1.3	1.5	2.2	66
7.0	1,170	11.2	3,170	1.5	5.9	2.5	140
				1.7	14	3.0	317

Note.--Same as preceding table above 3.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,940	159	159	2,020	457	686	329	33	16	3.7	1.8	2.7
2	3,170	159	156	1,950	417	646	282	33	16	3.5	1.7	2.3
3	2,750	156	139	1,780	395	587	248	33	14	3.3	1.7	2.1
4	2,250	156	147	1,600	371	549	222	33	14	3.5	1.5	1.5
5	1,930	153	292	1,480	329	474	201	34	11	4.0	a1.5	1.2
6	2,940	162	358	1,340	306	448	166	31	10	4.0	a1.5	1.0
7	2,580	159	448	1,170	292	417	134	33	9.6	4.2	a1.4	.95
8	1,820	153	568	976	276	383	111	42	9.6	3.7	a1.4	.86
9	1,400	165	708	846	253	358	92	52	8.4	3.3	a1.2	.86
10	1,040	177	888	746	244	337	83	45	8.0	3.7	a1.2	*.86
11	786	168	1,020	786	237	286	61	37	8.0	3.7	a1.2	.86
12	*646	174	1,040	826	244	244	61	34	9.6	3.7	a1.0	.86
13	549	184	888	826	267	233	83	48	12	3.7	a1.0	.86
14	492	190	976	806	282	237	83	186	11	3.7	a.95	.86
15	457	168	1,120	766	267	240	85	190	9.2	3.7	a.95	1.8
16	417	153	1,200	686	240	244	63	156	8.0	3.7	a.95	5.0
17	383	141	1,220	686	219	*289	76	140	6.9	3.7	a.95	5.3
18	371	*133	1,240	666	201	286	74	114	6.6	4.2	a.95	4.0
19	346	125	1,220	646	*183	230	68	101	5.9	4.0	1.2	3.3
20	334	120	1,240	606	166	289	63	101	5.6	3.7	*1.5	2.7
21	320	125	*1,140	568	233	320	58	94	5.3	3.3	1.8	2.1
22	310	134	932	546	246	326	52	72	5.0	*1.8	1.7	1.8
23	292	130	954	587	549	223	49	56	*4.0	1.5	1.5	1.8
24	289	133	976	646	746	269	49	42	4.2	1.4	1.5	1.7
25	282	133	1,070	646	910	248	51	*33	4.5	1.4	1.5	1.5
26	252	139	1,370	606	954	222	58	26	4.5	2.0	1.5	2.1
27	229	133	1,600	587	866	237	70	24	4.2	1.8	1.5	2.3
28	214	133	1,710	806	806	346	61	22	4.0	1.7	1.5	2.3
29	194	139	1,710	*587	---	371	*46	23	4.0	1.5	2.8	2.1
30	168	156	1,740	530	---	358	37	25	3.7	1.7	3.5	1.8
31	162	---	1,890	474	---	358	---	22	---	1.7	3.1	---
Total	30,113	4,506	30,117	27,574	11,088	10,861	3,176	1,917	244.8	94.5	47.45	59.37
Mean	971	150	972	889	396	350	106	61.8	8.16	3.05	1.53	1.98
Cfs/m	1.75	0.270	1.75	1.60	0.714	0.631	0.191	0.111	0.015	0.0055	0.0028	0.0036
In.	2.02	0.30	2.02	1.84	0.74	0.73	0.21	0.13	0.02	0.006	0.003	0.004
Calendar year 1953: Max 7,630 Min 9.5 Mean 607 Cfs/m 1.09 In. 14.85												
Water year 1953-54: Max 3,170 Min 0.86 Mean 328 Cfs/m 0.591 In. 8.02												

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and weather records.

Note.--Discharge computed from once-daily staff-gage readings Aug. 19 to Sept. 30.

South River near McDonough, Ga.

Location.--Lat 33°30', long 84°01', on left bank 20 ft downstream from Butler Bridge, a quarter of a mile upstream from Beech Creek, 2 miles downstream from Big Walnut Creek, 4½ miles downstream from Cotton River, and 9 miles northeast of McDonough, Henry County.

Drainage area.--436 sq mi.

Records available.--October 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 564.99 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark).

Average discharge.--15 years, 575 cfs.

Extremes.--Maximum discharge during year, 5,300 cfs Dec. 5 (gage height, 13.4 ft); minimum daily, 64 cfs Sept. 30.

1939-54: Maximum discharge, 34,500 cfs Jan. 7, 1946 (gage height, 24.7 ft), from rating curve extended above 20,000 cfs by logarithmic plotting; minimum daily, that of Sept. 30, 1954.

Remarks.--Records good. Figures of daily discharge include flow diverted from Chattahoochee River (averaging about 12 cfs) for Atlanta municipal supply.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Dec. 14 to June 18)

2.1	62	7.0	1,620
2.5	140	9.0	2,500
3.0	265	11.3	3,790
5.0	920		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	415	202	*232	648	481	*1,020	547	373	202	132	228	112
2	385	200	235	580	464	665	498	316	208	130	145	102
3	340	200	240	547	464	530	464	304	464	195	134	100
4	307	205	2,780	498	448	498	448	415	385	200	178	100
5	285	212	3,770	481	432	448	*432	346	262	140	130	96
6	277	238	1,510	464	415	432	415	283	220	*126	114	88
7	262	235	1,350	432	415	415	464	268	200	116	114	84
8	252	218	852	415	400	400	432	292	195	122	114	86
9	248	210	699	415	385	400	432	283	188	168	122	88
10	245	210	852	400	385	400	400	250	195	190	165	*86
11	240	212	699	415	385	385	400	240	182	175	152	94
12	235	210	2,310	*400	415	385	385	238	432	132	108	88
13	225	210	2,860	373	376	385	376	274	316	122	98	76
14	225	215	2,270	364	364	852	464	1,060	295	147	94	71
15	228	215	1,470	367	367	631	448	564	352	535	88	76
16	248	215	988	1,160	379	448	385	400	385	400	82	84
17	248	218	784	1,420	631	400	464	331	331	283	82	96
18	230	215	682	733	498	385	385	298	316	210	*132	104
19	222	220	614	597	400	514	340	355	564	180	370	96
20	222	230	580	547	682	1,120	322	322	301	162	388	82
21	220	325	682	597	1,410	682	316	*280	235	152	433	69
22	*215	319	852	1,870	699	530	313	258	212	172	190	73
23	215	415	886	1,540	530	498	310	248	200	242	140	73
24	212	322	699	920	498	498	301	235	195	168	126	69
25	202	283	614	733	514	481	597	228	182	142	128	73
26	198	274	614	685	464	547	464	225	172	134	118	90
27	202	245	547	631	432	631	329	225	160	128	112	88
28	220	238	514	682	448	1,060	301	218	150	175	132	73
29	215	230	682	580	-	716	319	225	138	130	240	*67
30	205	230	920	530	-----	682	334	316	136	118	140	64
31	202	-----	767	514	-----	614	-----	215	-----	240	114	-----
Total	7,643	7,171	33,534	20,518	13,781	17,852	12,084	9,885	7,773	5,666	4,911	2,548
Mean	247	239	1,082	662	492	569	403	319	259	183	158	84.9
Cfsm	0.567	0.548	2.488	1.52	1.13	1.31	0.924	0.732	0.584	0.420	0.362	0.195
In.	0.65	0.61	2.86	1.75	1.18	1.51	1.03	0.84	0.66	0.48	0.42	0.22
Calendar year 1953: Max	5,060			Min 151		Mean 662	Cfsm 1.52	In. 20.60				
Water year 1953-54: Max	3,770			Min 64		Mean 392	Cfsm 0.899	In. 12.21				

Peak discharge (base, 5,000 cfs).--Dec. 5 (8 a.m.) 5,300 cfs (13.4 ft).

* Discharge measurement made on this day.

Yellow River near Snellville, Ga.

Location.--Lat 33°51', long 84°05', on left bank (corrected) at downstream side of county highway bridge, 3½ miles west of Snellville, Gwinnett County, 4 miles downstream from Sweetwater Creek, 6½ miles northeast of town of Stone Mountain, and 7½ miles upstream from Stone Mountain Creek.

Drainage area.--144 sq mi.

Records available.--October 1942 to September 1954.

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

Average discharge.--12 years, 172 cfs.

Extremes.--Maximum discharge during year, 4,100 cfs Jan. 17 (gage height, 13.5 ft); minimum, 2.1 cfs Sept. 25, 29, 30.

1942-54: Maximum discharge, 6,580 cfs Nov. 29, 1948 (gage height, 19.4 ft, from floodmark); minimum, that of Sept. 25, 29, 30, 1954.

Remarks.--Records good.

Revisions (water years).--WSP 1032: 1943(M). WSP 1112: 1944-45(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.4	2.3	1.1	45
.5	4.5	1.2	57
.6	7.8	1.4	87
.7	13	1.7	146
.8	19	2.0	216
.9	26	3.0	502
1.0	35	9.6	2,690

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
1	91	47	57	180	146	366	289	82	47	24	15	5.8		
2	76	47	55	158	140	241	209	81	58	24	20	*4.5		
3	68	46	64	148	136	204	178	92	60	31	14	4.1		
4	60	46	1,020	136	133	178	158	117	74	25	11	3.6		
5	57	47	550	127	129	160	144	85	55	21	9.9	3.4		
6	53	52	306	121	125	151	142	*77	49	18	8.8	3.2		
7	51	51	*257	115	121	142	140	74	44	20	9.9	3.0		
8	49	51	178	111	119	135	140	77	41	29	10	17		
9	49	51	160	109	*117	131	140	70	39	32	11	11		
10	47	50	236	107	115	127	127	68	36	84	22	5.2		
11	49	50	180	113	129	125	127	65	35	43	14	4.1		
12	47	50	599	105	144	123	123	64	74	31	9.9	3.6		
13	46	49	486	98	121	127	121	119	65	25	*8.3	*3.2		
14	45	50	822	96	117	334	138	155	*65	22	7.5	3.0		
15	52	50	425	105	113	204	127	121	47	30	6.5	3.2		
16	55	50	257	2,180	115	160	125	100	132	26	5.8	3.8		
17	51	50	190	2,670	171	144	138	84	96	23	5.2	5.8		
18	49	50	158	502	138	133	117	77	183	23	5.5	5.8		
19	47	51	138	*329	125	185	107	79	185	20	31	4.8		
20	47	58	131	251	281	226	100	71	119	*19	22	3.8		
21	45	96	167	287	458	176	96	67	82	17	18	4.5		
22	45	91	174	875	251	*153	96	63	58	22	14	4.1		
23	46	109	185	1,180	192	153	92	60	49	21	11	3.8		
24	45	79	155	471	171	155	115	56	45	19	*10	2.7		
25	43	79	142	292	158	151	113	55	41	15	10	2.3		
26	*43	71	131	234	146	164	100	53	39	15	9.4	2.5		
27	46	64	121	218	136	183	91	53	33	56	7.1	3.0		
28	50	63	119	202	239	254	84	51	30	25	8.3	2.5		
29	52	57	194	180	-	206	84	67	26	18	12	*2.3		
30	49	57	267	167	-----	192	82	64	25	16	10	2.3		
31	47	-----	221	158	-----	174	-----	51	-----	15	6.8	-----		
Total	1,600	1,762	8,145	12,025	4,484	5,558	3,843	2,398	1,932	809	363.9	131.9		
Mean	51.6	58.7	263	388	160	179	128	77.4	64.4	26.1	11.7	4.40		
Cfsm	0.358	0.408	1.83	2.69	1.11	1.24	0.889	0.538	0.447	0.181	0.081	0.031		
In.	0.41	0.46	2.11	3.10	1.16	1.43	0.99	0.62	0.50	0.21	0.09	0.03		
Calendar year 1953: Max	2,940			Min	17			Mean	177		Cfsm	1.23	In.	16.66
Water year 1953-54: Max	2,670			Min	2.3			Mean	118		Cfsm	0.819	In.	11.11

Peak discharge (base, 2,100 cfs).--Jan. 17 (2 a.m.) 4,100 cfs (13.5 ft).

* Discharge measurement made on this day.

Yellow River near Covington, Ga.

Location.--Lat 33°37', long 83°55', near left bank at downstream end of pier of bridge on State Highway 12, a quarter of a mile downstream from Georgia Railroad bridge, half a mile downstream from Gum Creek, and 3½ miles northwest of Covington, Newton County.

Drainage area.--396 sq mi.

Records available.--September to December 1897, May 1899 to December 1901, July 1944 to September 1954. Published as "at Almon" 1897-1901.

Gage.--Water-stage recorder. Datum of gage is 616.99 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. September to December 1897 staff gage at about same site at different datum. May 1899 to December 1901 staff gage at site 1 mile upstream at different datum.

Average discharge.--10 years (1944-54), 467 cfs.

Extremes.--Maximum discharge during year, 4,300 cfs Jan. 18 (gage height, 12.1 ft); minimum daily, 11 cfs Sept. 30.

1944-54: Maximum discharge, 16,200 cfs Nov. 29, 1948 (gage height, 20.3 ft); minimum daily, that of Sept. 30, 1954.

Remarks.--Records good. Diurnal fluctuation caused by mill dam above station.

Revisions (water years).--WSP 1112: 1945(M), 1946.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.5	10	3.0	410
.7	26	5.0	1,000
1.0	59	9.0	2,520
1.5	120	11.2	3,710
2.0	200		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	290	138	156	568	446	*665	458	214	150	70	45	32
2	244	152	158	497	422	656	497	214	122	*74	64	26
3	222	134	*158	458	410	510	454	228	160	74	56	23
4	196	136	1,060	446	399	458	529	280	176	82	47	22
5	191	140	2,220	410	388	410	366	270	148	76	45	16
6	171	140	1,460	388	366	388	355	216	135	67	39	16
7	164	150	1,000	366	355	377	*434	198	135	59	36	17
8	158	150	665	355	366	377	377	182	117	69	34	17
9	148	164	497	333	344	355	399	191	110	80	44	18
10	136	150	538	344	344	344	355	195	105	98	57	*37
11	147	163	538	366	344	333	344	172	103	122	45	37
12	156	161	1,060	344	366	322	344	169	126	113	48	18
13	141	158	1,800	322	355	322	322	182	152	87	40	20
14	141	136	1,680	311	344	510	355	322	198	138	30	20
15	163	144	1,760	311	344	608	355	322	290	176	20	15
16	158	158	1,030	938	333	434	333	270	238	87	28	25
17	156	141	712	2,960	399	377	344	250	252	86	*35	36
18	153	141	566	3,710	434	344	333	210	322	80	*25	25
19	158	140	484	1,350	366	422	311	202	665	91	50	24
20	140	148	446	744	410	712	280	191	388	71	67	25
21	141	171	524	712	1,000	566	260	*169	270	66	98	23
22	*134	216	636	1,140	872	458	258	144	198	64	67	16
23	120	248	636	1,640	566	410	240	146	156	62	71	14
24	126	236	538	1,640	484	410	246	152	140	59	55	12
25	128	195	484	936	458	399	260	135	124	46	55	13
26	140	180	471	712	422	422	260	132	106	73	45	13
27	132	174	422	*622	388	446	242	130	102	106	40	14
28	138	150	422	622	366	594	226	129	105	126	37	14
29	147	158	484	538	-	552	228	136	87	96	35	12
30	129	171	680	497	-----	510	208	176	61	72	46	11
31	134	-----	680	471	-----	471	-----	161	-----	58	45	-----
Total	4,902	4,843	23,965	25,047	12,113	14,142	9,663	6,068	5,441	2,628	1,449	813
Mean	158	161	773	808	433	456	329	198	181	84.8	46.7	20.4
Cfsm	0.399	0.407	1.95	2.04	1.09	1.15	0.831	0.495	0.457	0.214	0.118	0.052
In.	0.46	0.45	2.25	2.35	1.14	1.33	0.93	0.57	0.51	0.25	0.14	0.06

Calendar year 1953: Max 5,100 Min 70 Mean 523 Cfsm 1.32 In. 17.91
 Water year 1953-54: Max 3,710 Min 11 Mean 304 Cfsm 0.768 In. 10.44

Peak discharge (base, 5,400 cfs).--No peak above base.

* Discharge measurement made on this day.

ALTAMAHA RIVER BASIN

Ocmulgee River near Jackson, Ga.

Location.--Lat 33°18', long 83°50', on right bank 500 ft upstream from bridge on State Highway 16, half a mile upstream from Yellow Water Creek, 1 mile downstream from Lloyd Shoals Dam, 7 miles east of Jackson, Butts County, and at mile 247.4.

Drainage area.--1,420 sq mi, approximately.

Records available.--May 1906 to September 1915, August 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 419.29 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Jan. 1, 1913, staff gage, Jan. 1 to Dec. 31, 1913, water-stage recorder, and Jan. 1, 1914, to Dec. 31, 1915, staff gage, all at present site and datum.

Average discharge.--15 years (1939-54), 1,697 cfs (unadjusted).

Extremes.--Maximum discharge during year, 9,080 cfs Dec. 13 (gage height, 8.2 ft); minimum daily, 160 cfs Sept. 30.
1906-15, 1939-54: Maximum discharge, 56,600 cfs Nov. 28, 1948 (gage height, 23.9 ft); minimum daily, 18 cfs Nov. 20, 1910.
Maximum stage known, 26.8 ft Dec. 11, 1919, from graph based on gage readings (discharge, 69,000 cfs, by computation of flow over dam).

Remarks.--Records good. Flow regulated by Lloyd Shoals Reservoir (usable capacity, 77,000 acre-ft), completed in 1910, and powerplant.

Revisions (water years).--WSP 892: Drainage area. WSP 952: 1912(M). WSP 972: 1942.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Mar. 5 to May 31)

Oct. 1 to June 29			June 30 to Sept. 30		
4.1	420		3.7	145	
4.5	820		4.0	310	
5.0	1,530		4.2	460	
7.7	7,880		4.5	760	
			4.9	1,280	

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,390	528	1,150	3,070	2,040	2,070	2,140	510	805	610	580	436
2	2,370	578	823	2,440	2,160	2,240	2,140	510	1,230	580	550	444
3	1,510	914	1,130	532	1,770	1,990	1,380	885	724	590	560	428
4	425	919	2,200	2,230	1,950	1,970	449	1,180	832	630	550	420
5	1,500	1,340	2,240	2,220	2,000	1,750	*1,780	1,150	551	610	550	420
6	1,650	1,100	2,250	1,950	2,270	1,040	1,820	742	561	600	550	420
7	1,080	513	3,070	1,830	560	507	898	570	600	541	420	420
8	910	508	3,030	1,280	1,850	1,950	1,140	490	690	620	541	420
9	928	776	2,910	952	1,820	505	578	810	630	541	412	368
10	445	930	2,910	542	744	1,910	467	860	768	610	532	368
11	447	580	2,820	1,800	1,980	1,870	472	694	708	610	523	366
12	862	518	2,890	1,870	2,050	1,120	574	1,040	536	580	532	359
13	982	496	5,020	*2,020	795	1,030	925	1,920	541	570	541	366
14	1,130	492	7,870	1,780	552	498	1,630	524	1,040	570	541	366
15	1,430	510	6,850	551	1,930	1,730	670	516	1,010	610	541	359
16	1,170	682	4,140	1,790	1,860	1,190	1,800	507	738	640	541	345
17	493	656	3,040	1,510	1,710	872	448	776	604	610	550	345
18	584	744	2,920	2,210	1,970	1,530	446	1,130	564	610	550	345
19	700	515	2,910	3,080	2,070	1,840	906	664	572	610	550	345
20	502	507	2,870	3,040	1,390	1,400	1,140	610	568	620	541	331
21	796	516	2,850	3,060	1,150	1,480	924	526	582	630	541	310
22	862	515	2,830	3,040	2,340	2,090	1,310	537	581	590	532	297
23	506	600	2,950	3,130	2,430	1,960	514	534	600	590	532	*278
24	494	690	2,990	3,050	2,160	2,150	518	832	591	590	523	271
25	506	529	3,000	2,980	1,420	2,220	534	752	595	580	505	290
26	505	535	2,690	3,040	2,010	1,980	681	905	579	580	478	290
27	597	552	2,720	3,020	816	681	906	912	566	570	444	235
28	730	544	3,060	3,020	994	938	860	524	736	570	444	175
29	574	556	3,080	2,350	-	2,050	729	529	617	570	436	165
30	638	1,040	3,080	1,690	-	2,890	809	541	*560	560	436	160
31	525	-	3,110	570	-	2,290	-	890	-	560	444	-
Total	28,221	19,883	95,449	65,647	46,791	49,741	29,590	23,214	20,429	18,500	16,200	10,206
Mean	910	663	3,079	2,118	1,671	1,605	986	749	681	597	523	340
(†)	-276	-34	+124	+185	-191	-41	+126	-20	-34	-234	-246	-254

Adjusted for change in contents in Lloyd Shoals Reservoir

Mean	634	629	3,203	2,303	1,480	1,564	1,112	729	647	363	277	86.0
Cfsm	0.446	0.443	2.26	1.62	1.04	1.10	0.783	0.513	0.456	0.256	0.195	0.060
In.	0.51	0.49	2.61	1.87	1.08	1.27	0.87	0.59	0.51	0.30	0.22	0.07

	Observed					Adjusted						
Calendar year 1953:	Max	9,430	Min	425	Mean	1,909	Mean	1,925	Cfsm	1.36	In.	18.41
Water year 1953-54:	Max	7,870	Min	160	Mean	1,161	Mean	1,087	Cfsm	0.765	In.	10.39

* Discharge measurement made on this day.

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

Ocmulgee River at Macon, Ga.

Location.--Lat 32°51', long 83°34', at downstream end of center pier of Fifth Street Bridge in Macon, Bibb County, 1½ miles upstream from Walnut Creek and at mile 205.0.

Drainage area.--2,240 sq mi, approximately.

Records available.--January 1893 to September 1913, October 1931 to September 1954. Gage-height records collected at same site since 1895 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 269.80 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Oct. 9, 1905, staff, chain, and wire-weight gages at sites within 1½ miles downstream at about same datum. Oct. 9, 1905, to Sept. 30, 1913, chain gage at present site and datum. Oct. 1, 1931, to June 25, 1934, water-stage recorder at site 500 ft downstream at present datum.

Average discharge.--41 years (1893-1911, 1931-54), 2,741 cfs.

Extremes.--Maximum discharge during year, 13,800 cfs Dec. 14 (gage height, 17.1 ft); minimum daily, 236 cfs Sept. 30.

1893-1913, 1931-54: Maximum discharge, 83,500 cfs Nov. 29, 1948 (gage height, 28.0 ft); minimum daily, 192 cfs Nov. 9, 16, 23, 1931; minimum gage height observed, -1.0 ft Oct. 5, 1904.

Flood of Feb. 28, 1929, reached a stage of 26.1 ft (discharge, 70,000 cfs). A stage 1 inch lower, as determined from floodmarks, was reached on Jan. 19, 1925, at Central of Georgia Railroad bridge 500 ft downstream.

Remarks.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Lloyd Shoals Reservoir (see preceding page) and powerplant above station.

Revisions.--WSP 822: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge in cubic feet per second)
(Rate of change in stage used as a factor Dec. 4; shifting-control method used July 18-20)

Oct. 1 to Dec. 14				Dec. 15 to Sept. 30			
3.9	855	16.0	11,200	2.4	231	13.0	6,500
9.0	3,500	16.5	12,300	3.0	414	15.7	10,600
13.0	6,500			6.0	1,800		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,260	730	1,200	4,980	1,300	1,450	3,670	1,160	1,050	625	580	460
2	2,300	760	1,420	4,320	2,500	2,440	3,280	850	940	648	602	452
3	2,500	780	1,340	3,600	2,760	2,760	3,280	895	1,300	625	625	464
4	2,300	920	2,610	*1,800	2,440	2,500	2,080	1,400	985	625	*536	336
5	1,500	1,100	5,680	3,080	2,500	2,440	1,160	1,600	985	625	602	407
6	2,100	1,400	6,300	3,150	2,560	2,260	2,380	1,550	692	625	558	433
7	1,800	1,100	9,240	2,820	2,560	1,500	2,560	1,160	692	625	514	514
8	1,500	900	6,400	2,630	1,210	1,050	1,700	872	715	602	558	392
9	1,400	800	4,750	2,140	2,200	2,260	1,750	808	625	580	371	
10	1,300	900	4,750	1,700	2,380	1,500	1,350	*782	918	625	625	403
11	980	1,100	4,410	1,300	1,500	2,380	1,210	1,120	918	602	514	433
12	800	820	5,040	2,380	2,380	2,440	1,030	1,010	872	602	527	305
13	1,030	780	6,920	2,500	2,440	1,680	1,160	1,400	738	625	519	362
14	1,300	780	12,300	2,500	1,260	1,970	1,550	2,080	738	558	493	422
15	1,400	760	10,600	2,380	*1,080	1,500	2,080	1,080	1,120	648	536	378
16	1,600	760	7,680	1,450	2,260	2,260	1,350	985	1,100	760	558	375
17	1,400	800	5,120	2,560	2,320	1,860	2,080	850	918	782	625	371
18	980	850	4,380	2,020	2,380	1,550	1,030	1,050	782	895	558	378
19	*850	975	4,060	3,150	2,500	2,260	895	1,350	760	*738	648	348
20	1,050	800	3,930	3,730	2,630	3,410	1,350	1,010	692	715	648	*285
21	900	850	3,930	3,730	2,200	2,690	1,650	918	*670	670	580	389
22	1,120	875	4,060	4,190	1,970	2,320	1,450	918	692	648	580	333
23	1,200	*900	4,510	5,540	2,890	2,820	1,650	940	670	580	558	330
24	975	950	4,450	4,510	2,950	2,760	1,340	782	625	536	282	
25	925	1,000	4,250	4,120	2,760	2,890	850	1,030	760	602	558	317
26	750	850	4,060	3,930	2,560	3,080	850	1,010	738	602	536	265
27	678	850	3,860	3,930	2,500	3,410	1,030	1,120	648	625	481	285
28	678	775	3,930	3,930	1,400	4,320	1,210	1,120	625	625	396	348
29	850	800	4,640	3,410	-	*3,150	1,210	828	805	602	456	274
30	800	825	5,760	2,950	-----	4,640	1,210	760	738	580	472	236
31	780	-----	5,610	2,200	-----	4,320	-----	760	-----	580	523	-----
Total	41,506	26,470	157,190	96,630	62,390	77,650	48,995	33,195	24,804	19,914	17,082	10,948
Mean	1.339	.882	5.071	3.117	2.228	2.505	1.633	1.071	.827	.642	.551	.365
Cfs/m	0.598	0.394	2.26	1.39	0.995	1.12	0.729	0.478	0.369	0.287	0.246	0.163
In.	0.69	0.44	2.61	1.60	1.04	1.29	0.81	0.55	0.41	0.33	0.28	0.18

Calendar year 1953: Max 30,200 Min 610 Mean 2,995 Cfs/m 1.34 In. 18.12
Water year 1953-54: Max 12,500 Min 236 Mean 1,690 Cfs/m 0.754 In. 10.23

* Discharge measurement made on this day.

Note.--No gage-height record Oct. 2-18, Oct. 30 to Nov. 18; discharge estimated on basis of recorded range in stage, weather records, and records for stations on nearby streams.

ALTAMAHA RIVER BASIN

Tobesofkee Creek near Macon, Ga.

Location.--Lat 32°48', long 83°46', on right bank at downstream end of pier of bridge on U. S. Highway 80, 8 miles west of Macon, Bibb County, and 14 miles upstream from mouth.

Drainage area.--182 sq mi.

Records available.--March 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 309.98 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Feb. 3, 1938, staff gage and Feb. 3, 1938, to Aug. 27, 1942, wire-weight gage, at same site and datum.

Average discharge.--17 years, 190 cfs.

Extremes.--Maximum discharge during year, 1,580 cfs Dec. 6 (gage height, 8.9 ft); minimum, 3.1 cfs Sept. 27.

1937-54: Maximum discharge, 9,830 cfs Mar. 21, 1944 (gage height, 23.2 ft), from rating curve extended above 5,600 cfs; minimum, that of Sept. 27, 1954.

Remarks.--Records good.

Revisions (water years).--WSP 1204: 1942.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Mar. 13

Mar. 14 to Sept. 30

2.9	92	2.09	3.4	2.8	57
3.4	226	2.2	7.5	4.0	268
8.1	1,380	2.3	12	6.0	540
		2.6	33	7.6	840

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	256	99	94	361	189	189	*282	92	54	24	35	10
2	244	99	92	310	186	168	222	98	51	24	24	9.3
3	204	99	94	292	183	162	206	*98	53	24	22	8.8
4	177	99	560	271	180	160	172	170	59	25	*18	8.4
5	154	103	872	*253	174	154	160	113	54	38	17	8.0
6	146	128	1,050	241	171	154	159	90	49	28	15	7.5
7	133	116	1,380	226	168	152	155	83	46	24	14	7.1
8	126	107	615	217	160	152	147	79	44	22	14	6.7
9	124	105	358	214	157	152	138	75	41	27	16	5.9
10	119	105	490	210	154	149	132	*73	39	53	15	5.5
11	116	103	343	220	149	149	130	71	41	42	15	5.1
12	112	103	532	210	145	149	128	71	40	30	14	4.8
13	107	101	896	195	138	152	124	94	44	27	13	4.4
14	105	101	1,230	186	136	561	124	107	43	27	11	4.0
15	107	103	752	186	136	306	122	98	54	30	11	4.0
16	*136	103	420	195	*136	181	119	90	43	33	11	6.7
17	124	103	328	204	217	153	122	83	*38	31	11	8.0
18	110	101	283	186	204	143	136	77	38	70	10	9.8
19	160	101	256	183	174	201	107	77	66	41	21	11
20	128	101	244	180	180	394	102	79	59	31	34	*9.3
21	114	110	274	183	250	260	102	71	41	27	89	8.0
22	110	119	343	226	217	188	98	68	36	25	38	6.7
23	107	131	434	532	186	166	98	66	34	24	24	5.1
24	105	*119	334	307	186	159	98	62	33	26	21	4.8
25	103	107	310	256	214	151	96	61	43	24	18	8.7
26	101	105	316	238	189	168	92	59	35	29	17	4.0
27	99	99	274	229	177	472	88	59	31	35	15	3.7
28	105	94	259	223	180	840	86	57	28	31	14	3.4
29	103	94	434	210	-	464	94	57	27	27	13	4.0
30	101	92	615	201	-----	*464	109	64	25	23	13	4.4
31	99	-----	476	198	-----	*380	-----	57	-----	30	12	-----
Total	4,035	3,150	14,958	7,343	4,937	7,693	3,948	2,499	1,289	952	615	197.1
Mean	130	105	482	237	176	248	132	80.6	43.0	30.7	19.8	6.57
Cfs/m	0.714	0.577	2.65	1.30	0.967	1.36	0.725	0.443	0.236	0.169	0.109	0.036
In.	0.82	0.64	3.06	1.50	1.01	1.57	0.81	0.51	0.26	0.19	0.13	0.04
Calendar year 1953: Max	7,310			Min	54	Mean	310	Cfs/m	1.70	In.	23.12	
Water year 1953-54: Max			1,380	Min	3.4	Mean	141	Cfs/m	0.775	In.	10.54	

Peak discharge (base, 1,900 cfs).--No peak above base.

* Discharge measurement made on this day.

Big Indian Creek at Perry, Ga.

Location.--Lat 32°27', long 83°44', at municipal waterworks at Perry, Houston County, on left bank 300 ft downstream from bridge on U. S. Highway 41, 1 mile downstream from Bay Creek, and 3¼ miles upstream from Flat Creek.

Drainage area.--108 sq mi.

Records available.--September 1943 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 279.39 ft above mean sea level. Prior to Sept. 24, 1953, staff gage at same site and datum.

Average discharge.--11 years, 82.3 cfs.

Extremes.--Maximum discharge during year, 474 cfs Dec. 14 (gage height, 4.70 ft); minimum, 24 cfs Sept. 10.

1943-54: Maximum discharge, 3,000 cfs Mar. 23, Apr. 23, 1944 (gage height, 8.6 ft, from graph based on gage readings); minimum observed, 21 cfs Sept. 3-5, 9-11, 13, 1951.

Remarks.--Records good except those for period of no gage-height record, which are fair.

Revisions (water years).--WSP 1274: 1944-47.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 14				Dec. 15 to Sept. 30	
0.6	46	3.5	230	0.1	21
2.0	117	4.0	300	2.0	114
3.0	185	4.6	442	3.0	185

Note.--Same as preceding table above 3.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	a47	58	206	76	117	88	56	44	26	30	27
2	98	a47	58	141	76	93	88	58	41	26	34	26
3	88	a47	58	120	76	76	*76	*62	39	26	32	26
4	75	a47	138	111	76	74	72	141	38	26	29	26
5	65	a56	328	105	76	69	67	141	37	35	*28	26
6	60	a80	276	105	74	69	80	67	37	43	29	26
7	57	a68	220	*99	74	69	90	52	36	40	32	25
8	54	a59	206	93	74	67	74	49	36	32	32	25
9	53	52	123	93	72	67	67	46	36	29	30	25
10	52	51	123	93	72	67	65	46	35	30	30	24
11	52	50	120	99	74	67	65	45	36	28	27	26
12	50	50	148	99	83	67	65	47	36	27	26	25
13	49	50	318	90	80	67	62	69	44	26	26	25
14	49	49	442	85	74	85	62	78	40	26	26	25
15	*50	50	374	85	*72	120	60	72	36	34	26	27
16	53	50	206	88	72	93	67	60	*35	34	26	58
17	52	50	138	93	80	69	96	52	32	33	*26	54
18	51	50	114	88	80	67	78	50	31	56	28	39
19	50	*51	105	83	74	76	60	56	30	90	33	33
20	50	52	102	83	74	114	56	56	30	50	39	30
21	49	56	120	83	83	96	54	52	29	34	40	28
22	48	65	152	95	83	74	52	47	28	31	32	28
23	48	95	175	114	72	67	52	45	28	32	29	27
24	48	90	158	102	74	67	52	44	34	43	28	27
25	48	75	134	85	93	67	52	43	37	69	28	26
26	48	65	158	83	85	67	49	42	32	67	27	28
27	48	60	141	83	74	88	47	43	28	42	26	28
28	50	58	114	80	78	158	46	43	26	34	29	27
29	49	57	130	78	---	169	45	43	*25	32	40	27
30	48	56	189	78	---	*114	52	54	26	30	34	27
31	a46	-----	225	80	---	96	-----	49	-----	29	29	---
Total	1,733	1,733	5,349	3,018	2,151	2,656	1,939	1,808	1,022	1,160	931	871
Mean	55.9	57.8	173	97.4	76.8	85.7	64.6	58.3	34.1	37.4	30.0	29.0
Cfsm	0.518	0.535	1.60	0.902	0.711	0.794	0.598	0.540	0.316	0.346	0.278	0.269
In.	0.60	0.60	1.84	1.04	0.74	0.92	0.67	0.62	0.35	0.40	0.32	0.30
Calendar year 1953: Max 442 Min 31 Mean 86.8 Cfsm 0.804 In. 10.91												
Water year 1953-54: Max 442 Min 24 Mean 66.8 Cfsm 0.619 In. 8.40												

Peak discharge (base, 500 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage, weather records, and records for stations on nearby streams.

Ocmulgee River at Hawkinsville, Ga.

Location.--Lat 32°17', long 83°28', near center of right truss on downstream side of bridge on U. S. Highway 341 at Hawkinsville, Pulaski County, a quarter of a mile downstream from Southern Railway bridge, 2½ miles downstream from Jordan Creek, and at mile 135.1.

Drainage area.--3,800 sq mi, approximately.

Records available.--January 1944 to September 1954 in reports of Geological Survey. January 1929 to December 1931 in House Document 68, 74th Congress, 1st session. Gage-height records collected at same site since 1908 are contained in reports of U. S. Weather Bureau.

Gage.--Wire-weight gage read once daily. Datum of gage is 189.56 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--10 years, 4,118 cfs.

Extremes.--Maximum discharge observed during year, 13,500 cfs Dec. 18, 19 (gage height, 16.9 ft); minimum daily, 575 cfs Sept. 26-29.

1944-54: Maximum discharge, 68,000 cfs Dec. 2, 1948 (gage height, 34.4 ft, from graph based on gage readings); minimum daily, that of Sept. 26-29, 1954.

Maximum stage known since 1908, 36.5 ft Jan. 20, 1925 (discharge, 79,000 cfs).

Remarks.--Records fair. Flow regulated by Lloyd Shoals Reservoir (see p. 20).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.7	575
2.0	1,230
10.0	6,480
17.0	13,600

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,930	1,560	1,680	8,280	5,360	4,310	5,640	1,920	1,400	1,180	1,010	850
2	8,940	1,560	1,740	8,940	5,080	4,040	5,990	1,980	1,400	1,120	1,010	850
3	9,940	1,500	2,040	8,460	4,920	3,580	6,200	1,980	1,560	1,080	1,010	800
4	9,030	1,500	2,480	8,130	3,970	3,580	6,130	*1,860	1,560	1,060	1,010	755
5	7,580	1,620	3,380	8,190	3,780	3,710	5,780	2,040	1,680	1,060	1,010	755
6	6,340	1,800	4,240	7,750	3,780	3,780	5,290	2,480	1,560	1,120	*900	710
7	5,220	1,920	4,940	6,930	3,840	3,780	4,660	2,670	1,500	1,060	1,010	665
8	4,100	2,100	5,360	5,990	3,840	3,710	3,970	2,480	1,280	1,120	960	710
9	3,450	2,040	5,990	5,430	3,780	3,190	3,710	2,040	1,230	1,120	900	800
10	3,060	1,740	7,330	5,150	3,450	2,670	3,580	1,680	1,230	1,060	960	710
11	2,670	1,680	9,330	5,080	3,320	2,930	2,930	1,500	1,280	1,060	1,010	665
12	2,480	1,800	10,700	4,730	3,450	2,930	2,480	1,560	1,400	1,060	1,010	665
13	2,040	a2,100	10,700	4,170	3,380	3,190	2,410	1,860	1,400	1,060	900	665
14	1,860	a1,700	10,900	3,900	3,450	3,450	2,220	2,160	1,400	1,060	850	620
15	*2,040	a1,650	11,100	3,970	3,450	3,710	2,280	2,670	1,340	1,060	850	665
16	2,160	a1,600	11,000	4,040	3,120	3,710	2,600	2,930	1,340	1,010	800	*710
17	2,340	a1,600	11,200	4,100	2,740	3,710	2,930	2,740	1,620	1,060	800	755
18	2,480	a1,600	13,100	3,970	3,190	3,780	3,000	1,980	1,560	1,180	850	755
19	2,340	a1,700	a13,500	3,840	3,450	3,840	2,930	1,800	1,400	1,230	960	755
20	1,980	*a1,700	a12,500	3,840	3,710	3,900	2,410	1,920	1,280	1,280	960	755
21	1,980	1,740	a10,900	3,900	3,900	3,840	2,040	1,980	1,230	1,230	1,060	710
22	1,980	1,740	a9,430	4,100	4,040	3,970	2,280	1,800	1,180	1,180	1,120	710
23	1,920	1,740	8,460	4,450	4,040	4,100	2,480	1,620	1,180	1,120	1,080	710
24	1,980	1,800	7,840	4,730	3,900	4,240	2,340	1,620	1,180	1,560	1,060	665
25	1,980	1,920	7,500	5,010	3,970	4,310	2,100	1,560	*1,120	2,100	1,010	620
26	1,860	1,980	7,410	5,220	*4,100	4,240	1,920	1,450	1,180	1,560	960	575
27	1,740	1,920	7,500	5,290	4,170	4,170	1,740	1,620	1,180	1,280	960	575
28	1,620	1,800	7,500	5,850	4,240	4,450	1,680	1,620	1,180	1,180	900	575
29	1,620	1,740	7,410	5,850	-	4,660	1,800	1,680	1,120	1,180	850	575
30	1,560	1,680	7,500	5,780	-----	4,940	1,860	1,560	1,180	1,120	800	620
31	1,620	-----	7,920	5,570	-----	5,220	-----	1,450	-----	1,060	800	-----
Total	106,640	52,550	242,580	170,700	107,020	119,640	97,380	59,880	40,150	36,590	29,350	20,950
Mean	3,440	1,751	7,825	5,506	3,822	3,859	3,246	1,932	1,338	1,180	947	698
Cfs/m	0.905	0.461	2.06	1.45	1.01	1.02	0.854	0.508	0.352	0.311	0.249	0.184
In.	1.04	0.51	2.38	1.67	1.05	1.18	0.95	0.59	0.39	0.36	0.29	0.21

Calendar year 1953: Max 31,800 Min 1,240 Mean 5,092 Cfs/m 1.34 In. 18.20
 Water year 1953-54: Max 13,500 Min 575 Mean 2,968 Cfs/m 0.781 In. 10.62

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of 1 discharge measurement, weather records, and records for stations on nearby streams.

Ocmulgee River at Lumber City, Ga.

Location.--Lat 31°55', long 82°40', on downstream side of left pier of drawspan of bridge on U. S. Highway 341 at Lumber City, Telfair County, 500 ft downstream from Southern Railway bridge, 1 mile upstream from Little Ocmulgee River, and 12 miles upstream from confluence with Oconee River.

Drainage area.--5,180 sq mi, approximately.

Records available.--October 1936 to September 1954. Gage-height records collected at same site since 1908 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 87.48 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Nov. 8, 1937, staff gage at same site and datum.

Average discharge.--18 years, 5,490 cfs.

Extremes.--Maximum discharge during year, 16,600 cfs Dec. 26 (gage height, 13.0 ft); minimum, 1,010 cfs Sept. 30.

1936-54: Maximum discharge, 70,000 cfs Dec. 8, 1948; maximum gage height, 22.7 ft Dec. 9, 1948; minimum discharge, that of Sept. 30, 1954.
Maximum stage known, 26.3 ft Jan. 21, 1925.

Remarks.--Records good. Flow regulated by Lloyds Shoals Reservoir (see p. 20 for monthly change in contents) and powerplant above station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 30 to Apr. 6, June 20, June 24 to Sept. 12)

Oct. 1 to June 20				June 21 to Sept. 30			
0.9	1,690	10.0	10,200	-0.5	1,010		
4.0	3,730	13.0	16,600	0.0	1,280		
8.0	7,600			1.4	2,060		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10,900	2,500	2,500	14,200	6,520	5,600	5,400	2,500	2,110	1,670	1,720	1,370
2	10,400	2,440	2,440	14,000	6,520	5,600	5,500	2,500	2,110	1,670	1,670	1,340
3	11,000	2,440	2,370	13,700	6,640	5,600	5,500	2,500	1,990	1,620	1,620	1,310
4	11,700	2,370	2,370	13,300	6,520	5,500	5,600	2,560	1,930	1,620	1,560	1,310
5	11,600	2,370	2,760	13,100	6,400	5,500	5,800	2,560	1,930	1,670	1,500	1,310
6	11,200	2,370	3,380	12,900	6,200	5,310	6,100	2,560	1,930	1,620	1,500	1,280
7	11,000	2,370	3,960	12,300	5,900	5,130	6,400	2,560	1,990	1,560	1,500	1,280
8	11,000	2,440	4,500	11,900	5,500	4,860	6,520	2,630	1,990	1,560	1,500	1,260
9	11,000	*2,560	4,950	11,600	5,310	4,680	6,640	2,820	1,990	1,560	1,450	1,230
10	10,700	2,700	5,310	11,000	5,040	4,680	6,400	3,030	1,930	1,560	1,500	1,230
11	10,100	2,820	5,700	10,700	4,950	4,590	6,100	2,960	1,810	1,560	1,450	1,200
12	8,840	2,820	6,100	10,200	4,950	4,500	5,600	2,700	1,750	1,560	1,450	1,230
13	7,360	2,700	6,520	9,820	4,860	4,420	5,040	2,500	1,690	1,560	1,450	1,180
14	5,900	2,500	7,360	8,980	4,770	4,100	4,590	2,500	1,690	1,560	1,450	1,120
15	4,770	2,500	8,440	8,200	4,680	*4,030	4,180	2,630	1,750	1,560	1,450	1,120
16	4,100	2,500	9,540	7,600	4,590	4,030	3,800	2,700	*1,810	1,560	1,450	1,120
17	3,660	2,440	10,700	7,240	4,590	4,180	3,450	2,760	1,750	1,560	1,400	1,150
18	3,520	2,370	11,700	6,640	4,500	4,260	3,310	3,050	1,750	1,620	1,400	1,120
19	3,520	2,300	12,700	6,200	4,420	4,420	3,380	3,170	1,750	1,560	1,370	1,120
20	3,590	2,300	13,100	6,000	4,420	4,590	3,520	3,100	1,870	1,620	1,340	1,120
21	3,590	2,240	13,500	5,800	4,420	4,770	3,590	2,760	1,940	1,620	1,340	1,150
22	3,520	2,300	13,700	5,700	4,680	4,950	3,660	2,560	1,890	1,670	1,370	1,150
23	3,380	2,370	14,200	5,700	4,860	5,130	3,450	2,500	1,840	1,720	1,400	1,150
24	3,170	2,370	15,000	5,700	4,860	5,040	3,170	2,500	1,840	1,720	1,450	1,120
25	3,100	2,370	15,700	5,700	5,310	4,950	3,170	2,370	1,790	1,720	1,500	1,090
26	3,030	2,370	16,600	5,700	5,500	4,860	*3,170	2,240	1,720	1,670	1,500	1,090
27	2,960	2,440	16,300	*5,900	5,600	4,860	3,170	2,180	1,720	*1,840	1,450	1,060
28	2,960	2,500	15,700	6,100	5,600	4,950	3,100	2,110	1,720	2,060	1,450	1,060
29	2,820	2,560	15,000	6,200	-	5,040	2,820	2,050	1,670	2,060	1,450	1,040
30	2,700	2,560	14,200	6,300	-----	5,220	2,630	2,050	1,670	1,890	*1,400	1,040
31	2,560	-----	14,400	6,400	-----	5,400	-----	2,110	-----	1,780	1,400	-----
Total	199,650	73,890	290,700	274,780	148,110	150,750	134,760	79,700	55,310	51,580	45,440	35,350
Mean	6,440	2,463	9,377	8,864	5,290	4,863	4,492	2,571	1,844	1,664	1,466	1,178
Cfsm	1.24	0.475	1.81	1.71	1.02	0.939	0.867	0.496	0.356	0.321	0.283	0.227
In.	1.43	0.53	2.09	1.97	1.06	1.08	0.97	0.57	0.40	0.37	0.33	0.25

Calendar year 1953: Max 34,600 Min 1,930 Mean 6,771 Cfsm 1.31 In. 17.76
Water year 1953-54: Max 16,600 Min 1,040 Mean 4,219 Cfsm 0.814 In. 11.05

* Discharge measurement made on this day.

Allen Creek at Talmo, Ga.

Location.--Lat 34°12', long 83°43', 400 ft upstream from bridge on State Highway 11, 5 miles upstream from confluence with Pond Fork of Middle Oconee River, and half a mile north of Talmo, Jackson County.

Drainage area.--17.3 sq mi.

Records available.--July 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 784.42 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 944 cfs Jan. 16 (gage height, 8.3 ft); minimum, 1.9 cfs Sept. 28, 29.
1951-54: Maximum discharge, 1,150 cfs Mar. 10, 1952 (gage height, 11.5 ft, from floodmark); minimum, that of Sept. 28, 29, 1954.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.6	1.4	1.6	52
.7	2.7	2.0	97
.8	4.7	3.0	250
1.0	11	4.3	488
1.3	27		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	14	18	30	23	45	68	20	15	7.9	5.3	3.9
2	16	14	18	28	23	31	39	19	20	16	5.0	4.1
3	16	14	23	28	22	28	33	31	17	12	4.7	*3.7
4	15	14	117	26	22	25	30	23	16	9.3	4.5	3.5
5	14	14	38	26	21	24	28	20	14	8.3	4.5	3.3
6	14	14	44	25	20	23	28	*18	13	7.3	4.3	3.1
7	14	14	35	25	20	22	27	18	13	7.0	5.0	2.9
8	14	14	30	25	*21	22	29	19	12	7.9	4.5	2.9
9	13	14	40	24	21	22	26	18	12	23	40	3.1
10	13	14	47	25	21	21	25	17	12	13	12	3.1
11	13	14	34	25	21	20	25	16	12	10	6.7	5.9
12	12	14	143	24	20	20	25	16	12	8.6	6.2	4.1
13	12	14	72	24	20	44	24	23	16	7.9	6.2	3.9
14	12	14	92	23	20	55	26	28	*16	7.6	5.6	3.9
15	12	14	49	28	20	27	24	22	15	8.3	5.3	3.7
16	12	14	37	481	20	24	25	20	14	7.6	5.0	3.9
17	12	14	32	81	23	23	25	18	12	7.3	*4.3	4.7
18	12	14	29	49	20	22	23	20	13	7.0	4.1	4.3
19	12	14	28	40	20	40	22	18	12	6.7	4.1	3.7
20	12	22	27	36	93	32	22	16	12	5.9	4.1	3.3
21	12	28	31	55	46	27	22	16	12	5.3	6.7	2.9
22	12	24	29	250	30	*26	22	16	11	10	7.3	*2.9
23	12	23	28	74	26	26	21	16	11	7.8	6.2	2.7
24	12	20	27	47	25	28	20	16	11	7.6	6.2	2.6
25	12	20	27	*36	24	26	20	15	10	5.9	5.3	2.7
26	12	20	26	33	23	36	21	14	9.6	5.6	4.7	2.6
27	13	19	25	30	22	72	20	14	9.3	*9.6	4.5	2.4
28	14	19	*25	28	65	53	20	14	9.0	7.0	4.7	2.0
29	14	18	38	26	-	37	26	23	8.3	6.2	5.0	2.2
30	14	18	37	25	-----	32	21	16	7.9	5.9	4.5	2.3
31	14	-----	31	24	-----	45	-----	14	-----	5.6	3.9	-----
Total	407	497	1,277	1,701	752	978	787	574	377.1	264.9	200.4	100.3
Mean	13.1	16.6	41.2	54.9	26.9	31.5	26.2	18.5	12.6	8.54	6.46	3.34
Cfsm	0.757	0.960	2.38	3.17	1.55	1.82	1.51	1.07	0.728	0.494	0.373	0.193
In.	0.87	1.07	2.74	3.66	1.61	2.10	1.68	1.23	0.81	0.57	0.43	0.22

Calendar year 1953: Max 270

Min 5.6

Mean 27.2

Cfsm 1.57

In. 21.33

Water year 1953-54: Max 481

Min 2.0

Mean 21.7

Cfsm 1.25

In. 16.99

Peak discharge (base, 700 cfs).--Jan. 16 (8 a.m.) 944 cfs (8.3 ft).

* Discharge measurement made on this day.

Middle Oconee River near Athens, Ga.

Location.--Lat 33°58', long 83°25', on left bank half a mile upstream from U. S. Highway 29, 2 miles west of Athens, Clarke County, and 5 miles upstream from Barber Creek.

Drainage area.--398 sq mi.

Records available.--October 1901 to October 1902 and April 1937 to September 1954 in reports of Geological Survey. January 1929 to March 1932, in House Document 68, 74th Congress, 1st session.

Gage.--Water-stage recorder. Datum of gage is 555.66 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Oct. 11, 1901, to Oct. 25, 1902, staff gage at site 1 mile upstream at different datum. Jan. 16, 1929, to Mar. 15, 1932, and Apr. 29, 1937, to Sept. 30, 1940, water-stage recorder at site 4 miles downstream at different datum.

Average discharge.--17 years (1937-54), 482 cfs.

Extremes.--Maximum discharge during year, 7,870 cfs Jan. 18 (gage height, 14.0 ft); minimum daily, 33 cfs Sept. 30.

1901-2, 1929-32, 1937-54: Maximum discharge observed, 19,600 cfs Feb. 28, 1902 (gage height, 25.5 ft, site and datum then in use); minimum daily, that of Sept. 30, 1954.

Remarks.--Records good. Diurnal fluctuation and slight regulation at times caused by powerplants above station.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.4	24	3.0	1,500
.7	63	4.0	1,900
1.0	127	8.0	3,630
1.5	320	12.6	6,770
2.0	690		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	226	176	200	475	432	718	884	310	200	92	176	63
2	243	176	204	432	419	709	1,090	289	294	120	94	*57
3	215	176	196	405	412	497	728	300	373	179	94	52
4	200	169	1,050	392	399	452	568	438	230	193	79	48
5	196	176	1,840	373	386	405	497	350	265	122	74	47
6	189	186	1,710	355	373	392	475	*289	215	96	72	43
7	186	189	977	332	361	375	489	269	204	102	70	40
8	176	186	728	320	*350	361	489	256	189	98	68	38
9	172	186	497	315	350	355	467	260	193	139	68	35
10	172	186	551	315	344	350	432	260	189	274	231	39
11	172	186	568	338	338	344	412	222	166	252	182	63
12	172	182	1,250	320	355	338	405	248	166	147	90	63
13	163	186	1,750	300	338	338	379	294	172	130	81	48
14	183	186	2,100	289	326	551	386	446	*269	89	77	43
15	166	186	1,750	315	326	756	392	419	338	114	77	38
16	182	186	1,060	2,370	326	460	367	344	384	112	72	40
17	186	182	1,267	4,370	379	392	399	300	412	112	87	50
18	179	182	504	6,770	392	367	379	269	460	120	81	63
19	169	182	438	2,030	338	467	344	284	432	112	74	63
20	172	193	405	857	355	857	320	289	256	*100	63	54
21	166	355	445	738	839	654	320	265	211	96	130	44
22	169	332	551	1,040	1,060	*489	315	252	189	89	127	74
23	166	300	543	1,620	568	452	315	226	176	100	158	*39
24	166	274	475	1,900	467	460	310	243	153	102	89	35
25	163	226	425	986	438	475	305	230	147	94	77	36
26	*166	230	399	718	405	475	289	226	150	87	70	39
27	166	226	373	627	379	535	372	222	136	133	83	39
28	186	200	355	560	367	747	219	222	130	144	80	39
29	189	204	425	512	-	839	305	222	127	107	170	35
30	182	196	663	482	-----	609	367	243	94	89	102	33
31	176	-----	576	460	-----	535	-----	226	-----	83	76	-----
Total	5,594	6,200	23,635	31,316	11,822	15,752	13,084	8,712	6,920	3,827	2,982	1,400
Mean	180	207	762	1,010	422	508	436	281	231	123	96.2	46.7
Cfsm	0.452	0.520	1.91	2.54	1.06	1.28	1.10	0.706	0.580	0.308	0.242	0.117
In.	0.52	0.58	2.20	2.93	1.10	1.48	1.23	0.81	0.65	0.36	0.28	0.13

Calendar year 1953: Max 5,160 Min 67 Mean 502 Cfsm 1.26 In. 17.13
 Water year 1953-54: Max 6,770 Min 33 Mean 360 Cfsm 0.905 In. 12.27

Peak discharge (base, 3,800 cfs)--Jan. 18 (6 a.m.) 7,870 cfs (14.0 ft).

* Discharge measurement made on this day.

Oconee River near Greensboro, Ga.

Location.--Lat 33°35', long 83°16', on right bank 300 ft downstream from bridge on State Highway 12, 1 mile downstream from Town Creek, 5 miles upstream from Apalachee River, 5 miles west of Greensboro, Green County, 12 miles downstream from Barnett Shoals Dam, and at mile 198.9.

Drainage area.--1,090 sq mi, approximately.

Records available.--July 1903 to September 1923 and May 1937 to September 1954 in reports of Geological Survey. October 1903 to December 1931 (including revised records for October 1918 to September 1923) in House Document 68, 74th Congress, 1st session.

Gage.--Water-stage recorder. Datum of gage is 409.82 ft above mean sea level, unadjusted. Prior to Nov. 8, 1938, various nonrecording gages at present site and datum.

Average discharge.--44 years (1903-13, 1914-31, 1937-54), 1,468 cfs.

Extremes.--Maximum discharge during year, 8,910 cfs Jan. 20 (gage height, 16.7 ft); minimum daily, 65 cfs Sept. 26.

1903-31, 1937-54: Maximum gage height observed, 35.4 ft Aug. 26, 1908 (discharge not determined); minimum daily discharge, 60 cfs Sept. 28, 1925.

Remarks.--Records good. Diurnal fluctuation and some regulation at low flow by Barnett Shoals powerplant.

Revisions (water years).--WSP 262: 1908-9. WSP 822: Drainage area. See also Records available.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

-0.1	58	2.0	525
0.0	70	4.0	1,250
.5	156	13.0	5,560
1.0	262	16.0	8,100

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	716	413	469	1,530	1,190	1,000	1,400	784	525	*269	251	170
2	801	413	*489	1,320	1,150	1,000	1,880	750	469	233	302	144
3	570	413	483	1,250	1,150	1,320	2,060	753	718	225	290	144
4	555	413	954	1,110	1,110	1,110	1,700	926	818	*73	231	136
5	469	413	2,340	1,080	1,080	1,000	1,320	1,000	555	386	214	131
6	483	427	2,990	1,040	1,040	926	*1,190	856	570	316	192	123
7	455	441	3,610	962	1,000	962	1,190	699	511	251	184	74
8	441	441	2,340	926	1,000	908	1,150	682	455	231	150	89
9	497	455	1,620	908	1,000	872	1,270	649	455	227	174	73
10	373	413	1,400	908	926	854	1,110	601	427	824	172	*90
11	413	413	1,360	926	926	854	1,080	601	413	666	287	86
12	427	427	2,390	926	962	836	962	601	441	497	386	73
13	413	427	4,380	926	962	836	1,000	716	386	326	233	131
14	413	427	4,780	818	926	1,080	1,000	1,110	441	316	192	118
15	400	427	5,000	818	890	1,360	1,040	1,080	525	818	178	104
16	400	427	4,430	1,850	890	1,360	962	962	682	469	164	114
17	441	441	2,620	4,130	1,000	1,080	926	784	750	314	*162	118
18	455	441	1,700	5,160	1,080	926	962	733	801	469	180	146
19	441	441	1,320	7,480	962	962	872	649	1,080	427	309	118
20	413	427	1,190	7,990	926	1,750	856	*716	818	280	240	123
21	413	497	1,190	3,620	1,230	1,840	801	649	585	287	309	142
22	386	767	1,360	2,390	1,840	1,530	767	585	427	244	264	*95
23	413	784	1,570	3,230	1,750	1,230	767	585	427	240	263	104
24	400	682	1,440	3,250	1,320	1,110	750	570	400	244	287	116
25	386	649	1,270	3,370	1,150	1,110	716	497	386	269	260	89
26	386	525	1,230	2,570	*1,080	1,150	716	540	360	260	190	65
27	386	555	1,150	*1,930	1,000	1,190	767	525	322	956	162	89
28	413	525	1,080	1,620	962	1,440	784	483	314	617	172	71
29	427	497	1,150	1,440	-	1,620	699	525	287	413	162	84
30	441	469	1,620	1,360	-----	1,750	716	540	280	312	176	66
31	413	-----	1,840	1,270	-----	1,620	-----	540	-----	290	238	-----
Total	13,840	14,490	60,725	68,068	30,502	36,586	31,393	21,651	15,626	12,049	6,994	3,226
Mean	446	483	1,959	2,196	1,089	1,180	1,046	698	521	389	226	108
Cfsm	0.409	0.443	1.80	2.01	0.999	1.08	0.960	0.640	0.478	0.357	0.207	0.099
In.	0.49	0.49	2.08	2.32	1.04	1.24	1.07	0.74	0.53	0.41	0.24	0.11

Calendar year 1953: Max 7,990 Min 166 Mean 1,257 Cfsm 1.15 In. 15.66
 Water year 1953-54: Max 7,990 Min 65 Mean 863 Cfsm 0.792 In. 10.74

Peak discharge (base, 6,000 cfs).--Jan. 20 (3 a.m.) 8,910 cfs (16.7 ft).

* Discharge measurement made on this day.

Apalachee River near Buckhead, Ga.

Location--Lat 33°36', long 83°21', at downstream side of right bank pier of bridge on State Highway 12, 2 miles downstream from Hard Labor Creek, 3 miles northeast of Buckhead, Morgan County, and 9 miles upstream from mouth.

Drainage area--436 sq mi.

Records available--March 1901 to December 1908, May 1937 to September 1954.

Gage--Water-stage recorder. Datum of gage is 424.07 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Mar. 22, 1905, staff gage and Mar. 22, 1905, to Dec. 31, 1908, chain gage, at same site at different datum. May 13, 1937, to Feb. 1, 1939, staff gage at same site and datum.

Average discharge--17 years (1937-54), 535 cfs.

Extremes--Maximum discharge during year, 3,630 cfs Dec. 14 (gage height, 12.4 ft); minimum daily, 25 cfs Sept. 10, 14, 28.

1901-8, 1937-54: Maximum gage height observed, 27.5 ft Aug. 25, 1908, datum then in use (discharge not determined); minimum daily discharge, that of Sept. 10, 14, 28, 1954.

Flood of Nov. 29, 1948, reached a stage of 26.8 ft (discharge, 23,800 cfs).

Remarks--Records good. Moderate diurnal fluctuation at low flow caused by milldams above station.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Nov. 22 to Dec. 3,
May 14 to June 3)

0.4	25	4.0	616
.7	53	7.0	1,350
1.2	113	10.0	2,390
2.0	232	11.9	3,330

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	410	168	182	704	450	420	460	232	179	74	108	63
2	335	168	*182	594	450	410	450	232	178	*74	94	52
3	282	168	182	530	430	391	440	248	232	79	91	44
4	248	168	488	510	450	382	410	362	282	122	82	43
5	232	173	1,110	470	410	362	382	308	240	164	75	35
6	216	191	1,410	450	400	353	*382	248	191	101	64	28
7	200	192	1,960	430	391	344	450	224	172	82	62	27
8	190	185	1,610	410	382	335	550	224	162	67	62	31
9	185	179	770	400	391	335	430	216	151	58	62	31
10	185	178	726	391	391	335	391	200	145	80	67	*25
11	184	174	660	410	382	335	372	197	145	90	70	29
12	182	176	1,020	400	400	335	372	188	256	92	65	37
13	172	174	3,090	372	391	335	353	319	256	82	58	27
14	170	174	3,330	353	372	510	362	864	274	91	53	25
15	173	174	2,640	362	362	510	410	726	182	660	50	31
16	185	176	1,580	616	362	450	372	450	173	412	49	53
17	186	176	936	1,840	430	372	353	353	158	170	*43	67
18	182	176	682	2,230	450	353	344	308	178	216	50	87
19	172	174	572	1,480	400	410	317	282	248	174	85	66
20	170	180	530	840	372	770	290	*274	317	123	104	58
21	170	248	550	682	572	770	282	248	224	109	156	51
22	167	282	660	840	726	550	274	232	158	96	166	44
23	167	265	816	1,140	572	460	265	224	138	99	147	37
24	168	248	748	1,010	480	440	256	216	130	180	101	33
25	167	224	616	748	460	440	256	208	133	128	87	29
26	156	208	594	638	*430	440	248	200	116	105	75	33
27	161	196	550	*594	400	470	232	198	106	361	66	28
28	173	186	500	572	391	638	232	194	97	596	61	25
29	182	182	572	530	-	616	232	194	90	216	56	27
30	178	182	770	500	-----	550	232	224	79	144	64	32
31	168	-----	840	480	-----	510	-----	190	-----	117	81	-----
Total	6,116	5,745	30,876	21,536	12,077	13,931	10,399	8,803	5,390	5,172	2,454	1,178
Mean	197	192	996	695	431	449	347	284	180	167	79.2	39.3
Cfsm	0.452	0.440	2.28	1.59	0.989	1.03	0.796	0.651	0.413	0.383	0.182	0.090
In.	0.52	0.49	2.63	1.83	1.03	1.19	0.89	0.75	0.46	0.44	0.21	0.10

Calendar year 1953: Max 4,120 Min 85 Mean 546 Cfsm 1.25 In. 17.00
Water year 1953-54: Max 3,330 Min 25 Mean 359 Cfsm 0.778 In. 10.54

Peak discharge (base, 5,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Oconee River at Milledgeville, Ga.

Location.--Lat 33°05', long 83°13', on left bank 900 ft upstream from bridge on State Highway 24 at Milledgeville, Baldwin County, half a mile upstream from Fishing Creek, 4 miles downstream from Sinclair Dam (formerly called Furman shoals Dam) of Georgia Power Co., and at mile 144.9.

Drainage area.--2,950 sq mi, approximately.

Records available.--August 1903 to December 1905, May 1906 to December 1908, October 1909 to September 1923, and April 1937 to September 1954 in reports of Geological Survey. May 1906 to December 1908 and October 1909 to December 1931 in House Document 68, 74th Congress, 1st session. Gage-height records collected since 1904 at site 900 ft downstream are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 230.84 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Dec. 31, 1905, staff gage at site 900 ft downstream at same datum. May 23, 1906, to Dec. 31, 1908, and Oct. 6, 1909, to Dec. 31, 1931, staff gage at Fraleys Ferry, 7 miles upstream at different datum. Apr. 17, 1937, to Sept. 30, 1939, wire-weight gage at site 900 ft downstream at present datum.

Average discharge.--39 years (1906-8, 1909-16, 1918-31, 1937-54), 3,433 cfs (adjusted for storage)

Extremes.--Maximum discharge during year, 9,420 cfs Dec. 14 (gage height, 15.4 ft); minimum daily, 92 cfs July 17.

1903-31, 1937-54: Maximum discharge, 95,000 cfs Aug. 16, 1928 (gage height, 38.7 ft, present site and datum, from floodmark), from rating curve extended above 50,000 cfs on basis of records at former site (Fraleys Ferry); minimum daily, 90 cfs for several days in August and September 1925.

Maximum stage known since 1903, that of Aug. 16, 1928.

Remarks.--Records good except those for periods Oct. 1 to Nov. 30, and July 1 to Sept. 30, which are fair. Flow regulated by Sinclair Dam beginning November 1952 (usable capacity, 214,600 acre-ft).

Revisions (water years).--WSP 922: Drainage area. WSP 1142: 1928(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second (Shifting-control method used May 13 to Sept. 30)

5.3	75	8.0	1,380
5.5	115	12.0	5,400
6.0	240	15.0	8,900
7.0	690		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,940	109	1,840	6,910	2,980	3,270	5,350	163	1,720	*1,330	238	334
2	3,450	1,580	1,900	6,180	2,510	2,480	5,510	121	1,330	492	631	360
3	3,430	1,050	2,050	2,880	1,380	2,370	3,920	3,320	1,090	120	802	460
4	336	1,690	2,660	4,610	1,400	2,410	304	3,360	151	260	1,300	230
5	2,210	2,420	2,310	4,760	1,770	2,700	3,920	1,280	232	168	1,410	230
6	3,300	1,650	2,480	3,770	444	335	*4,210	825	174	447	968	229
7	1,920	377	4,760	2,820	346	437	2,400	1,730	1,290	446	268	1,150
8	2,010	146	5,400	858	2,030	988	2,370	210	1,420	384	162	1,850
9	1,910	1,570	5,220	139	1,110	647	1,480	218	1,370	531	622	1,320
10	528	1,490	6,980	129	1,290	1,730	1,240	1,880	2,240	184	419	806
11	288	858	6,860	1,720	2,720	1,390	460	2,330	1,540	200	308	279
12	1,800	916	7,220	2,330	2,260	1,170	2,060	2,480	506	514	409	159
13	1,930	1,210	7,460	*2,350	244	460	1,350	4,080	163	435	*726	642
14	2,030	399	8,900	*2,030	1,980	1,820	2,520	2,690	2,150	276	164	*352
15	2,130	164	8,060	1,690	2,240	2,350	1,000	1,430	2,320	204	171	790
16	1,370	208	8,060	3,400	1,790	1,180	1,980	212	1,470	266	644	876
17	1,110	118	8,180	2,390	2,890	1,880	598	2,360	1,390	92	1,200	1,090
18	482	116	8,060	4,110	2,180	1,730	323	1,450	329	210	1,630	164
19	2,220	179	7,940	5,400	2,360	1,830	938	*1,230	232	1,000	927	226
20	2,020	130	7,940	5,540	2,290	1,780	1,110	*1,990	135	1,610	306	1,550
21	*3,280	120	7,220	6,720	226	2,540	654	540	630	1,520	256	1,250
22	2,920	122	7,100	6,790	3,250	4,110	1,710	172	1,070	301	246	736
23	1,880	120	7,100	6,860	2,610	4,060	292	96	1,230	270	308	*701
24	436	516	6,980	5,600	3,070	3,500	292	2,080	1,060	169	1,010	468
25	157	580	7,100	5,850	3,050	4,560	202	1,830	776	146	927	264
26	1,390	580	6,980	6,810	2,130	4,770	1,630	1,770	136	190	898	162
27	686	468	6,980	6,810	1,550	1,620	1,510	1,720	142	212	1,070	461
28	1,420	000	6,980	6,750	1,290	1,990	1,780	566	1,500	287	240	722
29	607	266	7,220	5,050	-	*4,830	806	260	2,460	320	214	1,010
30	651	474	7,220	3,200	-----	6,980	864	212	1,290	238	884	738
31	176	-----	7,100	239	-----	5,540	-----	2,040	-----	184	424	-----
Total	50,807	20,146	192,260	124,195	53,390	77,457	52,783	44,645	31,546	13,006	20,382	19,609
Mean	1,639	672	6,202	4,006	1,907	2,499	1,759	1,440	1,052	420	657	654
(†)	-816	+244	-472	+78	+362	+385	+271	-24	-198	+118	-346	-649

Adjusted for change in contents in Sinclair Reservoir

Mean	823	916	5,730	4,084	2,269	2,884	2,030	1,416	854	539	311	5
Cfsm	0.279	0.310	1.94	1.38	0.769	0.978	0.688	0.480	0.289	0.183	0.105	0.0017
In.	0.32	0.35	2.24	1.59	0.80	1.13	0.77	0.55	0.32	0.21	0.12	0.002

	Observed				Adjusted			
Calendar year 1953:	Max	20,900	Min	95	Mean	3,180	Mean	3,452
Water year 1953-54:	Max	8,900	Min	92	Mean	1,918	Mean	1,827
							Cfsm	1.17
							In.	16.53
								8.40

* Discharge measurement made on this day.

† Change in contents, equivalent in cubic feet per second, in Sinclair Reservoir, furnished by Georgia Power Co.

Oconee River at Dublin, Ga.

Location.--Lat 32°32', long 82°54', near left bank on downstream end of pier of relocated bridge on U. S. Highway 80 at Dublin, Laurens County, and at mile 77.9.

Drainage area.--4,400 sq mi, approximately.

Records available.--January 1894 to January 1898 (gage heights only), February 1898 to December 1913, and October 1931 to September 1954 in reports of Geological Survey. January 1929 to December 1931 in House Document 68, 74th Congress, 1st session. Gage-height records collected at same site since 1893 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 149.08 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Jan. 1, 1894, to Dec. 31, 1913, and Jan. 1, 1929, to Apr. 14, 1932, staff gage, and Apr. 15, 1932, to July 17, 1934, water-stage recorder, at site 420 ft downstream at datum 3.0 ft higher. July 18, 1934, to Apr. 14, 1936, water-stage recorder, Apr. 15, 1936, to Oct. 12, 1938, wire-weight gage, and Oct. 13, 1938, to Jan. 20, 1953, water-stage recorder, at site 80 ft upstream at present datum.

Average discharge.--37 years (1898-1912, 1931-54), 4,932 cfs.

Extremes.--Maximum discharge during year, 12,100 cfs Dec. 18 (gage height, 14.1 ft); minimum, 366 cfs Aug. 17, Sept. 15. 1898-1913, 1931-54: Maximum discharge, 96,700 cfs Apr. 12, 13, 1936 (gage height, 32.97 ft); minimum, 333 cfs Sept. 12, 1951 (gage height, 0.48 ft). Maximum stage known since 1893, that of Apr. 12, 13, 1936.

Remarks.--Records good. Flow regulated by Sinclair Reservoir (see preceding page for monthly change in contents).

Revisions.--WSP 822: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.5	360	9.0	6,230
1.5	705	14.0	11,900
3.0	1,500	14.1	12,100

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,050	1,150	890	11,100	4,010	2,890	7,900	1,440	865	1,820	504	728
2	5,690	818	1,620	11,100	2,750	3,610	7,700	1,440	1,880	1,410	454	590
3	5,060	705	2,020	11,100	3,690	3,830	7,310	1,070	1,820	1,290	422	520
4	4,810	1,470	2,730	10,400	3,290	3,610	6,950	1,460	1,620	840	608	504
5	3,210	1,440	4,330	8,210	2,440	3,450	4,010	3,770	1,320	555	865	520
6	*1,760	2,020	4,890	7,600	2,370	3,610	3,050	2,970	795	520	1,150	454
7	3,450	2,370	5,060	7,130	2,300	2,650	4,970	1,880	665	504	1,200	406
8	2,730	1,760	6,590	5,780	1,560	1,500	4,810	1,620	665	555	990	378
9	2,300	1,040	7,130	4,530	1,690	1,560	3,770	1,820	1,320	685	845	990
10	2,300	*915	7,600	2,650	2,440	1,620	3,210	1,040	1,560	625	504	1,350
11	1,880	1,560	8,000	2,090	2,020	1,690	2,580	990	1,690	685	625	1,180
12	1,180	1,560	8,210	2,160	2,440	2,230	2,160	2,160	2,090	555	625	865
13	940	1,260	8,770	3,290	3,130	1,950	2,020	2,650	1,560	438	555	555
14	1,760	1,150	10,100	3,850	2,440	2,020	2,510	3,610	1,020	625	555	438
15	2,160	818	10,900	3,610	1,760	2,890	2,580	4,330	980	645	685	576
16	2,370	818	11,300	3,210	2,580	*4,010	2,730	3,210	2,160	*555	504	1,100
17	2,300	750	11,800	4,330	2,890	3,770	2,300	2,090	*2,090	487	384	915
18	1,620	645	11,900	3,850	3,290	3,050	2,650	1,690	1,690	520	825	940
19	1,500	645	11,900	4,410	3,450	3,210	1,760	2,440	1,410	438	1,180	1,020
20	1,690	590	11,500	5,870	3,450	3,530	1,620	2,020	840	454	1,290	590
21	2,370	590	10,900	6,500	3,610	3,530	1,880	1,760	685	1,040	1,020	438
22	2,650	625	10,500	7,130	2,890	3,770	1,760	2,020	555	1,350	940	1,150
23	3,370	625	10,500	7,700	2,810	4,650	1,760	1,230	705	1,290	555	1,120
24	2,810	625	10,400	8,000	4,250	5,420	1,950	865	1,100	750	487	818
25	2,020	625	10,200	7,900	4,570	5,060	1,280	924	1,290	840	487	750
26	1,120	795	10,500	7,400	4,650	5,510	1,100	2,020	1,150	890	865	665
27	865	990	10,500	7,400	4,090	5,780	*1,150	2,230	990	625	940	487
28	1,440	1,040	10,200	*7,700	3,450	4,810	1,760	1,820	608	487	940	*390
29	1,260	940	10,200	7,800	-	4,570	2,020	1,690	520	487	990	454
30	1,620	990	10,400	7,500	-----	5,870	1,880	1,120	1,500	504	590	625
31	1,620	-----	10,800	6,230	-----	7,310	-----	818	-----	487	470	-----
Total	75,905	31,329	262,340	197,330	84,290	113,060	93,110	60,197	37,143	22,956	22,654	21,516
Mean	2,449	1,044	8,463	6,365	3,010	3,647	3,104	1,942	1,238	741	731	717
Cfsm	0.557	0.237	1.92	1.45	0.684	0.829	0.705	0.441	0.281	0.168	0.166	0.163
In.	0.64	0.26	2.21	1.67	0.71	0.96	0.79	0.51	0.31	0.19	0.19	0.18
Calendar year 1953: Max	33,500				Min 368	Mean 4,952	Cfsm 1.13	In. 15.25				
Water year 1953-54: Max	11,900				Min 378	Mean 2,800	Cfsm 0.636	In. 8.62				

* Discharge measurement made on this day.

Rocky Creek near Dudley, Ga.

Location.--Lat 32°29', long 83°09', on downstream side of highway bridge, 3.2 miles above Buckhorn Branch and 5 miles southeast of Dudley, Laurens County.

Drainage area.--62.9 sq mi.

Records available.--November 1951 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 262 ft (by barometer).

Extremes.--Maximum discharge during year, 668 cfs Dec. 14 (gage height, 5.7 ft); minimum, 0.56 cfs Sept. 24 (gage height, 0.84 ft).
1951-54: Maximum discharge, 2,390 cfs May 7, 1953 (gage height, 9.4 ft); minimum, that of Sept. 24, 1954.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used June 21)

0.85	0.66	1.8	37
.9	1.3	2.4	92
1.0	3.1	3.0	164
1.2	7.9	4.0	322
1.5	19	5.3	578

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	134	16	17	230	61	98	50	11	6.9	2.4	2.7	2.9
2	160	16	17	177	58	67	46	11	6.9	2.4	2.4	2.4
3	108	16	17	159	58	59	40	11	7.4	2.7	2.6	2.0
4	86	15	168	142	56	56	37	27	7.6	2.0	2.9	1.8
5	75	18	304	133	53	50	36	19	6.3	2.9	2.4	1.8
6	*65	25	200	122	51	47	52	13	6.3	3.3	1.7	1.7
7	54	23	246	111	50	46	42	11	6.3	3.8	1.8	*1.7
8	47	20	142	106	50	44	34	11	6.3	4.0	2.2	1.5
9	45	19	119	103	49	43	30	10	5.8	3.3	2.6	1.3
10	42	*18	185	105	46	43	29	10	5.8	3.3	6.1	1.3
11	39	17	141	148	47	40	30	10	5.6	3.3	7.4	1.3
12	36	17	139	118	64	40	29	10	6.3	2.9	4.2	1.3
13	32	16	287	98	49	39	26	46	20	2.9	2.7	1.2
14	31	15	578	93	45	110	25	83	3.1	3.3	2.2	1.0
15	34	15	377	93	44	93	26	41	6.1	2.6	1.8	1.2
16	35	16	200	96	43	*58	25	28	4.9	2.4	1.3	1.5
17	32	15	161	91	62	50	51	21	*4.9	2.0	*1.0	2.2
18	29	15	138	82	56	47	30	17	4.6	2.4	.88	2.4
19	29	15	126	81	46	70	24	17	4.2	*3.1	.88	2.0
20	26	15	121	81	47	118	20	23	2.9	2.6	1.5	1.7
21	23	17	154	82	92	69	20	15	2.4	1.7	2.6	.68
22	22	18	185	103	64	53	21	15	2.0	2.2	2.2	.75
23	22	24	287	125	50	48	19	11	1.8	2.4	1.7	.66
24	21	23	174	91	60	46	31	*10	2.0	3.8	1.5	.66
25	19	25	207	82	106	44	20	9.8	2.0	4.3	1.7	.76
26	18	23	294	80	69	43	*17	9.1	2.0	34	1.0	.88
27	18	20	185	79	56	52	15	6.8	2.0	12	.76	.88
28	18	18	152	*77	57	53	14	6.8	2.4	8.5	1.0	.88
29	18	17	222	71	-	62	14	6.5	2.6	5.3	14	.68
30	17	17	331	67	---	59	12	7.6	2.4	4.0	7.4	.88
31	16	---	386	68	---	57	---	7.1	---	3.3	4.0	---
Total	1,351	544	6,260	3,294	1,589	1,910	361	537.7	155.8	177.8	89.12	42.32
Mean	43.6	18.1	202	106	56.8	61.6	26.7	17.3	5.19	5.74	2.87	1.41
Cfsm	0.693	0.288	3.21	1.69	0.903	0.976	0.456	0.275	0.083	0.091	0.046	0.022
In.	0.60	0.32	3.70	1.95	0.94	1.15	0.52	0.32	0.09	0.10	0.05	0.03
Calendar year 1953: Max			1,710		Min 7.4	Mean 4.2		Cfsm 1.56	In. 21.24			
Water year 1953-54: Max			578		Min 0.66	Mean 4.2		Cfsm 0.753	In. 9.34			

* Discharge measurement made on this day.

Oconee River near Mount Vernon, Ga.

Location.--Lat 32°12', long 82°38', near left bank at downstream edge of pier of bridge on U. S. Highway 280, a quarter of a mile downstream from Seaboard Railroad bridge, half a mile upstream from Flat Creek, 2 miles upstream from Okeewalkee Creek, 2 miles west of Mount Vernon, Montgomery County, and at mile 28.7.

Drainage area.--5,110 sq mi, approximately.

Records available.--November 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 103.34 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--17 years, 5,122 cfs.

Extremes.--Maximum discharge during year, 13,800 cfs Dec. 21 (gage height, 14.0 ft); minimum daily, 550 cfs Aug. 17, Sept. 9.
1937-54: Maximum discharge, 66,300 cfs Dec. 5, 1948 (gage height, 22.6 ft); minimum daily, that of Aug. 17, Sept. 9, 1954.

Remarks.--Records good except those for periods of doubtful or no gage-height record, which are fair. Flow regulated by Sinclair Reservoir (see p. 30).

Revisions (water years).--WSP 1112: 1942, 1944.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 23-27, Aug. 6, 7, 20)

Oct. 1 to Aug. 20				Aug. 21 to Sept. 30	
1.5	545	11.0	7,800	1.2	520
4.0	1,840	14.0	13,800	2.9	1,420
8.0	4,660				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,670	2,140	1,240	13,500	7,950	4,920	6,110	2,200	1,100	1,140	d800	d1,090
2	7,800	1,720	1,240	13,300	8,910	4,420	6,670	1,840	995	1,720	d700	795
3	7,950	1,440	1,600	13,500	4,830	4,420	7,150	1,660	1,490	1,660	d660	795
4	7,670	1,200	2,330	13,500	4,660	4,830	7,410	1,440	1,900	d1,450	d630	d720
5	7,410	1,540	3,500	13,300	4,500	4,580	7,280	1,440	1,780	d1,100	d630	d720
6	6,440	1,840	4,740	12,800	3,800	4,420	6,550	3,000	1,600	d900	702	d720
7	4,580	2,280	5,340	11,500	3,400	4,340	4,580	3,140	1,240	d800	870	570
8	4,580	2,720	5,610	10,100	3,420	3,870	4,920	2,400	945	d800	1,120	*595
9	4,420	2,450	6,110	9,060	2,780	2,720	5,080	1,900	870	1,170	d1,380	a550
10	3,870	1,780	6,670	7,800	2,590	2,460	4,500	1,960	995	d1,400	d1,440	a520
11	3,640	1,440	7,150	5,900	3,210	2,520	3,940	1,440	1,440	d1,350	1,100	1,260
12	3,280	1,780	7,670	4,660	3,140	2,460	3,350	1,170	1,600	d1,200	d820	1,360
13	2,460	2,020	8,100	4,180	3,280	2,860	2,930	1,840	1,960	d1,000	d700	1,280
14	2,080	1,780	9,060	4,580	3,800	2,860	2,590	2,520	1,900	d740	d640	1,040
15	2,400	1,600	9,760	5,080	3,570	*2,860	2,930	3,210	1,660	d740	d600	845
16	2,930	*1,320	10,700	5,170	2,790	3,420	2,930	3,940	1,440	d1,100	d560	d650
17	3,210	1,170	11,800	4,920	3,280	4,180	3,210	3,570	1,660	d1,000	d550	925
18	3,210	1,140	12,800	5,080	3,570	4,340	2,790	2,660	2,140	845	d850	1,090
19	2,720	1,040	13,500	5,170	3,800	3,940	3,000	2,080	1,960	d900	d850	1,090
20	2,400	1,020	13,800	5,260	4,100	4,020	2,460	2,460	d1,700	d800	1,070	1,120
21	2,400	970	13,800	5,800	4,180	4,260	2,080	2,260	d1,250	d700	1,380	d1,260
22	2,930	945	13,500	6,440	4,420	4,260	2,140	2,020	d1,000	770	1,390	d1,200
23	3,210	945	13,300	6,910	4,100	4,340	2,200	2,080	d800	1,070	1,380	d980
24	3,720	970	13,000	7,410	3,720	4,830	2,020	1,600	d1,000	1,200	d1,150	1,230
25	3,570	970	12,500	7,800	4,920	5,260	2,330	1,220	1,220	1,220	d1,050	1,170
26	2,930	970	12,800	8,250	5,430	5,430	1,780	1,040	d1,350	1,170	820	1,040
27	2,020	1,020	12,800	8,400	5,520	5,430	1,440	1,660	d1,500	*1,120	d700	d870
28	1,540	1,220	12,800	8,400	5,260	5,800	1,550	2,080	1,220	d900	d850	d770
29	1,780	1,300	12,800	8,100	-----	5,800	1,780	2,020	d1,000	d750	1,040	d720
30	1,780	1,300	13,300	8,100	-----	5,260	2,080	1,900	d750	d750	d1,150	a570
31	1,960	-----	13,500	8,100	-----	5,520	-----	1,440	-----	d900	d1,200	-----
Total	118,560	44,202	286,820	252,070	117,040	130,630	109,580	65,190	41,465	32,365	28,542	27,745
Mean	3,825	1,467	9,252	8,131	4,180	4,214	3,653	2,103	1,382	1,044	921	925
Cfsm	0.749	0.287	1.81	1.59	0.818	0.825	0.715	0.412	0.270	0.204	0.180	0.181
In.	0.86	0.32	2.09	1.83	0.85	0.95	0.80	0.48	0.30	0.24	0.21	0.20
Calendar year 1953: Max	34,500				Min 590	Mean 5,727	Cfsm 1.12	In. 15.21				
Water year 1953-54: Max	13,800				Min 550	Mean 3,436	Cfsm 0.672	In. 9.13				

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of weather records, Weather Bureau observations, and records for stations on nearby streams.

d Doubtful gage-height record; discharge estimated as for footnote "a."

Ochoopee River near Reidsville, Ga.

Location.--Lat 32°04', long 82°11', on downstream side of left pier of Sheppard Bridge, half a mile downstream from Brazell's Creek, 1½ miles downstream from Rocky Creek, 3½ miles west of Reidsville, Tattnall County, 6 miles downstream from Fendleton Creek, and 14 miles upstream from mouth.

Drainage area.--1,110 sq mi, approximately.

Records available.--June 1903 to December 1907, May 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 73.8 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department). June 1903 to Dec. 31, 1907, staff gage at same site at different datum. May 25, 1937, to Feb. 15, 1941, staff gage at same site and datum.

Average discharge.--21 years (1903-7, 1937-54), 932 cfs.

Extremes.--Maximum discharge during year, 6,350 cfs Oct. 1 (gage height, 14.6 ft); minimum daily, 19 cfs Sept. 12, 13.
1903-7, 1937-54: Maximum discharge observed, 15,100 cfs Mar. 3, 1939 (gage height, 19.8 ft); minimum daily, that of Sept. 12, 13, 1954.
Maximum stage known, 28.4 ft in January 1925, from information furnished by Georgia State Highway Department.

Remarks.--Records good.

Revisions (water years).--WSP 822: Drainage area. WSP 892: 1939(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.66	19	6.0	1,060
1.0	42	9.0	2,080
1.5	88	12.0	3,920
2.5	231	14.3	6,020
4.0	530		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,020	360	275	3,840	1,120	1,240	726	162	71	39	32	30
2	5,220	340	257	3,840	1,030	1,210	874	174	68	38	34	27
3	3,920	321	248	3,840	944	1,180	648	164	65	36	37	25
4	3,050	302	266	3,680	888	1,120	636	140	64	38	40	24
5	4,240	293	432	3,470	832	1,060	612	120	63	38	35	23
6	5,220	293	752	3,120	752	972	588	111	60	36	32	22
7	4,320	321	1,030	2,860	726	868	541	105	58	35	32	22
8	3,190	350	1,300	2,620	700	832	588	104	56	36	32	22
9	2,400	360	1,600	2,350	674	752	648	99	54	*34	32	20
10	1,920	390	1,810	2,160	648	674	576	95	54	34	30	*20
11	1,630	400	1,810	2,080	612	624	475	91	58	34	29	20
12	1,350	380	1,670	2,000	624	576	410	88	80	32	27	19
13	1,150	340	1,560	1,920	624	552	370	105	82	29	26	19
14	1,030	321	1,740	1,850	624	541	340	193	80	32	26	20
15	944	293	1,960	1,810	600	552	330	350	71	38	25	23
16	888	284	2,080	1,770	576	588	312	302	64	40	24	27
17	832	266	2,250	1,700	541	564	302	240	58	43	24	24
18	804	*257	2,450	1,600	550	*519	293	195	53	43	27	24
19	804	248	2,620	1,530	519	486	275	168	48	41	30	24
20	752	240	2,560	1,460	508	588	240	148	46	41	*29	24
21	726	248	*2,400	1,400	674	726	222	137	44	42	27	22
22	700	257	2,200	1,330	1,060	752	214	127	*43	42	26	21
23	674	266	2,300	1,370	1,060	778	257	112	46	38	27	20
24	624	257	2,350	1,370	1,000	752	240	103	74	40	31	20
25	576	275	2,450	1,370	1,120	726	206	94	61	74	29	20
26	519	284	2,860	1,370	1,270	674	185	88	54	67	26	21
27	475	302	3,050	1,370	1,270	656	171	83	52	52	25	30
28	453	312	3,050	1,370	1,240	700	154	82	48	44	27	26
29	432	312	3,260	*1,300	-	804	*141	80	43	38	49	26
30	400	293	3,470	1,240	-----	804	132	78	41	35	43	25
31	380	-----	3,760	1,210	-----	804	-----	74	-----	33	34	-----
Total	55,623	9,165	59,820	64,200	22,766	23,674	11,506	4,212	1,766	1,242	947	690
Mean	1,794	306	1,930	2,071	813	764	384	136	58.9	40.1	30.5	23.0
Cfs	1.62	0.276	1.74	1.87	0.732	0.688	0.346	0.123	0.053	0.056	0.027	0.021
In.	1.86	0.31	2.00	2.15	0.76	0.79	0.39	0.14	0.06	0.04	0.03	0.02
Calendar year 1953: Max	7,020			Min 45		Mean 1,331	Cfs 1.20	In. 16.29				
Water year 1953-54: Max	6,020			Min 19		Mean 700	Cfs 0.631	In. 8.55				

* Discharge measurement made on this day.

Altamaha River at Doctortown, Ga.

Location.--Lat 31°39', long 81°50', on right bank 60 ft downstream from Atlantic Coast Line Railroad bridge at Doctortown, Wayne County, 4½ miles northeast of Jesup, and at mile 59.4.

Drainage area.--13,600 sq mi, approximately.

Records available.--October 1931 to September 1954. Gage-height records collected at same site since 1925 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 28.48 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Dec. 5, 1934, staff gage at same site and datum.

Average discharge.--23 years, 12,930 cfs.

Extremes.--Maximum discharge during year, 39,600 cfs Dec. 30 to Jan. 4 (gage height, 7.6 ft); minimum observed, 1,870 cfs Sept. 12.
1931-54: Maximum discharge, 178,000 cfs Apr. 18, 1936 (gage height, 12.03 ft); minimum, 1,760 cfs Oct. 8, 9, 14, 15, 1931.
Maximum stage known, 14.6 ft Jan. 23, 1925 (discharge, 300,000 cfs, from rating curve extended above 180,000 cfs).

Remarks.--Records good below 10,000 cfs and fair above.

Revisions.--WSP 822: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 31					Jan. 1 to Sept. 30				
-0.1	4,210	5.0	13,100		-3.0	1,870			
0.0	4,320	6.0	20,500		0.0	4,360			
3.0	8,070	7.6	39,600		.3	4,650			
4.0	9,800								

Note.--Same as preceding table above 0.3 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30,200	5,800	4,540	39,600	17,200	13,100	12,100	5,090	4,360	2,990	2,830	2,510
2	32,700	5,680	4,650	39,600	17,200	13,700	12,100	5,200	4,180	2,910	2,670	2,430
3	34,000	5,680	4,540	39,600	17,200	13,700	12,100	5,200	4,000	2,750	2,510	2,350
4	34,000	5,440	4,540	39,600	17,200	14,300	12,600	5,090	3,730	3,070	2,430	2,110
5	31,400	5,200	4,760	38,100	17,200	13,700	12,600	4,870	3,730	3,310	2,350	2,030
6	30,200	4,980	5,560	36,700	17,200	13,100	13,100	*4,870	4,000	2,990	2,270	1,950
7	29,000	4,760	6,910	36,700	15,700	13,100	13,100	4,760	4,000	3,150	2,270	1,950
8	29,000	4,980	8,230	35,300	15,000	12,600	13,700	4,980	3,910	2,990	2,270	1,950
9	29,000	5,320	9,260	34,000	13,700	12,100	13,700	5,440	3,730	2,750	2,350	*1,950
10	26,700	5,800	10,200	32,700	12,600	11,700	13,700	5,800	3,550	2,590	2,510	1,950
11	24,500	6,040	11,000	31,400	11,700	11,000	13,700	5,560	3,390	2,430	2,670	1,950
12	22,400	5,920	11,700	30,200	11,000	10,200	13,100	5,440	3,310	2,430	2,590	1,870
13	20,500	5,680	13,100	29,000	10,200	9,800	12,600	5,320	3,470	2,430	2,510	1,950
14	19,600	5,560	14,300	26,700	10,000	9,260	11,700	5,090	3,640	2,430	2,270	2,190
15	18,000	5,560	15,700	24,500	9,800	8,900	10,700	4,980	3,730	2,430	2,270	2,430
16	15,700	5,440	17,200	22,400	9,800	8,730	9,620	5,440	3,820	2,430	2,270	2,430
17	13,100	5,200	18,000	20,500	9,800	8,560	8,900	6,160	3,730	2,350	2,270	2,190
18	11,000	4,980	19,600	19,600	9,620	8,560	8,230	6,780	3,470	2,430	*2,190	2,110
19	9,800	4,760	21,400	18,000	9,440	8,730	7,760	6,910	3,470	2,430	2,190	2,110
20	9,260	4,540	22,400	17,200	9,260	9,260	7,320	6,650	3,820	2,350	2,270	2,190
21	8,900	4,430	25,600	16,400	9,440	9,620	7,180	6,400	3,910	2,350	2,190	2,190
22	8,560	4,320	27,800	16,400	9,620	9,800	7,040	6,160	3,820	2,350	2,110	2,270
23	8,070	4,210	30,200	15,700	9,800	10,000	6,780	5,800	3,640	2,350	2,350	2,270
24	7,910	4,210	31,400	15,000	10,200	10,200	6,650	5,560	3,390	2,350	2,510	2,190
25	7,910	4,210	34,000	15,000	10,700	10,400	6,520	5,200	3,230	2,670	2,590	2,030
26	7,910	4,210	35,300	15,700	11,000	10,700	6,280	4,870	3,070	2,990	2,510	2,110
27	7,910	4,210	36,700	15,700	11,400	10,700	6,160	4,450	2,990	3,070	2,430	2,270
28	7,760	4,210	38,100	16,400	12,100	11,000	6,040	4,180	3,070	*2,830	2,350	2,190
29	7,180	4,320	38,100	16,400	-	11,400	5,680	4,090	3,150	2,830	2,510	2,190
30	6,520	4,430	39,600	17,200	-----	11,700	5,320	4,360	3,150	2,990	2,430	2,110
31	6,040	-----	39,600	17,200	-----	-----	12,100	4,450	-----	2,990	2,430	-----
Total	554,730	150,080	603,990	788,500	545,080	341,540	296,080	165,150	108,460	83,410	74,370	64,420
Mean	17,895	5,003	19,484	25,435	12,324	11,017	9,869	5,327	3,615	2,691	2,599	2,147
Cfsm	1.32	0.368	1.43	1.87	0.906	0.810	0.726	0.392	0.266	0.198	0.176	0.158
In.	1.52	0.41	1.65	2.16	0.94	0.93	0.81	0.45	0.30	0.23	0.20	0.18

Calendar year 1953: Max 66,700 Min 2,850 Mean 15,657 Cfsm 1.15 In. 15.61
Water year 1953-54: Max 39,600 Min 1,870 Mean 9,797 Cfsm 0.720 In. 9.78

* Discharge measurement made on this day.

Note.--Discharge computed from twice-daily staff-gage readings May 7-25, and once-daily readings Sept. 4-13, 18, 19, 24-28.

SATILLA RIVER BASIN

Satilla River near Waycross, Ga.

Location.--Lat 31°14', long 82°19', on downstream side of bridge pier near center of span on State Route 38, 3 miles northeast of Waycross, Ware County, and 16 miles upstream from Alabama River.

Drainage area.--1,300 sq mi, approximately.

Records available.--March 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 66.43 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Nov. 22, 1952, staff gage at site 300 ft downstream at same datum.

Average discharge.--17 years, 914 cfs.

Extremes.--Maximum discharge during year, 13,800 cfs Oct. 1 (gage height, 18.1 ft); minimum, 6.8 cfs Sept. 10-12, 14.

1937-54: Maximum discharge, 39,000 cfs Apr. 4, 1948 (gage height, 22.4 ft, from floodmark); minimum, that of Sept. 10-12, 14, 1954.

Flood in September 1928 reached a stage of 22.2 ft, from information by Atlantic Coast Line Railroad (discharge, 37,000 cfs).

Remarks.--Records good.

Revisions (water years).--WSP 952: 1939.

Correction.--The maximum discharge (12,700 cfs) for the 1953 water year, published in WSP 1274, occurred on a rising stage at 12 p.m. Sept. 30, and was not the peak for that flood; maximum peak discharge during 1953 water year, 4,300 cfs Apr. 18 (gage height, 14.3 ft).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

2.5	6.2	7.0	610
2.7	12	10.0	1,540
3.0	27	12.0	2,420
3.5	64	14.0	4,060
4.0	111	16.0	7,300
5.0	238	18.0	13,400
6.0	402		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13,400	195	131	3,540	*610	460	163	71	37	14	19	9.4
2	12,700	182	129	3,540	565	500	145	72	34	*14	20	8.8
3	11,000	169	125	3,450	520	520	137	68	32	14	20	8.5
4	9,100	157	151	3,360	480	541	128	60	31	15	18	8.2
5	7,770	157	238	3,270	440	520	119	*58	29	26	16	7.9
6	6,860	188	316	3,180	412	470	111	52	26	29	14	7.6
7	6,080	230	520	3,020	384	421	106	49	*25	25	13	7.6
8	5,250	260	720	2,870	384	384	104	47	24	21	13	7.4
9	4,550	260	900	2,600	393	349	108	44	22	20	*12	*7.1
10	3,740	253	1,050	2,320	393	324	123	41	22	19	11	6.8
11	3,020	253	1,170	1,950	384	284	195	39	21	18	11	6.8
12	2,270	*260	1,300	1,680	375	253	195	36	20	17	9.8	7.1
13	1,620	253	1,500	1,440	358	230	163	40	19	15	9.8	7.1
14	1,200	246	1,780	1,400	349	216	137	71	19	14	9.4	6.8
15	960	230	1,950	1,470	332	195	115	108	*18	13	9.4	16
16	810	209	2,000	1,540	316	176	101	119	18	12	*9.8	84
17	662	195	1,950	1,580	308	163	91	157	17	12	9.8	24
18	586	182	1,900	1,580	292	151	80	151	17	12	10	18
19	520	169	1,860	1,470	276	151	72	116	18	12	12	17
20	500	157	1,780	1,350	260	188	68	93	17	11	12	15
21	480	151	1,740	1,170	260	223	80	77	17	11	12	13
22	460	141	1,680	1,080	246	292	157	66	16	23	12	12
23	440	137	1,700	1,020	230	324	188	74	16	28	11	12
24	412	131	1,900	960	223	324	169	80	17	39	12	11
25	384	143	2,080	870	238	324	176	69	18	39	11	12
26	349	145	2,370	810	253	316	145	61	18	39	12	12
27	300	143	2,660	780	300	292	115	56	16	31	11	10
28	276	141	2,870	750	375	260	96	53	*15	26	10	10
29	253	140	3,100	750	-	230	82	49	15	*24	12	10
30	223	137	3,270	720	-----	202	73	46	15	24	12	9.8
31	209	-----	3,450	662	-----	182	-----	41	-----	22	10	-----
Total	96,384	5,614	48,270	56,142	9,954	9,465	3,742	2,166	629	639	384.0	392.9
Mean	3,109	187	1,557	1,811	356	305	125	69.9	21.0	20.6	12.4	13.1
Cfsm	2.39	0.144	1.20	1.39	0.274	0.235	0.096	0.054	0.016	0.016	0.0095	0.010
In.	2.76	0.16	1.38	1.60	0.29	0.27	0.11	0.06	0.02	0.02	0.01	0.01

Calendar year 1953: Max 13,400 Min 41 Mean 1,100 Cfsm 0.846 In. 11.51
 Water year 1953-54: Max 13,400 Min 6.8 Mean 840 Cfsm 0.492 In. 6.69

* Discharge measurement made on this day.

Hurricane Creek near Alma, Ga.

Location.--Lat 31°34', long 82°28' near center of span on downstream side of highway bridge on U. S. Highway 1, 1½ miles north of Alma, Bacon County, and 11 miles upstream from Ten Mile Creek.

Drainage area.--150 sq mi.

Records available.--October 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 136.44 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Extremes.--1951-52: Maximum discharge during water year, 798 cfs Dec. 25 (gage height, 5.63 ft); no flow July 5-26, Sept. 16-18.

1952-53: Maximum discharge during water year, 4,450 cfs Sept. 29 (gage height, 9.4 ft); no flow May 28 to June 7, July 2-4.

1953-54: Maximum discharge during water year, 1,490 cfs at 12:01 a.m. Oct. 1, stage falling; maximum peak discharge, 940 cfs Oct. 3 (gage height, 5.88 ft); no flow May 10-12, June 1 to Sept. 16.

Remarks.--Records fair except those for periods of no gage-height record, which are poor.

Rating tables, Oct. 1, 1951, to Sept. 30, 1954 (gage height, in feet, and discharge, in cubic feet per second)

Nov. 1, 1951, to Apr. 15, 1953

2.15	0	2.9	19
2.18	.1	3.2	43
2.2	.2	3.5	78
2.3	.6	4.0	156
2.4	1.3	4.5	282
2.5	2.6	5.0	464
2.6	4.9	5.6	770
2.7	8.3		

Apr. 16, 1953, to Sept. 30, 1954

2.8	13	5.0	480
3.0	29	6.0	1,000
3.4	75	7.0	1,730
4.0	178	9.0	3,870
4.5	305		

Note.--Same as preceding table below 2.8 ft.

Discharge, in cubic feet per second, water year October 1951 to September 1952

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	10	55	202	210	459	151	63	148	0.7	0.4	10
2	35	38	53	179	216	441	114	38	418	.4	.5	6.7
3	28	112	53	154	206	331	98	25	511	.2	.5	8.3
4	20	142	68	137	173	238	92	17	261	.1	.5	6.1
5	15	184	107	130	139	204	91	10	160	0	.5	4.1
6	11	210	151	122	125	192	78	6.1	125	0	.6	1.7
7	9	385	204	114	125	194	63	116	0	1.3	1.2	
8	7.0	400	262	107	122	188	49	5.5	106	0	3.2	.8
9	5.8	*275	320	96	116	166	41	8.3	360	0	5.8	.6
10	4.0	186	327	89	107	137	34	45	436	0	4.4	.4
11	2.6	142	278	82	100	146	28	38	*275	0	2.8	**2
12	2.1	119	212	74	92	184	24	42	132	0	*1.5	.2
13	1.7	98	175	70	78	184	28	58	53	0	1.2	.1
14	1.3	79	146	65	70	184	38	59	35	0	2.0	.1
15	.9	70	156	61	68	188	38	63	56	0	6.1	.1
16	.7	78	175	58	88	183	38	51	22	0	20	0
17	.6	130	186	55	136	186	40	45	18	0	25	0
18	.5	153	210	55	166	171	40	22	18	0	13	0
19	.5	142	*262	54	177	139	32	*12	19	0	7.1	.1
20	.5	136	335	53	188	114	24	6.4	57	0	3.8	1.0
21	.6	148	378	55	198	104	18	3.6	106	*0	2.1	7.5
22	3.5	142	497	55	192	100	13	2.3	92	0	1.3	35
23	13	114	655	*73	183	96	9.5	1.9	43	0	1.0	53
24	17	89	742	95	190	170	9.1	1.9	22	0	1.0	29
25	21	75	742	98	200	154	20	4.1	12	*0	1.0	32
26	22	68	555	110	216	198	55	9.5	5.8	0	15	22
27	23	63	400	134	275	248	72	22	3.2	.3	38	13
28	23	64	298	149	*346	294	66	38	2.1	.5	15	7.5
29	22	61	243	187	404	291	116	38	1.4	.7	22	4.6
30	17	60	227	186	248	108	61	*1.0	.6	.6	20	3.0
31	13	-----	218	200	-----	*198	-----	122	-----	.5	18	-----
Total	361.3	3,953	8,690	3,279	4,908	6,270	1,647.6	922.2	3,614.5	4.0	234.6	248.3
Mean	11.7	132	280	106	169	202	54.9	29.7	120	0.129	7.57	8.28
Cfsm	0.078	0.880	1.87	0.707	1.13	1.35	0.386	0.198	0.800	0.0009	0.050	0.055
In.	0.09	0.98	2.16	0.82	1.22	1.56	0.41	0.23	0.89	0.001	0.06	0.06

Calendar year 1951: Max - Min - Mean - Cfsm - In. -
 Water year 1951-52: Max 742 Min 0 Mean 93.3 Cfsm 0.622 In. 8.46

Peak discharge (base, 450 cfs).--Dec. 25 (2 a.m.) 798 cfs (5.63 ft); Mar. 1 (11 p.m.) 473 cfs (5.02 ft); June 2 (11 p.m.) 620 cfs (5.32 ft); June 10 (1 a.m.) 492 cfs (5.06 ft).

* Discharge measurement or observation of no flow made on this day.

** Field estimate made on this day.
 Note.--No gage-height record Oct. 1-31; discharge estimated on basis of weather records and records for stations on nearby streams.

SATILLA RIVER BASIN

Hurricane Creek near Alma, Ga.--Continued

Discharge, in cubic feet per second, water year October 1952 to September 1953

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.1	0.8	6.7	57	45	298	65	14	0	0.1	1.0	22
2	1.4	.8	6.4	53	51	257	63	12	0	0	.8	19
3	1.1	*.8	6.7	50	120	231	63	8.7	0	0	.7	24
4	.8	.8	6.7	44	125	206	55	9.5	0	0	.9	180
5	.6	.8	6.7	40	118	173	48	10	0	18	1.0	254
6	.4	.8	7.5	31	108	158	55	12	0	59	14	262
7	.3	.7	7.9	25	132	153	198	24	0	16	72	162
8	10	.7	8.3	22	134	153	281	50	4.7	7.9	43	176
9	57	.6	8.3	22	231	154	344	35	14	10	31	232
10	41	.7	9.1	22	294	*144	414	20	5.5	27	24	234
11	31	1.5	14	28	396	149	459	12	9.1	14	15	219
12	28	3.8	12	32	414	188	455	7.5	4.4	4.9	10	154
13	20	6.7	10	31	312	192	464	6.7	3.0	2.1	3.8	68
14	13	6.4	10	29	212	206	427	4.9	3.2	*1.5	1.9	35
15	12	5.8	10	26	175	216	478	3.4	2.8	1.2	1.2	20
16	12	4.9	*8.7	24	*177	200	*534	2.3	1.7	1.6	1.5	14
17	9.5	5.2	8.3	22	184	171	*453	1.6	1.4	1.6	4.4	10
18	7.5	5.5	7.9	22	204	142	317	1.1	1.0	1.4	4.4	6.7
19	5.8	5.2	7.5	38	218	162	236	.8	.8	1.0	17	4.6
20	4.4	12	11	50	210	196	147	.7	.6	1.0	264	6.4
21	3.0	28	41	95	184	214	104	.7	.4	1.1	*126	6.4
22	2.4	28	55	102	160	227	85	.6	.2	2.1	67	4.4
23	2.0	28	52	102	206	249	71	.6	.2	3.4	54	2.8
24	1.7	25	45	141	275	305	61	.5	.7	3.2	56	2.6
25	1.6	19	36	141	396	352	50	.3	*.5	1.9	41	15
26	1.5	15	30	129	511	344	44	.2	.4	1.3	26	799
27	1.5	12	26	122	437	309	36	.1	.4	1.5	22	*2,370
28	1.3	10	25	*118	373	235	28	0	.3	9.3	36	*3,480
29	1.0	8.5	26	92	-	169	23	*0	.2	13	29	*3,970
30	.9	7.1	28	68	-	114	18	0	.1	5.2	16	2,170
31	.8	-	41	52	-	84	-	0	-	1.5	19	-
Total	275.6	242.9	578.7	1,830	6,522	6,350	6,074	240.2	55.6	209.8	1,003.6	14,822.9
Mean	8.89	8.10	18.7	59.0	233	205	202	7.75	1.85	6.77	32.4	494
Cfsm	0.059	0.054	0.125	0.393	1.55	1.37	1.35	0.052	0.012	0.045	0.216	3.29
In.	0.07	0.06	0.14	0.45	1.61	1.58	1.51	0.06	0.01	0.05	0.25	3.67

Calendar year 1952: Max 511 Min 0 Mean 60.7 Cfsm 0.405 In. 5.52
 Water year 1952-53: Max 3,970 Min 0 Mean 105 Cfsm 0.700 In. 9.46

Peak discharge (base, 450 cfs).--Feb. 27 (1 a.m.) 531 cfs (5.14 ft); Apr. 16 (11 a.m.) 542 cfs (5.15 ft); Sept. 29 (2 a.m.) 4,450 cfs (9.4 ft).

* Discharge measurement or observation of no flow made on this day.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*1,100	25	34	420	78	188	30	1.1				0
2	798	24	32	520	75	154	27	.8		(*)		0
3	910	22	31	500	71	123	23	.7				0
4	852	21	50	550	74	109	18	.6				0
5	635	22	116	490	79	107	14	.5				0
6	480	38	145	400	72	92	13	.3				0
7	362	46	200	300	65	72	14	.2		(*)		0
8	262	46	224	225	70	61	47	.1				0
9	193	46	226	180	71	55	37	.1				0
10	135	47	217	150	67	49	24	0				0
11	101	52	196	200	65	44	19	0				0
12	82	49	170	230	67	41	16	0		(*)		0
13	70	*43	178	250	82	39	12	.1				0
14	62	37	222	210	89	36	8.3	3.0				0
15	56	33	244	170	104	34	6.4	4.1				0
16	54	31	260	190	100	42	6.7	20				0
17	50	28	*271	200	86	34	6.7	50				.8
18	48	26	282	165	71	27	4.9	48				37
19	47	25	268	140	62	31	3.2	24				13
20	49	25	219	120	60	60	2.1	16				5.0
21	51	31	168	100	62	76	1.9	7.9				3.0
22	60	31	154	94	54	79	2.0	4.1				2.0
23	65	31	212	100	48	75	2.0	2.4		(*)		1.5
24	67	30	240	105	51	71	2.3	1.6				1.2
25	57	33	250	100	79	57	8.3	1.0				1.0
26	47	35	250	95	107	42	11	.8				3.6
27	39	35	320	100	128	32	6.1	.6				3.6
28	36	33	350	105	147	30	4.1	.5				3.0
29	32	33	350	100	-	32	*2.3	.3				2.0
30	30	34	350	94	-	32	1.5	.2				8.0
31	27	-	380	85	-	33	-	.1				-
Total	6,857	1,012	6,589	6,688	2,184	1,936	373.8	189.0	0	0	0	84.7
Mean	221	33.7	213	216	78.0	62.5	12.5	6.10	0	0	0	2.82
Cfsm	1.47	0.225	1.42	1.44	0.520	0.417	0.083	0.041	0	0	0	0.019
In.	1.70	0.25	1.64	1.66	0.54	0.48	0.09	0.05	0	0	0	0.02

Calendar year 1953: Max 3,870 Min 0 Mean 140 Cfsm 0.933 In. 12.71
 Water year 1953-54: Max 1,100 Min 0 Mean 71.0 Cfsm 0.473 In. 6.43

Peak discharge (base, 450 cfs).--Oct. 3 (10 p.m.) 940 cfs (5.88 ft); about Jan. 4 (time unknown) 610 cfs (5.28 ft, from floodmark).

* Discharge measurement or observation of no flow made on this day.

Note.--No gage-height record Dec. 24 to Feb. 1, Sept. 19-30; discharge estimated on basis of floodmarks, weather records, and records for stations on nearby streams.

Little Satilla River near Offerman, Ga.

Location--Lat 31°27', long 82°03', at right bank pier of steel truss span of Atlantic Coast Line Railroad bridge, 1,500 ft downstream from bridge on State Highway 38, 4 miles northeast of Offerman, Pierce County, and 16 miles upstream from mouth.

Drainage area--646 sq mi.

Records available--January 1951 to September 1954.

Gage--Water-stage recorder. Datum of gage is 59.00 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Nov. 8, 1952, at site 1,500 ft upstream at same datum.

Extremes--Maximum discharge during year, 12,200 cfs at 12:01 a.m. Oct. 1, stage falling; maximum peak discharge, 1,610 cfs Jan. 2, 3 (gage height, 8.2 ft); minimum discharge, 0.16 cfs Sept. 10, 11, 29, 30.

1951-54: Maximum discharge, 17,200 cfs Sept. 29, 1953 (gage height, 13.5 ft); minimum, that of Sept. 10, 11, 29, 30, 1954.

Remarks--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

-0.22	0.16	1.0	21	8.0	1,450
-.2	.20	1.5	44	8.5	1,910
-1	.54	2.0	76	9.0	2,640
0.0	1.2	4.0	250	10.0	5,100
.2	3.1	5.0	380	11.7	9,850
.4	5.8	6.0	575		
.6	9.6	7.0	870		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*9,850	77	75	1,450	260	305	90	5.5	1.0	0.28	0.26	0.31
2	*6,630	74	74	1,530	240	350	81	4.2	.94	*.26	.26	.28
3	*4,560	68	73	1,530	220	350	77	3.1	.86	.26	.26	.26
4	3,520	66	114	1,450	206	320	66	2.4	.94	.26	.23	.26
5	2,840	72	240	1,450	188	305	56	2.2	.74	.54	.20	.23
6	2,300	90	320	1,380	178	280	48	*1.7	.74	.74	.20	.23
7	2,030	114	430	1,310	170	250	40	1.5	.68	.49	.20	.20
8	1,800	122	510	1,180	192	225	32	1.3	*.62	.41	.20	.20
9	1,610	118	510	1,010	230	196	25	1.2	.62	.37	.20	.20
10	1,380	118	470	870	*250	178	21	1.2	.58	.45	.20	.16
11	1,120	122	410	830	245	160	20	1.2	.54	.41	.20	.18
12	870	122	380	760	280	142	21	1.2	.58	.37	.18	.20
13	650	114	430	700	260	134	19	2.4	.58	.34	.20	.20
14	470	104	625	700	250	126	16	7.7	.54	.34	.28	.18
15	335	95	760	700	220	114	13	59	*.49	.31	.26	.23
16	270	88	830	760	196	102	12	106	.49	.31	.20	.74
17	230	82	760	790	188	91	11	46	.49	.31	.20	.54
18	201	76	675	760	174	83	8.2	18	.49	.31	.31	.54
19	183	*72	600	675	160	85	6.2	13	.49	.28	.37	.37
20	165	69	550	625	152	134	5.2	13	.54	.28	.58	.31
21	152	68	510	550	152	183	5.2	8.2	.49	.28	.74	.28
22	138	72	510	510	165	196	9.2	4.9	.37	.28	.54	.26
23	126	77	730	490	170	201	19	3.1	.41	.37	.54	.26
24	118	77	870	450	183	188	32	2.2	.62	.45	.54	.23
25	106	85	1,010	410	260	170	33	*1.7	.45	.37	.41	.23
26	96	86	1,180	380	290	142	31	1.5	.37	.34	.37	.20
27	91	84	1,380	350	280	122	28	1.6	.34	.34	.31	.20
28	93	81	1,450	320	270	114	20	1.5	.31	.31	.28	.18
29	92	77	1,310	305	-	114	13	1.3	.31	.28	1.0	.16
30	88	76	1,240	280	-----	110	7.8	1.2	.31	.26	.58	.16
31	83	-----	1,310	270	-----	106	-----	1.1	-----	.26	.37	-----
Total	42,197	2,646	20,336	24,775	6,009	5,576	865.8	320.1	16.93	10.86	10.67	7.98
Mean	1,361	86.2	656	799	215	180	28.9	10.3	0.564	0.350	0.344	0.266
Cfs/m	2.11	0.137	1.02	1.24	0.333	0.279	0.045	0.016	0.0087	0.00054	0.00053	0.00041
In.	2.43	0.15	1.18	1.43	0.35	0.32	0.05	0.02	0.001	0.0006	0.0006	0.0005

Calendar year 1953: Max 16,800 Min 0.4 Mean 581 Cfs/m 0.899 In. 12.20
 Water year 1953-54: Max 9,850 Min 0.16 Mean 282 Cfs/m 0.437 In. 5.93

* Discharge measurement made on this day.

SATILLA RIVER BASIN

Satilla River at Atkinson, Ga.

Location.--Lat 31°13', long 81°52', on downstream side of right pier of bridge on U. S. Highway 84, 400 ft downstream from Atlantic Coast Line Railroad bridge and 1 mile west of Atkinson, Brantley County.

Drainage area.--2,880 sq mi, approximately.

Records available.--October 1931 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 14.79 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Dec. 5, 1933, staff gage at same site and datum.

Average discharge.--23 years, 2,063 cfs.

Extremes.--Maximum discharge during year, 34,600 cfs Oct. 3 (gage height, 19.8 ft); minimum, 26 cfs Sept. 13.

1931-54: Maximum discharge, 68,100 cfs Apr. 6, 1948 (gage height, 23.9 ft); minimum observed, 4.5 cfs Nov. 19, 20, 1931.

Maximum stage known, 27.2 ft, in September 1928 from information by local residents, (discharge, 110,000 cfs).

Remarks.--Records good.

Revisions.--WSP 822: Drainage area.

Correction.--The maximum discharge (32,500 cfs) for the 1953 water year, published in WSP 1274, occurred on a rising stage at 12 p.m. Sept. 30, and was not the peak for that flood; maximum peak discharge during 1953 water year, 6,220 cfs Apr. 23 (gage height, 13.4 ft).

Rating table, water year 1953-54 (gage height, in feet, and
discharge, in cubic feet per second)
(Shifting-control method used Oct. 21 to Dec. 16,
Jan. 27 to Mar. 5, June 3-16)

2.1	26	10.0	2,450
2.4	48	12.0	4,120
3.0	118	14.0	7,400
4.0	277	16.0	13,000
5.0	507	18.0	23,000
8.0	1,490	19.8	34,600

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33,900	680	394	5,200	1,790	890	591	455	141	58	62	45
2	33,900	620	370	5,360	1,700	920	548	382	132	54	57	39
3	34,600	576	370	5,520	1,610	1,020	507	326	123	52	54	36
4	33,900	534	370	5,680	1,490	1,120	468	286	115	54	51	34
5	30,400	520	418	5,860	1,370	1,190	430	*258	108	62	*47	32
6	26,600	520	455	6,040	1,300	1,260	406	232	101	66	45	31
7	21,800	494	680	6,040	1,190	1,300	382	214	*96	77	45	30
8	18,000	507	860	6,220	1,120	1,260	359	200	92	86	44	29
9	15,500	534	1,050	6,040	1,090	1,230	337	185	85	131	42	28
10	13,000	562	1,230	5,860	*1,090	1,160	306	174	84	135	39	28
11	11,600	591	1,370	5,680	1,090	1,050	296	165	80	114	39	27
12	10,300	591	1,490	5,520	1,120	980	286	158	79	98	37	27
13	9,240	606	1,700	5,200	1,120	890	286	153	74	90	36	26
14	8,280	591	1,970	4,760	1,120	830	306	149	71	90	36	27
15	7,200	576	2,220	4,360	1,090	770	326	*145	69	84	36	33
16	6,040	562	2,390	3,900	1,050	710	316	152	67	76	35	43
17	4,760	534	2,710	3,510	1,020	665	296	190	67	68	35	50
18	3,700	507	3,000	3,160	950	620	268	240	66	64	*34	54
19	2,850	*494	3,240	3,000	920	591	249	240	64	58	34	55
20	2,270	455	3,420	2,920	860	620	240	232	62	54	35	57
21	1,830	442	3,420	2,850	860	606	240	223	60	50	36	64
22	1,530	418	3,450	2,850	830	650	214	216	60	49	41	65
23	1,300	406	3,330	2,850	800	740	370	206	59	47	44	64
24	1,160	394	3,330	2,780	770	*770	548	198	67	80	45	56
25	1,050	406	3,330	2,710	770	800	860	179	61	66	42	50
26	980	406	3,420	2,570	800	800	920	167	60	67	39	49
27	920	394	3,600	2,390	830	800	830	171	65	78	36	44
28	860	406	3,800	2,270	860	740	800	176	*60	82	38	42
29	830	418	4,120	2,120	-	710	695	164	60	*94	67	39
30	770	406	4,360	1,970	-	680	548	156	60	78	67	39
31	710	-----	4,760	1,880	-----	650	-----	149	-----	71	54	-----
Total	339,780	15,150	70,597	127,070	30,610	27,022	13,390	6,539	2,391	2,333	1,352	1,242
Mean	10,960	505	2,277	4,099	1,093	872	446	211	79.7	75.3	43.6	41.4
Cfs/m	3.81	0.175	0.791	1.42	0.380	0.303	0.155	0.073	0.028	0.026	0.015	0.014
In.	4.39	0.20	0.91	1.64	0.40	0.35	0.17	0.08	0.03	0.03	0.02	0.02

Calendar year 1953: Max 34,600 Min 120 Mean 2,593 Cfs/m 0.900 In. 12.21
Water year 1953-54: Max 34,600 Min 26 Mean 1,747 Cfs/m 0.607 In. 8.24

* Discharge measurement made on this day.

Note.--Discharge computed from twice-daily staff-gage readings Nov. 20 to Dec. 6, Apr. 18-21, May 2 to Aug. 18.

North Prong St. Marys River at Moniac, Ga.

Location.--Lat 30°31', long 82°14', in sec. 8, T. 1 N., R. 21 E., near right bank at upstream side of bridge on State Highway 94, 950 ft upstream from Georgia Southern & Florida Railway bridge, 0.5 mile west of Moniac, and 1.0 mile downstream from Moccasin Creek.

Drainage area.--About 160 sq mi, includes part of watershed in Okefenokee Swamp which is indeterminate.

Records available.--January 1921 to December 1923, January 1927 to June 1930, July 1932 to June 1934, October 1950 to September 1954. Prior to January 1927, published as St. Marys River at Moniac.

Gage.--Water-stage recorder. Datum of gage is 89.40 ft above mean sea level, datum of 1929. January 1921 to June 1934 staff gage 800 ft downstream at datum 3.22 ft higher. Oct. 1 to Dec. 13, 1950, wire-weight gage at present site and datum.

Average discharge.--9 years (1921-23, 1927-29, 1932-33, 1950-54), 163 cfs.

Extremes.--Maximum discharge during year, 2,140 cfs Oct. 1 (gage height, 14.27 ft); no flow for many days.

1921-23, 1927-30, 1932-34, 1950-54: Maximum discharge, about 6,060 cfs probably on Sept. 19, 1928 (gage height, 19.9 ft, present datum, at site then in use), from rating curve extended above 2,000 cfs; no flow at times.

Remarks.--Records good prior to June 28, poor thereafter.

Revisions.--WSP 1234: Drainage area.

Rating table, water year 1953-54, except period of indefinite stage-discharge relation (gage height, in feet, and discharge, in cubic feet per second)

4.0	0	4.7	7.0	10.0	464
4.1	.1	5.0	14	11.0	708
4.2	.7	6.0	44	13.0	1,430
4.3	1.6	7.0	92	14.2	2,090
4.4	2.6	8.0	160		
4.5	3.7	9.0	279		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,080	68	44	752	72	41	23	7.5	0.6		0	0
2	2,040	64	42	657	68	39	21	6.5	.2		0	0
3	2,010	61	41	590	*65	37	20	5.8	.1		0	0
4	1,880	58	50	530	61	35	18	4.9	.1		0	0
5	1,560	63	87	471	58	33	17	4.3	.1		0	0
6	1,240	87	95	419	55	32	17	3.7	.1		0	0
7	981	88	142	374	52	34	16	3.0	.2		0	0
8	787	81	150	334	64	32	16	2.6	0		0	0
9	845	75	134	299	70	31	16	2.2	*0		.1	0
10	953	*72	124	272	64	30	14	1.8	0		0	0
11	822	69	113	261	61	29	14	1.6	0		0	0
12	695	64	105	258	60	28	13	1.2	0		0	.1
13	593	61	123	226	56	28	12	1.3	0		0	0
14	516	58	324	201	53	34	12	2.0	0		0	.1
15	455	56	*580	186	51	39	11	1.8	0		0	.1
16	404	54	355	174	50	33	10	1.3	0		0	.1
17	361	52	292	163	49	30	11	1.0	0		0	.1
18	322	49	248	147	48	*28	9.7	.6	0		0	.1
19	289	48	210	138	46	31	8.6	.6	0	(*)	0	.1
20	256	46	184	131	44	48	7.9	1.1	0		0	0
21	221	45	171	125	44	46	8.8	.8	0		0	0
22	189	44	164	120	42	40	10	.4	0		0	0
23	164	43	283	116	40	37	12	.2	0		0	0
24	147	42	348	106	40	35	12	.1	0		0	0
25	132	52	466	100	44	33	11	.1	0		0	0
26	117	53	790	97	42	31	11	.1	0		0	0
27	107	49	708	94	41	30	*11	.1	0		0	0
28	100	47	624	90	40	28	10	.1	0		0	0
29	93	46	583	84	-	28	9.2	.1	0		0	0
30	82	44	775	78	-----	26	8.4	.2	0		0	0
31	74	-----	855	75	-----	25	-----	.6	-----		*0	-----
Total	20,515	1,739	9,010	7,668	1,480	1,031	390.6	57.6	1.2	0	0.2	0.7
Mean	662	58.0	291	247	52.9	33.3	13.0	1.86	0.04	0	0.01	0.02
Cfsm	4.14	0.362	1.82	1.54	0.331	0.208	0.081	0.012	0.00025	0	0.000062	0.00012
In.	4.77	0.40	2.09	1.78	0.34	0.24	0.09	0.01	0.0003	0	0.00005	0.0002
Calendar year 1953: Max	2,080				Min	0	Mean	156	Cfsm	0.975	In.	13.20
Water year 1953-54: Max	2,080				Min	0	Mean	115	Cfsm	0.719	In.	9.72

* Discharge measurement or observation of no flow made on this day.

Note.--Stage-discharge relation indefinite June 28 to Sept. 30; discharge estimated on basis of 3 engineers' inspections, 1 field estimate, and 1 discharge measurement.

South Prong St. Marys River at Glen St. Mary, Fla.

Location.--Lat 30°16'40", long 82°08'40", in sec. 31, T. 2 S., R. 22 E., on right bank 65 ft upstream from bridge on U. S. Highway 90 and 1.0 mile east of Glen St. Mary.

Drainage area.--150 sq mi, approximately.

Records available.--January 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 77.13 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 2,140 cfs Oct. 1 (gage height, 9.89 ft); minimum, 2.3 cfs July 20, 21 (gage height, 1.53 ft).
1950-54: Maximum discharge, 6,200 cfs Sept. 7, 1950 (gage height, 12.71 ft); minimum, 0.4 cfs May 23, 1950 (gage height, 1.52 ft).
Flood in September 1947 reached a stage of 13.0 ft, from information furnished by Florida State Road Department (discharge, 6,700 cfs).

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Jan. 27 to Feb. 20)

1.5	2.1	5.0	254
1.6	2.9	6.0	363
1.7	5.4	7.0	510
2.0	23	8.0	736
3.0	92	9.0	1,290
4.0	167	9.9	2,150

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,050	30	37	805	49	28	20	12	7.2	2.6	2.7	4.3
2	1,900	28	35	679	46	27	19	9.6	5.4	2.5	2.6	3.2
3	1,760	26	34	605	*44	25	18	8.4	4.6	2.4	2.5	3.1
4	1,620	25	65	546	42	24	17	6.0	5.0	2.9	2.5	3.0
5	1,370	36	285	491	40	22	16	5.4	5.0	3.2	2.4	2.8
6	1,140	89	342	433	38	22	17	4.6	4.6	3.1	2.4	2.7
7	925	83	421	375	37	25	45	3.9	4.3	2.8	2.4	2.7
8	756	93	466	317	71	24	46	3.5	*3.5	2.6	2.8	3.0
9	840	*96	422	268	79	22	43	3.4	3.1	3.5	2.8	2.9
10	900	90	446	226	66	22	34	3.2	2.9	9.0	2.9	2.7
11	714	84	421	243	64	20	28	3.2	2.9	4.3	3.4	3.0
12	638	74	387	308	65	19	23	3.2	2.9	3.2	3.1	5.4
13	587	66	368	257	57	19	27	3.5	2.8	2.9	2.8	4.3
14	539	58	*575	226	52	18	24	5.0	2.7	2.7	2.6	3.4
15	486	51	609	206	49	19	20	4.6	2.7	2.5	2.6	7.2
16	426	45	569	189	45	16	19	3.9	2.6	2.5	2.5	12
17	362	42	569	173	42	*16	22	3.5	2.6	2.5	2.5	8.4
18	299	37	575	153	40	15	25	3.4	2.6	2.4	2.5	13
19	243	34	546	137	37	20	20	3.4	2.6	*2.4	2.6	13
20	197	32	504	122	36	90	17	3.4	2.7	2.4	2.8	7.8
21	160	30	451	111	35	67	22	3.5	2.7	2.4	3.0	4.6
22	129	29	396	100	33	56	18	3.5	2.6	2.4	2.9	5.0
23	104	28	469	100	32	48	21	3.5	2.5	2.4	3.1	17
24	84	28	629	86	30	40	24	3.5	2.5	2.7	3.9	20
25	68	36	764	78	35	34	27	3.5	2.4	4.3	5.4	18
26	56	40	1,320	73	32	30	25	4.3	2.5	9.6	5.4	19
27	47	37	1,270	69	31	27	*22	4.6	2.7	5.4	4.3	25
28	42	40	1,220	63	30	25	20	5.4	2.6	3.9	5.1	33
29	38	40	1,100	56	-	25	19	7.8	2.4	3.4	3.7	26
30	34	38	992	53	-----	23	16	1.4	2.6	3.1	*1.4	21
31	32	-----	950	51	-----	22	-----	9.0	-----	2.9	5.4	-----
Total	18,526	1,467	17,357	7,599	1,259	692	714	159.7	98.2	104.9	142.7	298.5
Mean	598	48.9	560	245	45.0	26.8	23.8	5.15	3.27	3.38	4.60	9.95
Cfs/m	3.99	0.326	3.73	1.63	0.300	0.192	0.159	0.034	0.022	0.023	0.031	0.066
In.	4.59	0.36	4.30	1.88	0.31	0.22	0.18	0.04	0.02	0.03	0.04	0.07
Calendar year 1953: Max	2,050				Min 2.0		Mean 218		Cfs/m 1.45		In. 19.76	
Water year 1953-54: Max	2,050				Min 2.4		Mean 133		Cfs/m 0.887		In. 12.04	

Peak discharge (base, 1,500 cfs).--Oct. 1 (7 to 10 a.m.) 2,140 cfs (9.89 ft).

* Discharge measurement made on this day.

St. Marys River near Macclenny, Fla.

Location.--Lat 30°21'35", long 82°04'55", in sec. 2, T. 2 S., R. 22 E., on right bank, 200 ft downstream from site of former Stokes Bridge, 1 mile downstream from confluence of North and South Prongs, and 6 miles northeast of Macclenny.

Drainage area.--720 sq mi, approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

Records available.--October 1926 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 40.00 ft above mean sea level (levels by Mees & Mees). Prior to Feb. 21, 1939, staff gage, and Feb. 21, 1939, to Aug. 15, 1948, water-stage recorder, at site of former bridge 200 ft upstream at same datum.

Average discharge.--28 years, 672 cfs.

Extremes.--Maximum discharge during year, 11,900 cfs Oct. 2 (gage height, 18.27 ft); minimum, 17 cfs Aug. 19 (gage height, 1.05 ft).
1926-54: Maximum discharge, 28,100 cfs Sept. 25, 1947 (gage height, 22.29 ft); minimum observed, 12 cfs May 22, 1932; minimum gage height observed, 0.04 ft June 4, 5, 1927.

Remarks.--Records good.

Revisions (water years).--WSP 1082: 1928(M), 1945(M). WSP 1142: 1928, 1945. WSP 1234: Drainage area.

Correction.--The maximum discharge (7,870 cfs) for the 1953 water year, published in WSP 1274, was not independent of the higher peak discharge occurring Oct. 2, 1953; maximum independent peak discharge during 1953 water year, 5,600 cfs Aug. 29 (gage height, 15.00 ft).

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Mar. 21

Mar. 22 to Sept. 30

2.6	108	13.0	3,410	1.0	15
5.0	400	15.0	5,600	1.4	35
7.0	800	17.0	9,020	2.0	73
9.0	1,350	19.0	13,700	3.0	159
11.0	2,140			5.0	400

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,460	338	241	4,210	319	168	119	74	45	31	27	39
2	11,500	321	230	3,870	306	164	112	69	38	28	24	32
3	10,100	304	222	3,350	*292	158	107	64	35	26	22	28
4	9,080	289	243	2,920	279	150	103	60	34	24	22	26
5	8,270	295	580	2,550	265	144	99	57	34	26	22	25
6	7,170	416	852	2,220	253	139	98	54	33	26	20	24
7	6,050	481	1,010	1,940	243	145	205	51	32	26	20	22
8	5,070	449	1,150	1,690	302	151	213	50	30	26	19	22
9	4,400	415	1,120	1,460	400	145	168	47	*28	29	20	22
10	4,200	*392	1,010	1,280	383	137	141	46	28	42	21	21
11	4,290	375	938	1,160	341	132	124	44	28	53	22	24
12	3,840	358	868	1,170	327	126	111	43	28	48	22	31
13	3,250	339	855	1,160	310	121	112	45	28	40	22	28
14	2,730	321	1,500	1,030	286	118	117	48	27	35	21	30
15	2,340	305	*2,240	930	265	122	104	46	26	29	20	31
16	2,000	289	2,260	852	252	127	93	44	26	26	19	38
17	1,750	276	1,960	782	240	118	87	42	26	24	18	44
18	1,500	264	1,740	715	229	*110	84	40	26	24	18	65
19	1,300	252	1,560	650	218	117	84	39	26	*22	19	79
20	1,120	242	1,400	603	208	271	81	37	26	22	25	72
21	980	234	1,270	559	200	373	79	37	26	21	24	58
22	860	228	1,160	525	192	324	91	36	26	20	22	72
23	755	223	1,290	503	182	267	97	36	25	20	22	132
24	668	219	1,750	477	176	225	124	35	24	20	22	107
25	592	269	2,320	448	189	195	134	34	24	23	24	95
26	527	341	4,110	424	199	174	123	33	26	37	24	94
27	479	327	5,160	406	188	158	*108	33	26	59	22	210
28	443	292	4,790	390	176	146	93	33	24	55	24	196
29	415	267	4,190	369	-	140	84	39	24	43	49	147
30	387	253	3,840	348	-----	134	80	48	24	36	61	113
31	359	-----	4,020	332	-----	126	-----	52	-----	31	*54	-----
Total	105,885	9,374	55,879	39,323	7,220	5,125	3,375	1,416	853	969	771	1,929
Mean	3,416	312	1,803	1,268	258	165	112	45.7	28.4	31.3	24.9	64.3
Cfs/m	4.74	0.433	2.50	1.76	0.358	0.229	0.156	0.063	0.039	0.043	0.035	0.089
In.	5.47	0.48	2.89	2.03	0.37	0.26	0.17	0.07	0.04	0.05	0.04	0.10
Calendar year 1953: Max	11,500				Min 24	Mean 871		Cfs/m 1.21	In. 16.43			
Water year 1953-54: Max	11,500				Min 18	Mean 636		Cfs/m 0.883	In. 11.97			

* Discharge measurement made on this day.

ST. JOHNS RIVER BASIN

Jane Green Creek near Deer Park, Fla.

Location.--Lat 28°04'27", long 80°53'18", in SE $\frac{1}{4}$ sec. 2, T. 28 S., R. 34 E., near right bank of left channel on downstream side of highway bridge, $1\frac{1}{4}$ miles southeast of Deer Park and 2 miles downstream from confluence of Crabgrass and Bull Creeks.

Drainage area.--248 sq mi.

Records available.--October 1953 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 18.55 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 6,880 cfs about Oct. 9 or 10 (gage height, 8.65 ft, from floodmark); minimum, 0.4 cfs May 26, 27 (gage height, 3.10 ft).

Remarks.--Records good above 2,500 cfs and fair below except those for Oct. 1-11, which are poor.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

3.1	0.4	4.0	80
3.2	1.4	4.3	160
3.3	5.2	4.6	290
3.4	6.2	5.0	620
3.5	11	6.0	1,760
3.6	18	7.0	3,100
3.7	27	8.1	5,100

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	} a3,600 (*)	a370	1,490	252	80	36	9.4	32	449	539	720	181
2		*324	1,260	236	74	35	7.0	33	530	398	701	467
3		285	1,070	224	68	32	5.2	29	647	297	760	683
4		252	920	207	62	30	4.6	25	1,270	228	692	665
5		a230	821	192	53	26	4.2	20	2,190	178	566	638
6	} a4,800	a210	720	178	48	*30	3.5	16	2,480	*148	467	593
7		a200	665	167	42	50	5.5	11	2,260	124	398	530
8		a190	620	154	40	53	25	8.4	1,890	124	440	458
9		a180	584	144	36	58	51	6.2	1,530	167	494	390
10		a170	530	138	32	64	181	4.2	1,240	374	458	344
11	} a5,000	a170	476	151	29	70	274	3.0	986	521	530	297
12		a160	*440	157	26	74	252	2.8	780	485	665	263
13		a4,400	180	398	174	72	*207	4.8	656	407	692	247
14		a3,800	160	362	203	70	178	5.5	602	357	575	263
15		a3,400	157	337	236	20	62	2.8	638	337	440	297
16	a3,000	154	317	252	17	53	111	4.8	1,150	317	330	407
17	a2,700	148	290	247	15	46	85	7.9	1,140	317	*252	494
18	a2,300	141	274	*236	12	38	66	7.9	1,430	357	195	566
19	a2,100	132	252	224	11	33	51	6.6	2,730	423	180	674
20	a1,800	126	228	211	9.8	41	40	6.2	3,520	407	129	593
21	a1,600	121	220	195	15	38	32	5.2	3,170	357	108	494
22	1,420	113	216	181	18	36	29	3.5	2,700	303	103	494
23	1,260	106	211	164	21	36	36	2.2	2,280	258	103	942
24	a1,100	108	220	151	24	38	40	*1.5	1,960	216	89	1,180
25	a950	593	236	141	29	36	38	.9	1,880	188	76	1,180
26	a830	1,530	252	129	32	33	36	.5	1,660	207	70	1,810
27	a720	2,360	268	119	35	29	36	2.6	1,420	228	72	3,800
28	a630	2,360	285	111	35	25	30	5.2	1,180	274	80	3,950
29	a550	2,070	290	103	94	21	27	8.8	909	494	94	3,130
30	a480	1,760	285	94	-----	17	26	52	701	674	103	*2,460
31	a470	-----	279	87	-----	12	-----	268	-----	760	121	-----
Total	65,310	15,040	14,836	5,458	929.8	1,294	2,034.4	585.5	45,978	10,464	10,683	28,500
Mean	2,752	501	479	176	33.2	41.7	67.8	18.9	1,533	338	345	950
Cfsm	11.1	2.02	1.93	0.710	0.134	0.168	0.273	0.076	6.18	1.36	1.39	3.83
In.	12.79	2.26	2.22	0.82	0.14	0.19	0.31	0.09	6.89	1.57	1.60	4.27
Calendar year 1953: Max	-	-	-	Min	-	Mean	-	Cfsm	-	In.	-	-
Water year 1953-54: Max	-	-	-	Min	0.5	Mean	606	Cfsm	2.44	In.	33.15	-

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of 2 discharge measurements, engineers' notes, and records for nearby stations.

Note.--Result of discharge measurement made on Sept. 22, 1953, 3,740 cfs.

St. Johns River near Melbourne, Fla.

Location (revised).--Lat 28°05'03", long 80°45'11", in NE $\frac{1}{4}$ sec. 6, T. 28 S., R. 36 E., on left bank 10 ft upstream from bridge on U. S. Highway 192, 1.0 mile downstream from Sawgrass Lake, 1.8 miles upstream from Lake Washington, and 9.2 miles west of Melbourne.

Drainage area.--910 sq mi, approximately.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 11.22 ft above mean sea level, datum of 1929. Prior to July 26, 1940, staff gage at same site and datum.

Average discharge.--15 years, 795 cfs.

Extremes.--Maximum discharge during year, 8,850 cfs Oct. 12 (gage height, 9.47 ft); minimum not determined; minimum gage height, 2.55 ft May 26, 27.

1939-54: Maximum discharge, that of Oct. 12, 1953; maximum reverse flow measured, 109 cfs Sept. 18, 1950, wind effect; minimum gage height, that of May 26, 27, 1954.

Remarks.--Records poor.

Revisions.--WSP 1234: Drainage area.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,780	3,690	2,670	1,170	580	178	e60	e15	e500	1,720	1,090	614
2	5,710	3,330	2,660	1,090	557	154				1,650	1,110	636
3	5,710	*3,380	2,630	1,080	530	130				1,560	1,110	602
4	6,110	3,230	2,630	*1,020	502	130				1,480	1,120	568
5	6,280	3,160	2,680	1,020	484	109				1,390	*1,120	557
6	*6,430	3,090	2,630	1,000	466	*114	e90	e45	a750	1,340	1,090	568
7	6,400	2,980	2,590	976	440	138				*1,320	1,120	568
8	6,620	2,890	2,520	950	431	109				1,340	1,200	*591
9	7,030	2,840	2,460	936	404	106				1,270	1,210	591
10	8,120	2,770	2,400	908	387	102				1,200	1,180	557
11	6,550	2,730	*2,320	922	361	e90	(*)	(*)	894	1,210	1,180	539
12	8,800	2,660	2,250	922	361				889	1,280	1,170	802
13	*8,750	2,570	2,190	922	336				1,110	1,220	1,140	712
14	8,450	2,520	2,180	908	318				1,130	1,200	1,120	838
15	8,120	2,450	2,110	908	302				1,160	1,210	1,110	894
16	7,740	2,390	2,030	908	293	e90	e45	e10	1,200	1,210	1,090	922
17	7,740	2,290	1,970	908	278				1,200	1,170	*1,050	*922
18	7,030	2,220	1,900	894	276				1,500	1,130	1,020	963
19	6,500	2,170	1,820	*866	*268				1,760	1,110	976	1,000
20	6,510	2,100	1,750	866	260				1,990	1,070	936	999
21	6,260	2,040	1,700	838	260	e75	e30	*e100	2,180	1,040	894	976
22	5,970	1,970	1,650	810	260				2,390	1,000	852	976
23	5,710	1,910	1,630	796	235				*2,560	963	852	1,030
24	5,460	1,910	1,610	768	227				2,640	922	792	1,050
25	5,220	2,290	1,540	740	227				2,700	908	726	1,070
26	4,980	2,350	1,490	698	202	e75	e30	*e100	2,650	989	670	1,180
27	4,720	2,350	1,410	670	186				2,500	1,070	625	1,380
28	4,530	2,420	1,350	670	170				2,340	1,080	602	1,820
29	4,340	2,530	1,300	636	-				2,140	1,130	602	2,390
30	4,100	2,610	1,260	602	-----				1,950	1,130	614	*2,990
31	3,860	-----	1,230	591	-----				-----	1,110	580	-----
Total	197,430	78,030	62,560	26,973	9,599	2,995	1,350	900	43,233	37,422	29,941	29,095
Mean	6,369	2,601	2,018	870	343	96.6	45.0	29.0	1,441	1,207	966	970
Cfsm	7.00	2.86	2.22	0.956	0.377	0.106	0.049	0.032	1.58	1.33	1.06	1.07
In.	8.07	3.19	2.56	1.10	0.39	0.12	0.06	0.04	1.77	1.53	1.22	1.19

Calendar year 1953: Max 8,800 Min - Mean 1,574 Cfsm 1.73 In. 23.48

Water year 1953-54: Max 8,800 Min - Mean 1,423 Cfsm 1.56 In. 21.24

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for nearby stations.

e Stage-discharge relation indefinite; discharge estimated on basis of records for nearby stations.

ST. JOHNS RIVER BASIN

St. Johns River near Christmas, Fla.

Location--Lat 28°33', long 80°57', in sec. 29 or 32, T. 22 S., R. 34 E., on left bank 15 ft downstream from bridge on State Highway 50 and 4 miles east of Christmas.

Drainage area--1,410 sq mi, approximately.

Records available--December 1933 to September 1954.

Gage--Water-stage recorder. Datum of gage is 1.62 ft above mean sea level, datum of 1929. Prior to July 23, 1934, staff gage at same site and datum.

Average discharge--20 years (1934-54), 1,372 cfs.

Extremes--Maximum discharge during year, 11,700 cfs Oct. 12 (gage height, 10.59 ft); minimum, 130 cfs May 25-27; minimum gage height, 1.75 ft May 25-27.
1933-54: Maximum discharge, that of Oct. 12, 1953; no flow Mar. 22-27, Apr. 19, June 12, 13, 1939; minimum gage height, 0.48 ft June 19, 1945.

Remarks--Records good. Records include small inflow from Tootoosahatchee Creek at high stages.

Revisions (water years)--WSP 1082: 1926(M). WSP 1234: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Mar. 14 to May 14)

1.7	127	5.0	830
2.0	144	6.0	1,540
2.5	187	6.5	2,100
3.0	256	7.0	2,900
4.0	472	9.0	7,450
4.5	607	10.6	11,700

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10,000	7,500	4,290	2,550	1,350	643	375	232	621	2,470	2,900	1,600
2	9,970	7,210	4,190	2,490	1,350	656	364	220	732	2,420	2,760	1,590
3	9,920	6,890	4,030	2,450	1,290	604	348	211	1,290	2,340	2,690	1,560
4	10,000	*6,580	3,930	2,420	1,250	576	342	211	2,180	2,270	2,580	1,570
5	10,000	6,280	3,950	2,360	1,220	*556	335	216	2,860	2,230	2,500	1,560
6	10,000	6,020	3,890	2,270	1,190	543	331	207	2,810	2,200	2,410	1,550
7	*9,940	5,880	3,750	2,230	1,160	559	335	193	2,550	2,170	2,380	1,560
8	10,000	5,610	3,690	2,180	1,110	565	335	183	2,270	*2,230	2,470	1,540
9	10,600	5,360	3,590	2,130	1,100	556	327	176	2,080	2,270	2,390	1,510
10	11,400	5,120	*3,470	2,100	1,060	554	320	171	1,920	2,350	2,270	1,520
11	11,600	4,970	3,410	2,040	1,030	551	312	165	1,790	2,410	2,230	1,500
12	11,800	4,790	3,310	2,030	1,000	545	302	163	1,680	2,450	2,170	1,470
13	11,600	4,650	3,250	2,000	988	540	300	166	1,660	2,620	2,110	1,470
14	*11,400	4,520	3,150	1,990	970	527	*300	165	1,720	2,770	2,100	1,460
15	11,300	4,330	3,130	1,940	940	517	292	161	1,820	2,880	2,090	1,450
16	11,200	4,170	3,090	1,910	916	502	284	156	1,880	3,050	2,040	1,430
17	11,000	4,010	2,960	1,880	888	490	273	150	1,860	3,010	1,990	1,410
18	10,900	3,870	2,880	1,870	865	470	261	145	1,930	2,940	*1,960	1,430
19	10,800	3,750	2,850	1,840	845	465	248	143	2,210	2,850	1,910	1,480
20	10,600	3,570	2,770	*1,800	845	490	247	139	2,620	2,760	1,860	1,450
21	10,400	3,450	2,740	1,770	875	492	263	136	3,090	2,640	1,850	1,420
22	10,200	3,350	2,720	1,720	865	487	279	133	3,330	2,530	1,800	1,440
23	9,940	3,230	2,610	1,660	845	472	310	132	3,310	2,490	1,770	1,520
24	9,620	3,250	2,850	1,640	800	462	304	131	3,210	2,440	1,750	1,560
25	9,390	3,910	2,790	1,600	775	450	302	130	3,070	2,420	1,710	1,570
26	9,120	4,370	2,810	1,570	746	438	312	130	2,940	2,490	1,670	1,670
27	8,800	4,650	2,830	1,540	718	426	312	148	2,830	2,760	1,650	1,840
28	8,560	4,650	2,790	1,500	685	414	282	*187	2,700	3,210	1,640	1,960
29	8,350	4,570	2,740	1,460	-	412	256	199	2,620	3,290	1,640	*1,980
30	8,080	4,440	2,690	1,420	-----	402	242	362	2,550	3,190	1,600	1,990
31	7,820	-----	2,580	1,380	-----	391	-----	530	-----	3,030	1,600	-----
Total	314,110	144,910	99,910	59,740	27,656	15,735	9,089	5,791	68,133	81,160	64,470	47,060
Mean	10,130	4,850	3,223	1,927	988	508	303	187	2,271	2,618	2,080	1,569
Cfsm	7.18	3.43	2.29	1.37	0.701	0.360	0.215	0.133	1.61	1.86	1.48	1.11
In.	8.28	3.82	2.64	1.58	0.73	0.42	0.24	0.15	1.80	2.14	1.70	1.24
Calendar year 1953: Max			11,600		Min 198		Mean 2,779		Cfsm 1.97		In. 26.77	
Water year 1953-54: Max			11,600		Min 130		Mean 2,569		Cfsm 1.82		In. 24.74	

* Discharge measurement made on this day.

Econlockhatchee River near Chuluota, Fla.

Location.--Lat 28°41', long 81°07', on line between secs. 9 and 10, T. 21 S., R. 32 E., on right bank 10 ft downstream from highway bridge, 3 miles northeast of Chuluota, and 6 miles upstream from mouth.

Drainage area.--260 sq mi, approximately.

Records available.--November 1935 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 2.14 ft above mean sea level (Corps of Engineers benchmark). Prior to May 18, 1939, staff gage at same site and datum. Since Sept. 4, 1943, water-stage recorder on St. Johns River above Lake Harney, near Geneva, 7 miles downstream from base gage, used as an auxiliary gage for this station.

Average discharge.--18 years (1936-54), 265 cfs.

Extremes.--Maximum discharge during year, 1,970 cfs Oct. 12 (gage height, 11.46 ft); minimum, 20 cfs May 24-26; minimum gage height, 0.98 ft May 25-27.

1935-54: Maximum discharge, 10,000 cfs Sept. 24, 1948 (gage height, 18.09 ft), from rating curve extended above 4,300 cfs; minimum, 6.7 cfs June 11-13, 15, 1945; minimum gage height, 0.44 ft June 15-17, 1945.
Maximum stage known, that of Sept. 24, 1948.

Remarks.--Records fair. Records include some flow diverted from Lake Mary Jane in Lake Okechobee and the Everglades basin through Econlockhatchee Headwaters Canal.

Revisions (water years).--WSP 892: 1939. WSP 1234: Drainage area.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,430	240	950	369	86	52	30	36	30	145	185	162
2	1,210	230	808	335	83	50	29	34	30	121	165	171
3	1,100	220	692	318	78	49	28	33	35	111	160	161
4	1,200	*204	599	314	76	*47	28	35	93	106	162	151
5	1,440	191	597	301	73	46	29	37	435	96	190	128
6	1,750	194	591	291	69	44	31	35	1,280	80	181	105
7	1,720	186	609	277	66	46	34	40	1,740	70	156	96
8	1,610	175	619	257	65	50	41	42	1,560	71	144	92
9	1,510	169	574	235	64	56	38	36	1,270	*77	136	79
10	*1,510	161	*519	220	65	54	36	32	979	75	150	68
11	1,820	163	470	208	64	53	34	29	763	87	193	62
12	1,890	166	427	205	61	51	33	27	604	138	216	56
13	1,550	160	392	201	59	49	30	26	479	265	202	48
14	1,240	175	376	194	58	46	29	25	403	473	167	46
15	983	186	369	189	56	44	*28	24	362	512	144	45
16	812	193	361	180	54	41	28	24	346	491	131	45
17	697	185	363	172	54	40	26	23	317	484	110	45
18	611	167	341	165	51	38	25	22	294	476	*93	46
19	617	156	310	156	51	38	25	22	274	472	79	52
20	649	147	280	*149	50	40	24	22	280	411	71	56
21	643	142	258	142	49	43	26	21	399	305	72	61
22	601	144	242	135	50	47	29	21	568	221	59	72
23	522	142	330	129	52	47	31	21	614	165	58	74
24	444	180	446	122	50	45	32	20	530	132	56	77
25	387	544	551	116	50	42	32	*20	433	110	55	107
26	347	932	627	113	54	38	37	20	358	87	51	136
27	305	1,680	649	108	56	36	50	21	296	78	49	*185
28	284	1,790	604	103	54	35	54	22	250	126	66	243
29	268	1,450	528	98	-	34	49	24	210	158	87	212
30	266	1,170	460	94	-----	32	41	30	176	190	80	200
31	255	-----	410	89	-----	31	-----	29	-----	201	115	-----
Total	29,671	11,842	15,332	5,985	1,698	1,364	987	853	15,408	6,554	3,783	3,081
Mean	957	395	495	193	60.6	44.0	32.9	27.5	514	211	122	103
Cfsm	3.68	1.52	1.90	0.742	0.233	0.169	0.127	0.106	1.98	0.812	0.469	0.396
In.	4.24	1.69	2.19	0.86	0.24	0.20	0.14	0.12	2.20	0.94	0.54	0.44

Calendar year 1953: Max 3,980 Min 31 Mean 487 Cfsm 1.87 In. 25.43
Water year 1953-54: Max 1,890 Min 20 Mean 265 Cfsm 1.02 In. 13.80

Peak discharge (base, 1,200 cfs)--Oct. 12 (3 a.m.) 1,970 cfs (11.46 ft); Nov. 28 (1 a.m.) 1,900 cfs (10.93 ft); June 7 (11:30 a.m.) 1,770 cfs (10.70 ft).

* Discharge measurement made on this day.

ST. JOHNS RIVER BASIN

St. Johns River above Lake Harney, near Geneva, Fla.

Location--Lat 28°43', long 81°02', in sec. 33, T. 20 S., R. 33 E., near right bank at upstream side of bridge on State Highway 46, 1 mile upstream from Lake Harney, 5½ miles southeast of Geneva, and 15½ miles southeast of Sanford.

Drainage area--1,910 sq mi, approximately.

Records available--July 1951 to September 1954 (discharge measurements only).

Gage--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers benchmark).

Extremes--1951-54: Maximum discharge measured, 13,800 cfs Oct. 7, 1953; minimum measured, 100 cfs May 25, 1954.

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Oct. 7.....	13,800	Apr. 15.....	347
Nov. 14.....	13,300	May 25.....	180
Dec. 4.....	9,180	July 9.....	2,610
Jan. 9.....	5,400	Aug. 19.....	2,330
Jan. 21.....	2,590	Sept. 27.....	1,860
Mar. 5.....	856		

St. Johns River near Sanford, Fla.

Location--Lat 28°50', long 81°19', in sec. 16, T. 19 S., R. 30 E., on left bank 25 ft downstream from bridge on U. S. Highways 17 and 92, near downstream end of Lake Monroe, and 4 miles northwest of Sanford.

Drainage area--2,420 sq mi, approximately.

Records available--August 1941 to September 1954 (discharge measurements only).

Gage--Water-stage recorder. Datum of gage is 0.09 ft below mean sea level, datum of 1929.

Extremes--1941-54: Maximum discharge measured, 17,500 cfs Oct. 14, 1953; maximum reverse flow measured, 915 cfs June 7, 1944 (affected by tide).

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Oct. 7.....	14,900	Apr. 16.....	1,510
Nov. 14.....	17,500	May 26.....	255
Dec. 5.....	13,200	July 13.....	3,470
Jan. 7.....	7,610	Aug. 19.....	3,680
Jan. 22.....	3,680	Sept. 28.....	2,510
Mar. 2.....	2,080		

Wekiva River near Sanford, Fla.

Location.--Lat 28°49', long 81°25', on line between secs. 21 and 28, T. 19 S., R. 29 E., near right bank at downstream side of bridge on State Highway 46, 4½ miles downstream from Little Wekiva River, 5½ miles upstream from mouth, and 9 miles west of Sanford.

Records available.--October 1931 to September 1935 (discharge measurements only), October 1935 to September 1954.

Gage.--Staff gage read once daily. Prior to Nov. 6, 1935, reference point at same site.

Average discharge.--19 years (1935-54), 264 cfs.

Extremes.--Maximum discharge observed during year, 640 cfs Oct. 9 (gage height, 4.10 ft); minimum observed, 188 cfs July 18-21; minimum gage height, 2.76 ft Mar. 19, Mar. 31 to Apr. 6.

1935-54: Maximum discharge observed, 2,060 cfs Sept. 17, 1945 (gage height, 5.60 ft), from rating curve extended above 700 cfs; minimum, 105 cfs June 5-13, 1939; minimum gage height, 2.51 ft June 4-6, 1941.

Remarks.--Records fair.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Oct. 31 to Nov. 8,
Dec. 4 to Jan. 9, May 17 to Sept. 5)

2.6	183
3.0	283
3.8	495
4.1	640

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	450	313	313	378	268	253	223	243	203	190	240	230
2	450	306	308	390	268	248	223	238	200	190	236	230
3	456	300	376	388	268	*238	223	233	210	190	260	230
4	450	298	444	378	263	236	223	226	220	190	256	233
5	478	*293	465	360	263	238	223	223	220	190	246	233
6	551	296	488	348	258	238	223	223	220	190	240	236
7	574	290	*499	336	253	238	233	223	220	200	a263	236
8	547	288	475	326	253	238	233	220	220	203	286	238
9	516	286	459	323	253	233	238	218	216	208	286	238
10	*597	283	435	320	253	233	238	218	216	208	286	238
11	538	293	422	313	253	233	233	218	216	203	286	240
12	492	290	404	313	253	233	233	220	a216	203	a275	240
13	478	293	392	306	253	233	238	218	216	*206	a260	258
14	450	288	401	298	253	233	238	223	213	198	a245	253
15	432	290	390	290	253	233	238	223	213	193	a230	253
16	419	288	383	290	253	233	*236	216	213	183	a218	256
17	414	283	376	288	253	228	238	213	213	183	a212	256
18	416	286	370	280	253	228	238	213	218	188	210	258
19	411	288	363	273	253	223	233	213	218	188	*218	303
20	399	a286	360	273	253	233	233	210	213	188	210	296
21	390	a284	353	270	263	233	233	208	213	188	218	290
22	383	283	356	*286	263	233	233	208	208	193	218	296
23	378	288	447	308	258	228	233	208	208	193	216	298
24	373	318	510	303	258	228	233	206	203	218	216	298
25	360	353	499	298	258	228	233	203	203	213	218	320
26	350	348	492	293	253	228	243	*200	200	243	218	356
27	338	343	482	293	253	228	248	208	200	238	a222	353
28	358	333	465	283	253	228	248	203	200	243	a226	*368
29	350	328	444	278	-	228	248	203	196	238	a229	373
30	340	323	416	273	-----	228	246	203	190	233	a230	353
31	328	-----	385	268	-----	223	-----	203	-----	218	233	-----
Total	13,566	9,039	12,972	9,624	7,189	7,216	7,036	6,665	6,315	6,330	7,407	8,260
Mean	438	301	418	310	257	233	235	216	210	204	239	275
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-

Calendar year 1953: Max 1,100 Min 200 Mean 331 Cfsm - In. -
Water year 1953-54: Max 616 Min 188 Mean 278 Cfsm - In. -

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for nearby stations.

Blue Spring near Orange City, Fla.

Location.--Lat 28°56', long 81°20', in sec. 8, T. 18 S., R. 30 E., on left bank of spring run, 800 ft upstream from St. Johns River, a quarter of a mile downstream from head of spring, and 2½ miles west of Orange City.

Records available.--March 1932 to September 1954 (discharge measurements only).

Gage.--Staff gage read only when discharge measurements are made. Datum of gage is 0.74 ft below mean sea level, datum of 1929 (levels by Corps of Engineers).

Extremes.--1932-54: Maximum discharge measured, 206 cfs Mar. 1, 1954; minimum measured, 62.7 cfs Nov. 6, 1935, but may be inaccurate owing to adverse measuring conditions and abnormal backwater from St. Johns River.

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Dec. 8.....	175	May 26.....	165
Jan. 22.....	200	July 12.....	167
Mar. 1.....	206	Aug. 20.....	182
Apr. 17.....	194	Sept. 29.....	182

St. Johns River near De Land, Fla.

Location.--Lat 29°01', long 81°23', T. 17 S., R. 29 E., on left bank 1,000 ft downstream from Crows Bluff Bridge on State Highway 44 and 5 miles west of De Land.

Drainage area.--2,960 sq mi, approximately.

Records available.--January 1934 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 1.114 ft below mean sea level (levels by Corps of Engineers). Prior to May 28, 1936, staff gage at Crows Bluff Bridge, 1,000 ft upstream at same datum. Auxiliary water-stage recorder at St. Francis Landing, 4 miles downstream from Crows Bluff Bridge.

Average discharge.--20 years, 3,187 cfs.

Extremes.--Maximum daily discharge during year, 17,100 cfs Oct. 15; maximum gage height, 7.17 ft Oct. 11, 12; minimum daily discharge not determined; minimum gage height, 1.254 ft Mar. 28.

1934-54: Maximum daily discharge, that of Oct. 15, 1953; maximum reverse flow measured, 697 cfs June 6, 1944.

Remarks.--Records fair except those below 2,500 cfs, which are poor. Flow occasionally reversed as result of tide and wind effect.

Revisions.--WSP 1234: Drainage area.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13,900	a14,400	9,250	7,110	4,060				1,550	3,610	4,180	2,540
2	14,100	a14,100	9,160	7,260	4,210	(*)			1,680	3,570	4,420	*2,400
3	14,400	a13,700	9,160	7,460	4,130	e2,220	e1,520	e1,100	1,950	3,600	4,880	2,090
4	14,500	a13,400	9,100	7,450	4,060				1,900	3,650	4,960	2,360
5	14,600	a13,000	9,120	7,470	3,980				2,050	3,760	5,210	2,680
6	*14,900	*12,600	9,170	7,530	3,810				1,840	3,830	5,200	2,760
7	15,000	12,000	9,140	7,220	3,820				2,020	4,020	5,080	2,710
8	15,200	11,800	*9,110	7,200	3,340	e2,030	e1,450	e1,060	2,020	4,020	4,850	2,690
9	16,100	11,300	9,030	7,150	3,460				2,270	4,350	4,680	2,190
10	15,900	11,000	9,020	7,190	3,700				2,530	4,400	4,690	1,990
11	16,100	10,600	8,930	7,100	4,020				2,540	4,070	4,930	2,020
12	16,300	10,300	8,810	6,870	3,650				*2,680	*3,760	4,900	2,160
13	16,900	9,940	8,800	6,790	3,220	e1,900	e1,380	e1,000	2,850	3,600	4,930	2,020
14	16,900	9,860	8,850	6,650	3,250				3,020	3,580	4,700	1,640
15	*17,100	9,850	8,140	6,560	3,200				3,110	3,670	4,470	1,730
16	a16,900	9,770	8,560	6,530	3,090				3,250	4,000	4,410	1,840
17	a16,900	9,820	8,490	6,410	3,220				3,120	3,990	4,350	2,150
18	a16,900	9,900	8,310	6,290	3,020	e1,800	e1,300	e950	2,970	4,020	4,420	1,930
19	a16,800	9,780	8,060	6,230	2,750				2,520	4,040	4,200	2,370
20	a16,700	9,720	7,950	6,070	2,780				1,940	3,930	*4,130	2,600
21	a16,600	9,520	7,860	5,660	2,820				1,480	*3,950	3,940	2,950
22	a16,500	9,570	7,770	5,800	2,550				1,900	4,060	3,830	2,960
23	a16,300	9,370	7,520	*5,420	2,580	e1,700	e1,220	e900	2,530	4,010	3,560	2,970
24	a16,200	9,240	7,240	5,210	2,700				2,610	3,990	3,120	2,750
25	a16,000	9,290	7,130	4,830	2,460				3,310	3,870	2,690	2,550
26	a15,900	9,140	6,930	4,670	2,510				3,390	3,670	2,880	2,690
27	a15,700	9,220	6,950	4,680	2,650				3,380	3,620	2,880	2,700
28	a15,500	9,350	7,000	4,610	2,520	e1,600	e1,180	e1,040	3,590	3,720	2,570	2,840
29	a15,200	9,410	7,050	4,520					3,680	3,770	2,490	*3,010
30	a15,000	9,510	7,070	4,620					3,600	3,910	2,430	3,070
31	a14,800		7,120	4,360						4,020	2,400	
Total	489,800	320,260	255,780	192,900	91,560	57,850	40,250	31,290	77,460	120,060	126,560	73,360
Mean	15,800	10,680	8,251	6,223	3,270	1,866	1,342	1,009	2,582	3,873	4,083	2,445
Cfsm	5.34	3.61	2.79	2.10	1.10	0.630	0.453	0.341	0.872	1.31	1.38	0.826
In.	6.15	4.02	3.21	2.42	1.15	0.73	0.51	0.39	0.97	1.51	1.59	0.92

Calendar year 1953: Max 17,100 Min 658 Mean 5,403 Cfsm 1.83 In. 24.75
Water year 1953-54: Max 17,100 Min - Mean 5,143 Cfsm 1.74 In. 23.57

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for nearby stations.

e Stage-discharge relation indefinite; discharge estimated on basis of 2 discharge measurements and records for nearby stations. No gage-height record May 4-7.

Palatlakaha Creek near Mascotte, Fla.

Location.--Lat 28°37', long 81°51', in sec. 36, T. 21 S., R. 24 E., on right bank 5 ft upstream from highway bridge, 0.2 mile downstream from Lake Emma, and $3\frac{1}{4}$ miles north-east of Mascotte.

Drainage area.--160 sq mi, approximately.

Records available.--May 1945 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 89.54 ft above mean sea level, datum of 1929. Prior to May 21, 1946, staff gage at same site and datum.

Average discharge.--9 years, 115 cfs.

Extremes.--Maximum discharge during year, 372 cfs Oct. 10, 11, 12; maximum gage height, 7.12 ft Oct. 11, 12; minimum discharge, 14 cfs July 4-9, 23-26; minimum gage height, 3.45 ft July 7.

1945-54: Maximum discharge, 458 cfs Oct. 4, 5, 1945; maximum gage height, that of Oct. 11, 12, 1953; minimum discharge observed, 0.2 cfs June 18, 19, 1945; minimum gage height observed, 2.14 ft June 19, 1945.

Remarks.--Records fair.

Correction.--The maximum discharge (364 cfs) for the 1953 water year, published in WSP 1274, was not independent of the higher peak discharge occurring Oct. 10, 11, 12, 1953; maximum independent peak discharge during 1953 water year, 74 cfs May 7-12 (gage height, 4.88 ft).

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 4-29, Nov. 24-28,
July 26 to Sept. 22)

Oct. 1-12

Oct. 13 to Sept. 30

6.8 350
7.0 380

3.4 14 4.4 38
4.0 18 5.0 107
4.2 24 7.0 381

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	358	352	317	343	268	188	115	59	18	15	30	23
2	360	350	310	342	265	185	111	57	18	15	30	23
3	364	349	305	343	262	182	108	53	18	15	30	22
4	366	346	308	342	258	178	107	51	19	14	*31	21
5	368	347	328	342	254	176	105	49	20	14	30	21
6	370	345	329	338	251	173	102	46	19	14	29	20
7	368	340	329	333	248	172	100	42	20	14	28	20
8	370	339	326	332	247	171	99	40	19	14	30	19
9	370	336	325	331	242	168	97	37	18	14	34	19
10	371	333	325	328	240	167	94	35	18	15	33	18
11	371	333	322	328	237	164	93	33	17	15	33	18
12	372	329	324	322	231	160	90	31	17	15	34	19
13	371	326	325	317	227	154	88	*33	17	15	34	19
14	368	324	331	317	226	152	85	33	17	15	32	19
15	*364	322	322	315	223	147	85	30	17	15	30	*20
16	364	319	321	314	220	141	93	28	*16	15	30	19
17	364	315	317	310	*217	140	90	28	16	15	28	18
18	366	312	312	307	213	136	87	26	16	15	27	18
19	366	308	310	305	210	137	84	26	16	15	27	18
20	364	305	310	304	209	146	82	26	16	15	26	18
21	364	303	314	303	207	145	79	24	16	15	26	17
22	363	303	314	300	200	142	77	23	16	15	27	17
23	361	311	346	293	199	140	76	22	16	14	26	17
24	360	318	354	290	199	138	75	21	16	14	25	16
25	359	*347	356	289	196	134	72	20	16	14	25	16
26	357	345	353	287	192	132	70	20	15	15	24	17
27	356	342	352	286	191	129	67	20	15	29	23	18
28	357	336	350	280	191	126	64	19	15	37	23	18
29	359	329	*352	277	-	124	62	19	15	35	25	18
30	358	324	350	276	-----	121	60	19	15	32	24	17
31	353	-----	346	272	-----	*117	-----	19	-----	31	23	-----
Total	11,280	9,888	10,183	9,666	6,323	4,685	2,617	989	507	545	877	563
Mean	364	350	328	312	226	151	87.2	31.9	16.9	17.6	28.3	18.8
Cfsm	2.28	2.06	2.05	1.95	1.41	0.944	0.545	0.199	0.106	0.110	0.177	0.118
In.	2.62	2.30	2.37	2.25	1.47	1.09	0.61	0.23	0.12	0.13	0.20	0.13
Calendar year 1953: Max	372			Min 35		Mean 143		Cfsm 0.894		In. 12.17		
Water year 1953-54: Max	372			Min 14		Mean 159		Cfsm 0.994		In. 13.52		

* Discharge measurement made on this day.

Palatlakaha Creek near Okahumpka, Fla.

Location--Lat 28°43', long 81°53', in sec. 26, T. 20 S., R. 24 E., at bridge 2 miles southeast of Okahumpka and 4 miles above mouth.

Records available--May 1945 to September 1954 (discharge measurements only).

Gage--Staff gage read only when discharge measurements are made. Prior to Sept. 18, 1952, reference point at same site.

Extremes--1945-54: Maximum discharge measured, 436 cfs Sept. 17, 1945; minimum measured, 0.80 cfs May 30, 1945.

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Oct. 15.....	360	May 13.....	55.0
Nov. 25.....	362	June 16.....	26.6
Dec. 29.....	357	Aug. 4.....	56.2
Feb. 18.....	212	Sept. 15.....	38.7
Mar. 31.....	129		

Haines Creek at Lisbon, Fla.

Location--Lat 28°53', long 81°47', in sec. 2, T. 19 S., R. 25 E., on left bank 15 ft downstream from bridge on State Highway 44, a quarter of a mile west of Lisbon, and 8½ miles northeast of Leesburg.

Drainage area--640 sq mi, approximately.

Records available--July 1942 to September 1954.

Gage--Staff gage read once daily. Datum of gage is 59.22 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark).

Average discharge--12 years, 311 cfs.

Extremes--Maximum discharge during year, 819 cfs Jan. 3-5 (gage height, 4.24 ft); minimum, 254 cfs Sept. 25 (gage height, 2.17 ft).

1942-54: Maximum discharge, that of Jan. 3-5, 1954; minimum, 74 cfs June 23-26, 1943; minimum gage height observed, 1.16 ft June 26, 1943.

Maximum stage known, about 6.4 ft in 1926, from information by local resident.

Remarks--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge,
in cubic feet per second)

Oct. 1 to Dec. 29

Dec. 30 to Sept. 30

3.7	559	2.1	248	3.0	397
4.2	805	2.5	290	4.3	839

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	571	621	645	795	744	669	570	451	357	327	309	284
2	*568	621	627	795	744	666	557	448	350	329	311	279
3	574	621	627	819	744	662	550	441	352	325	*311	276
4	577	621	638	819	744	649	547	445	367	319	307	276
5	580	621	697	819	730	638	547	441	376	316	306	276
6	594	621	697	815	727	635	540	438	373	316	306	275
7	600	605	697	808	727	635	536	428	373	312	304	274
8	600	600	692	805	720	635	533	424	364	318	306	270
9	600	600	692	805	720	635	530	417	362	319	306	265
10	594	594	692	805	720	635	516	*407	360	319	306	264
11	611	605	692	805	720	635	516	397	352	316	306	264
12	611	594	692	805	717	632	516	397	352	321	309	264
13	616	594	697	795	700	625	516	411	344	323	306	261
14	611	594	735	795	700	628	506	428	*340	321	303	*260
15	611	605	708	795	700	618	502	421	342	321	298	262
16	611	605	708	795	*700	601	502	404	338	319	294	261
17	611	611	692	798	700	594	492	394	336	323	291	261
18	611	611	681	788	696	594	479	394	327	318	290	261
19	627	605	675	788	789	594	472	391	323	314	289	261
20	627	605	675	788	693	615	458	365	323	312	286	258
21	616	605	697	788	700	615	468	373	323	309	284	257
22	616	616	697	788	693	604	455	362	323	307	284	258
23	616	621	794	781	689	601	455	362	323	304	283	258
24	621	627	794	771	689	598	455	352	321	300	280	255
25	627	*670	794	768	686	594	455	342	321	298	279	254
26	621	659	794	771	683	591	451	342	318	301	277	262
27	621	659	794	771	679	591	451	342	312	306	277	263
28	648	659	794	768	679	584	448	338	311	311	283	264
29	638	643	*805	757	-	*577	441	340	307	309	284	274
30	627	643	802	757	-----	577	438	357	306	309	286	270
31	627	-----	802	754	-----	577	-----	352	-----	306	285	-----
Total	18,883	18,556	22,224	24,511	19,833	19,104	14,902	12,224	10,176	9,748	9,146	7,967
Mean	609	619	717	791	708	616	497	394	339	314	295	266
Cfs/m	0.952	0.967	1.12	1.24	1.11	0.962	0.777	0.616	0.530	0.491	0.461	0.416
In.	1.10	1.08	1.29	1.42	1.15	1.11	0.97	0.71	0.59	0.57	0.53	0.46

Calendar year 1953: Max 805 Min 197 Mean 380 Cfs/m 0.594 In. 8.05
Water year 1953-54: Max 819 Min 254 Mean 513 Cfs/m 0.802 In. 10.88

* Discharge measurement made on this day.

Oklawaha River at Moss Bluff, Fla.

Location.--Lat 29°05', long 81°53', in sec. 22 or 23, T. 16 S., R. 24 E., on left bank 25 ft upstream from old channel, 300 ft upstream from highway bridge, 600 ft downstream from powerplant, and 0.4 mile southwest of Moss Bluff. Records include flow of old Oklawaha River channel.

Drainage area.--910 sq mi, approximately.

Records available.--February to September 1943 (discharge measurements only), October 1943 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level (Corps of Engineers benchmark). Prior to Aug. 12, 1943, staff gage at same site and datum.

Average discharge.--11 years, 400 cfs.

Extremes.--Maximum discharge during year, 1,060 cfs Jan. 11, 12; maximum gage height, 49.49 ft Jan. 11; minimum daily discharge, 243 cfs Sept. 21.
1943-54: Maximum discharge, that of Jan. 11, 12, 1954; maximum gage height, that of Jan. 11, 1954; minimum discharge, 42 cfs Nov. 26, 1943 (gage height, 40.90 ft); minimum daily, 90 cfs Dec. 12, 1943.

Remarks.--Records fair. Flow regulated by powerplant above station. Normal limits of regulation of reservoir insufficient to affect monthly figures of runoff.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Nov. 6,
June 23 to Sept. 30)

43.3	234
47.0	690
49.5	1,060

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	774	772	800	957	1,010	855	716	516	398	376	379	347
2	*772	772	*798	983	998	848	888	528	397	379	373	347
3	780	778	800	970	954	843	657	508	394	377	*382	342
4	776	782	819	972	930	830	661	506	408	388	380	347
5	778	795	873	974	884	822	654	500	409	391	378	354
6	774	792	872	970	840	824	654	486	409	366	377	349
7	762	776	860	963	834	825	651	478	400	377	377	340
8	752	765	848	975	836	825	651	478	396	386	395	341
9	760	772	846	1,020	838	819	646	476	392	386	384	335
10	742	778	844	1,040	840	806	639	464	396	386	382	352
11	746	778	838	1,050	838	802	643	446	404	402	380	337
12	734	778	840	*1,050	832	802	636	*439	401	467	383	344
13	738	784	843	1,040	826	804	a580	458	406	456	377	285
14	736	776	860	*1,040	831	807	a560	463	*398	444	376	*248
15	741	772	849	1,050	831	789	a550	460	395	436	392	246
16	744	765	843	1,040	*828	778	a540	462	390	432	368	250
17	752	780	834	1,030	825	777	a530	452	389	430	368	245
18	753	777	836	1,040	813	774	a520	451	392	431	365	250
19	748	782	840	1,040	798	784	a520	448	401	415	364	257
20	740	776	854	1,040	818	808	a510	442	409	408	360	244
21	741	780	868	1,040	855	801	510	422	394	403	353	243
22	752	780	892	1,040	849	788	511	396	389	398	348	249
23	762	783	972	1,040	840	784	512	408	384	395	342	249
24	753	786	993	1,020	848	780	517	391	385	392	341	249
25	753	822	957	1,020	848	777	526	388	384	395	340	250
26	768	822	956	1,030	846	759	506	386	383	385	338	263
27	774	816	975	1,040	848	754	509	388	386	390	338	259
28	782	812	*1,000	1,030	852	752	504	386	377	388	340	259
29	792	806	*999	1,020	-	*752	500	391	376	383	335	259
30	786	801	993	1,020	-	744	500	396	373	377	352	259
31	783	-	982	1,010	-	728	-	398	-	380	346	-
Total	23,548	23,558	27,384	31,534	23,990	24,641	17,299	13,809	11,815	12,419	11,321	8,679
Mean	760	785	883	1,017	857	795	577	445	394	401	365	289
Cfsm	0.835	0.863	0.970	1.12	0.942	0.874	0.634	0.489	0.433	0.441	0.401	0.318
In.	0.96	0.96	1.12	1.29	0.98	1.01	0.71	0.56	0.48	0.51	0.46	0.35
Calendar year 1953: Max	1,000				Min 138	Mean 461	Cfsm 0.507	In. 6.86				
Water year 1953-54: Max	1,050				Min 243	Mean 630	Cfsm 0.692	In. 9.39				

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Oklawaha River near Ocala.

Oklawaha River near Ocala, Fla.

Location.--Lat 29°11', long 82°00', in sec. 15, T. 15 S., R. 23 E., on left bank 15 ft upstream from highway bridge known as Sharpes Ferry, 2 miles upstream from Silver River, and 9 miles east of Ocala.

Drainage area.--1,100 sq mi, approximately.

Records available.--February 1930 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 36.52 ft above mean sea level, datum of 1929, supplementary adjustment of 1937 (Corps of Engineers benchmark). Prior to Mar. 2, 1932, staff gage at same site and datum.

Average discharge.--24 years, 413 cfs.

Extremes.--Maximum discharge during year, 1,470 cfs Dec. 24 (gage height, 4.55 ft); minimum, 249 cfs Sept. 21, 22 (gage height, 0.57 ft).
1930-54: Maximum discharge, 1,810 cfs June 15, 1934; maximum gage height, 5.52 ft Sept. 6, 1933; minimum discharge, 41 cfs May 7, 1939; minimum gage height, -1.76 ft Aug. 2, 1932.

Remarks.--Records fair. Some diurnal fluctuation and slight regulation at low flow caused by powerplant at Moss Bluff, 12 miles above station. Large seepage losses above station during prolonged periods of low flow.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Aug. 20 to Sept. 5)

Oct. 1 to Aug. 19

Aug. 20 to Sept. 30

1.2	355	0.5	241
2.0	479	1.1	315
3.0	745	1.6	383
4.6	1,500		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	989	820	855	1,150	1,050	942	718	496	386	367	382	341
2	1,010	812	853	1,120	1,050	933	705	504	394	379	378	342
3	1,000	804	845	1,110	1,040	905	685	508	384	367	378	337
4	970	800	879	1,100	1,010	883	660	502	397	364	378	334
5	*956	812	999	1,080	980	861	651	498	418	373	382	337
6	951	816	999	1,080	946	845	634	490	404	367	376	340
7	928	812	994	1,070	905	855	634	472	409	352	378	336
8	914	804	985	1,070	905	870	631	466	391	373	408	346
9	910	793	965	1,070	896	853	625	458	376	365	*428	333
10	896	804	951	1,080	874	845	625	455	370	404	430	320
11	870	804	942	1,110	874	820	619	445	404	396	416	324
12	853	800	928	1,150	865	808	611	438	420	410	410	333
13	849	797	914	1,140	853	812	592	445	409	422	406	314
14	824	793	942	1,120	845	804	571	465	398	426	391	272
15	816	793	951	1,110	*849	800	559	456	397	424	386	275
16	816	793	946	1,120	853	800	559	445	382	420	382	277
17	808	789	919	1,110	840	781	542	442	376	415	372	263
18	800	a790	905	1,100	836	767	533	*434	*380	410	372	257
19	797	a790	896	1,090	824	785	524	428	392	408	378	261
20	797	a790	896	1,080	820	857	511	427	386	398	367	*258
21	789	a790	905	1,100	836	849	530	416	395	388	360	251
22	781	a790	942	1,100	861	828	519	396	385	382	353	251
23	777	a790	1,280	1,080	865	808	511	384	376	380	370	253
24	777	*828	1,460	1,070	861	797	524	365	366	382	360	253
25	770	865	1,340	1,080	870	777	528	378	367	382	345	255
26	770	874	1,250	1,100	861	763	524	373	364	391	341	278
27	777	879	1,200	1,080	861	752	526	373	361	398	340	327
28	816	874	*1,170	1,080	879	752	504	370	360	453	357	322
29	856	870	1,200	1,090	879	749	480	370	355	415	345	312
30	828	861	1,200	1,070	855	*738	498	373	361	396	360	287
31	820	-----	1,180	1,050	-----	738	-----	376	-----	391	353	-----
Total	26,495	24,437	31,701	33,980	25,009	25,387	17,343	13,468	11,553	12,208	11,662	8,989
Mean	855	815	1,023	1,096	893	819	578	434	385	394	376	300
Cfsm	0.777	0.741	0.930	0.996	0.812	0.745	0.525	0.395	0.350	0.358	0.342	0.273
In.	0.90	0.83	1.07	1.15	0.85	0.86	0.59	0.46	0.39	0.41	0.39	0.30

Calendar year 1953: Max 1,460 Min 206 Mean 539 Cfsm 0.490 In. 6.66
Water year 1953-54: Max 1,460 Min 251 Mean 664 Cfsm 0.604 In. 8.20

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Oklawaha River near Moss Bluff.

Silver Springs near Ocala, Fla.

Location.--Measuring point for discharge measurements at lat 29°13, long 82°02', in sec. 6, T. 15 S., R. 23 E., 700 ft downstream from Paradise Landing, 0.7 mile downstream from head of springs, and 6.0 miles northeast of Ocala.

Records available.--January 1933 to September 1954.

Gage.--Water-stage recorder on Sharpes Perry artesian well about 400 ft east of Oklawaha River, 2 miles upstream from Silver River, and 4.2 miles southeast of head of springs. Datum of gage is 42.36 ft above mean sea level, datum of 1929, supplementary adjustment of 1937 (Corps of Engineers benchmark). Prior to July 22, 1947, staff gage at same site and datum. Supplementary water-stage recorder at head of springs in boat repair basin. Datum of gage is 38.96 ft above mean sea level, datum of 1929. Prior to Feb. 20, 1947, supplementary staff gage at same site and datum.

Average discharge.--21 years, 837 cfs.

Extremes.--Maximum daily discharge during year, 1,040 cfs Jan. 10, 11, 16; maximum gage height at head of springs, 3.15 ft Dec. 24; minimum daily discharge, 757 cfs Sept. 13; minimum gage height at head of springs, 1.02 ft Sept. 14.

1933-54: Maximum discharge, 1,150 cfs Nov. 2-4, 1950; maximum gage height observed at head of springs, 5.50 ft Sept. 6, 1933; minimum daily discharge, 627 cfs Mar. 31, Apr. 1, 1933; minimum gage height observed at head of springs, 0.06 ft June 22, 1945.

Remarks.--Records good. Surface inflow between head of springs and measuring site is negligible. Discharge computed from relation between artesian pressure at Sharpes Perry well and discharge at measuring point.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	987	1,010	970	1,000	1,010	971	925	880	839	795	774	763
2	993	1,010	969	1,010	1,020	984	922	882	839	794	774	761
3	998	1,010	971	1,020	1,030	965	922	885	836	795	772	761
4	1,010	1,010	973	1,020	1,020	957	919	886	835	795	770	760
5	1,020	1,020	972	1,030	1,010	961	917	882	831	796	770	759
6	1,010	1,010	973	1,030	1,020	964	918	877	826	796	770	761
7	1,010	1,000	967	1,020	1,000	962	919	874	827	793	769	763
8	1,010	1,000	968	1,020	1,010	961	919	870	828	791	768	764
9	1,020	1,000	973	1,030	1,010	967	916	866	826	793	768	766
10	1,020	1,000	973	1,040	1,000	966	910	866	826	793	769	766
11	1,020	998	970	1,040	1,000	963	910	868	826	790	770	763
12	1,020	*996	974	1,020	991	959	911	869	822	788	768	760
13	1,020	993	979	1,020	984	956	910	873	819	785	765	757
14	1,020	992	972	1,020	985	959	911	866	819	784	764	759
15	1,020	994	958	1,030	967	945	909	859	820	783	764	761
16	1,030	994	959	1,040	990	936	911	856	819	782	766	761
17	1,020	992	958	1,030	993	938	904	857	816	781	767	760
18	1,020	989	957	1,020	989	946	897	858	815	780	766	760
19	1,020	990	961	1,030	987	953	896	857	816	780	766	761
20	1,030	993	970	1,030	986	956	896	857	814	780	767	760
21	1,030	990	978	1,030	987	950	897	849	812	780	766	760
22	1,030	988	972	1,030	980	938	897	846	809	779	763	761
23	1,030	990	978	1,020	980	938	896	844	808	780	763	761
24	1,030	990	970	1,020	990	936	894	844	808	780	766	762
25	1,030	988	979	1,020	982	936	892	844	807	777	768	762
26	1,020	974	982	1,020	981	935	892	842	806	775	768	763
27	1,020	970	987	1,020	977	936	894	845	806	775	766	763
28	1,030	968	996	1,020	984	935	894	847	806	776	765	761
29	1,020	967	1,000	1,020	-	933	888	842	804	773	768	759
30	1,010	970	1,000	1,020	-----	931	883	837	798	771	769	*758
31	1,010	-----	1,000	1,020	-----	928	-----	837	-----	771	766	-----
Total	31,558	29,796	30,209	31,740	27,983	29,445	27,169	26,665	24,563	24,311	23,796	22,836
Mean	1,018	993	974	1,024	996	950	906	860	819	784	768	761
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-
Calendar year 1953: Max	1,030				730	Mean	836	Cfsm	-	In.	-	
Water year 1953-54: Max	1,040				757	Mean	904	Cfsm	-	In.	-	

* Discharge measurement made on this day.

Orange Lake Outlet near Citra, Fla.

Location.--Lat 29°26', long 82°07', in sec. 21, T. 12 S., R. 22 E., on left bank 15 ft upstream from bridge on U. S. Highway 301 and State Highway 200, 0.8 mile south of Island Grove, and 1.5 miles north of Citra.

Drainage area.--Indeterminate. Total drainage area of Orange Lake Outlet and Lochloosa Lake Outlet above highway is 323 sq mi.

Records available.--January 1947 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 53.41 ft above mean sea level, datum of 1929. Prior to Mar. 27, 1947, staff gage at same site and datum.

Average discharge.--7 years, 129 cfs.

Extremes.--Maximum discharge during year, 467 cfs Oct. 10 (gage height, 6.26 ft); minimum, 7.4 cfs Sept. 14 (gage height, 2.89 ft).

1947-54: Maximum discharge, 677 cfs Mar. 17-24, 1948; maximum gage height, 7.81 ft Mar. 17, 1948; minimum discharge, 1.2 cfs June 27, 1950; minimum gage height, that of Sept. 14, 1954.

Maximum discharge measured, 976 cfs Nov. 10, 1941.

Remarks.--Records good. Orange and Lochloosa Lakes are connected by Cross Creek through which there may be a natural diversion from one lake to the other.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1-8		Oct. 9 to Sept. 30	
5.9	365	2.9	7.6
6.2	450	3.0	9.2
		3.5	18
		4.0	30
		4.5	65
		5.0	177
		6.3	476

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	390	356	255	414	345	232	140	99	38	22	19	11
2	405	354	246	416	338	215	138	98	37	21	*19	11
3	416	345	239	423	333	212	136	94	36	21	18	10
4	433	340	248	425	331	214	131	92	40	21	18	10
5	450	338	269	428	322	205	126	87	43	21	17	9.5
6	447	340	269	432	315	200	124	81	41	20	17	9.2
7	442	331	274	*428	308	200	131	75	39	20	17	8.9
8	442	324	271	423	315	191	124	71	38	22	17	8.4
9	458	317	271	418	310	188	126	65	38	22	16	8.2
10	460	317	271	414	301	186	126	63	37	22	16	7.9
11	448	313	267	418	297	179	126	*58	36	22	16	7.9
12	*444	306	267	421	290	175	124	55	35	23	15	8.0
13	439	301	271	409	285	172	122	58	35	22	15	7.7
14	439	297	290	405	278	172	120	57	34	22	15	8.0
15	439	292	285	402	*276	172	120	53	*33	22	14	8.4
16	435	287	276	402	271	166	120	51	32	21	14	8.0
17	430	283	276	402	269	154	124	49	31	21	14	7.9
18	428	276	274	396	264	147	113	48	30	20	13	8.0
19	423	283	267	393	258	152	103	47	29	20	13	8.4
20	418	287	267	391	251	170	96	44	29	20	12	*8.2
21	414	287	267	389	253	170	94	42	29	19	12	8.2
22	407	283	269	389	253	166	92	39	28	19	12	8.0
23	402	280	322	384	244	159	106	37	27	19	12	8.0
24	396	*280	338	377	237	156	120	36	26	19	11	8.2
25	389	294	354	375	244	152	117	34	25	20	11	8.2
26	382	283	370	370	232	149	113	34	25	21	11	8.2
27	377	274	370	366	225	147	110	32	24	20	10	8.2
28	384	267	379	363	223	147	108	32	24	20	10	8.2
29	368	284	366	356	---	147	108	32	23	20	11	9.0
30	372	260	393	352	---	*147	103	34	22	20	11	8.5
31	363	---	407	350	---	145	---	38	---	19	11	---
Total	12,958	9,059	9,208	12,331	7,868	5,388	3,541	1,733	964	641	437	257.3
Mean	418	302	297	398	281	174	118	55.9	32.1	20.7	14.1	8.58
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-
Calendar year 1953: Max 460 Min 6.3 Mean 131 Cfsm - In. -												
Water year 1953-54: Max 460 Min 7.7 Mean 176 Cfsm - In. -												

* Discharge measurement made on this day.

Lochloosa Lake Outlet near Lochloosa, Fla.

Location.--Lat 29°29'10", long 82°06'10", in sec. 3, T. 12 S., R. 22 E., on right bank at upstream side of wing wall of culvert on U. S. Highway 301 and State Highway 200, 1.3 miles south of Lochloosa and 2.4 miles north of Island Grove.

Drainage area.--Indeterminate. Total drainage area of Orange Lake Outlet and Lochloosa Lake Outlet above highway is 323 sq mi.

Records available.--January 1947 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 55.41 ft above mean sea level, datum of 1929. Prior to Mar. 28, 1947, staff gage at same site and datum.

Average discharge.--7 years, 33.8 cfs.

Extremes.--Maximum discharge during year, 108 cfs Oct. 1, 2, 3, occurred on recession following peak of Sept. 30, 1953; maximum independent peak discharge, 98 cfs Jan. 11 (gage height, 4.48 ft); no flow for many days.
1947-54: Maximum discharge, 341 cfs Mar. 12, 13, 1948 (gage height, 6.04 ft); no flow for many days.

Remarks.--Records fair except those below 5.0 cfs, which are poor. Orange and Lochloosa Lakes are connected by Cross Creek through which there may be a natural diversion of flow from one lake to the other.

Rating table, water year 1953-54 (gage height, in feet, and
discharge, in cubic feet per second)
(Shifting-control method used Dec. 31 to Jan. 17)

2.63	0	3.5	17
2.7	.4	3.6	24
2.8	1.2	3.8	40
3.0	3.6	4.0	61
3.2	6.7	4.5	114
3.4	12		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	107	78	36	91	73	31	8.3	2.9	0.2	0		
2	108	76	33	91	72	27	7.8	2.7	0	0	(*)	
3	107	74	32	94	70	25	7.2	2.5	0	0		
4	101	72	36	95	70	24	6.5	2.1	.6	0		
5	102	72	48	96	68	21	6.2	2.0	.8	0		
6	105	72	45	97	65	20	*5.8	1.8	.4	0		
7	a106	68	46	*96	63	19	6.4	1.6	.3	0		
8	a101	65	44	94	64	17	6.4	1.2	.2	0		
9	a104	63	43	92	64	16	6.2	1.1	0	0		
10	a107	63	43	92	61	16	6.0	.8	0	0		
11	a107	61	42	96	59	16	5.8	.6	0	0		
12	*106	59	41	96	57	15	5.5	.7	.1	0		
13	106	57	43	94	53	14	5.5	1.2	.2	0		
14	104	54	49	92	49	14	5.1	1.1	0	0		
15	105	a52	52	92	*48	14	4.8	.9	*0	0		
16	105	50	47	92	46	12	5.0	.7	0	0		
17	104	a48	45	92	45	10	5.0	.5	0	0		
18	103	a46	43	90	44	9.3	4.7	.4	0	0		
19	102	a47	40	89	40	10	4.2	.2	0	0		
20	101	a48	40	88	38	14	3.8	.2	0	0		(*)
21	99	a46	40	87	39	14	3.6	0	0	0		
22	97	43	42	87	38	12	3.3	0	0	0		
23	95	a42	70	87	35	12	3.4	0	0	0		
24	92	*43	77	83	34	11	4.1	0	0	0		
25	90	49	80	80	36	10	4.2	0	0	.3		
26	87	47	83	80	32	10	4.1	0	0			
27	85	44	83	80	32	9.0	3.8	0	0	.4		
28	88	42	83	79	30	9.3	3.6	0	0	.2		
29	90	39	84	77	-	9.3	3.3	0	0	0		
30	85	37	86	75	-	8.8	3.1	0	0	0		
31	81	-	90	74	-	8.5	-	.1	-	0		
Total	3,080	1,657	1,666	2,748	1,425	458.2	152.7	25.1	2.8	0.9	0	0
Mean	99.4	55.2	53.7	88.6	50.9	14.8	5.09	0.81	0.09	0.03	0	0
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-
Calendar year 1953: Max 108 Min 0 Mean 22.4 Cfsm - In. -												
Water year 1953-54: Max 108 Min 0 Mean 30.7 Cfsm - In. -												

* Discharge measurement or observation of no flow made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and records for Orange Lake Outlet near Citrus.

Oklawaha River at Riverside Landing, near Orange Springs, Fla.

Location.--Lat 29°30', long 81°48', in sec. 33, T. 11 S., R. 25 E., on right bank at Riverside Landing, 8½ miles east of Orange Springs.

Drainage area.--2,100 sq mi, approximately.

Records available.--October 1943 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers benchmark).

Average discharge.--11 years, 2,215 cfs.

Extremes.--Maximum discharge during year, 5,480 cfs Oct. 4 (gage height, 8.30 ft); minimum, 1,220 cfs Sept. 25 (gage height, 5.01 ft).

1943-54: Maximum discharge, 7,320 cfs Sept. 10, 1950 (gage height, 9.50 ft); minimum, 956 cfs June 3, 4, 6-13, 1945; minimum gage height, 3.97 ft June 17, 18, 1945.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Mar. 5		Mar. 6 to Sept. 30	
6.7	2,900	5.0	1,220
7.5	4,190	5.5	1,520
8.3	5,480	6.0	1,890
		6.7	2,900

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,980	3,410	*3,160	4,560	3,520	2,940	2,550	1,910	1,640	1,470	1,540	1,350
2	5,240	3,390	3,120	4,390	3,500	2,920	2,510	1,870	1,610	1,450	*1,500	1,390
3	5,400	3,360	3,100	4,230	3,490	2,920	2,470	1,850	1,570	1,400	1,440	1,390
4	5,450	3,330	3,160	4,190	3,460	2,900	2,440	1,830	1,570	1,410	1,390	1,400
5	5,370	3,310	3,390	4,100	3,420	2,900	*2,420	1,810	1,600	1,440	1,360	1,420
6	5,220	3,280	3,550	*4,050	3,390	2,870	2,400	1,770	1,600	1,420	1,330	1,360
7	4,980	3,260	3,630	4,000	3,380	2,870	2,380	1,750	1,600	1,410	1,330	1,320
8	4,820	3,230	3,700	3,950	3,390	2,860	2,350	1,730	1,590	1,410	1,410	1,290
9	4,960	3,200	3,760	3,900	3,360	2,830	2,330	1,720	1,580	1,450	1,460	1,270
10	5,030	3,200	3,780	3,870	3,360	2,820	2,290	1,700	1,540	1,490	1,460	1,260
11	4,910	3,200	3,710	3,850	3,310	2,790	2,250	*1,680	1,520	1,520	1,480	1,280
12	4,720	3,170	3,650	3,820	3,280	2,750	2,210	1,690	1,510	1,540	1,480	1,330
13	4,530	3,160	3,600	3,800	3,220	2,750	2,170	1,790	1,550	1,540	1,470	*1,320
14	4,330	3,140	3,570	3,780	3,170	2,720	2,160	1,800	1,530	1,520	1,440	1,340
15	4,140	3,120	3,550	3,780	3,120	2,690	2,120	1,810	*1,510	1,490	1,430	1,360
16	4,000	3,110	3,540	3,800	3,080	2,650	2,110	1,810	1,510	1,480	1,390	1,340
17	3,870	3,080	3,490	3,800	3,050	2,620	2,110	1,790	1,510	1,460	1,360	1,320
18	3,760	3,050	3,420	3,800	3,020	2,610	2,100	1,750	1,490	1,450	1,340	1,300
19	3,680	3,020	3,380	3,800	2,980	2,650	2,070	1,720	1,480	1,440	1,330	1,330
20	*3,600	2,990	3,340	3,780	2,980	2,800	2,070	1,670	1,510	1,420	1,320	1,300
21	3,550	2,990	3,310	3,780	3,050	2,890	2,110	1,640	1,520	1,390	1,300	1,280
22	3,500	2,980	3,300	3,760	3,000	2,900	2,070	1,610	1,510	1,390	1,300	1,260
23	3,460	2,960	3,760	3,730	2,980	2,890	2,030	1,580	1,480	1,420	1,330	1,240
24	3,420	3,000	4,290	3,710	*2,940	2,850	1,990	1,570	1,480	1,510	1,340	1,240
25	3,380	3,160	4,630	3,680	2,940	2,800	1,980	1,550	1,460	1,670	1,340	1,250
26	3,330	3,180	4,980	3,680	2,920	2,730	1,980	1,540	1,440	1,680	1,340	1,290
27	3,280	3,200	5,230	3,650	2,900	2,680	1,990	1,540	1,420	1,680	1,320	1,400
28	3,340	3,200	5,280	3,630	2,900	2,660	1,980	1,520	1,410	1,660	1,330	1,460
29	3,410	3,200	5,150	3,600	-	2,650	1,940	1,540	1,410	1,640	1,420	1,460
30	3,420	3,180	4,950	3,570	-----	2,620	1,930	1,600	1,410	1,600	1,370	1,460
31	3,420	-----	4,740	3,550	-----	2,590	-----	1,660	-----	1,580	1,350	-----
Total	130,500	95,080	119,220	119,650	89,130	86,130	65,510	52,800	45,560	46,420	43,040	40,010
Mean	4,210	3,169	3,846	3,860	3,183	2,778	2,184	1,703	1,519	1,497	1,388	1,334
Cfsm	2.00	1.51	1.83	1.84	1.52	1.32	1.04	0.81	0.723	0.713	0.661	0.635
In.	2.31	1.68	2.11	2.12	1.58	1.53	1.16	0.94	0.81	0.82	0.76	0.71

Calendar year 1953: Max 5,450 Min 1,180 Mean 2,368 Cfsm 1.13 In. 15.30
 Water year 1953-54: Max 5,450 Min 1,240 Mean 2,556 Cfsm 1.22 In. 16.53

* Discharge measurement made on this day.

Little Haw Creek near Seville, Fla.

Location.--Lat 29°19', long 81°23', in sec. 32, T. 13 S., R. 29 E., on right bank 600 ft downstream from bridge on State Highway 305, 1.4 miles downstream from Lake Disston, and 6.4 miles east of Seville.

Drainage area.--120 sq mi, approximately.

Records available.--January 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 5.74 ft above mean sea level, datum of 1929. Prior to Jan. 5, 1953, at site 600 ft upstream at same datum.

Extremes.--Maximum discharge during year, 759 cfs Oct. 10 (gage height, 7.93 ft); minimum, 2.9 cfs Sept. 12, 13 (gage height, 1.22 ft).

1951-54: Maximum discharge, 1,490 cfs Sept. 24, 1953 (gage height, 8.72 ft); minimum, 0.2 cfs July 31, Aug. 1, 2, 1952.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.2	2.8	4.0	86
1.4	3.9	5.0	155
1.6	5.5	6.0	281
2.0	12	7.0	479
2.5	24	8.0	800
3.0	42		

Discharge, in cubic feet per second, water year October 1952 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*709	256	86	319	56	28	17	12	5.0	7.2	7.0	*3.9
2	668	240	84	296	53	24	16	12	4.4	4.9	9.3	3.7
3	649	222	82	279	51	22	15	12	4.9	4.2	8.4	3.6
4	617	207	104	262	48	20	14	13	7.9	3.9	7.7	3.6
5	615	195	202	244	44	18	13	13	7.7	<u>3.8</u>	7.2	3.5
6	636	185	202	228	40	19	12	13	4.9	3.8	6.8	3.3
7	606	170	190	207	38	22	14	13	4.4	5.5	14	3.2
8	603	156	176	192	*43	20	15	13	4.1	15	21	3.1
9	704	147	169	180	42	19	13	12	3.8	13	17	3.1
10	754	137	162	173	38	19	12	11	<u>3.6</u>	9.5	16	3.1
11	742	137	151	172	36	19	11	11	4.6	10	16	3.0
12	723	128	144	168	36	19	10	11	12	15	17	3.0
13	704	*122	143	149	33	19	9.5	14	20	11	16	4.6
14	679	117	174	138	32	20	9.1	14	*7.7	9.3	14	4.8
15	653	113	160	132	32	21	8.4	12	6.0	11	13	4.7
16	633	110	142	128	31	19	8.1	11	5.1	11	12	3.9
17	615	105	*134	123	31	17	8.6	9.5	4.7	9.3	10	3.7
18	592	100	126	113	30	16	7.2	8.6	4.8	8.6	9.3	3.6
19	570	95	119	107	28	19	6.6	7.7	11	7.9	8.6	3.7
20	551	90	116	103	28	<u>30</u>	8.2	7.6	13	7.0	7.7	3.5
21	525	85	124	99	33	25	15	7.0	7.4	*6.3	6.8	3.1
22	501	82	131	98	30	*23	18	5.6	5.6	5.8	7.2	4.1
23	472	80	356	92	27	22	13	5.1	5.1	5.5	14	10
24	446	80	514	83	26	21	12	4.8	4.8	6.6	8.4	13
25	418	111	514	78	29	21	11	4.5	4.8	7.2	6.4	6.8
26	387	105	486	76	25	20	12	4.4	13	6.8	5.3	6.2
27	358	94	453	74	24	19	11	4.9	7.6	10	4.8	7.6
28	341	90	422	71	24	19	10	5.0	5.4	13	4.6	7.7
29	331	88	399	64	-	20	*12	5.5	4.8	9.5	4.9	5.9
30	300	86	374	61	-----	19	13	7.9	4.9	7.6	5.4	4.9
31	275	-----	348	59	-----	18	-----	5.8	-----	7.0	4.4	-----
Total	17,377	3,935	6,987	4,568	988	637	354.7	290.9	203.0	256.2	310.2	141.7
Mean	561	131	225	147	35.3	20.5	11.8	9.38	6.77	8.26	10.0	4.72
Cfsm	4.68	1.09	1.88	1.22	0.294	0.171	0.098	0.078	0.056	0.069	0.083	0.039
In.	5.39	1.22	2.17	1.42	0.31	0.20	0.11	0.09	0.06	0.08	0.10	0.04
Calendar year 1953: Max	1,580				Min 2.3	Mean	201	Cfsm	1.68	In.	22.79	
Water year 1953-54: Max	754				Min 3.0	Mean	98.8	Cfsm	0.823	In.	11.19	

* Discharge measurement made on this day.

South Fork Black Creek near Penney Farms, Fla.

Location.--Lat 29°59', long 81°51', in sec. 13, T. 6 S., R. 24 E., on right bank 20 ft downstream from bridge on State Highway 16, half a mile downstream from Greens Creek, 2½ miles west of Penney Farms, and 10 miles west of Green Cove Springs.

Drainage area.--134 sq mi.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 9.82 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to July 18, 1940, staff gage at same site and datum.

Average discharge.--15 years, 165 cfs.

Extremes.--Maximum discharge during year, 2,550 cfs Dec. 24 (gage height, 15.89 ft); minimum, 19 cfs Aug. 16, 17, 18, 27, 28; minimum gage height, 0.52 ft Aug. 18.
1939-54: Maximum discharge, 13,900 cfs Oct. 19, 1944 (gage height, 26.33 ft, from floodmarks), from rating curve extended above 8,000 cfs; minimum, 15 cfs Nov. 8-10, 13, 14, 1940, June 14-16, 1951; minimum gage height, that of Aug. 18, 1954.

Remarks.--Records good except those for period of doubtful or no gage-height record, which are fair.

Revisions.--WSP 1234: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.5	18	10.0	810
1.0	55	12.0	1,080
2.0	83	14.0	1,570
3.0	149	16.0	2,630
5.0	330		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	341	a130	89	357	100	102	59	62	50	56	22	*24
2	363	a120	86	287	96	94	58	53	38	49	21	25
3	469	a110	85	244	91	90	58	48	33	33	21	25
4	689	a100	181	218	89	84	56	48	34	28	20	23
5	843	a120	579	198	87	80	54	50	39	26	20	22
6	709	a150	584	181	84	81	52	41	33	25	20	21
7	434	a210	353	164	85	91	60	38	30	24	20	21
8	317	a190	264	155	121	84	79	37	28	27	22	21
9	552	a170	210	145	141	80	62	36	27	37	26	20
10	970	a160	178	138	127	77	58	35	27	39	22	20
11	657	*147	158	152	112	73	57	34	*28	90	22	22
12	376	136	145	159	115	71	54	35	31	81	22	28
13	277	122	168	147	108	69	58	52	30	48	20	27
14	224	113	418	138	102	69	56	50	29	34	20	33
15	191	107	418	151	96	69	52	41	28	30	20	58
16	172	103	*259	127	93	65	49	37	26	28	19	42
17	155	99	202	124	90	63	47	35	25	27	19	35
18	159	94	167	118	87	63	43	34	24	26	19	33
19	199	92	147	114	84	*84	41	32	24	28	28	33
20	186	90	135	112	82	239	42	31	27	*26	24	29
21	155	91	128	113	161	210	58	31	29	24	21	29
22	137	91	143	122	300	138	138	30	27	23	21	28
23	127	94	1,290	126	188	106	181	29	25	23	21	30
24	119	96	1,950	126	134	93	109	29	24	24	21	32
25	111	135	1,190	124	150	85	109	29	23	26	21	32
26	105	135	1,340	121	138	78	101	29	28	27	20	36
27	102	114	922	117	121	73	82	30	35	35	20	80
28	121	101	531	111	106	69	*66	30	28	31	19	87
29	147	94	378	104	-	69	57	33	27	27	44	82
30	a150	91	337	102	-	64	78	63	36	24	31	48
31	a140	-	370	100	-	62	-	62	-	23	25	-
Total	9,697	3,605	13,385	4,671	3,266	2,775	2,074	1,224	893	1,049	691	1,026
Mean	313	120	432	151	117	89.5	69.1	39.5	29.8	33.8	22.3	34.2
Cfsm	2.34	0.896	3.22	1.13	0.873	0.668	0.516	0.295	0.222	0.252	0.166	0.255
In.	2.69	1.00	5.71	1.30	0.91	0.77	0.58	0.34	0.25	0.29	0.19	0.28
Calendar year 1953: Max	4,200			Min 29				Cfsm	2.10	In.	28.48	
Water year 1953-54: Max	1,950			Min 19			Mean 122	Cfsm	0.910	In.	12.31	

Peak discharge (base, 1,300 cfs).--Dec. 24 (1 a.m.) 2,550 cfs (15.89 ft).

* Discharge measurement made on this day.

a Doubtful or no gage-height record; discharge estimated on basis of recorded range in stage, and records for North Fork Black Creek near Middleburg.

North Fork Black Creek near Middleburg, Fla.

Location.--Lat 30°06'50", long 81°54'35", in sec. 33, T. 4 S., R. 24 E., on left bank a third of a mile upstream from Big Branch, 4 miles northwest of Middleburg, and $6\frac{1}{2}$ miles upstream from confluence with South Fork.

Drainage area.--174 sq mi.

Records available.--November 1931 to September 1954.

Gage.--Staff gage read twice daily. Datum of gage is 0.62 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Mar. 29, 1933, at site three-eighths of a mile downstream at different datum.

Average discharge.--22 years (1932-54), 174 cfs.

Extremes.--Maximum discharge during year, 2,810 cfs Dec. 26 (gage height, 15.76 ft, from Floodmark); minimum observed, 3.9 cfs Aug. 18, 19 (gage height, 0.54 ft).

1931-54: Maximum discharge, 10,400 cfs Oct. 19, 1944 (gage height, 23.76 ft, from Floodmark), from rating curve extended above 7,000 cfs; minimum observed, 3.6 cfs June 8, 1935 (gage height, 0.26 ft).

Maximum stage known, 25.3 ft in June 1919, from information by old resident (discharge, 15,000 cfs, from rating curve extended above 7,000 cfs).

Remarks.--Records good except those affected by seasonal high tides, which are fair.

Revisions (water years).--WSP 852: 1933(M). WSP 1234: Drainage area.

Rating table, water year 1953-54, except period of tide effect (gage height, in feet, and discharge, in cubic feet per second)

0.5	3.2	9.0	872
0.6	5.0	13.0	1,500
0.8	13	14.0	1,770
1.0	23	15.0	2,280
1.5	58	16.0	3,050
4.0	276		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,100	59	70	493	68	79	36	69	19	30	7.2	15
2	1,450	58	65	332	64	60	34	52	17	22	6.8	27
3	1,160	55	58	309	61	56	34	54	14	18	6.4	23
4	940	52	114	256	59	53	32	49	13	14	5.7	19
5	1,260	83	435	219	56	50	31	39	13	13	5.7	14
6	1,460	310	559	190	52	50	29	37	10	12	5.0	11
7	1,060	360	592	167	51	73	29	37	9.5	11	5.4	9.5
8	645	299	527	147	31	70	33	36	9.5	14	5.4	9.0
9	761	231	385	133	127	64	34	33	8.6	15	6.8	7.5
10	1,690	188	284	123	108	60	35	27	*7.9	41	9.0	6.8
11	1,490	*172	222	132	95	55	37	25	7.9	49	9.5	13
12	954	156	186	170	95	52	35	23	11	33	7.5	32
13	531	142	213	169	86	48	34	22	13	31	6.1	34
14	341	127	750	153	74	50	39	25	12	26	5.7	22
15	261	111	1,350	144	65	54	33	26	12	20	5.7	52
16	212	96	*1,090	129	62	50	29	26	12	16	4.8	102
17	176	82	629	118	57	46	28	23	12	13	4.5	58
18	155	72	307	110	54	*44	28	20	12	11	3.9	38
19	135	66	224	101	52	67	28	18	15	9.0	4.7	33
20	121	62	185	96	51	259	31	16	33	*7.5	4.5	26
21	113	61	164	91	52	251	45	15	37	6.8	12	21
22	104	61	171	87	52	189	65	14	26	6.4	8.2	18
23	97	61	657	90	52	144	72	13	15	6.1	5.7	16
24	92	66	1,320	92	53	111	76	12	12	9.5	4.8	19
25	86	96	1,520	91	75	78	150	11	11	10	4.6	21
26	82	122	2,440	91	88	60	150	11	25	9.0	4.6	35
27	78	108	1,850	90	88	50	160	12	28	11	4.6	80
28	74	94	1,120	83	84	45	*122	14	15	14	4.6	129
29	70	88	664	76	-	44	85	15	12	12	15	131
30	66	80	473	72	-----	41	75	16	14	9.0	25	105
31	61	-----	483	68	-----	38	-----	29	-----	7.9	*16	-----
Total	16,823	3,618	19,107	4,682	1,972	2,391	1,653	819	456.4	507.2	224.8	1,126.8
Mean	543	121	616	151	70.4	77.1	55.1	26.4	15.2	16.4	7.25	37.6
Cfsm	3.12	0.695	3.54	0.868	0.405	0.443	0.317	0.152	0.087	0.094	0.042	0.216
In.	3.60	0.77	4.08	1.00	0.42	0.51	0.35	0.18	0.10	0.11	0.05	0.24
Calendar year 1953:	Max 3,400			Min 7.5		Mean 299		Cfsm 1.72		In. 23.32		
Water year 1953-54:	Max 2,440			Min 3.9		Mean 146		Cfsm 0.839		In. 11.41		

Peak discharge (base, 1,300 cfs).--Oct. 2 (4 a.m.) 1,560 cfs (13.32 ft); Oct. 5 (11 p.m.) 1,530 cfs (13.16 ft); Oct. 10 (5 p.m.) 1,980 cfs (14.46 ft); Dec. 15 (1 p.m.) 1,480 cfs (12.92 ft); Dec. 26 (2 p.m.) 2,810 cfs (15.76 ft).

* Discharge measurement made on this day.

Note.--Stage-discharge relation affected by seasonal high tides during low stages; discharge computed on basis of effective gage heights for periods Oct. 20-29, Nov. 9-25, Apr. 17-19, July 4-7, Aug. 24-27.

Moultrie Creek near St. Augustine, Fla.

Location.--Lat 29°49'40", long 81°21'00", in sec. 11, T. 8 S., R. 29 E., on right bank 6 ft downstream from bridge on Kings Road, 0.4 mile upstream from Fort Peyton Branch, and 5 miles southwest of St. Augustine.

Drainage area.--23.3 sq mi.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder and wooden control. Datum of gage is 2.17 ft above mean sea level, datum of 1929.

Average discharge.--15 years, 24.8 cfs.

Extremes.--Maximum discharge during year, 362 cfs Oct. 9 (gage height, 6.68 ft); minimum, 0.3 cfs for several days in July, August, and September.

1939-54: Maximum discharge, 1,370 cfs Oct. 21, 1941 (gage height, 9.31 ft); minimum, 0.2 cfs May 18, 22, 26, 30, June 1, 2, 1945.

Remarks.--Records good.

Revisions.--WSP 1234: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to June 30

July 1 to Sept. 30

2.4	0.2	2.8	5.8	5.5	84	2.4	0.1
2.5	.7	3.0	14	5.8	118	2.5	.5
2.55	1.1	3.4	34	6.2	215	2.6	1.2
2.6	1.7	4.0	48	6.4	273		
2.7	3.3	5.0	68	7.0	466		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*134	20	7.2	51	6.5	7.2	2.4	1.0	1.1	0.5	0.5	0.3
2	145	19	6.8	46	5.8	6.5	2.3	1.0	.9	.5	.5	.3
3	202	17	6.5	45	5.5	6.2	2.3	1.0	1.0	.4	.5	.3
4	191	16	5.0	40	5.5	5.5	2.1	1.0	1.1	.4	.4	.4
5	199	15	22	37	*5.2	5.0	1.8	.9	1.1	.4	.4	.4
6	172	14	26	33	4.7	5.0	1.7	.9	.9	.4	.4	.4
7	134	13	24	28	4.4	5.0	1.7	.9	.9	.4	.4	.4
8	183	12	21	24	6.8	4.7	1.6	.9	.7	.4	.5	.4
9	292	11	18	21	6.8	4.7	1.3	.9	.7	.3	.5	.3
10	264	12	17	20	6.2	4.4	1.3	.9	.6	.8	.5	.3
11	191	14	15	20	6.2	4.2	1.4	.9	*.6	.7	.4	.3
12	136	*13	14	20	6.5	4.0	1.3	.8	.6	.6	.4	.4
13	99	13	15	18	5.8	3.7	1.8	.9	.5	.5	.4	.4
14	79	12	19	17	5.5	4.4	2.3	.9	.5	.5	.3	.5
15	70	12	19	16	5.2	4.4	2.0	.8	.5	.5	.3	.8
16	64	11	17	15	5.2	3.7	1.7	.8	.5	.4	.3	.8
17	57	9.8	*15	14	5.2	3.3	1.6	.7	.5	.4	.3	.7
18	54	9.4	13	13	5.0	3.3	1.3	.7	.7	.4	.3	.7
19	55	8.7	12	12	4.7	*4.2	1.2	.7	.6	.4	.3	.6
20	52	7.9	11	11	4.7	11	1.3	.7	.7	*.3	.3	.6
21	47	7.6	11	11	6.2	8.3	1.4	.7	.7	.3	.3	.5
22	44	6.8	10	10	6.5	6.5	1.4	.7	.6	.3	.3	.8
23	40	6.5	64	9.4	6.2	5.5	1.2	.7	.6	.3	.3	.6
24	36	6.5	134	9.0	6.8	5.0	1.2	.7	.7	.4	.3	.6
25	31	12	101	8.7	8.3	4.4	1.1	.7	.7	.4	.3	.7
26	25	10	98	8.7	7.9	4.0	1.6	.7	.6	.5	.3	.9
27	22	9.0	79	8.7	7.2	3.7	1.6	.8	.6	.7	.3	.9
28	28	8.3	69	8.3	6.5	3.3	1.2	.9	.5	.8	.3	.8
29	32	7.6	62	7.6	-	3.3	*1.1	.9	.5	.6	.3	.8
30	25	7.6	57	7.6	-----	3.1	1.1	1.1	.5	.6	.3	.7
31	22	-----	56	6.8	-----	2.8	-----	1.1	-----	.6	.3	-----
Total	3,125	341.7	1,048.5	594.8	167.0	150.3	47.3	26.3	20.7	14.5	11.2	16.4
Mean	101	11.4	33.8	19.2	5.96	4.85	1.58	0.85	0.69	0.47	0.36	0.55
Cfs/m	4.33	0.489	1.45	0.824	0.256	0.208	0.068	0.056	0.030	0.020	0.015	0.024
In.	4.99	0.55	1.67	0.95	0.27	0.24	0.08	0.04	0.03	0.02	0.02	0.03
Calendar year 1953: Max	654				Min 0.6	Mean 50.1	Cfs/m 2.15	In. 29.18				
Water year 1953-54: Max	292				Min 0.3	Mean 15.2	Cfs/m 0.652	In. 8.89				

Peak discharge (base, 350 cfs).--Oct. 9 (1:00 p.m.) 362 cfs (6.68 ft).

* Discharge measurement made on this day.

SPRUCE CREEK BASIN

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Spruce Creek near Samsula, Fla.

Location.--Lat 29°03', long 81°02', in sec. 1, T. 17 S., R. 32 E., on left bank 25 ft up-stream from bridge on State Highway 40A, $1\frac{1}{4}$ miles north of Samsula, and $9\frac{1}{2}$ miles west of New Smyrna.

Drainage area.--32 sq mi, approximately.

Records available.--May 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 6.25 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 798 cfs Oct. 8 (gage height, 15.49 ft); minimum, 0.2 cfs Aug. 19 (gage height, 3.60 ft).

1951-54: Maximum discharge, that of Oct. 8, 1953; minimum, 0.1 cfs for several days in 1951 and 1952; minimum gage height, that of Aug. 19, 1954.

Remarks.--Records fair. Some diversions for irrigation above station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 12-23, Dec. 2-22)

Oct. 1 to Aug. 20

Aug. 21 to Sept. 30

3.6	0.2	5.0	9.4	3.6	0.2	4.6	3.6
3.8	.4	6.0	125	3.8	.4	4.6	6.6
4.5	1.8	11.0	292	4.3	1.3	5.1	15
4.6	2.0	14.0	539	4.4	1.8	5.3	22
4.7	2.8	15.5	800	4.5	2.5		
4.8	4.5						

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	107	18	20	19	5.0	2.2	2.2	28	1.1	0.6	1.6	0.9
2	108	17	18	17	4.3	2.0	2.0	20	1.0	.5	1.5	1.0
3	115	15	17	21	4.3	*2.0	1.9	12	1.1	.5	1.4	.9
4	128	14	22	24	4.3	1.9	1.8	8.6	1.4	.4	1.2	.9
5	129	*14	78	21	3.9	1.8	1.7	6.3	1.6	.9	1.2	.9
6	209	16	61	18	3.4	2.0	1.6	4.1	1.5	1.2	1.1	.9
7	182	15	42	16	3.0	3.2	2.5	2.6	1.5	1.1	1.0	.9
8	390	12	34	14	3.7	2.8	2.9	2.0	1.4	1.0	1.1	.8
9	796	9.7	*50	13	3.5	2.6	2.2	1.8	1.2	1.0	1.3	.7
10	*757	9.4	27	12	3.2	2.4	2.0	1.6	1.1	1.1	1.6	.6
11	*639	13	25	12	3.0	2.2	1.9	1.6	.9	1.1	1.8	.5
12	504	13	24	12	3.0	2.1	1.8	1.5	.8	*1.1	1.7	.5
13	424	44	23	11	2.9	2.0	1.7	1.5	.8	1.1	1.6	.6
14	*358	50	28	10	2.8	2.0	1.7	1.6	.7	1.1	1.3	.8
15	294	39	27	9.4	2.5	1.9	*1.5	1.5	.7	1.0	1.1	1.1
16	219	29	24	9.4	2.3	1.8	1.4	1.4	.6	.9	*.9	1.0
17	134	22	22	8.6	2.2	1.8	1.4	1.2	.6	.8	.8	1.0
18	96	18	20	7.6	2.0	1.7	1.2	1.1	.7	.7	.7	1.0
19	82	16	18	7.3	2.0	2.5	1.1	1.0	1.0	.6	.5	1.0
20	64	14	18	7.1	2.0	3.4	3.3	1.2	1.2	.5	.5	1.0
21	52	13	20	*7.1	3.2	3.7	39	1.2	1.2	.6	.6	.8
22	40	12	21	7.8	3.7	3.2	24	1.1	1.1	.6	.9	.9
23	33	12	158	7.8	3.0	2.5	9.4	1.0	.9	.5	1.3	5.3
24	27	12	168	7.1	2.8	2.2	5.4	.9	.9	.4	1.3	15
25	23	90	121	6.8	3.0	1.9	3.0	.8	1.3	.5	1.2	13
26	20	67	85	6.8	2.6	1.8	2.2	.7	1.3	.9	1.2	8.0
27	17	42	56	6.6	2.2	1.6	1.9	*.9	1.1	1.5	1.0	11
28	20	30	41	6.3	2.1	1.5	1.8	.9	.9	2.2	1.0	*21
29	26	25	32	5.9	-	5.4	4.5	1.1	.8	5.6	.9	12
30	23	22	26	5.4	-----	7.6	9.5	1.5	.6	2.8	.9	7.5
31	20	-----	22	5.0	-----	3.4	-----	1.3	-----	1.9	.9	-----
Total	6,036	723.1	1,328	342.0	86.1	79.1	138.5	112.0	31.0	34.7	35.2	111.5
Mean	195	24.1	42.8	11.0	3.08	2.55	4.62	3.61	1.03	1.12	1.14	3.72
Cfsm	6.09	0.753	1.34	0.344	0.096	0.080	0.144	0.113	0.032	0.035	0.036	0.116
In.	7.01	0.84	1.54	0.40	0.10	0.09	0.16	0.13	0.04	0.04	0.04	0.13

Calendar year 1953: Max	796	Min	0.3	Mean	75.2	Cfsm	2.35	In.	31.88
Water year 1953-54: Max	796	Min	0.4	Mean	24.8	Cfsm	0.775	In.	10.52

Peak discharge (base, 400 cfs).--Oct. 8 (11:30 p.m.) 798 cfs (15.49 ft).

* Discharge measurement made on this day.

Crane Creek at Melbourne, Fla.

Location.--Lat 28°04'42", long 80°37'48", in sec. 4, T. 28 S., R. 37 E., on right bank 24 ft upstream from bridge on U. S. Highway 192, 1½ miles west of the city hall in Melbourne, and 2½ miles upstream from Indian River.

Drainage area.--12.6 sq mi.

Records available.--March 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 4.45 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 539 cfs Oct. 9 (gage height, 9.55 ft), from rating curve extended above 200 cfs on basis of velocity-area study; minimum, 4.4 cfs May 19 (gage height, 2.69 ft).

1951-54: Maximum discharge, that of Oct. 9, 1953; minimum, 1.8 cfs June 25, 26, 27, 28, 1951; minimum gage height, that of May 19, 1954.

Remarks.--Records fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 4-24, July 22 to Aug. 15)

Oct. 1-9, May 9 to Aug. 15		Oct. 10 to May 8		Aug. 16 to Sept. 30	
2.7	4.5	2.6	3.8	6.0	124
3.0	9	2.8	7	7.0	204
5.0	73	3.0	11	8.0	315
		5.0	73		
				5.0	72

Note.--Same as following table above 5.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	67	44	32	11	7.6	6.2	7.8	6.2	56	13	13	15
2	66	*42	31	10	8.0	6.2	7.3	6.0	42	11	13	26
3	66	40	30	9.9	7.8	6.2	6.7	6.2	72	11	14	15
4	141	38	30	9.7	7.6	*6.5	6.4	6.0	145	10	11	12
5	116	38	40	9.5	7.6	6.4	6.4	5.7	90	11	11	11
6	106	37	38	9.0	7.3	6.7	5.9	5.2	57	*12	9.9	9.9
7	82	35	35	8.8	7.1	8.2	6.4	4.9	45	11	12	9.9
8	84	35	34	8.6	7.5	8.8	9.5	4.8	34	11	17	9.2
9	244	36	32	8.4	7.6	8.2	9.5	5.2	24	11	21	9.0
10	265	34	31	8.4	7.5	8.0	8.2	5.2	19	11	16	8.5
11	136	32	*30	9.3	7.3	7.6	7.6	5.7	16	12	15	8.8
12	106	31	28	9.7	7.3	7.3	7.3	5.4	15	18	16	24
13	90	30	26	9.7	6.9	7.3	*6.9	5.4	27	17	13	22
14	82	28	26	9.5	6.7	7.1	6.7	5.2	24	28	12	34
15	77	26	25	9.0	6.5	6.9	6.7	5.1	20	20	11	34
16	70	24	23	8.8	6.5	6.5	6.2	4.8	23	25	*9.9	24
17	67	23	20	8.6	6.5	6.4	6.0	4.6	20	24	9.2	18
18	88	21	19	8.6	6.0	6.4	5.7	4.5	140	18	9.0	24
19	116	20	18	*8.6	6.0	7.3	5.7	4.5	141	15	8.5	47
20	90	18	16	8.6	6.2	9.7	5.9	5.1	84	12	8.3	33
21	76	17	15	8.6	6.7	8.2	6.4	5.6	53	11	8.1	22
22	69	16	14	8.6	6.9	7.6	6.2	5.1	44	10	7.7	17
23	64	15	15	8.2	6.9	7.1	10	5.4	38	11	7.7	16
24	59	19	18	8.2	6.5	6.9	9.9	*5.6	31	20	7.5	15
25	56	116	16	8.0	6.5	6.7	8.4	5.2	25	16	7.5	17
26	53	70	15	8.0	6.4	6.5	7.8	5.2	22	16	7.7	22
27	*52	53	14	7.8	6.5	6.9	7.5	8.9	18	16	7.7	34
28	54	44	13	8.0	6.5	6.9	7.1	17	15	15	7.4	41
29	51	38	12	7.8	---	6.5	6.7	14	14	14	7.9	*28
30	48	34	12	7.8	---	8.8	6.5	71	14	13	10	21
31	45	---	11	7.6	---	8.2	---	90	---	12	10	---
Total	2,786	1,054	719	272.3	194.4	224.2	215.3	338.7	1,387	455	339.0	627.3
Mean	89.9	35.1	23.2	8.78	6.94	7.23	7.18	10.9	45.6	14.7	10.9	20.9
Cfsm	7.13	2.79	1.84	0.697	0.551	0.574	0.570	0.865	3.62	1.17	0.865	1.66
In.	8.22	3.11	2.12	0.80	0.57	0.66	0.64	1.00	4.03	1.34	1.00	1.85

Calendar year 1953: Max 265 Min 4.0 Mean 25.2 Cfsm 2.00 In. 27.16
Water year 1953-54: Max 265 Min 4.5 Mean 23.5 Cfsm 1.87 In. 25.34

Peak discharge (base, 100 cfs).--Oct. 4 (10:30 a.m.) 182 cfs (6.78 ft); Oct. 9 (7:30 p.m.) 539 cfs (9.55 ft); Oct. 18 (8:30 p.m.) 135 cfs (6.16 ft); Nov. 25 (8 a.m.) 161 cfs (6.55 ft); May 30 (6:30 p.m.) 181 cfs (6.55 ft); June 4 (1:30 a.m.) 195 cfs (6.91 ft); June 18 (7 p.m.) 283 cfs (7.74 ft).
* Discharge measurement made on this day.

North Canal near Vero Beach, Fla.

Location.--Lat 27°41'32", long 80°24'53", in SE $\frac{1}{4}$ sec. 15, T. 32 S., R. 39 E., on left bank at upstream side of bridge on U. S. Highway 1, 3.9 miles north of Vero Beach.

Records available.--November 1950 to September 1954 in reports of Geological Survey. January to September 1949 (gage heights only) collected by U. S. Soil Conservation Service, available in files of Geological Survey.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to Feb. 27, 1952, at site 800 ft upstream at datum 0.81 ft lower.

Extremes.--Maximum discharge during year, 895 cfs Oct. 8 (gage height, 8.07 ft); minimum daily, 7 cfs May 18, 19.

1950-54: Maximum discharge, that of Oct. 8, 1953; maximum gage height, 9.6 ft Oct. 2, 1951, from graph based on fragmentary gage-height record, present datum, at site then in use; minimum daily, 3 cfs July 1, 2, 1952.

Remarks.--Records poor. Considerable pumping into canal for drainage above station. After Sept. 7, 1954, low flow regulated by control dam 3 miles upstream.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82	34	32	21	21	15	*16	21	52	22	27	41
2	62	32	31	20	20	14	14	20	51	19	26	53
3	95	31	29	20	20	14	16	18	81	18	*25	58
4	198	30	29	20	18	14	16	18	111	16	24	54
5	182	33	33	*20	18	14	16	18	98	26	22	50
6	106	37	31	20	17	17	15	18	146	62	21	44
7	*315	35	30	20	16	25	16	17	88	52	20	39
8	518	44	29	20	18	24	17	16	57	71	21	28
9	759	61	28	19	18	23	18	16	46	53	19	13
10	*549	*49	27	20	17	21	16	16	*39	51	17	11
11	223	45	27	20	16	*19	16	19	33	*42	53	9
12	111	42	25	21	16	18	14	20	26	54	88	8
13	86	53	25	20	15	16	13	21	21	45	39	9
14	63	46	27	20	15	16	13	19	20	36	24	*18
15	60	38	26	19	15	16	13	9	44	35	18	51
16	66	34	25	19	15	16	13	9	257	35	17	46
17	57	33	24	20	*15	16	13	8	261	32	16	33
18	168	31	24	20	16	15	13	7	370	28	24	33
19	449	29	23	22	16	15	13	*7	539	25	32	55
20	218	29	23	22	18	18	12	8	375	23	33	36
21	135	28	22	21	19	16	24	9	*170	22	32	10
22	93	27	22	21	21	16	44	8	96	21	30	11
23	76	26	23	21	20	15	84	8	72	21	31	14
24	59	26	25	20	18	14	63	9	57	24	31	16
25	51	75	24	19	18	14	42	18	46	23	*28	71
26	47	55	24	18	17	15	36	15	37	33	27	208
27	43	44	23	*18	16	15	*30	20	31	43	26	223
28	42	37	22	18	15	15	28	22	28	44	28	108
29	41	34	22	18	-	15	26	22	24	37	28	74
30	37	*33	21	19	-	15	24	58	22	30	34	44
31	36	-	21	18	-	17	-	77	-	28	34	-
Total	5,027	1,151	797	614	484	513	694	571	3,298	1,071	895	1,468
Mean	162	38.4	25.7	19.8	17.3	16.5	23.1	18.4	110	34.5	28.9	48.9
Ac-ft	9,970	2,280	1,580	1,220	960	1,020	1,380	1,130	6,540	2,120	1,780	2,910

Calendar year 1953: Max 759 Min 8 Mean 41.8 Ac-ft 30,240
 Water year 1953-54: Max 759 Min 7 Mean 45.4 Ac-ft 32,890

* Discharge measurement made on this day.

INDIAN RIVER BASIN

Main Canal at Vero Beach, Fla.

Location.--Lat 27°38'54", long 80°24'10", in SE $\frac{1}{4}$ sec. 35, T. 32 S., R. 39 E., on right bank 8 ft upstream from dam and 0.6 mile northwest of Vero Beach.

Records available.--October 1950 to September 1954 in reports of Geological Survey, January 1949 to September 1950 (gage heights only) collected by U. S. Soil Conservation Service, available in files of Geological Survey.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to Mar. 20, 1952, at datum 0.72 ft lower.

Extremes.--Maximum discharge during year, 997 cfs Oct. 9 (gage height, 12.76 ft); minimum, 2.6 cfs Sept. 6 (gage height, 8.25 ft).

1950-54: Maximum discharge, 1,380 cfs Oct. 18, 1950 (gage height, 13.1 ft, present datum); minimum, that of Sept. 6, 1954.

Flood of Oct. 18, 1950, was highest recorded since January 1949.

Remarks.--Records good. Considerable pumping into canal for drainage above station. Slight regulation at low flow after Aug. 6, 1954, by control above station.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

8.27	3.2	9.5	153
8.4	8.5	10.0	251
8.6	22	11.0	494
8.8	43	12.0	771
9.1	85	12.7	978

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	196	60	51	32	32	25	*29	50	63	50	43	5.1
2	160	57	47	32	46	26	25	48	72	52	43	4.2
3	238	56	46	32	43	26	26	40	85	50	*42	3.9
4	510	55	47	32	32	25	27	36	160	47	39	3.6
5	486	55	69	31	29	25	27	34	196	78	38	3.9
6	297	62	62	31	28	29	26	32	251	110	37	3.6
7	*226	57	55	*28	27	48	32	30	184	76	34	52
8	530	88	50	26	29	44	35	28	130	79	29	70
9	957	*160	47	26	28	*40	30	27	101	79	27	44
10	*820	104	46	28	26	40	42	28	*82	84	6.8	39
11	489	84	46	30	26	35	41	30	69	*84	139	35
12	300	82	44	29	25	31	32	32	59	149	243	32
13	216	128	43	29	24	31	30	41	53	115	130	16
14	175	104	47	29	24	30	29	42	52	84	82	4.6
15	146	82	46	30	24	28	27	35	78	73	63	17
16	128	72	42	31	24	27	26	34	404	70	45	*90
17	116	64	39	30	*25	25	25	34	376	70	4.2	67
18	303	60	38	25	25	27	24	33	447	66	4.2	80
19	559	57	38	32	26	28	24	*30	686	57	4.2	132
20	323	55	36	36	29	33	24	30	597	66	4.2	101
21	240	52	38	36	36	30	42	30	359	74	3.9	78
22	175	52	38	38	43	28	113	28	*249	57	4.2	32
23	146	51	39	34	42	27	162	26	208	51	4.2	7.2
24	118	a51	41	31	32	26	120	24	173	47	*3.9	16
25	99	a120	41	30	36	24	98	23	144	48	3.6	92
26	90	a85	39	30	31	25	120	22	116	48	3.6	354
27	82	a70	35	*29	26	26	*84	31	93	50	3.2	391
28	79	a65	34	28	27	27	66	46	74	48	3.6	247
29	78	a60	34	27	-	38	53	41	63	44	3.2	175
30	69	*57	34	28	-	50	53	63	55	41	3.2	84
31	64		33	31	-	34	---	78	---	38	4.6	---
Total	8,415	2,205	1,345	941	845	958	1,492	1,104	5,679	2,085	1,098.8	2,280.1
Mean	271	73.5	43.4	30.4	30.2	30.9	49.7	35.6	189	67.3	35.4	76.0
Ac-ft	16,690	4,370	2,670	1,870	1,680	1,900	2,960	2,190	11,260	4,140	2,180	4,520

Calendar year 1953: Max 957 Min 18 Mean 77.0 Ac-ft 55,760
 Water year 1953-54: Max 957 Min 3.2 Mean 77.9 Ac-ft 56,430

* Discharge measurement made on this day.
 a No gage-height record; discharge estimated on basis of recorded range in stage, and records for North and South Canals near Vero Beach.

South Canal near Vero Beach, Fla.

Location.--Lat 27°36'14", long 80°23'13", in SE $\frac{1}{4}$ sec. 13, T. 33 S., R. 39 E., on right bank 20 ft upstream from bridge on State Highway 605 and 2.5 miles south of Vero Beach.

Records available.--October 1950 to September 1954 in reports of Geological Survey. January 1949 to September 1950 (gage heights only) collected by U. S. Soil Conservation Service, available in files of Geological Survey.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to Feb. 28, 1952, at downstream side of bridge at datum 0.80 ft lower.

Extremes.--Maximum discharge during year, 603 cfs Oct. 8 (gage height, 7.83 ft); minimum daily, 12 cfs Sept. 13; minimum gage height, 1.87 ft Apr. 5.

1950-54: Maximum discharge, 707 cfs Oct. 18, 1950 (gage height, 9.9 ft, present datum); minimum daily, 4 cfs June 15, 1951; minimum gage height, that of Apr. 5, 1954. Flood of Oct. 18, 1950, was highest recorded since January 1949.

Remarks.--Records poor. Considerable pumping into canal for drainage above station.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	67	40	40	28	27	30	*24	34	44	39	24	53
2	63	38	39	28	42	24	21	32	46	37	23	65
3	86	37	38	27	33	20	20	29	56	34	22	57
4	184	36	38	26	30	19	18	27	111	35	*21	51
5	165	36	39	25	27	18	17	26	168	32	19	47
6	99	36	53	22	26	23	16	26	169	34	18	44
7	*75	36	48	*23	24	44	20	25	99	34	19	42
8	233	78	44	23	26	33	24	23	66	39	29	26
9	571	*134	42	24	26	*32	23	21	51	40	30	17
10	*467	79	42	24	24	34	27	21	*42	*36	32	16
11	*236	64	42	24	25	30	22	23	37	39	98	14
12	136	59	42	24	24	28	19	23	36	44	98	13
13	99	75	39	25	23	27	18	27	37	32	40	12
14	92	64	42	24	23	26	16	27	56	27	28	14
15	83	54	39	24	24	27	15	24	51	27	27	38
16	72	48	37	24	24	26	15	24	197	29	25	*40
17	68	45	36	23	*24	25	15	23	201	29	23	28
18	215	44	35	25	27	24	15	21	263	26	32	58
19	292	42	34	30	26	24	14	*20	464	23	37	86
20	151	40	34	31	30	29	14	21	372	23	38	55
21	104	40	33	27	32	27	50	21	*188	23	36	39
22	82	38	32	25	35	25	130	20	114	22	37	34
23	72	38	32	25	29	23	138	18	92	22	38	93
24	61	38	34	25	30	22	93	18	78	22	*38	130
25	55	76	34	25	32	21	124	17	69	25	36	108
26	50	63	32	26	24	21	112	18	60	25	38	159
27	48	50	31	*25	21	20	*64	32	57	26	36	165
28	47	45	31	25	30	21	49	44	48	27	34	86
29	46	42	29	25	-	31	42	34	45	26	40	70
30	44	*41	29	23	45	37	73	73	42	23	40	57
31	41		28	25	-	30	-	54	-	23	42	-
Total	4,104	1,556	1,178	780	768	829	1,212	846	3,358	921	1,099	1,717
Mean	132	51.9	38.0	25.2	27.4	26.7	40.4	27.3	112	29.7	35.5	57.2
Ac-ft	8,140	3,090	2,340	1,550	1,520	1,640	2,400	1,680	6,660	1,850	2,180	3,410
Calendar year 1953: Max 571 Min 6 Mean 41.4 Ac-ft 29,980												
Water year 1953-54: Max 571 Min 12 Mean 50.3 Ac-ft 36,440												

* Discharge measurement made on this day.

ST. LUCIE RIVER BASIN

North Fork St. Lucie River at White City, Fla.

Location.--Lat 27°22'26", long 80°20'33", in NW $\frac{1}{4}$ sec. 4, T. 36 S., R. 40 E., on left bank 10 ft upstream from bridge on State Highway 712 at White City, St. Lucie County, 1.7 miles downstream from confluence of Fivemile and Tenmile Creeks, and 4 miles south of Fort Pierce.

Records available.--October 1952 to September 1954 (discharge measurements).

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929.

Extremes.--1952-54: Maximum discharge measured, 2,800 cfs Oct. 10, 1953; reverse flow observed at times (tidal effect).

Remarks.--Slight diversion at high stages through canal a quarter of a mile to west. Low flow affected by tide. Tidal measurements made 6 hours and 13 minutes apart at approximately maximum and minimum discharge.

Pairs of discharge measurements, in cubic feet per second, made approximately at maximum and minimum discharge of tidal cycle of day shown, October 1953 to September 1954

Date	Maximum	Minimum	Mean
Oct. 10.....	2,800	-	2,800
Nov. 4.....	506	351	428
Dec. 1.....	427	314	370
Jan. 6.....	288	-54.0	117
28.....	276	11.0	144
Feb. 18.....	216	15.3	115
Mar. 10.....	227	-35.6	95.7
Apr. 14.....	217	0	108
May 20.....	272	231	252
June 21.....	1,320	-	1,320
Aug. 4.....	574	436	505
Sept. 15.....	699	507	603

Note.--Negative sign indicates reverse flow.

Diversion canal near White City, Fla.

Location.--Lat 27°20', long 80°31', in NW $\frac{1}{4}$ sec. 23, T. 36 S., R. 38 E., on right bank 10 ft downstream from bridge on Ideal Holding Co. road, and 12 miles west of White City.

Records available.--October 1952 to September 1954 (discharge measurements).

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to Aug. 5, 1954, datum of gage was 17.11 ft above mean sea level.

Extremes.--1952-54: Maximum discharge measured, 333 cfs June 22, 1954; minimum measured, 2.63 cfs Feb. 18, 1954.

Remarks.--Flow regulated and diverted for agricultural purposes by several pumps and control structures upstream and downstream from gage.

Discharge measurements, in cubic feet per second, water year October 1953 to September 1954

Oct. 11.....	248	Jan. 28.....	3.99	May 20.....	25.2
Nov. 4.....	178	Feb. 18.....	2.63	June 22.....	333
Dec. 1.....	26.6	Mar. 10.....	9.14	Aug. 4.....	208
Jan. 6.....	9.82	Apr. 14.....	29.2	Sept. 15.....	76.2

Lake Okeechobee, Fla.

Location.--Center of lake, lat 26°57', long 80°50', in southern Florida.

Records available.--October 1931 to September 1954 in reports of Geological Survey. 1912-14 in reports or files of Corps of Engineers. 1915-31 in reports or files of Everglades Drainage District.

Gage.--Three staff gages, at Hurricane Gate No. 2, Hurricane Gate No. 6, and Port Mayaca, read once daily. Prior to Oct. 1, 1941, staff gage at St. Lucie Canal. Oct. 1, 1941, to Dec. 31, 1950, seven staff gages at various locations on rim of lake. Datum of present gages is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1933, datum of gage was 1.01 ft below mean sea level. Oct. 1, 1933, to Sept. 30, 1946, datum of gage or gages was 1.44 ft below mean sea level (levels by Corps of Engineers).

Extremes (corrected).--1931-54: Maximum gage height, 24.0 ft Aug. 26, 1949, present datum, at Hurricane Gate No. 4 (wind effect); maximum average daily gage height observed, 18.77 ft Nov. 2, 1947, present datum; minimum average daily gage height observed, 10.3 ft May 17, 1932, present datum.

Remarks.--Stage of lake regulated by gates at several lake outlets. Total usable capacity of lake, 1,312,000 acre-ft.

Cooperation.--Records furnished by Corps of Engineers.

Gage height, in feet, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.09	17.58	16.94	16.01	15.35	14.81	14.50	14.05	13.47	13.90	14.03	13.50
2	16.13	17.55	16.92	15.98	15.28	14.89	14.46	14.03	13.51	13.89	14.07	13.56
3	16.14	17.54	16.89	15.95	15.26	14.89	14.44	14.01	13.55	13.89	14.01	13.52
4	16.16	17.53	16.86	15.91	15.26	14.84	14.40	14.02	13.56	13.85	14.04	13.53
5	16.25	17.54	16.88	15.89	15.23	14.81	14.36	13.95	13.57	13.83	14.03	13.53
6	16.23	17.54	16.82	15.88	15.20	14.77	14.27	13.91	13.55	13.79	13.98	13.51
7	16.24	17.48	16.80	15.87	15.15	14.77	14.25	13.89	13.52	13.79	13.92	13.48
8	16.50	17.47	16.78	15.80	15.20	14.80	14.30	13.87	13.50	13.80	13.87	13.49
9	16.61	17.46	16.76	15.71	15.17	14.83	14.37	13.83	13.49	13.81	13.83	13.43
10	16.79	17.41	16.76	15.68	15.16	14.86	14.34	13.78	13.47	13.83	13.84	13.44
11	16.84	17.36	16.72	15.67	15.15	14.83	14.32	13.79	13.46	13.78	13.78	13.44
12	16.92	17.40	16.70	15.60	15.13	14.82	14.34	13.75	13.44	13.77	13.76	13.54
13	17.01	17.43	16.70	15.56	15.14	14.82	14.28	13.78	13.41	13.86	13.74	13.49
14	17.08	17.40	16.75	15.47	15.10	14.80	14.27	13.83	13.35	13.84	13.72	13.51
15	17.20	17.36	16.66	15.48	15.09	14.74	14.24	13.78	13.34	13.87	13.74	13.65
16	17.25	17.36	16.60	15.48	15.08	14.72	14.23	13.77	13.28	13.92	13.68	13.63
17	17.31	17.33	16.54	15.49	15.04	14.67	14.01	13.78	13.30	13.95	13.67	13.62
18	17.36	17.29	16.54	15.27	15.06	14.66	14.07	13.76	13.36	13.96	13.64	13.69
19	17.45	17.24	16.52	15.45	15.01	14.68	14.09	13.70	13.49	14.00	13.63	13.73
20	17.49	17.21	16.43	15.47	14.98	14.66	13.99	13.67	13.72	13.99	13.58	13.79
21	17.56	17.19	16.36	15.46	14.96	14.67	13.95	13.64	13.85	14.00	13.60	13.82
22	17.57	17.19	16.33	15.43	14.92	14.67	14.14	13.60	13.88	13.95	13.57	13.85
23	17.57	17.18	16.29	15.46	14.91	14.62	14.08	13.61	13.92	14.00	13.61	13.90
24	17.59	17.17	16.25	15.43	14.93	14.62	14.10	13.58	14.00	14.00	13.45	13.95
25	17.62	17.27	16.28	15.44	14.89	14.63	14.11	13.46	14.06	14.03	13.42	13.96
26	17.61	17.19	16.12	15.43	14.91	14.60	14.07	13.42	14.09	14.14	13.41	14.01
27	17.58	17.06	16.20	15.41	14.90	14.55	14.08	13.39	14.06	14.05	13.36	14.11
28	17.64	17.07	16.13	15.41	15.06	14.52	14.07	13.40	14.00	14.06	13.32	14.15
29	17.66	16.99	16.11	15.38	-	14.55	14.05	13.40	14.00	14.05	13.43	14.19
30	17.58	16.99	16.06	15.34	-	14.51	14.06	13.39	13.95	14.05	13.48	14.21
31	17.58	-	16.02	15.37	-	14.47	-	13.45	-	14.05	13.49	-

Note.--Figures in above table are averages of once-daily readings from 3 gages.

LAKE OKEECHOBEE AND THE EVERGLADES

Fisheating Creek at Palmdale, Fla.

Location.--Lat 26°56', long 81°19', in sec. 3, T. 41 S., R. 30 E., near right bank on downstream side of bridge on U. S. Highway 27, 1 mile south of Palmdale and 16 miles upstream from Lake Okeechobee.

Drainage area.--435 sq mi, approximately.

Records available.--April 1931 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 27.19 ft above mean sea level, datum of 1929. Prior to Mar. 16, 1949, staff gage at same site and datum.

Average discharge.--23 years, 273 cfs.

Extremes.--Maximum discharge during year, 7,520 cfs Oct. 10 (gage height, 8.53 ft); no flow Apr. 20 to May 31.

1931-54: Maximum discharge, 31,400 cfs Oct. 3, 1951 (gage height, 12.44 ft), from rating curve extended above 21,000 cfs; no flow at times in most years.

Remarks.--Records good.

Revisions.--WSP 1234: Drainage area.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,870	655	234	104	26	60	2.7		0.1	174	1,720	712
2	1,750	620	239	100	25	57	1.8		.2	163	1,400	923
3	1,530	592	234	96	24	51	1.2		1.2	151	1,140	1,090
4	1,400	564	223	93	22	*47	.8		18	141	950	980
5	1,270	537	220	89	22	42	.5		65	146	787	800
6	1,150	511	206	87	21	40	*1.1		83	149	670	664
7	1,050	485	206	83	20	44			610	*153	610	570
8	1,690	461	196	80	21	45	1.4		1,040	199	590	514
9	4,850	425	185	76	25	43	10		800	606	546	466
10	7,130	403	180	72	24	45	6.6		610	1,060	530	448
11	*7,020	386	174	69	22	42	4.4		494	1,260	570	416
12	5,400	370	172	68	21	38	2.9		386	1,280	*905	398
13	3,920	355	165	65	19	34	1.8		315	*1,500	980	462
14	2,810	345	167	62	17	31	1.5		256	1,460	995	412
15	2,220	330	163	59	16	28	1.1		287	1,480	920	394
16	1,870	320	157	56	15	25	1.0		470	1,680	748	385
17	1,630	301	153	54	14	22	.8		546	2,140	630	412
18	1,570	282	146	51	14	19	.2	(*)	580	1,880	580	434
19	1,590	260	141	50	12	17	.1		905	1,480	522	466
20	1,610	247	136	*48	11	17	0		845	1,180	464	610
21	1,650	230	132	45	12	16	0		670	935	408	*691
22	1,470	216	128	44	17	14	0		530	761	365	1,440
23	1,290	206	126	42	26	12	0		506	610	345	1,500
24	1,120	*203	130	40	30	10	0		451	546	315	*1,140
25	1,000	223	129	38	36	9.0	0		386	490	301	965
26	910	230	124	36	42	7.8	0		335	506	287	1,120
27	858	230	118	34	44	7.1	0		301	590	264	1,520
28	*857	227	113	33	52	5.9	0		252	620	260	1,770
29	772	216	111	31	—	5.0	0		213	761	301	1,520
30	734	216	109	30	—	4.6	0		193	1,100	349	1,440
31	690	—	106	28	—	3.7	—		—	1,940	430	—
Total	64,661	10,646	5,023	1,863	651	842.1	49.7	0	12,088.5	27,141	19,882	24,662
Mean	2,086	355	162	60.1	23.2	27.2	1.66	0	403	876	641	822
Cfsm	4.80	0.816	0.372	0.158	0.053	0.063	0.0038	0	0.926	2.01	1.47	1.89
In.	5.53	0.91	0.43	0.16	0.06	0.07	0.004	0	1.05	2.32	1.70	2.11
Calendar year 1953: Max	7,130			Min 0	Mean 734	Cfsm 1.69	In. 22.92					
Water year 1953-54: Max	7,130			Min 0	Mean 459	Cfsm 1.06	In. 14.32					

Peak discharge (base, 1,500 cfs).--Oct. 10 (10 p.m.) 7,520 cfs (8.53 ft); July 17 (10 a.m.) 2,180 cfs (6.79 ft); July 31 (10 a.m.) 2,020 cfs (6.77 ft); Sept. 22 (9:30 p.m.) 1,710 cfs (6.73 ft); Sept. 28 (9 a.m.) 1,870 cfs (6.81 ft).

* Discharge measurement or observation of no flow made on this day.

Brick-Alligator Canal near Ashton, Fla.

Location.--Lat 28°10'40", long 81°12'26", in sec. 34, T. 26 S., R. 31 E., near center span at downstream side of highway bridge, 2,200 ft northwest of Brick Lake and 5 miles southeast of Ashton.

Records available.--December 1949 to September 1954 (discharge measurements only).

Gage.--Water-stage recorder. Datum of gage is 58.09 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Extremes.--1949-54: Maximum discharge measured, 132 cfs Oct. 19, 1950; reverse flow observed Jan. 23, May 29, 1952, Oct. 8, 1953.

Remarks.--Entire flow at this station represents diversion to or from Brick Lake. Normal direction of flow in canal is toward Alligator Lake but is occasionally reversed. Natural drainage from Brick Lake is through swamp outlet on south side of lake into Canoe Creek.

Discharge measurements, in cubic feet per second, water year October 1953 to September 1954

Oct. 8.....	(†)	May 13.....	7.73
Nov. 20.....	14.1	June 22.....	103
Jan. 7.....	0	Aug. 5.....	31.0
Feb. 17.....	(††)	Sept. 16.....	9.32
Apr. 7.....	(††)		

† Flow reversed. Flow toward Brick Lake.

†† Small flow toward Alligator Lake.

Lizzie-Lost Canal near Ashton, Fla.

Location.--Lat 28°15'29", long 81°11'20", in sec. 2, T. 26 S., R. 31 E., near center span on downstream side of highway bridge on north side of Lake Lizzie, 3.5 miles northeast of Ashton and 4 miles southeast of Narcoossee.

Drainage area.--31.4 sq mi (excludes area drained by Brick Lake).

Records available.--December 1949 to September 1954 (discharge measurements only).

Gage.--Water-stage recorder. Datum of gage is 58.98 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Extremes.--1949-54: Maximum discharge measured, 113 cfs Nov. 20, 1953; maximum reverse flow measured, 17.2 cfs Oct. 17, 1950.

Remarks.--Normal flow is toward Lake Lost, but is occasionally reversed. Discharge includes flow diverted from Brick Lake through Brick-Alligator Canal.

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Nov. 20.....	113	May 11.....	26.2
Jan. 7.....	111	Aug. 5.....	45.6
Feb. 17.....	71.9	Sept. 16.....	35.4
Apr. 7.....	42.3		

Myrtle-Mary Jane Canal near Narcoossee, Fla.

Location.--Lat 28°20'22", long 81°10'27", in sec. 1, T. 25 S., R. 31 E., on left bank 400 ft (corrected) downstream from private bridge, 0.9 mile upstream from Lake Mary Jane, 1.2 miles downstream from Lake Myrtle, and 4.9 miles northeast of Narcoossee.

Drainage area.--118 sq mi.

Records available.--November 1949 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 57.08 ft above mean sea level (levels by Corps of Engineers).

Extremes.--Maximum discharge during year, 703 cfs Oct. 1 (gage height, 7.67 ft); minimum, 24 cfs May 26, 27 (gage height, 2.45 ft).

1949-54: Maximum discharge, that of Oct. 1, 1953; minimum, 1.8 cfs July 1, 1950 (gage height, 1.88 ft).

Remarks.--Records good.

Correction.--The maximum discharge (701 cfs) for the 1953 water year, published in WSP 1274, was not independent of the higher peak occurring Oct. 1, 1953; maximum independent peak discharge during 1953 water year, 418 cfs Oct. 28, 1952 (gage height, 5.93 ft).

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	701	415	427	294	152	95	59	74	33	184	142	86
2	696	399	424	289	148	94	58	74	36	175	139	83
3	691	386	419	284	146	93	57	72	85	169	138	80
4	686	372	415	280	140	90	59	71	156	160	*136	81
5	681	358	423	274	138	89	61	68	185	152	132	79
6	672	346	423	268	134	88	59	64	193	147	131	79
7	662	331	418	260	130	90	*59	59	200	142	130	82
8	657	319	411	*255	127	90	65	56	211	140	132	80
9	667	305	407	247	124	90	64	53	205	139	131	77
10	682	295	399	242	122	89	65	50	195	138	128	76
11	682	288	391	239	121	89	64	48	184	142	127	74
12	677	278	384	236	119	88	64	*47	183	148	124	74
13	671	269	376	232	117	87	62	47	200	149	120	75
14	659	263	376	228	115	85	61	45	200	148	119	77
15	655	252	368	223	113	82	59	43	194	147	117	*76
16	633	245	360	218	111	78	58	42	191	146	115	75
17	620	*234	349	215	*109	75	54	40	185	142	113	74
18	609	228	338	210	108	74	52	37	192	138	112	73
19	601	221	328	206	105	75	50	36	217	134	113	71
20	586	215	318	201	105	78	50	34	232	129	111	71
21	573	207	314	198	105	77	50	33	236	124	108	69
22	554	201	309	194	104	76	54	31	237	120	105	68
23	538	195	312	188	102	74	59	30	235	117	105	68
24	523	200	316	184	102	73	59	27	*236	119	104	70
25	509	379	318	181	102	72	58	26	232	120	100	71
26	493	405	321	178	101	70	61	24	228	134	97	74
27	477	418	319	173	100	68	75	29	221	138	95	74
28	467	426	315	169	99	67	78	33	212	142	92	74
29	456	429	312	164	—	65	77	33	204	145	91	74
30	442	431	308	160	—	64	76	34	194	145	89	73
31	427	—	301	156	—	62	—	34	—	144	87	—
Total	18,647	9,310	11,199	6,846	3,299	2,487	1,825	1,394	5,713	4,417	3,583	2,258
Mean	602	310	361	221	118	80.2	60.8	45.0	190	142	116	75.3
Cfsm	5.10	2.63	3.06	1.87	1.00	0.680	0.515	0.381	1.61	1.20	0.983	0.638
In.	5.88	2.93	3.53	2.16	1.04	0.78	0.58	0.44	1.80	1.39	1.13	0.71

Calendar year 1953: Max 701
Water year 1953-54: Max 701

Min 59
Min 24

Mean 242
Mean 194

Cfsm 2.05
Cfsm 1.64

In. 27.83
In. 22.37

* Discharge measurement made on this day.

Mary Jane-Hart Canal near Narcoossee, Fla.

Location--Lat 28°22'54", long 81°11'24", in sec. 23, T. 24 S., R. 31 E., on left bank at downstream side of highway bridge, 500 ft east of Lake Mary Jane, 4.5 miles by road from State Highway 15, and 6½ miles northeast of Narcoossee.

Drainage area--128 sq mi (includes area drained by Econlockhatchee Headwaters Canal above point of diversion).

Records available--May 1942 to September 1954 (discharge measurements only).

Gage--Staff gage read only when discharge measurements are made. Datum of gage is 57.14 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Extremes--1942-54: Maximum discharge measured, 448 cfs Oct. 30, 1947; no flow May 24, 1945.

Remarks--Some diversion above station into St. Johns River basin through Econlockhatchee Headwaters Canal.

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Nov. 17.....	296	May 12.....	45.9
Jan. 8.....	275	June 24.....	276
Feb. 16.....	112	Aug. 5.....	141
Apr. 7.....	69.8	Sept. 15.....	85.6

Ajay-East Tohopekaliga Canal near Narcoossee, Fla.

Location--Lat 28°20'23", long 81°13'42", in sec. 4, T. 25 S., R. 31 E., on left bank at upstream side of bridge on State Highway 15, a quarter of a mile east of East Tohopekaliga Lake and 3 miles north of Narcoossee.

Drainage area--181 sq mi.

Records available--May 1942 to September 1954 (discharge measurements only). Prior to October 1952, published as Hart-East Tohopekaliga Canal near Narcoossee.

Gage--Staff gage read only when discharge measurements are made. Datum of gage is 52.62 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Feb. 4, 1943, at datum 3.40 ft higher.

Extremes--1942-54: Maximum discharge measured, 1,050 cfs Sept. 30, 1953; maximum reverse flow measured, 0.25 cfs Feb. 26, 1946 (affected by wind).

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Oct. 13.....	883	May 10.....	63.1
Nov. 17.....	397	June 24.....	371
Jan. 7.....	365	Aug. 4.....	179
Feb. 16.....	161	Sept. 16.....	123
Apr. 8.....	86.4		

East Tohopekalinga-Tohopekalinga Canal near St. Cloud, Fla.

Location.--Lat 28°15'59", long 81°18'35". in sec. 34, T. 25 S., R. 30 E., near left bank at upstream side of highway bridge, 300 ft downstream from outlet of East Tohopekalinga Lake and 1.8 miles northwest of St. Cloud.

Drainage area.--300 sq mi.

Records available.--May 1942 to December 1949 (discharge measurements only), January 1950 to September 1954.

Gage.--Staff gage read twice daily. Datum of gage is 52.32 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to May 27, 1943, at datum 2.00 ft higher.

Extremes.--Maximum discharge during year, 1,110 cfs Oct. 13 (gage height, 9.48 ft); minimum observed, 107 cfs June 2 (gage height, 2.41 ft).

1950-54: Maximum discharge, that of Oct. 13, 1953; minimum observed, 27 cfs

Aug. 29, 1950 (gage height, 1.18 ft).

1942-54: Maximum discharge measured, 1,140 cfs Sept. 19, 1945 (gage height, 9.08 ft); no flow on May 25, 1949.

Remarks.--Records good.

Correction.--The maximum discharge (969 cfs) for the 1953 water year, published in WSP 1274, was not independent of the higher peak discharge occurring Oct. 13, 1953; maximum independent peak discharge during 1953 water year, 357 cfs Apr. 29 (gage height, 4.92 ft).

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,010	972	877	736	516	354	258	185	110	272	326	260
2	1,020	963	866	726	506	346	257	185	107	275	323	259
3	1,020	956	861	720	493	342	258	181	122	276	321	257
4	1,030	940	851	716	486	342	250	178	157	271	320	254
5	1,030	924	866	711	480	335	257	179	172	270	319	251
6	1,030	915	859	*704	471	336	253	176	182	275	*317	249
7	1,030	902	864	698	463	333	248	170	190	276	311	244
8	1,040	885	854	690	454	329	*254	166	197	279	316	241
9	1,060	869	846	682	449	325	251	165	201	282	312	240
10	1,080	851	837	675	439	322	248	161	205	291	309	237
11	1,100	834	828	668	430	319	242	*157	207	294	307	235
12	1,100	825	823	666	430	318	237	151	208	296	306	236
13	1,110	817	814	656	420	314	234	147	210	300	302	238
14	1,100	808	808	649	413	308	230	146	221	300	300	237
15	*1,100	796	802	640	408	308	225	146	226	306	300	*235
16	1,080	*784	794	632	*400	306	220	148	227	310	295	235
17	1,080	777	786	628	396	300	216	148	232	309	291	232
18	1,080	767	779	624	395	296	210	136	239	309	288	234
19	1,080	766	764	614	390	292	206	132	259	308	292	234
20	1,080	764	757	607	384	294	202	130	269	305	289	231
21	1,080	760	753	600	380	294	201	130	275	301	286	228
22	1,060	758	748	591	379	291	198	127	*272	297	283	225
23	1,060	757	743	590	373	286	199	124	274	293	282	226
24	1,050	753	744	577	370	285	200	120	272	300	279	240
25	1,040	674	743	570	367	280	198	112	270	297	276	239
26	1,030	679	743	563	362	277	197	110	272	310	273	240
27	1,020	685	739	554	358	275	197	114	274	314	269	240
28	1,020	685	733	549	354	272	191	115	272	319	265	241
29	1,000	685	733	538	---	270	189	113	270	321	266	239
30	993	677	741	530	-----	267	185	113	273	325	263	236
31	985	---	741	521	-----	263	-----	113	-----	326	260	-----
Total	32,598	25,428	24,697	19,625	11,766	9,479	6,711	4,478	6,665	9,207	9,146	7,193
Mean	1,052	848	797	633	420	306	224	144	222	297	295	240
Cfs/m	3.51	2.93	2.66	2.11	1.40	1.02	0.747	0.480	0.740	0.990	0.985	0.800
In.	4.04	3.15	3.06	2.43	1.46	1.15	0.83	0.56	0.83	1.14	1.13	0.89

Calendar year 1953: Max 1,110 Min 194 Mean 450 Cfs/m 1.50 In. 20.38
 Water year 1953-54: Max 1,110 Min 107 Mean 458 Cfs/m 1.53 In. 20.70

* Discharge measurement made on this day.

LAKE OKEECHOBEE AND THE EVERGLADES

Cypress Creek at Vineland, Fla.

Location.--Lat 28°23'25", long 81°31'11", in sec. 21, T. 24 S., R. 28 E., on left bank at downstream side of bridge on State Highway 535, 1 mile west of Vineland.

Drainage area.--31.0 sq mi.

Records available.--August 1945 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 96.20 ft (revised) above mean sea level, datum of 1929 (levels by Orlando Utilities Commission). Prior to June 13, 1946, staff gage at same site and datum.

Average discharge.--9 years, 10.1 cfs.

Extremes.--Maximum discharge during year, 131 cfs Oct. 1, occurred on recession following peak of Sept. 27, 1953; maximum independent peak discharge, 106 cfs Nov. 25 (gage height, 3.43 ft); no flow May 25, 26; minimum gage height, 1.50 ft May 26, 27.
1945-54: Maximum discharge observed, 181 cfs Sept. 16, 1945 (gage height, 3.83 ft); no flow at times; minimum gage height, 0.25 ft June 9, 1949.

Remarks.--Records fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Nov. 25				Nov. 26 to May 26				May 27 to Sept. 30			
2.7	20	1.5	0	2.0	0.9	2.6	10	1.6	0.1		
2.9	34	1.6	.1	2.1	1.5	2.8	20	1.7	.3		
3.1	56	1.7	.1	2.2	2.5	2.9	27	1.9	.9		
3.3	85	1.8	.3	2.3	3.8	3.1	51	2.0	1.3		
3.6	133	1.9	.5	2.5	8.0	3.3	84	2.1	2.3		
								2.3	7.0		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	128	41	40	40	18	8.5	2.4	2.2	0.6	0.6	1.5	0.6
2	119	38	37	37	17	8.0	2.3	1.9	.7	.7	2.7	.5
3	112	37	34	40	16	7.8	2.2	1.6	1.8	.6	*2.7	.4
4	112	35	39	39	15	7.3	2.1	1.5	6.5	.5	2.7	.5
5	114	34	70	37	15	6.8	*2.0	1.2	6.2	.5	1.8	.6
6	114	34	62	36	14	7.0	2.0	1.0	4.5	.5	1.4	.5
7	106	32	58	33	13	7.5	2.4	.9	3.1	.6	3.1	.5
8	101	32	56	32	14	7.5	2.7	.7	2.1	.8	5.5	.4
9	112	30	54	30	13	7.3	2.5	.5	1.5	1.3	5.5	.3
10	115	30	51	28	13	6.8	2.3	*.4	1.2	1.4	5.2	.2
11	103	33	49	*30	12	6.3	2.2	.3	1.0	2.5	6.0	.1
12	95	32	47	30	12	6.1	2.0	.3	.9	3.5	5.7	.2
13	90	31	46	27	11	5.9	2.0	.4	.9	2.7	4.5	.4
14	84	30	56	26	10	5.7	1.9	.5	.8	1.8	3.3	*.5
15	79	29	50	25	*10	5.2	1.7	.4	.9	1.8	2.5	.6
16	74	*27	46	23	9.8	5.0	1.5	.3	1.0	2.1	1.8	.4
17	72	26	42	23	9.8	4.8	1.4	.2	1.0	1.5	1.5	.4
18	74	24	37	23	9.5	4.6	1.2	.2	1.1	1.2	1.2	.3
19	78	24	35	22	9.2	4.4	1.1	.2	1.2	1.0	1.0	.3
20	73	23	32	21	9.2	4.8	1.0	.1	1.3	.9	.9	.4
21	69	22	31	21	9.0	4.6	1.0	.1	*1.1	.8	.9	.3
22	64	23	29	20	8.8	4.3	.9	.1	1.0	.6	.9	.4
23	60	28	51	20	8.5	4.1	.9	.1	.9	.6	.8	.6
24	56	41	54	22	9.0	4.0	.8	.1	.8	.7	.7	.6
25	54	98	54	22	9.8	3.8	.7	0	.8	.7	.7	1.3
26	51	77	53	22	9.5	3.5	2.6	0	1.1	2.0	.6	2.3
27	49	59	50	21	9.0	3.4	4.8	.4	1.0	3.8	.5	3.1
28	50	50	46	20	8.8	3.2	3.8	.7	.8	4.2	.6	2.3
29	51	46	44	20	-	3.0	3.1	.7	.7	3.5	1.0	1.8
30	46	43	42	19	-----	2.8	2.5	.8	.5	2.5	.8	1.8
31	43	-----	42	18	-----	2.6	-----	.7	-----	1.8	.7	-----
Total	2,548	1,109	1,437	827	322.9	166.6	60.0	18.5	47.0	47.7	68.7	22.6
Mean	82.2	37.0	46.4	26.7	11.5	5.37	2.00	0.60	1.57	1.54	2.22	0.75
Cfs	2.65	1.19	1.50	0.861	0.371	0.173	0.065	0.019	0.051	0.050	0.072	0.024
In.	3.06	1.33	1.72	0.99	0.39	0.20	0.07	0.02	0.06	0.06	0.08	0.03

Calendar year 1953: Max 125 Min 0 Mean 20.5 Cfs 0.661 In. 8.95
Water year 1953-54: Max 128 Min 0 Mean 18.3 Cfs 0.590 In. 8.01

Peak discharge (base, 55 cfs).--Nov. 25 (6 a.m.) 106 cfs (3.43 ft); Dec. 5 (5 a.m.) 74 cfs (3.24 ft); Dec. 14 (2 a.m.) 59 cfs (3.15 ft); Dec. 23 (6 p.m.) 59 cfs (3.15 ft).

* Discharge measurement made on this day.

Tohopekalgia-Cypress Canal near St. Cloud, Fla.

Location.--Lat 28°08'19", long 81°21'06", in sec. 18, T. 27 S., R. 30 E., on right bank 500 ft downstream from outlet of Lake Tohopekalgia and 8.6 miles southwest of St. Cloud.

Drainage area.--541 sq mi.

Records available.--May 1942 to December 1949 (discharge measurements only), January 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 48.76 ft above mean sea level (levels by Corps of Engineers). Prior to Feb. 3, 1943, staff gage at datum 5.03 ft higher and Feb. 3, 1943, to Sept. 19, 1951, at present datum. Since Oct. 1, 1951, auxiliary water-stage recorder on south shore of Cypress Lake near head of Cypress-Hatchineha Canal.

Extremes.--Maximum daily discharge during year, 2,650 cfs Oct. 9; maximum gage height, 10.25 ft Oct. 9; minimum daily discharge, 246 cfs June 23, 24; minimum gage height, 3.44 ft June 2.
1942-54: Maximum daily discharge, that of Oct. 9, 1953; maximum reverse flow, about 228 cfs Oct. 23, 1952; minimum gage height, 3.20 ft Oct. 6, 1952.

Remarks.--Records good.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*2,480	1,910	1,800	1,480	996	752	518	376	268	267	376	353
2	2,530	1,850	1,780	1,440	978	699	511	379	254	266	378	363
3	2,520	1,820	1,710	1,440	959	692	497	379	263	270	384	359
4	2,560	1,780	1,710	1,430	949	709	482	366	295	272	390	351
5	2,560	1,720	1,770	1,410	932	681	469	374	301	270	390	342
6	2,560	1,750	1,750	*1,400	921	683	*469	364	293	273	*397	339
7	2,500	1,700	1,800	1,380	901	697	457	354	292	274	405	339
8	2,500	1,660	1,760	1,340	918	665	467	351	289	292	414	344
9	2,650	1,630	1,740	1,310	884	660	467	346	289	307	414	348
10	2,640	1,670	1,740	1,290	866	657	465	340	286	311	416	333
11	2,550	1,630	1,710	1,310	854	643	455	336	286	310	408	327
12	2,480	1,580	1,670	1,310	872	639	449	328	288	309	409	342
13	2,460	1,570	1,640	1,270	855	632	448	313	284	307	406	348
14	2,460	1,510	1,680	1,220	835	632	437	*328	281	303	410	*342
15	*2,410	1,470	1,700	1,210	829	648	422	327	284	307	410	342
16	2,380	1,430	1,620	1,200	810	641	414	325	284	303	405	349
17	2,330	1,410	1,630	1,210	816	606	441	315	282	300	400	352
18	2,330	*1,390	1,610	1,170	*808	592	413	316	285	302	399	352
19	2,330	1,360	1,550	1,150	797	578	404	309	286	304	395	349
20	2,300	1,350	1,510	1,140	773	598	396	306	279	307	385	340
21	2,270	1,330	1,470	1,120	778	601	388	306	262	311	387	337
22	2,240	1,310	1,470	1,100	778	588	390	296	249	308	378	337
23	2,190	1,300	1,500	1,130	750	568	362	290	*246	313	383	343
24	2,110	1,350	1,550	1,100	739	564	360	286	246	309	379	348
25	2,080	1,660	1,570	1,080	744	548	365	273	249	309	375	349
26	2,060	1,730	1,560	1,060	730	554	392	269	259	335	374	344
27	2,020	1,710	1,540	1,050	720	544	382	280	256	358	395	346
28	2,010	1,720	1,510	1,050	709	544	382	277	263	364	399	346
29	1,990	1,770	1,490	1,020	-	526	378	272	259	370	369	342
30	1,980	1,770	1,480	1,000	-----	520	375	271	265	372	359	334
31	1,940	-----	1,520	1,000	-----	522	-----	267	-----	370	355	-----
Total	72,420	47,820	50,540	37,820	23,501	19,183	12,915	9,919	8,223	9,573	12,144	10,340
Mean	2,336	1,594	1,630	1,220	839	619	430	320	274	309	392	345
Cfsm	4.32	2.95	3.01	2.26	1.55	1.14	0.795	0.591	0.506	0.571	0.725	0.638
In.	4.98	3.29	3.47	2.60	1.62	1.32	0.89	0.68	0.57	0.66	0.83	0.71
Calendar year 1953: Max	2,650			Min 278		Mean 882		Cfsm 1.63		In. 22.12		
Water year 1953-54: Max	2,650			Min 246		Mean 861		Cfsm 1.59		In. 21.62		

* Discharge measurement made on this day.

LAKE OKEECHOBEE AND THE EVERGLADES

Canoe Creek near St. Cloud, Fla.

Location.--Lat 28°04'42", long 81°15'39", in sec. 6, T. 28 S., R. 31 E., near right bank 8 ft downstream from bridge on St. Cloud-Kenansville road, 3.2 miles south of Lake Gentry, and 12 miles south of St. Cloud.

Drainage area.--82.8 sq mi (includes area drained by Brick Lake).

Records available.--November 1949 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 48.17 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Extremes.--Maximum discharge during year, 1,360 cfs Oct. 10 (gage height, 11.24 ft); minimum, 1.2 cfs May 26, 27, 28 (gage height, 4.61 ft).

1949-54: Maximum discharge, 1,550 cfs Oct. 19, 1950 (gage height, 11.4 ft, from recorded range in stage); no flow May 12 to Sept. 5, 1950; minimum gage height, 3.97 ft Aug. 22, 23, 1950.

Flood of 1935 (before canal was opened) reached a stage of 13.5 ft, from information by Florida State Road Department.

Remarks.--Records good. Records do not include diversions through Brick-Alligator Canal above station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to June 3

June 4 to Sept. 30

4.6	1.2	8.0	124	4.9	11
5.0	4.4	8.5	182	5.0	15
5.6	9.6	9.0	260	6.0	54
6.0	15	9.5	373	6.5	74
6.4	25	10.0	535	7.0	104
6.9	47	10.5	790	8.0	191
7.5	84	11.3	1,420	8.8	284

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,090	247	314	112	25	10	5.4	5.9	2.4	64	73	28
2	1,000	232	275	106	24	9.4	5.3	5.8	2.1	58	65	35
3	967	220	245	102	23	9.2	5.1	5.5	3.7	54	58	30
4	1,000	206	222	97	22	9.0	5.1	5.2	122	49	52	27
5	946	199	231	93	20	8.7	4.9	4.6	202	45	47	25
6	911	190	222	90	18	8.7	4.8	4.3	162	46	*43	22
7	816	176	214	*63	17	10	*15	3.8	112	53	43	22
8	803	164	201	78	16	9.5	20	3.6	62	99	47	20
9	1,000	155	191	74	16	9.0	18	3.5	67	155	54	18
10	1,340	147	183	71	15	8.9	14	3.0	55	178	60	16
11	1,270	144	173	81	14	8.6	12	2.7	46	204	56	14
12	1,150	136	165	85	13	8.3	10	2.4	40	186	51	13
13	1,020	131	159	81	12	8.1	9.2	*2.4	36	154	46	19
14	911	128	172	78	12	8.1	8.6	2.4	36	143	42	38
15	810	124	156	74	12	7.9	7.8	2.2	34	215	39	40
16	714	120	143	72	11	7.6	7.1	2.0	33	280	35	*32
17	643	115	134	68	*11	7.1	6.4	1.9	31	255	32	31
18	607	110	123	63	11	6.8	5.8	1.6	56	215	33	43
19	602	105	114	60	10	6.8	5.3	1.6	168	168	43	58
20	571	*101	109	57	10	8.1	4.9	1.7	276	133	42	48
21	527	98	107	55	11	7.9	4.8	1.6	269	103	40	56
22	492	93	104	52	11	7.4	4.8	1.6	*237	84	37	32
23	457	91	117	48	11	7.1	4.8	1.6	205	72	36	42
24	424	94	132	44	11	6.8	4.9	1.5	178	66	33	44
25	395	309	136	41	11	6.6	5.1	1.3	150	68	30	60
26	370	454	141	38	11	6.4	5.8	1.2	123	73	27	165
27	347	467	138	37	10	6.2	6.9	1.6	101	87	24	199
28	333	430	135	34	9.8	6.0	7.2	2.0	86	100	20	261
29	318	395	131	31	—	5.8	6.6	2.1	75	109	18	265
30	290	355	126	29	—	5.8	6.1	2.4	68	95	16	275
31	265	—	121	28	—	5.5	—	2.6	—	81	17	—
Total	22,390	5,938	5,134	2,062	399.8	241.3	231.7	85.8	5,058.2	3,702	1,261	1,976
Mean	722	198	166	66.5	14.3	7.78	7.72	2.77	102	119	40.7	65.9
Cfsm	8.72	2.39	2.00	0.803	0.173	0.094	0.093	0.033	1.23	1.44	0.492	0.796
In.	10.06	2.67	2.31	0.93	0.18	0.11	0.10	0.04	1.37	1.66	0.57	0.89
Calendar year 1953: Max			1,340		Min 2.0		Mean 169	Cfsm 2.04	In. 27.72			
Water year 1953-54: Max			1,340		Min 1.2		Mean 127	Cfsm 1.53	In. 20.89			

* Discharge measurement made on this day.

Reedy Creek near Loughman, Fla.

Location.--Lat 28°15'48", long 81°32'12", in sec. 32, T. 25 S., R. 28 E., on left bank 20 ft upstream from bridge on U. S. Highways 17 and 92, 2½ miles northeast of Loughman, 3 miles downstream from Davenport Creek.

Records available.--October 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 64.49 ft above mean sea level, datum of 1929. Prior to Aug. 20, 1940, staff gage at same site and datum.

Extremes.--Maximum discharge during year, 450 cfs at 12:01 a.m. Oct. 1 (gage height, 3.90 ft, stage falling; maximum peak discharge during year, 345 cfs Nov. 28 (gage height, 3.63 ft); minimum discharge, 3.4 cfs May 25, 26 (gage height, 1.67 ft), from recorded range in stage.

1939-54: Maximum discharge, 530 cfs Oct. 22, 23, 1944, Sept. 20, 21, 1947; maximum gage height, 4.08 ft Aug. 30, 1953; minimum discharge, 2.6 cfs June 2, 3, 1945; minimum gage height, 0.78 ft June 3, 1945.

Remarks.--Records fair except those for periods of no gage-height record, which are poor. Natural flow of stream affected by several canals which divert an undetermined amount of water into Shingle Creek basin.

Revisions (water years).--WSP 1142: 1940, 1944-45, 1947(M).

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*432	a178	280	168	79	51	21	37	17	12	168	39
2	398	172	253	161	74	51	19	35	16	11	161	37
3	373	168	233	155	72	50	18	32	23	9.0	141	35
4	362	161	219	148	70	50	17	30	53	7.4	119	34
5	348	155	246	*144	63	47	16	27	70	6.7	107	35
6	331	155	253	141	63	48	*19	24	74	a6.7	94	34
7	338	151	270	135	61	50	26	21	70	a7.5	*88	32
8	335	149	280	135	61	50	27	18	59	a10	83	31
9	352	144	277	129	61	48	27	16	48	a21	81	30
10	366	144	270	126	61	48	27	12	40	a40	79	28
11	359	149	253	129	61	45	26	10	32	a79	a77	25
12	352	144	229	a124	61	45	25	8.7	32	81	a76	23
13	342	141	216	119	59	44	24	11	a31	79	a79	26
14	325	141	212	122	58	43	23	*15	31	72	a84	*34
15	304	135	202	116	58	41	22	14	32	68	a88	39
16	287	132	a188	113	58	39	21	12	37	65	a94	47
17	270	129	a175	110	55	38	19	10	37	56	99	70
18	263	*126	a161	105	*53	37	18	8.4	35	48	91	70
19	263	119	a151	99	53	35	16	6.7	35	41	81	79
20	a258	116	a140	99	53	37	16	7.0	41	35	70	86
21	a250	110	132	96	51	37	15	7.4	*39	33	59	91
22	a243	107	129	91	48	34	15	6.2	38	29	55	99
23	a238	107	141	88	47	32	16	a5.0	35	27	45	102
24	a229	102	155	86	45	31	17	a4.6	32	25	41	86
25	a220	226	168	88	a48	30	20	a3.4	29	24	37	102
26	a213	270	185	88	53	29	25	a3.4	26	24	33	126
27	a208	328	192	88	53	27	29	a5.0	23	30	31	161
28	a202	345	199	88	51	24	31	a7.3	20	43	34	206
29	a194	328	199	88	-	24	34	a	11	18	74	43
30	a190	304	189	86	-----	23	37	16	15	113	41	168
31	a182	-----	182	81	-----	21	-----	18	-----	151	40	-----
Total	9,027	5,134	6,379	3,546	1,630	1,209	666	442.1	1,088	1,328.3	2,419	2,170
Mean	291	171	206	114	58.2	39.0	22.2	14.3	36.3	43.8	78.0	72.3
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and records for Cypress Creek at Vineland.

LAKE OKEECHOBEE AND THE EVERGLADES

Catfish Creek near Lake Wales, Fla.

Location.--Lat 27°57'40", long 81°29'48", in sec. 14, T. 29 S., R. 28 E., on left bank 6 ft downstream from bridge on private road, a quarter of a mile downstream from Lake Pierce, and 7 miles northeast of Lake Wales.

Drainage area.--54.2 sq mi.

Records available.--October 1947 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 72.70 ft above mean sea level (Corps of Engineers benchmark).

Average discharge.--7 years, 60.5 cfs.

Extremes.--Maximum discharge during year, 191 cfs Oct. 9 (gage height, 5.81 ft); minimum, 36 cfs May 19, 20; minimum gage height, 3.65 ft May 20.

1947-54: Maximum discharge, that of Oct. 9, 1953; minimum, 10 cfs June 29, 1950 (gage height, 2.87 ft).

Remarks.--Records good.

Correction.--The maximum discharge (158 cfs) for the 1953 water year, published in WSP 1274, was not independent of the higher peak discharge occurring Oct. 9, 1953; maximum independent peak discharge during 1953 water year, 114 cfs Oct. 27, 1952 (gage height, 5.06 ft, from recorded range in stage).

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Mar. 1		Mar. 2 to May 19		May 20 to Sept. 30	
4.2	56	3.6	34	3.7	39
5.0	114	4.0	49	4.2	70
5.8	190	4.5	71		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	157	138	136	120	83	64	50	46	43	53	70	52
2	155	136	134	118	82	80	49	48	43	52	80	51
3	157	134	131	117	80	80	48	45	*46	50	69	50
4	159	*130	132	116	79	80	47	45	59	50	68	49
5	159	127	140	114	77	58	46	44	62	51	67	48
6	159	126	139	113	75	59	46	43	62	50	66	48
7	158	122	140	110	73	60	48	42	64	50	65	46
8	164	119	139	106	75	59	51	42	64	51	66	46
9	178	117	137	105	72	59	51	41	62	51	68	*45
10	184	116	136	102	70	*59	50	40	62	53	67	44
11	183	115	134	109	69	58	50	39	61	55	65	43
12	183	113	135	107	68	58	50	39	58	56	64	43
13	*181	111	131	105	67	58	49	39	57	56	62	44
14	180	110	135	103	65	58	50	40	55	55	60	43
15	178	108	129	103	64	58	49	39	56	57	59	43
16	176	105	125	103	64	56	49	39	58	59	*58	43
17	173	103	123	102	64	55	49	38	58	59	57	42
18	176	102	120	100	63	54	47	38	60	58	56	42
19	177	99	117	99	61	54	46	36	63	57	55	42
20	175	98	115	99	60	56	45	43	64	56	52	42
21	173	97	116	99	64	56	44	44	64	55	50	43
22	171	97	117	98	65	55	44	43	63	53	50	43
23	167	99	123	97	64	54	44	42	62	55	54	44
24	163	101	128	94	64	54	45	40	62	62	53	45
25	160	138	129	94	65	53	46	39	61	62	52	44
26	156	141	130	*92	64	53	47	39	60	63	51	47
27	153	140	127	91	62	53	47	40	59	*64	51	49
28	152	140	125	89	62	52	46	41	58	64	52	48
29	150	139	125	87	-	51	*46	41	56	65	52	48
30	146	138	*123	85	-----	51	46	42	54	64	51	48
31	142	-----	121	84	-----	50	-----	43	-----	65	52	-----
Total	5,145	3,559	3,990	3,161	1,921	1,745	1,425	1,278	1,756	1,751	1,832	1,365
Mean	166	119	129	102	68.6	56.3	47.5	41.2	58.5	56.5	59.1	45.5
Cfsm	3.08	2.20	2.38	1.86	1.27	1.04	0.876	0.760	1.08	1.04	1.09	0.859
In.	3.53	2.44	2.74	2.17	1.32	1.20	0.98	0.88	1.20	1.20	1.26	0.94
Calendar year 1953: Max	184			Min	26	Mean	81.0	Cfsm	1.49	In.	20.30	
Water year 1953-54: Max	184			Min	36	Mean	79.3	Cfsm	1.46	In.	19.86	

* Discharge measurement made on this day.

Hatchineha-Kissimmee Canal near Lake Wales, Fla.

Location.--Lat 28°00'00", long 81°22'50", in sec. 36, T. 28 S., R. 29 E., on southeast shore of Lake Hatchineha at head of Hatchineha-Kissimmee Canal, 3½ miles upstream from Lake Kissimmee and 14 miles east of Lake Wales.

Drainage area.--Indeterminate. Total drainage area of Hatchineha-Kissimmee Canal above site of staff gage at Camp Mack and Cypress-Kissimmee Canal above station is 1,185 sq mi.

Records available.--May 1942 to September 1949 (discharge measurements only), October 1949 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 47.23 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark). Prior to Oct. 1, 1950, staff gage at Camp Mack 1.6 miles downstream at datum of 0.48 ft lower.

Average discharge.--5 years, 862 cfs.

Extremes.--Maximum daily discharge during year, 2,820 cfs Oct. 1; maximum gage height, 9.74 ft Oct. 9 (affected by wind); minimum daily discharge, 360 cfs May 30; minimum gage height, 3.19 ft June 3 (affected by wind).

1949-54: Maximum daily discharge, that of Oct. 1, 1953; maximum gage height, that of Oct. 9, 1953; minimum discharge, 139 cfs Aug. 27 to Sept. 4, 1950; minimum gage height, 1.13 ft Sept. 2, 1950, present site and datum (affected by wind).

Remarks.--Records good. Discharge measurements are made about 1½ miles downstream near staff gage at Camp Mack. Records do not include diversions above Lake Hatchineha through Cypress-Kissimmee Canal and overflow channels.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,820	1,900	2,100	1,950	1,320	1,230	*830	667	378	572	608	531
2	2,790	1,810	2,060	1,870	1,300	979	792	665	382	*567	618	551
3	2,790	1,870	2,050	1,890	1,310	1,010	779	665	384	559	642	552
4	2,800	1,910	2,130	1,870	1,310	1,040	754	642	538	559	620	545
5	2,670	1,950	2,230	1,840	1,240	992	724	*660	579	554	625	583
6	2,540	2,160	2,230	*1,850	1,180	1,020	770	605	611	542	635	587
7	2,470	2,040	2,260	1,790	1,170	1,020	782	585	648	531	639	571
8	2,160	1,800	2,210	1,710	1,400	964	850	594	659	544	638	581
9	2,810	1,840	2,120	1,700	1,150	958	861	577	664	544	*657	588
10	2,360	2,010	2,180	1,650	1,110	983	858	546	654	567	671	560
11	1,840	1,750	2,130	1,880	1,090	939	828	526	644	593	657	527
12	1,690	1,730	2,120	1,700	1,150	933	828	509	617	601	665	514
13	*1,600	1,760	2,060	1,660	1,120	942	802	501	602	607	648	514
14	1,920	1,640	2,350	1,580	1,090	988	795	554	576	613	655	538
15	2,150	1,670	2,080	1,640	1,090	998	770	527	590	619	647	528
16	2,060	1,700	2,030	1,620	1,130	978	767	507	583	656	648	547
17	2,060	1,720	2,080	1,600	*1,130	880	832	487	573	659	646	553
18	2,210	1,710	2,080	1,530	1,100	860	738	511	598	679	631	565
19	2,150	1,740	1,950	1,550	1,070	860	714	479	624	684	587	593
20	1,990	1,770	1,910	1,530	1,080	958	619	459	666	666	582	606
21	1,970	1,800	1,900	1,520	1,130	980	663	426	656	667	586	604
22	2,160	1,760	1,890	1,580	1,140	890	710	417	654	662	566	611
23	2,000	*1,760	2,020	1,530	1,070	883	747	402	669	642	576	626
24	1,850	1,740	2,140	1,480	1,120	884	747	416	664	607	578	*639
25	1,880	2,050	2,130	1,410	1,170	864	747	387	660	594	572	639
26	1,960	1,970	2,140	1,400	1,060	884	739	399	646	583	567	635
27	2,010	1,730	1,990	1,410	1,030	871	715	409	643	587	574	668
28	2,060	1,940	2,020	1,450	1,010	871	707	407	625	579	576	681
29	2,100	2,070	1,960	1,350	-	845	676	390	605	590	579	701
30	1,930	2,100	1,980	1,330	-----	844	661	360	577	590	554	711
31	1,840	-----	2,010	1,370	-----	851	-----	368	-----	597	540	-----
Total	67,620	55,400	64,540	50,220	32,270	29,179	22,805	15,647	17,969	18,614	18,985	17,649
Mean	2,181	1,847	2,082	1,620	1,152	941	760	505	599	600	612	588
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-

Calendar year 1953: Max 2,820 Min 506 Mean 1,169 Cfsm - In. -
 Water year 1953-54: Max 2,820 Min 360 Mean 1,126 Cfsm - In. -

* Discharge measurement made on this day.

LAKE OKEECHOBEE AND THE EVERGLADES

Cypress-Kissimmee Canal near Lake Wales, Fla.

Location.--Lat 28°00'20", long 81°16'20", in sec. 36, T. 28 S., R. 30 E., near right bank 1.1 mile upstream from Lake Kissimmee, 4.6 miles downstream from Cypress Lake, and 20 miles east of Lake Wales.

Drainage area.--Indeterminate. Total drainage area of Hatchineha-Kissimmee Canal above site of staff gage at Camp Mack and Cypress-Kissimmee Canal above station is 1,185 sq mi.

Records available.--November 1950 to September 1954 (discharge measurements only).

Gage.--Staff gage read only when discharge measurements are made. Datum of gage is 47.21 ft (revised) above mean sea level, datum of 1929 (from simultaneous water level readings with Lake Kissimmee during period of no flow).

Extremes.--1950-54: Maximum discharge measured, 3,230 cfs Oct. 16, 1953; no flow at times each year.

Remarks.--Discharge at this station consists of overflow from Cypress Lake and Cypress-Hatchineha Canal and natural drainage from marshland south of Cypress Lake. Greater part of flow from Cypress Lake, except during high water, is through Hatchineha-Kissimmee Canal (see preceding page).

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Oct. 16.....	3,230	Apr. 28.....	0
Nov. 5.....	1,670	May 12.....	0
23.....	1,040	June 4.....	61.5
Jan. 14.....	302	23.....	62.4
27.....	624	July 20.....	0
Feb. 18.....	383	Aug. 9.....	0
Mar. 19.....	15.6	31.....	0
31.....	2.22	Sept. 22.....	0

Kissimmee River below Lake Kissimmee, Fla.

Location.--Lat 27°46'13", long 81°10'45", in sec. 24, T. 31 S., R. 31 E., on right bank 3 miles downstream from Lake Kissimmee and bridge on State Highway 60 and 22 miles east of Frostproof.

Drainage area.--1,609 sq mi at State Highway 60 (includes areas drained by Lake Weohyakapka and Lake Marian).

Records available.--October 1933 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 43.48 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Mar. 21, 1934, staff gage at bridge 3 miles upstream at datum 44.73 ft lower. Mar. 21, 1934, to Sept. 30, 1950, water-stage recorder at present site at datum 45.00 ft lower than present datum. Since Mar. 21, 1934, staff gage at bridge 3 miles upstream used as supplementary gage.

Average discharge.--21 years, 1,227 cfs.

Extremes.--Maximum discharge during year, 7,170 cfs Oct. 9 (gage height, 13.16 ft, from floodmark); minimum, 744 cfs June 3 (gage height, 5.79 ft, affected by wind). 1933-54: Maximum discharge, 8,820 cfs Oct. 5 or 6, 1948; maximum gage height, that of Oct. 9, 1953; no flow Sept. 3, 4, 1935, caused by hurricane blowing upstream; minimum gage height observed, 1.10 ft Sept. 4, 1935, at present datum.

Remarks.--Records fair.

Revisions.--WSP 1204: Drainage area.

Correction.--The maximum discharge (4,480 cfs) for the 1953 water year, published in WSP 1274, occurred on a rising stage at 12 p.m. Sept. 30, and was not the peak for that flood; maximum peak discharge for 1953 water year, 2,010 cfs Oct. 29, 1952 (gage height, 9.09 ft).

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,520	5,170	4,340	a3,190	2,290	2,360	1,500	a1,120	938	*908	1,020	905
2	4,600	5,070	4,270	a3,110	2,260	2,260	1,480	a1,120	922	899	1,020	922
3	4,700	4,970	4,170	a3,060	2,240	*2,220	1,450	a1,120	919	896	1,010	919
4	4,920	4,860	4,140	a3,010	2,260	2,270	1,420	a1,110	1,000	894	1,000	899
5	5,070	4,760	4,190	a2,940	2,240	2,180	1,370	a1,130	1,050	895	991	896
6	5,100	*4,810	4,180	a2,920	2,230	2,190	1,350	a1,130	1,030	919	994	899
7	5,160	4,760	4,230	a2,880	2,210	2,230	1,340	a1,110	1,020	916	987	883
8	5,500	4,620	4,200	a2,780	2,290	2,110	1,350	a1,140	1,010	934	984	894
9	6,140	4,550	4,140	a2,730	2,240	2,070	1,340	a1,090	1,010	944	987	908
10	6,530	4,610	4,140	a2,710	2,200	2,060	1,340	a1,050	994	957	*970	877
11	*6,560	4,580	4,100	a2,750	2,190	2,010	1,320	a1,030	991	970	957	860
12	6,510	4,450	4,050	a2,700	2,220	1,970	1,300	a1,040	963	987	960	880
13	6,450	4,350	3,990	*2,630	2,200	1,930	1,290	a1,050	947	1,000	947	877
14	6,400	4,260	4,100	2,540	2,180	1,930	1,270	a1,050	928	1,000	950	888
15	6,360	4,170	4,110	2,470	2,170	1,960	1,240	a1,040	916	994	938	877
16	6,290	4,080	*3,970	2,410	2,160	1,950	1,210	a1,040	911	998	928	880
17	6,200	4,010	3,970	2,370	2,170	1,860	a1,190	1,020	914	991	922	888
18	6,250	*3,930	3,900	*2,290	2,190	1,790	a1,200	*1,020	938	1,000	922	883
19	6,310	3,850	3,740	2,280	2,170	1,740	a1,170	998	967	1,000	963	888
20	6,270	3,780	3,630	2,290	2,150	1,770	*1,150	1,020	1,020	998	950	883
21	6,200	3,740	3,570	2,290	2,220	1,780	a1,140	1,030	1,000	1,000	944	875
22	6,180	3,680	3,520	2,290	2,290	1,740	a1,120	1,010	994	1,000	938	872
23	6,120	3,660	3,500	2,350	2,230	1,690	a1,130	987	987	1,000	954	*888
24	5,950	3,670	3,510	2,320	2,210	1,670	a1,130	967	984	1,000	950	891
25	5,850	4,270	3,490	2,310	2,280	1,620	a1,120	941	977	1,000	938	891
26	5,730	4,440	3,520	2,280	2,240	1,620	a1,140	925	974	1,000	934	891
27	5,620	4,400	3,380	2,280	2,220	1,590	a1,140	947	970	1,050	934	914
28	5,640	4,370	a3,320	2,310	2,160	1,580	a1,130	944	957	1,050	938	916
29	5,620	4,380	a3,250	2,290	-	1,560	a1,110	938	938	1,040	931	919
30	5,480	4,370	a3,230	2,270	-----	1,540	a1,110	950	928	1,030	911	919
31	5,530	-----	a3,290	2,260	-----	1,520	-----	950	-----	1,020	911	-----
Total	179,560	130,620	119,140	79,330	62,110	58,770	37,550	32,017	29,097	30,294	29,683	26,782
Mean	5,792	4,354	3,843	2,559	2,218	1,896	1,252	1,033	970	977	958	893
Cfs/m	3.60	2.71	2.39	1.59	1.38	1.18	0.778	0.642	0.603	0.607	0.595	0.555
In.	4.15	3.02	2.75	1.83	1.44	1.36	0.87	0.74	0.67	0.70	0.69	0.62
Calendar year 1953: Max	6,560			Min	748		Mean	2,031	Cfs/m	1.26	In.	17.13
Water year 1953-54: Max	6,560			Min	860		Mean	2,233	Cfs/m	1.39	In.	18.84

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of gage-height record at staff gage 3 miles upstream.

LAKE OKEECHOBEE AND THE EVERGLADES

Reedy Lake Outlet near Frostproof, Fla.

Location.--Lat 27°43'13", long 81°28'40", in NW¼ sec. 1, T. 32 S. R. 28 E., on left bank 15 ft upstream from highway bridge, 100 ft downstream from Reedy Lake, and 3½ miles southeast of Frostproof.

Drainage area.--62.2 sq mi.

Records available.--October 1946 to September 1954.

Gage.--Water-stage recorder and concrete control. Datum of gage is 76.05 ft above mean sea level, datum of 1929.

Average discharge.--8 years, 44.2 cfs.

Extremes.--Maximum discharge during year, 116 cfs Oct. 9 (gage height, 4.09 ft); minimum daily, 32 cfs Sept. 12; minimum gage height, 1.88 ft Sept. 13 (wind effect).

1946-54: Maximum discharge, 166 cfs Oct. 2-6, 1948; maximum gage height, 4.37 ft Oct. 5, 1948; minimum discharge, 5.0 cfs June 8, 10, 1951 (gage height, 1.32 ft).

Remarks.--Records good except those for periods of shifting-control, which are fair.

Correction.--The maximum discharge (82 cfs) for the 1953 water year, published in WSP 1274, occurred on a rising stage at 12 p.m. Sept. 30, and was not the peak for that flood; maximum peak discharge for 1953 water year, 42 cfs Oct. 21, 1952 (gage height, 2.56 ft).

Rating tables, water year 1953-54, except periods of shifting control (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Nov. 26		Nov. 27 to Sept. 30	
3.5	82	1.9	30
4.1	117	2.0	34
		4.0	119

Discharge, in cubic feet per second, water year October 1953 to September 1953

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82	99	108	103	86	70	52	56	48	61	61	41
2	82	98	107	102	85	67	52	56	47	61	62	40
3	84	98	106	102	84	66	51	55	52	59	61	39
4	87	97	107	102	83	66	55	54	65	56	61	38
5	88	97	112	102	81	64	55	53	69	54	60	38
6	88	97	112	101	80	64	56	52	69	53	59	37
7	88	95	112	99	79	64	59	50	68	54	58	36
8	92	93	112	98	80	62	64	49	68	54	57	35
9	104	92	111	97	78	61	63	48	*68	54	57	*35
10	112	92	111	97	76	*61	63	47	67	55	56	34
11	*112	91	111	99	76	80	64	45	66	56	56	33
12	112	*90	111	100	75	80	63	45	64	57	55	32
13	112	90	109	98	75	59	63	47	63	60	54	34
14	111	89	112	98	73	59	62	47	63	65	54	38
15	111	89	109	97	72	59	61	46	63	66	52	38
16	110	87	107	97	72	58	59	45	66	69	52	39
17	109	86	106	97	72	56	60	44	66	68	51	41
18	112	85	105	96	72	56	56	43	66	67	50	44
19	114	84	104	95	71	55	55	41	69	67	49	48
20	113	83	103	95	71	58	54	45	70	66	47	48
21	113	83	103	95	75	58	53	47	69	66	46	48
22	112	82	104	94	76	57	52	46	69	65	45	48
23	110	82	104	94	74	56	53	44	69	64	46	49
24	109	84	106	93	73	56	53	43	68	64	45	49
25	108	109	106	92	73	55	55	41	67	63	45	49
26	107	110	106	*91	72	55	56	40	66	63	44	53
27	106	110	104	91	70	54	56	43	66	63	43	58
28	106	110	104	90	69	54	55	42	65	*61	43	58
29	104	109	104	*88	—	54	54	44	63	61	43	58
30	103	109	104	88	-----	53	*55	48	62	60	42	57
31	101	-----	*104	87	-----	53	-----	48	-----	59	41	-----
Total	3,202	2,820	3,524	2,978	2,123	1,830	1,707	1,454	1,941	1,691	1,595	1,295
Mean	103	94.0	107	96.1	75.8	59.0	56.9	46.9	64.7	61.0	51.5	43.2
Cfsm	1.66	1.51	1.72	1.54	1.22	0.949	0.915	0.754	1.04	0.981	0.828	0.695
In.	1.91	1.69	1.99	1.78	1.27	1.09	1.02	0.87	1.16	1.13	0.95	0.77
Calendar year 1953: Max	114			Min	8.2	Mean	48.9	Cfsm	0.786	In.	10.68	
Water year 1953-54: Max	114				32		71.7	Cfsm	1.15	In.	15.63	

* Discharge measurement made on this day.

Note.--Shifting-control method used Nov. 27 to Dec. 29, Feb. 23 to Apr. 3.

Arbuckle Creek near De Soto City, Fla.

Location.--Lat 27°26'32", long 81°17'51", in SE $\frac{1}{4}$ sec. 11, T. 35 S., R. 30 E., on right bank 20 ft downstream from bridge on State Highway 700, 1 mile upstream from Lake Istokpoga, and 7 miles east of De Soto City.

Drainage area.--385 sq mi (excludes area drained by Lake Weehyakapka and includes area drained by Lake Sebring).

Records available.--June 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 35.51 ft (corrected) above mean sea level, datum of 1929. Prior to June 24, 1942, water-stage recorder, and June 24, 1942, to Oct. 19, 1943, staff gage, at same site and datum.

Average discharge.--15 years, 421 cfs.

Extremes.--Maximum discharge during year, 5,490 cfs Oct. 10 (gage height, 8.16 ft); minimum, 118 cfs May 26, 27 (gage height, 2.18 ft).
1939-54: Maximum discharge, 7,880 cfs Sept. 23, 1948 (gage height, 8.71 ft), from rating curve extended above 5,300 cfs; minimum, 8.8 cfs June 21, 1945.

Remarks.--Records include small diversions into Lake Arbuckle from Lake Weehyakapka through Blue Jordan Swamp and include flow through 2 overflow bridges 1.9 and 2.1 miles west of main channel.

Revisions (water years).--WSP 1204: Drainage area. WSP 1274: 1939-50.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,330	989	1,530	571	361	258	161	271	210	736	498	521
2	2,350	933	1,390	566	359	260	157	268	230	658	484	511
3	2,310	891	1,300	554	354	261	154	275	349	602	464	496
4	2,280	846	1,220	541	349	249	154	*263	530	566	446	489
5	2,220	810	1,200	*538	336	*248	156	284	863	556	430	482
6												
7	*2,150	768	1,150	525	328	242	153	286	979	579	413	471
8	2,030	726	1,080	513	322	254	163	286	968	560	397	469
9	2,180	705	1,060	506	314	259	291	281	990	541	393	448
10	3,100	681	1,020	496	*308	258	295	273	1,010	556	406	432
11	5,290	644	996	492	309	257	291	282	974	563	428	426
12												
13	*5,320	624	975	492	306	253	286	246	888	560	*438	415
14	5,030	607	947	485	296	250	275	231	785	544	444	402
15	4,660	595	933	485	291	246	263	239	718	533	438	402
16	4,150	589	905	494	293	242	*257	220	736	533	424	413
17	3,650	583	*852	492	288	226	254	206	*795	544	419	411
18												
19	3,180	*566	840	489	283	214	252	195	868	556	423	402
20	2,860	552	794	478	278	211	230	188	785	553	424	395
21	2,700	543	758	474	272	209	223	180	772	544	417	402
22	2,600	533	736	470	270	211	217	169	859	*536	410	456
23	2,380	525	722	*466	269	206	215	166	1,040	524	404	*519
24												
25	2,150	515	709	460	271	199	214	156	1,130	514	397	566
26	1,950	506	693	456	267	194	222	143	1,220	506	392	759
27	1,780	498	677	439	269	194	223	142	1,400	493	384	928
28	1,680	498	669	429	277	190	235	132	1,400	489	376	997
29	1,540	563	662	424	270	188	292	127	1,310	486	369	997
30												
31	1,430	736	644	420	273	*182	303	126	1,240	482	360	1,020
1	1,370	1,070	634	412	271	177	352	*135	1,100	613	352	1,150
2	*1,300	1,470	624	397	279	172	359	142	968	683	357	1,090
3	1,200	1,700	607	386	-	170	329	148	859	639	426	1,020
4	1,120	1,630	601	386	-----	168	294	204	788	570	*467	948
5	1,050	-----	586	375	-----	166	-----	208	-----	527	508	-----
Total	79,320	22,896	27,514	14,711	8,363	5,814	7,270	6,472	26,804	17,346	12,968	18,437
Mean	2,559	763	868	475	299	220	242	209	893	560	419	515
Cfsm	6.65	1.98	2.31	1.23	0.777	0.571	0.629	0.543	2.32	1.45	1.09	1.60
In.	7.66	2.21	2.66	1.42	0.81	0.66	0.70	0.63	2.59	1.68	1.25	1.78
Calendar year 1953: Max	5,320			Min	68		Mean	745	Cfsm	1.94	In.	26.24
Water year 1953-54: Max	5,320			Min	126		Mean	682	Cfsm	1.77	In.	24.07

* Discharge measurement made on this day.

LAKE OKEECHOBEE AND THE EVERGLADES

Josephine Creek near De Soto City, Fla.

Location.--Lat 27°22'26", long 81°23'37", in SE¹ sec. 2, T. 36 S., R. 29 E., on left bank 320 ft downstream from bridge on State Highway 17, 1 mile downstream from Jack Creek, and 4 miles south of De Soto City.

Drainage area.--108 sq mi (excludes area drained by Lake Sebring).

Records available.--October 1946 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 52.99 ft above mean sea level, datum of 1929 (State Road Department benchmark). Prior to May 21, 1952, at site half a mile upstream at datum 0.89 ft higher.

Average discharge.--8 years, 123 cfs.

Extremes.--Maximum discharge during year, 1,180 cfs Oct. 10 (gage height, 7.97 ft); minimum, 17 cfs May 25 (gage height, 2.70 ft).

1946-54: Maximum discharge, 1,780 cfs Sept. 23, 1948 (gage height, 11.56 ft, site and datum then in use); minimum, 1.1 cfs May 12, 13, 14, 15, 1950 (gage height, 2.55 ft, site and datum then in use).

Remarks.--Records good. Small seasonal diversions for irrigation of citrus groves above station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 22-25)

Oct. 1 to July 25				July 26 to Sept. 30	
2.8	20	5.5	189	5.1	152
3.0	26	6.0	300	6.0	326
4.0	65	6.5	468	6.4	432
4.5	89	7.0	687		
5.0	128	8.0	1,200		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	544	366	250	152	100	75	49	40	43	128	273	422
2	520	353	244	148	98	74	49	40	71	124	236	413
3	496	340	238	146	96	73	49	39	91	118	232	378
4	476	322	233	145	94	*72	49	37	149	114	210	349
5	454	312	240	143	92	70	46	36	156	114	197	328
6		*436	306	238	142	90	71	45	34	142	126	186
7		422	297	235	139	87	76	51	32	125	131	174
8		450	284	231	136	88	75	52	30	117	*141	178
9		553	276	229	133	87	73	33	109	149	191	260
10		1,150	268	225	131	86	72	68	30	104	153	232
11		1,050	270	223	134	84	71	65	30	97	153	223
12		*923	266	219	137	83	69	62	29	95	160	229
13		856	258	215	132	82	68	61	32	100	173	*242
14		800	253	219	130	80	68	*58	31	95	178	208
15		751	248	*211	128	79	67	56	30	93	198	204
16		707	*244	203	126	78	65	54	30	93	205	198
17		668	238	196	125	78	64	53	28	93	203	191
18		677	231	191	123	77	62	51	28	93	196	186
19		668	227	184	122	76	60	49	28	104	191	182
20		634	221	179	120	76	64	47	26	105	191	178
21		601	215	175	119	82	63	47	25	104	202	171
22		570	211	172	118	84	60	46	24	104	194	173
23		540	209	170	117	83	59	46	24	105	187	165
24		512	205	173	114	82	58	46	21	109	183	157
25		496	258	172	113	82	57	45	20	141	176	152
26		468	268	170	111	80	57	45	*21	138	168	152
27		450	268	165	110	77	54	44	29	139	*178	178
28		*439	268	161	108	74	55	43	29	138	*195	200
29		425	263	158	106	74	54	42	33	135	221	363
30		404	258	156	104	73	51	41	49	131	206	416
31		386	-----	155	102	-----	51	-----	41	-----	232	370
Total	18,626	8,003	6,230	3,914	2,355	2,006	1,560	961	3,320	5,288	6,648	7,804
Mean	601	267	201	126	84.1	64.7	52.0	31.0	111	171	214	280
Cfs/m	5.56	2.47	1.86	1.17	0.779	0.599	0.481	0.287	1.03	1.58	1.98	2.41
In.	6.41	2.76	2.15	1.35	0.81	0.69	0.54	0.33	1.14	1.82	2.29	2.69
Calendar year 1953: Max	1,150				Min 7.5	Mean 187	Cfs/m 1.73	In. 23.45				
Water year 1953-54: Max	1,150				Min 20	Mean 183	Cfs/m 1.69	In. 22.98				

* Discharge measurement made on this day.

Note.--No gage-height record Jan. 27 to Mar. 3; discharge estimated on basis of recorded range in stage and records for Arbuckle Creek near De Soto City, and Catfish Creek near Lake Wales.

Istokpoga Canal near Cornwell, Fla.

Location.--Lat 27°24'01", long 81°09'35", in sec. 30, T. 35 S., R. 32 E., on right bank 30 ft downstream from old highway bridge, a quarter of a mile downstream from Seaboard Air line Railroad bridge, 1½ miles upstream from Kissimmee River, and 4½ miles northwest of Cornwell.

Drainage area.--624 sq mi.

Records available.--March 1934 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 29.71 ft above mean sea level (levels by Corps of Engineers). Prior to May 15, 1942, water-stage recorder, and May 15, 1942, to Aug. 19, 1949, staff gage, at same site and datum. Since June 3, 1953, auxiliary water-stage recorder, 1½ miles upstream.

Average discharge.--20 years, 441 cfs.

Extremes.--Maximum daily discharge during year, 1,860 cfs Oct. 9; maximum gage height, 11.41 ft Oct. 12; minimum daily discharge, 248 cfs Apr. 6; minimum gage height, 5.84 ft May 16.
1934-54: Maximum discharge, 2,040 cfs Sept. 22, 1948; maximum gage height, that of Oct. 12, 1953; no flow May 22 to June 15, 1949, caused by temporary cofferdam upstream.

Remarks.--Records fair. Slight regulation at low flow by manipulation of stoplogs in dam above station since June 1949. Some diversions at times during high water from Istokpoga Lake into Indian Prairie and Harney Pond Canals when levees on southeast shore of lake are overtopped or washed out.

Revisions.--WSP 1204: Drainage area.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,750	1,510	1,450	1,170	857	662	308	299	477	888	901	865
2	1,750	1,510	1,440	1,160	857	596	278	309	496	893	921	881
3	1,730	1,480	1,440	1,160	881	603	269	313	552	886	930	881
4	1,710	1,450	1,430	1,150	864	599	269	*319	687	893	909	873
5	*1,740	1,470	1,420	*1,140	831	*584	257	323	790	889	895	869
6	1,730	1,480	1,410	1,140	812	579	248	289	734	896	891	859
7	1,700	1,470	*1,400	1,100	794	586	260	287	674	907	869	857
8	1,740	1,460	1,390	1,100	828	579	298	290	672	899	872	857
9	1,860	1,460	1,380	1,080	*809	579	296	287	678	909	892	869
10	1,790	1,430	1,370	1,080	779	585	285	281	682	912	901	865
11	1,520	1,420	1,360	1,100	767	574	293	272	682	920	*910	841
12	*1,510	1,410	1,360	1,080	751	562	284	272	679	931	909	831
13	1,540	1,400	1,350	1,050	722	559	282	287	683	935	896	818
14	1,580	1,370	1,350	1,030	717	571	*281	292	686	928	886	822
15	1,620	1,350	1,330	1,030	705	558	274	267	*702	939	872	808
16	1,610	*1,350	1,310	1,030	702	526	284	257	746	932	845	804
17	1,660	1,340	1,300	1,010	699	534	276	378	730	932	850	804
18	1,680	1,330	1,280	998	693	510	257	480	740	915	838	815
19	1,700	1,330	1,280	990	675	506	258	459	800	*925	833	858
20	1,680	1,310	1,270	*996	663	532	254	459	807	920	617	*858
21	1,680	1,300	1,260	972	668	522	249	429	800	920	808	843
22	1,660	1,280	1,250	980	667	496	251	378	803	920	796	823
23	*1,650	1,280	1,250	969	648	486	255	387	820	912	796	830
24	1,650	1,270	1,250	952	657	486	271	366	830	892	791	839
25	1,640	1,330	1,250	938	654	435	279	361	868	892	783	849
26	1,610	1,330	1,240	921	639	*364	282	359	869	878	787	876
27	1,610	1,350	1,220	913	613	345	305	*381	878	881	787	915
28	1,610	1,380	1,210	904	617	334	321	406	900	881	808	935
29	1,600	1,420	1,210	895	-	325	317	420	898	898	850	948
30	1,540	1,440	1,200	893	-----	319	299	460	897	911	*853	934
31	1,520	-----	1,180	884	-----	313	-----	482	-----	894	855	-----
Total	51,370	41,710	40,840	31,815	20,549	15,811	8,340	10,849	22,270	28,128	26,551	25,727
Mean	1,657	1,390	1,317	1,026	734	510	278	350	742	907	856	856
Cfsm	2.66	2.23	2.11	1.64	1.18	0.817	0.446	0.561	1.19	1.45	1.37	1.38
In.	3.06	2.49	2.43	1.90	1.22	0.94	0.50	0.65	1.33	1.68	1.58	1.53

Calendar year 1953: Max 1,860 Min 79 Mean 755 Cfsm 1.21 In. 16.42
 Water year 1953-54: Max 1,860 Min 248 Mean 888 Cfsm 1.42 In. 19.31

* Discharge measurement made on this day.

Kissimmee River near Okeechobee, Fla.

Location.--Lat 27°14'18", long 80°58'57", in sec. 24, T. 37 S., R. 33 E., on downstream end of left pier of bridge on State Highway 70, 9.4 miles west of Okeechobee and 13 miles upstream from Lake Okeechobee.

Drainage area.--2,886 sq mi.

Records available.--October 1930 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 1.37 ft (corrected) below mean sea level, datum of 1929. Prior to Apr. 28, 1949, staff gage at same site and datum

Average discharge.--24 years, 2,068 cfs.

Extremes.--Maximum discharge during year, 17,800 cfs Oct. 14 (gage height, 28.37 ft); minimum, 1,420 cfs May 26 (gage height, 19.93 ft).

1930-54: Maximum discharge, that of Oct. 14, 1953; maximum gage height, 29.34 ft Oct. 7, 1948; minimum discharge observed, 231 cfs May 18, 1932; minimum gage height, 17.60 ft Sept. 26, 1950.

Flood in August 1928, resulting from hurricane, reached a peak of 30.3 ft (discharge, 20,000 cfs, from rating curve extended above 14,000 cfs).

Remarks.--Records good. Records of chemical analyses and water temperatures for the water year 1954 are given in WSP 1350.

Revisions.--WSP 1204: Drainage area.

Correction.--The maximum discharge (8,440 cfs) for the 1953 water year, published in WSP 1274, was not independent of the higher peak discharge occurring Oct. 14, 1953; maximum independent peak discharge during 1953 water year, 5,750 cfs Oct. 29, 1952 (gage height, 25.72 ft).

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1-14		Oct. 15 to Sept. 30	
26.7	7,980	19.9	1,400
27.0	9,040	23.0	2,830
28.0	14,800	28.8	3,260
28.4	18,000	25.0	4,560
		27.0	9,140
		28.0	14,800
		28.3	17,200

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,240	9,390	7,380	6,150	4,460	3,180	2,250	1,790	1,850	3,530	2,730	2,330
2	8,200	9,140	7,560	6,110	4,400	3,140	2,200	1,810	1,870	*3,450	2,700	2,310
3	8,370	8,910	7,680	6,050	4,320	3,110	2,150	1,860	1,960	3,370	2,670	2,240
4	8,650	8,720	7,780	6,000	4,250	3,060	2,110	1,880	2,300	3,280	2,620	2,210
5	8,540	8,590	7,840	5,960	4,160	3,020	2,080	1,870	2,600	3,220	2,560	2,220
6	8,480	8,470	7,780	5,900	4,080	2,990	*2,030	1,850	2,820	3,170	2,510	2,210
7	8,510	8,330	7,660	5,840	4,040	2,990	2,000	1,830	3,340	3,110	2,440	2,210
8	8,920	8,180	7,560	5,770	4,040	2,970	2,030	1,790	4,020	3,090	2,390	2,180
9	10,200	8,080	7,480	5,750	3,970	2,960	2,020	1,750	4,150	3,060	2,380	2,150
10	12,600	7,990	7,380	5,710	3,910	2,940	2,020	1,710	3,980	3,020	2,390	2,120
11	15,400	7,890	7,290	5,670	3,850	2,920	2,020	1,680	3,750	3,020	2,400	2,100
12	17,500	7,810	7,210	5,560	3,780	2,900	2,000	1,660	3,500	3,150	*2,380	2,120
13	17,600	7,680	7,140	5,520	3,740	2,870	1,990	1,660	3,340	3,370	2,360	2,200
14	17,400	7,600	7,100	5,500	3,690	2,860	1,980	1,620	3,220	3,390	2,340	2,150
15	16,600	7,530	*6,960	5,480	3,640	2,830	1,960	1,590	3,110	3,710	2,320	2,110
16	*15,600	7,430	*6,920	5,440	3,590	2,790	1,950	1,580	3,070	3,860	2,320	2,080
17	14,700	7,360	6,870	5,360	3,530	2,760	1,920	1,560	3,040	3,930	2,290	2,080
18	14,500	7,310	6,750	5,340	3,470	2,730	1,890	1,540	3,120	3,800	2,280	2,110
19	*14,000	7,240	6,700	*5,320	3,440	2,710	1,880	1,500	3,700	3,650	2,580	2,190
20	13,200	7,170	6,640	5,260	3,400	2,700	1,850	1,500	4,220	3,470	2,370	*2,260
21	12,600	7,080	6,610	5,220	3,380	2,660	1,830	*1,500	4,400	3,370	2,310	2,340
22	12,000	6,980	6,550	5,180	3,360	2,620	1,820	1,480	4,480	3,280	2,260	2,430
23	11,500	6,920	6,530	5,100	*3,320	2,590	1,820	1,460	4,420	3,180	2,220	2,560
24	11,000	6,870	6,530	5,020	3,300	2,560	1,790	1,440	4,220	3,070	2,180	2,700
25	10,600	6,920	6,530	4,950	3,270	2,530	1,770	1,430	3,990	2,990	2,140	2,710
26	10,400	6,870	6,470	4,870	3,220	2,490	1,760	1,420	3,790	2,950	2,100	2,690
27	10,000	6,850	6,420	4,800	3,190	2,460	1,790	1,460	3,670	2,940	2,070	2,670
28	10,100	6,890	6,360	4,740	3,200	2,430	1,780	1,520	3,610	2,920	2,070	2,650
29	*10,200	6,980	6,320	4,670	-	2,400	1,770	1,550	3,590	2,880	2,130	2,650
30	10,000	7,170	6,260	4,590	-----	2,360	1,780	1,600	3,580	2,840	2,130	2,660
31	9,700	-----	6,220	4,530	-----	2,300	-----	1,700	-----	2,780	2,140	-----
Total	365,110	230,350	216,490	167,380	104,020	85,830	58,220	50,590	102,710	100,830	72,660	69,640
Mean	11,780	7,678	6,984	5,399	3,715	2,769	1,941	1,632	3,424	3,253	2,344	2,321
Cfsm	4.08	2.66	2.42	1.87	1.29	0.959	0.673	0.565	1.19	1.13	0.812	0.804
In.	4.70	2.97	2.79	2.16	1.34	1.11	0.75	0.65	1.32	1.30	0.94	0.90
Calendar year 1953: Max	17,600	Min	1,250	Mean	3,966	Cfsm	1.37	In.	18.65			
Water year 1953-54: Max	17,600	Min	1,420	Mean	4,449	Cfsm	1.54	In.	20.93			

* Discharge measurement made on this day.

St. Lucie Canal at lock, near Stuart, Fla.

Location.--Lat 27°07', long 80°17', in Salerno Grant, T. 39 S., R. 41 E., at upstream end of right lock wall, 6 miles southwest of Stuart.

Records available.--October 1952 to September 1954. Gage-height records collected at same site since December 1924 are contained in files of the Everglades Drainage District and Corps of Engineers. Unpublished discharge records November 1948 to September 1952 are contained in files of Corps of Engineers.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Nov. 3, 1948, staff gage at same site and at various datums. Since Sept. 5, 1952, auxiliary water-stage recorder at Arundel Bridge, 1.9 miles upstream. Datum of gage is at mean sea level, datum of 1929 (levels by Corps of Engineers).

Extremes.--1952-54: Maximum daily discharge, 10,500 cfs Oct. 10, 1953. Lock closed on many days; net flow during these periods consists of leakage and lockage, generally less than 10 cfs.

Remarks.--Flow regulated by lock near Stuart. Lock closed Jan. 16 to May 11 and Sept. 11-30.

Cooperation.--Records furnished by Corps of Engineers.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,230	9,360	*7,950	7,780				-	1,630	6,270	6,180	5,850
2	8,140	9,360	8,360	7,740				-	1,630	6,240	6,180	6,040
3	8,520	9,340	8,530	7,740				-	1,630	6,170	6,170	5,850
4	8,650	9,340	8,630	7,690				-	2,820	6,170	6,010	5,750
5	8,710	*9,360	8,740	7,690				-	5,070	6,350	6,040	5,630
6	8,530	9,380	8,790	7,690				-	5,220	6,320	6,060	5,560
7	9,420	9,360	8,650	*7,620				-	*5,120	5,940	5,990	5,460
8	8,360	9,300	8,590	7,510				-	5,100	6,270	5,940	5,530
9	10,000	9,290	8,570	7,490				-	5,050	6,220	5,970	5,180
10	10,500	9,250	*8,530	7,490				-	5,040	6,220	6,030	2,750
11	9,940	9,230	8,480	7,550				-	5,030	6,210	5,970	-
12	9,680	9,250	8,460	7,460				560	5,000	6,240	5,840	-
13	9,500	9,250	8,440	7,360				1,670	4,970	6,330	5,860	-
14	9,720	9,150	8,710	6,500				*1,680	4,950	6,240	5,700	-
15	9,380	9,130	8,520	1,510				1,650	4,940	6,400	5,680	-
16	9,440	9,110	8,340	-				1,640	4,910	6,470	5,640	-
17	*9,380	9,090	8,270	-				1,640	4,880	6,450	5,660	-
18	9,580	9,050	8,190	-				1,670	4,920	6,330	5,640	-
19	9,880	8,990	8,160	-				1,670	5,420	6,270	5,600	-
20	9,720	*8,990	8,180	-				1,650	5,660	6,280	5,580	-
21	9,640	7,490	8,140	-				1,620	5,800	6,300	5,540	-
22	*9,580	5,780	8,100	-				1,580	5,910	6,250	5,460	-
23	9,580	*5,690	8,090	-				1,560	6,820	6,210	5,470	-
24	9,540	*4,920	8,050	-				1,570	6,710	6,200	5,410	-
25	9,500	*4,820	8,090	-				1,570	6,720	6,190	5,380	-
26	9,480	5,680	8,030	-				1,550	*6,820	6,220	*5,420	-
27	9,480	6,690	7,940	-				1,580	*6,670	6,240	5,480	-
28	9,540	*7,750	7,920	-				1,610	6,580	6,210	5,550	-
29	9,560	*7,970	7,910	-				1,590	6,500	6,200	5,730	-
30	9,430	8,080	7,890	-				1,610	6,340	6,050	5,650	-
31	9,400		7,830	-				1,600	-----	6,120	5,680	-----
Total	289,060	249,450	257,070	-	-	-	-	-	154,860	195,580	178,510	-
Mean	9,325	8,315	8,293	-	-	-	-	-	5,162	6,245	5,758	-
Ac-Ft	573,300	494,800	509,900	-	-	-	-	-	307,200	384,000	354,100	-

Calendar year 1953: Max 10,500

Water year 1953-54: Max 10,500

* Discharge measurement made on this day.

Note.--On days for which no discharge is shown, flow consists of leakage and lockage, generally less than 10 cfs.

LAKE OKEECHOBEE AND THE EVERGLADES

West Palm Beach Canal at Canal Point, Fla.

Location.--Lat 26°51'50", long 80°37'55", in NE $\frac{1}{4}$ sec. 33, T. 41 S., R. 37 E., on right bank in hurricane gate structure 5 at Lake Okeechobee, in Canal Point, 200 ft upstream from U. S. Highway 441. Prior to Jan. 14, 1954, staff gage at site 550 ft downstream.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to Jan. 14, 1954, staff gage at site 550 ft downstream at same datum. Since May 1940, auxiliary water-stage recorder below lock and dam.

Extremes.--1939-54: Maximum daily discharge, 817 cfs Mar. 18, 1948; maximum gage height, observed, 18.54 ft Oct. 23, 1947, at former site; maximum daily reverse flow, 1,760 cfs June 15, 1942; minimum gage height observed, 8.48 ft June 15-17, 1952, at former site.

Remarks.--Records poor. Flow regulated at station by manipulation of stoplogs in lock and dam and hurricane gates. Flow occasionally reversed after periods of considerable rainfall because of downstream natural drainage and pumpage from agricultural lands in Everglades. Discharge computed using three daily observations of velocity. Records of chemical analyses for water year 1954 are given in WSP 1350.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	154		0	e200	416	491	512	145	-36	-598	-451	-636
2	-102		0		411	243	592	172	-133	-542	-367	-526
3	-103		0		459	173	539	265	-82	-447	-311	-575
4	-129		0		452	284	427	247	190	-349	-197	-562
5	-169		0		435	253	304	313	21	-216	-56	-350
6	0		0		456	196	356	408	10	-670	246	-268
7	0		0		394	285	450	449	56	-665	340	-219
8	0		0		412	*206	349	399	10	-759	272	140
9	*-308		0		203	149	209	384	102	-709	166	-314
10	-97		0		255	132	148	425	229	-796	221	-399
11	-30		0		352	69	115	434	203	-737	33	-252
12	0		0		347	57	164	412	228	-781	-110	-91
13	0		0		357	85	197	261	212	-726	-60	-247
14	0		0	355	348	114	196	*380	136	-1,110	77	-199
15	*0		0	313	367	156	169	356	25	*-1,040	229	-232
16	0		*0	399	*326	241	216	326	50	-824	-87	*-92
17	0		0	435	385	114	373	241	-170	-791	125	-54
18	0		0	450	356	73	281	384	-371	-668	163	-262
19	0		0	445	378	90	225	373	-626	-698	157	-99
20	0		0	384	284	181	251	424	-676	-745	238	-192
21	0		0	396	0	239	257	239	-709	-680	145	-313
22	0		0	*415	0	130	203	308	-895	-653	123	-223
23	0		0	471	0	90	*215	351	*-865	-584	59	-368
24	0	(*)	0	397	0	129	194	325	-868	-553	320	-257
25	0		0	406	163	90	134	318	-834	-641	262	-45
26	0		0	430	289	90	161	361	-850	-677	*171	-377
27	0		0	418	305	140	183	232	-811	-684	348	-420
28	0		0	460	241	174	220	264	-732	-456	408	-488
29	0		0	411	-	252	255	168	-724	-747	157	-491
30	*0		e100	393	403	172	-66	-713	-858	-350	-476	
31	0		e200	423	-----	435	-----	-173	-----	-674	-290	-----
Total	-590	0	300	11,901	8,391	5,764	8,037	9,115	-8,623	-21,048	1,981	-8,887
Mean	-19.0	0	9.7	384	300	186	268	294	-287	-679	63.9	296
Ac-ft	-1,170	0	595	23,610	16,640	11,430	15,940	18,080	-17,100	-41,750	3,930	-17,630

Calendar year 1953: Max 586 Min -736 Mean 121 Ac-ft 87,360

Water year 1953-54: Max 582 Min -1,110 Mean 17.4 Ac-ft 12,580

* Discharge measurement or observation of no flow made on this day.

e No point-velocity record; discharge estimated on basis of hurricane-gate openings.

Note.--No gage-height record Nov. 9 to Dec. 16, Jan. 24-29, Apr. 5-8, July 4-15, Sept. 17-30; discharge estimated on basis of gage-height record for nearby gages. Negative figures indicate flow toward Lake Okeechobee.

West Palm Beach Canal at West Palm Beach, Fla.

Location.--Lat 26°38'40", long 80°03'24", in NE $\frac{1}{4}$ sec. 16, T. 44 S., R. 43 E., on left bank at upstream side of lock and dam, 20 ft upstream from bridge on State Highway 805 on Poinsettia Avenue, and 4.9 miles south of courthouse in West Palm Beach.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level (State Road Department Benchmark). Prior to Apr. 26, 1940, staff gage and Apr. 26, 1940, to Dec. 20, 1949, water stage recorder, at same site at datum 0.25 ft higher.

Extremes.--1939-54: Maximum daily discharge, 5,320 cfs Apr. 18, 1942; maximum gage height, 10.89 ft Oct. 13, 1947, present datum; minimum daily discharge, 124 cfs May 1, 1945; minimum gage height, 2.85 ft Dec. 3, 1953.
Maximum stage known, 13.20 ft Oct. 23, 24, 1924, present datum (discharge, 8,570 cfs), from records by Everglades Drainage District.

Remarks.--Records fair except those during period of considerable leakage, which are poor. Flow regulated by manipulation of stoplogs in dam and gates in lock chamber for irrigation and drainage purposes by Central and Southern Florida Flood Control District. Lock chamber not used for navigation. Since January 1954, flow materially affected by control structures at 20-mile bend, 20 miles upstream.

Cooperation.--Stoplog record furnished by Central and Southern Florida Flood Control District.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,560	1,880	4920	714				936	1,270	1,800	2,090	1,700
2	2,570	1,830	*4755	722				888	1,330	1,700	1,880	1,990
3	3,050	1,760	4711	730	340			759	1,290	1,570	1,780	1,850
4	3,250	1,700	634	734				713	1,430	1,500	1,710	1,650
5	3,170	1,800	650	728		420	420	711	1,850	1,430	1,740	1,520
6	2,940	1,960	770	706				556	1,890	1,460	*1,640	1,380
7	2,790	1,810	834	670				529	1,780	1,510	1,560	1,270
8	*3,040	1,760	854		350	644	*1,090	535	1,580	1,640	1,480	g1,210
9	3,640	1,710	854	460		882	1,370	535	1,410	1,640	1,560	g1,210
10	*1,150	1,600	846			698	1,140	531	1,260	1,740	1,550	g1,210
11	*3,740	1,610	830			654	1,020	518	*1,000	2,060	1,570	g1,220
12	3,320	1,880	602	550		656	884	511	968	2,080	*1,540	g1,250
13	3,070	1,960	630		370	668	906	579	984	*1,990	1,470	1,560
14	3,640	1,850	742			666	933	708	1,030	2,010	1,390	2,180
15	3,860	1,770	778			642	911	705	1,330	2,580	1,370	2,410
16	3,730	*1,670	742			604	903	752	1,540	2,370	1,370	2,080
17	3,640	1,650	726			(*)	880	1,230	1,930	2,620	1,330	1,810
18	3,300	1,620	662	500		550	841	1,380	2,870	2,300	1,280	2,590
19	3,450	1,650	646		390	797	1,080	4,900	2,090	1,260	2,940	
20	3,180	1,620	630			596	768	*1,020	5,160	2,000	g1,210	2,740
21	2,960	1,580	622			684	821	1,200	4,600	1,880	g1,130	*2,090
22	2,800	1,530	617			708	954	1,120	3,830	1,870	g1,100	1,770
23	2,670	1,490	650	490		678	1,230	998	*3,320	1,870	g1,090	1,930
24	2,570	1,440	678			646	1,220	898	2,730	1,830	g1,070	2,170
25	2,510	1,400	738		*420	608	1,110	822	2,280	2,010	g1,060	2,030
26	2,370	1,420	822				1,130	788	1,900	2,340	g1,070	2,090
27	2,150	d1,360	802	470			1,050	980	1,670	2,340	g1,070	2,000
28	2,140	d1,270	762				*1,000	1,300	1,490	2,660	g1,040	*2,210
29	*2,100	d1,120	726	(*)	-		952	1,270	*1,480	2,750	g1,050	2,060
30	2,020	d1,020	*714	400			960	1,240	1,780	2,500	g1,120	1,850
31	1,930		714					1,260		2,220	*1,280	
Total	92,310	48,720	22,661	16,782	10,610	17,304	25,800	27,052	61,872	62,960	42,860	55,970
Mean	2,978	1,624	731	541	379	558	860	873	2,062	2,031	1,383	1,866
Ac-ft	183,100	96,630	44,950	33,290	21,040	34,320	51,170	53,660	122,700	124,900	85,010	111,000
Calendar year 1953: Max		4,150			Min 288		Mean 1,186	Ac-ft 859,000				
Water year 1953-54: Max		5,160			Min -		Mean 1,328	Ac-ft 961,800				

* Discharge measurement made on this day.

d Doubtful gage-height record; discharge estimated by interpolation and gage reading on Dec. 2.

g Computed from once-daily staff-gage reading.

Note.--Considerable leakage through spillway boards and lock Dec. 4 to June 18. Leakage computed on basis of discharge measurements and log of spillway board changes.

Boynton Canal at Boynton Beach, Fla.

Location.--Lat 26°32'20", long 80°03'10", in NE $\frac{1}{4}$ sec. 21, T. 45 S., R. 43 E. near right bank at upstream side of control dam, 0.2 mile upstream from U. S. Highway 1 and three-quarters of a mile north of intersection of U. S. Highway 1 and State Highway 804 in Boynton Beach.

Records available.--July 1941 to June 1943, October 1947, and November 1949 to September 1954 (discharge measurements only).

Gage.--Staff gage read at time of discharge measurements. Prior to May 27, 1952, staff gage read once daily except Saturdays and Sundays. Datum of gage is at mean sea level, datum of 1929. Prior to June 30, 1943, staff gage at site 0.3 mile downstream at datum 0.25 ft higher.

Extremes.--1941-43, 1947, 1949-54: Maximum discharge observed, 2,720 cfs Apr. 18, 1942; minimum observed, 4.0 cfs Nov. 30, 1942.

Remarks.--Flow regulated by manipulation of stoplogs and drum gates in dams by Lake Worth Drainage District for irrigation and drainage. Some diversions by pumping above station for irrigation.

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Nov. 9.....	41.1	May 21.....	312
Jan. 5.....	32.6	June 23.....	1,290
Feb. 9.....	27.9	July 20.....	36.2
Mar. 11.....	243	Aug. 12.....	31.9
Apr. 15.....	31.6	Sept. 28.....	435

Hillsboro Canal near Deerfield Beach, Fla.

Location.--Lat 26°19'39", long 80°07'52", in SW $\frac{1}{4}$ sec. 35, T. 47 S., R. 42 E., at upstream end of lock at right end of dam, 1.8 miles west of Deerfield Beach and 4.4 miles downstream from bridge on State Highway 7.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers benchmark). Prior to Apr. 15, 1940, staff gage at same site at datum 0.92 ft lower. Since July 31, 1947, auxiliary water-stage recorder at downstream end of lock or at site 500 ft downstream from lock.

Extremes.--1939-54: Maximum daily discharge, 3,490 cfs Oct. 12, 1947; maximum gage height, 12.10 ft Oct. 17, 1944, from floodmarks; no flow Dec. 16, 1939, Apr. 11, June 18, 1940; minimum gage height, 3.14 ft Nov. 2, 1953.

Remarks.--Records fair except those for periods of discharge below 300 cfs, which are poor. Flow partly regulated at station by Central and Southern Florida Flood Control District for irrigation and drainage and by flood-control levee, 11 miles above station. Pumps above station divert water for irrigation during growing season. Since September 1952, flow materially affected by control structure 11 miles upstream.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,700	1,490	740			320		990	715	1,500	1,400	1,670
2	2,180	1,350	750				70	375	1,050	1,470	1,380	1,680
3	2,500	1,120	740	75	95			825	1,210	1,440	1,350	1,500
4	2,350	1,230	755		(*)		145	735	1,400	1,390	*1,330	1,460
5	2,180	1,500	880			80	*170	700	1,600	1,360	1,300	1,440
6	1,910	1,410	860				140	675	1,560	1,360	1,270	1,400
7	2,080	1,350	*805			300	180	655	1,540	1,350	1,250	1,400
8	2,580	1,320	820	60	70	185	845	590	1,450	1,380	1,220	1,380
9	*1,290	765	755			255	735	560	1,380	*1,350	1,240	1,340
10	2,450	1,240	775			257	485	550	1,310	1,340	1,240	1,320
11	1,920	1,280	760	140		137	345	495	1,280	1,350	1,220	1,290
12	*1,900	1,420	745	125			160	345	1,260	1,380	1,210	1,280
13	1,780	1,360	725		70		150	270	1,240	1,420	1,200	1,460
14	1,850	1,350	845	90		70	171	295	1,220	1,400	1,190	*1,690
15	1,920	1,280	705				231	250	1,260	1,570	1,160	1,600
16	1,760	1,210	530		145	(*)	195	310	1,320	1,720	1,150	1,460
17	1,860	1,180	520		140		200	650	1,440	1,640	1,120	1,390
18	2,270	1,130	500	65	100	60	197	560	*2,000	1,560	1,050	1,670
19	2,210	1,340	430		*60		140	*410	2,260	1,470	1,010	1,710
20	2,050	1,320	460	(*)		205	129	405	2,100	1,400	980	1,520
21	1,920	1,240	*460			220	276	395	1,950	1,370	910	1,490
22	*1,850	1,190	280			180	500	390	1,820	1,450	880	1,480
23	1,770	*1,150	185	60	75		690	370	1,720	1,520	895	1,660
24	1,730	1,070	188			70	592	344	1,670	1,470	*870	1,920
25	1,680	1,150	340				356	325	1,660	1,470	830	1,780
26	1,600	1,100	270				260	325	1,660	1,460	840	1,720
27	1,670	1,040	150		50		255	580	1,670	1,480	850	1,620
28	*1,690	1,020		80	145	70	*535	975	1,620	1,470	830	1,500
29	1,580	1,000					1,010	759	1,560	1,620	845	1,470
30	1,520	985	105				1,020	675	1,540	1,460	1,010	1,440
31	1,500							615		1,410	1,440	
Total	60,520	37,075	16,443	2,315	2,300	3,609	10,322	16,945	45,445	44,930	54,470	45,740
Mean	1,952	1,236	530	74.7	82.1	116	344	547	1,515	1,449	1,112	1,525
Ac-ft	120,000	73,540	32,610	4,590	4,560	7,160	20,470	33,610	90,140	89,120	68,370	90,720
Calendar year 1953: Max		2,680		Min		Mean 658		Ac-ft	477,000			
Water year 1953-54: Max		2,680		Min		Mean 877		Ac-ft	634,900			

* Discharge measurement made on this day.

Note.--Considerable leakage through spillway boards and lock Nov. 2 to June 3, Aug. 18 to Sept. 1. Leakage computed on basis of discharge measurements and log of spillway board changes.

Middle River Canal near Fort Lauderdale, Fla.

Location.--Lat 26°10'20", long 80°12'15", in NW $\frac{1}{4}$ sec. 24, T. 49 S., R. 41 E., above control on U. S. Highway 441, 3 $\frac{1}{2}$ miles upstream from mouth and 6 $\frac{1}{2}$ miles northwest of Fort Lauderdale.

Records available.--October, November 1947, November 1949 to September 1954 (discharge measurements and field estimates).

Gage.--Reference mark in concrete walk, west side of new bridge. Prior to May 11, 1954, several reference marks near present location. Nov. 3, 1949, to Sept. 14, 1953, staff gage on left bank on upstream side of bridge. Readings weekly or oftener. Datum of reference marks and staff gage is at mean sea level, datum of 1929.

Extremes.--1947, 1949-54: Maximum discharge measured, 282 cfs Oct. 22, 1947; no flow at times.

Remarks.--Regulation by control dam below station. Prior to Feb. 1, 1954, regulation by control dams at and below station. Diversion by pumps below station.

Discharge measurements, in cubic feet per second, water year,
October 1953 to September 1954

Oct. 5.....	86.9	May 11.....	3.5
21.....	75.9	June 9.....	97.9
Nov. 12.....	21.5	July 20.....	74.7
Feb. 4.....	7.6	Aug. 10.....	50.8
Mar. 3.....	12.4	Sept. 17.....	46.2
Apr. 2.....	10.0		

Plantation Road Canal near Fort Lauderdale, Fla.

Location.--Lat 26°08'05", long 80°12'10", in NE $\frac{1}{4}$ sec. 1, T. 50 S., R. 41 E., at bridge on U. S. Highway 441, 1.0 mile upstream from mouth and 5 miles west-northwest of Fort Lauderdale.

Records available.--October, November 1947, November 1949 to September 1954 (discharge measurements and field estimates).

Gage.--Staff gage on southwest bridge abutment. Datum is at mean sea level, datum of 1929. Prior to June 25, 1954, reference mark on southwest bridge abutment. Prior to Sept. 14, 1953, staff gage on right bank 40 ft upstream. Readings made weekly or oftener.

Extremes.--1947, 1949-54: Maximum discharge measured, 1,390 cfs Oct. 17, 1947; reverse flow at times.

Remarks.--Regulation by control dams. Low flow sometimes affected by tides.

Discharge measurements, in cubic feet per second, water year,
October 1953 to September 1954

Oct. 22.....	66.5	Apr. 21.....	0.99
Nov. 16.....	6.35	May 11.....	1.21
Dec. 7.....	-1.89	June 9.....	14.5
23.....	19.9	July 13.....	12.4
Feb. 4.....	10.6	Aug. 10.....	12.8
Mar. 3.....	5.32	Sept. 17.....	9.76

Note.--Negative sign indicates reverse flow.

LAKE OKEECHOBEE AND THE EVERGLADES

North New River Canal at South Bay, Fla.

Location.--Lat 26°40', long 80°43', in sec. 14, T. 44 S., R. 36 E., on right bank on downstream side of lock and dam in South Bay, 410 ft downstream from bridge on State Highway 80 and 2.5 miles south of Lake Okeechobee.

Records available.--November 1939 to September 1954 (prior to March 1942, monthly discharge and discharge measurements only).

Gage.--Staff gage read twice daily. Datum of gage is at mean sea level, datum of 1929.

Extremes.--1939-54: Maximum daily discharge, 1,040 cfs Sept. 30, 1947; maximum gage height observed, 16.39 ft Oct. 15, 16, 1947; maximum reverse flow observed, 445 cfs June 10, 17, 1942; minimum gage height observed, 8.63 ft July 6, 1949.
Flood of July 27, 28, 1926, reached a stage of 20.56 ft, from records by Everglades Drainage District.

Remarks.--Records poor. Lock remained open and dam not operated during year. Flow regulated by hurricane gates at Lake Okeechobee and by drainage pumps. Discharge computed using twice-daily observations of velocity. Records of chemical analyses for the water year 1954 are given in WSP 1350.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	206	73	-68	361	503	522	536	408	76	-176	5	-56
2	194	54	-68	310	497	390	542	431	23	-131	-36	43
3	182	18	-52	333	e490	477	566	408	e298	e130	148	-28
4	217	-18	-78	395	e470	556	566	e480	222	128	51	-19
5	211	-12	170	382	e490	508	530	536	278	120	*164	84
6	187	e-10	16	348	491	575	601	480	255	114	225	160
7	194	e10	-42	362	482	489	590	517	286	-25	246	121
8	404	e40	5	391	659	*414	755	618	308	-30	271	227
9	514	71	-52	414	*491	405	704	636	304	-5	10	233
10	553	70	-62	370	477	397	698	603	358	-168	202	108
11	455	87	-87	484	479	397	645	596	308	168	-117	213
12	375	163	-61	428	510	456	594	519	391	192	-225	211
13	346	82	-115	439	545	469	598	*522	376	-180	-176	274
14	274	70	160	467	535	416	652	584	359	-80	-96	177
15	*306	-23	-20	450	536	575	646	494	275	-338	-229	220
16	261	-12	-82	447	543	687	626	615	49	*-200	-240	*232
17	246	-35	-67	467	510	553	683	644	32	-141	-19	259
18	251	11	-60	496	446	e540	602	616	-61	-144	-62	252
19	288	-11	-90	504	532	e540	626	662	-142	65	-120	227
20	234	-34	-69	442	529	e500	598	577	-62	141	-133	219
21	219	-50	-78	506	502	e500	649	669	-189	35	-57	96
22	204	-78	-49	*561	553	e460	*582	616	-209	117	-107	173
23	191	-83	40	537	504	*510	450	575	-210	225	9	83
24	158	-82	64	594	495	588	607	646	*-273	-75	84	239
25	126	-22	19	553	538	544	582	552	-205	-30	135	20
26	132	5	82	580	496	630	577	505	-232	66	*139	161
27	94	-32	66	551	461	557	480	540	-213	148	226	111
28	93	-49	e66	575	495	586	559	452	-212	45	394	193
29	80	-32	e120	575	-	521	459	484	-256	152	137	271
30	67	-63	e140	544	-	621	405	426	-239	86	69	313
31	67	-	140	563	-	579	-	461	-	225	121	-
Total	7,329	46	-112	14,429	14,269	15,862	17,698	16,872	1,645	434	1,017	4,837
Mean	236	1.60	-3.61	465	510	512	590	544	54.8	14.0	32.8	161
Ac-ft	14,540	95	-222	28,620	28,300	31,460	35,100	33,470	3,260	861	2,020	9,590

Calendar year 1953: Max 642 Min -115 Mean 302 Ac-ft 218,700
 Water year 1953-54: Max 755 Min -338 Mean 258 Ac-ft 187,100

* Discharge measurement made on this day.

e No point-velocity and/or gage-height record; discharge estimated by comparison with unpublished Corps of Engineers records of discharge of North River Canal outlet at Lake Okeechobee and rainfall records.

Note.--Negative figures indicate flow toward Lake Okeechobee.

North New River Canal near Fort Lauderdale, Fla.

Location.--Lat 26°05'39", long 80°13'48", in SW $\frac{1}{4}$ sec. 14, T. 50 S., R. 41 E., on right bank 20 ft upstream from lock and dam on State Highway 84 and 6 miles southwest of Fort Lauderdale.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers benchmark). Prior to Apr. 13, 1940, staff gage at same site and datum. Auxiliary water-stage recorder at downstream end of lock chamber. Aug. 1, 1947, to July 20, 1950, at site 500 ft downstream.

Extremes.--1939-54: Maximum daily discharge, 3,280 cfs Nov. 19, 1947; maximum gage height, 10.85 ft Oct. 17, 1947; minimum daily discharge, 2.4 cfs May 21, 22, 1947; minimum gage height, 0.78 ft Dec. 3, 1942.

Maximum discharge known, 5,400 cfs Oct. 15, 1929 (gage height, 7.66 ft, present datum), from records by Everglades Drainage District.

Remarks.--Records fair. Flow regulated at and above station by dams for irrigation, drainage, and flood and fire control. Several small diversions above station for irrigation. Since February 1952 flow materially affected by control structure at 20-mile bend, 14 miles upstream.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,280	1,550	1,090	1,030	726	856	524	898	1,020	1,400	1,490	1,610
2	1,350	1,560	1,070	1,030	726	960	521	883	1,050	1,380	1,330	*1,630
3	1,420	1,510	1,090	1,020	722	*764	541	852	*989	1,350	1,280	1,570
4	1,450	1,510	1,110	1,020	726	710	584	842	969	1,340	*1,280	1,550
5	1,420	1,510	1,140	998	722	706	570	866	1,070	1,340	1,270	1,530
6	1,340	1,570	1,140	968	734	737	573	860	1,130	1,330	1,270	1,520
7	1,590	1,580	1,120	979	730	845	610	787	1,040	1,410	1,240	1,480
8	1,490	1,590	1,090	868	742	819	969	779	1,060	1,400	1,240	1,390
9	1,530	1,550	1,100	823	*711	867	1,100	766	1,060	1,400	1,270	1,260
10	1,440	1,440	1,090	860	690	864	1,020	756	1,100	1,420	1,120	1,220
11	1,440	1,500	1,100	911	644	779	970	*738	1,270	1,430	1,170	1,170
12	1,410	*1,280	1,120	941	607	724	902	763	1,270	1,490	1,170	1,140
13	1,400	1,340	1,100	921	604	736	877	940	1,260	*1,420	1,230	1,250
14	1,400	1,320	1,130	933	607	736	911	990	1,260	1,440	1,250	1,270
15	1,430	1,310	969	921	632	728	908	960	1,330	1,540	1,260	1,180
16	1,460	1,360	873	887	629	706	897	991	1,350	1,570	1,250	1,220
17	1,470	1,370	902	882	636	696	889	1,100	1,400	1,500	1,280	1,190
18	1,520	1,370	923	879	629	696	857	876	1,520	1,440	1,230	1,360
19	1,610	1,350	915	879	622	598	831	785	1,550	1,500	1,140	1,220
20	1,700	1,330	911	*847	622	602	822	751	1,400	1,530	1,130	1,160
21	*1,680	1,330	947	839	622	634	*846	760	1,390	1,510	1,180	1,190
22	1,620	1,340	951	839	658	602	898	869	*1,420	1,490	1,220	1,270
23	1,600	*1,320	*959	844	640	580	980	946	1,390	1,530	1,210	*1,260
24	1,520	1,310	1,010	834	636	577	1,000	940	1,390	1,520	1,210	1,270
25	1,490	1,220	977	814	640	*570	984	932	1,360	1,630	1,210	1,300
26	1,520	1,240	959	770	622	562	956	927	1,380	1,660	1,210	1,290
27	1,580	1,220	1,020	778	622	555	929	1,070	1,320	1,600	1,210	1,310
28	1,630	1,220	1,040	782	678	552	905	1,290	1,160	1,580	1,190	1,410
29	1,620	1,210	1,050	770	-	541	912	1,180	1,310	1,480	1,220	1,400
30	1,600	1,200	1,040	758	-	541	906	1,090	1,290	1,480	1,300	1,350
31	1,570	-	1,040	738	-	527	-	987	-	1,520	1,380	-
Total	46,360	41,310	31,976	27,363	18,579	21,370	25,192	28,174	37,448	45,630	38,440	39,950
Mean	1,496	1,377	1,031	883	664	689	840	909	1,248	1,472	1,240	1,332
Ac-ft	91,990	81,940	63,420	54,270	36,850	42,390	49,970	55,880	74,280	90,510	76,240	79,240
Calendar year 1953: Max	1,700				Min -		Mean 712	Ac-ft 515,800				
Water year 1953-54: Max	1,700				Min 521		Mean 1,101	Ac-ft 797,000				

* Discharge measurement made on this day.

Note.--Stage-discharge relation affected by backwater from aquatic vegetation or varying leakage through dam for greater portion of year.

Miami Canal at water plant, Hialeah, Fla.

Location.--Lat 25°49'38", long 80°17'15", in SW $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E., on left bank at Miami water plant in Hialeah, on U.S. Highway 27, half a mile upstream from 54th Street Bridge.

Records available.--January 1940 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 0.01 ft below mean sea level, datum of 1929 (levels by Dade County). Since Oct. 1, 1946, auxiliary water-stage recorder on right bank above boat-lift and dam, about 150 ft downstream from 36th Street Bridge and 2 miles downstream from gaging station in Hialeah. Nov. 8, 1940, to Sept. 30, 1946, auxiliary water-stage recorder on Biscayne Bay at Coconut Grove and since Oct. 1, 1946, at site 2 miles downstream from base gage.

Extremes.--1940-54: Maximum daily discharge, 4,170 cfs Oct. 15, 1947; maximum gage height, 7.34 ft Oct. 15, 1947; maximum reverse flow measured, 390 cfs June 23, 1943; minimum gage height, -0.67 ft July 2, 1943, Mar. 22, 1945.

Remarks.--Records fair. Flow affected by tide; discharge computed by using gage heights and tide ranges at auxiliary gage as a factor. Some seepage losses above station into city of Miami well field for recharge of ground-water withdrawals. Since July 1952, flow materially affected by levee and control structures 12 miles upstream. Records of chemical analyses for the water year 1954 are given in WSP 1350.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,220	1,510	1,400	1,190	905	808	620	706	1,020	*1,170	941	757
2	1,370	1,500	1,390	1,180	895	783	635	708	*1,090	1,120	920	824
3	1,350	1,480	1,370	1,170	*895	773	691	696	1,140	1,100	905	834
4	1,440	1,470	1,380	1,160	900	773	722	696	1,180	1,080	880	829
5	1,480	1,480	1,400	1,140	890	773	742	701	1,210	1,060	864	824
6	1,470	1,490	1,390	1,130	890	778	742	711	1,180	1,060	844	803
7	1,520	1,480	1,380	1,120	880	803	737	696	1,140	1,040	834	818
8	1,580	1,440	1,370	1,100	880	788	*829	676	1,110	1,030	834	813
9	1,600	1,420	1,350	1,100	834	793	844	660	1,080	1,020	854	813
10	1,600	1,410	1,340	1,090	824	808	824	640	1,040	1,040	839	803
11	1,560	1,400	1,330	1,090	818	*793	793	620	1,010	1,090	829	808
12	1,550	1,440	1,320	1,080	808	783	773	635	997	1,050	818	813
13	1,540	*1,460	1,310	1,060	798	762	773	798	966	1,050	808	864
14	1,530	1,460	*1,320	1,050	793	737	773	813	987	1,030	808	905
15	*1,530	1,470	1,310	1,050	793	722	762	798	1,000	1,050	798	915
16	1,530	1,470	1,300	1,050	783	696	752	773	*1,000	*1,070	788	*915
17	1,530	1,490	1,280	1,040	*762	686	737	803	1,010	1,060	*773	956
18	1,560	1,510	1,260	1,020	768	696	722	*773	1,040	1,040	742	1,020
19	1,580	1,510	1,250	*1,010	757	701	711	757	1,100	1,040	742	1,060
20	1,580	1,500	1,240	1,000	747	762	701	737	1,110	1,020	716	1,090
21	1,560	1,510	1,240	1,000	742	742	706	722	1,110	997	706	1,070
22	1,540	1,500	1,240	992	727	727	*722	706	1,140	992	732	1,050
23	1,550	1,510	1,230	977	711	706	727	701	1,250	987	752	1,050
24	1,520	1,500	1,280	961	701	691	696	686	1,240	977	742	1,030
25	1,520	1,490	1,270	946	691	671	666	660	1,280	992	737	1,040
26	1,520	1,490	1,260	956	686	650	666	671	1,290	997	742	1,040
27	1,530	*1,480	1,230	951	676	630	691	808	1,270	992	737	1,030
28	1,580	1,460	1,230	931	768	625	*716	946	1,240	992	742	1,020
29	1,580	1,440	*1,220	920	-	625	727	956	1,230	992	747	*1,030
30	*1,560	1,430	1,210	915	-	*620	737	951	1,180	*987	737	1,020
31	1,530	-	1,200	910	-	620	-----	946	-----	966	*742	-----
Total	47,080	44,180	40,300	32,289	22,322	22,525	21,937	23,148	33,640	32,091	24,653	27,844
Mean	1,519	1,473	1,300	1,042	797	727	731	747	1,121	1,035	795	928
Ac-ft	93,380	87,630	79,930	64,040	44,280	44,680	43,510	45,910	66,720	63,650	48,900	55,230

Calendar year 1953: Max 1,600 Min - Mean 830 Ac-ft 600,900

Water year 1953-54: Max 1,600 Min 620 Mean 1,019 Ac-ft 737,900

*Discharge measurement made on this day.

Tamiami Canal outlets, Miami to Monroe, Fla.

Location.--Lat 25°45'40", long 80°49'40", in NE¼ sec. 21, T. 54 S., R. 35 E., at 40-mile bend on U. S. Highway 41, 38 miles west of Miami.

Records available.--November 1939 to September 1954. Prior to October 1948, published as Tamiami Canal outlets west of Miami.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to July 28, 1942, staff gage at site 17 miles west of Miami and July 28, 1942, to Sept. 30, 1945, at site 15 miles west of Miami at present datum. Oct. 1, 1945, to Aug. 30, 1949, staff gage at present site at datum 0.87 ft lower and Aug. 31, 1949, to Dec. 28, 1951, at present site and datum.

Extremes.--1939-54: Maximum daily discharge, 17,000 cfs Oct. 12, 1947, from rating curve extended above 9,800 cfs; maximum daily reverse flow, 2.0 cfs May 1-10, 1949; no flow for several days in some years.

Remarks.--Records fair above 100 cfs and poor below. Figures of daily discharge consist of runoff from the Everglades as represented by flow through all outlets of Tamiami Canal from Monroe, 55 miles west of Miami, to point 18 miles west of Miami where a levee aids in diverting flow southward through 60 outlets. Since July 1952, flow affected by extensive levee and control works to the north for agricultural and flood control purposes.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,310	4,480	3,190	2,340	960	317	85	90	569	2,130	2,040	*2,580
2	3,310	4,480	3,120	2,290	928	301	80	85	*681	2,000	2,040	3,050
3	3,370	4,370	*3,060	2,240	896	301	75	80	680	1,920	2,000	2,980
4	3,430	4,300	3,000	2,190	864	286	70	75	763	1,790	1,960	2,860
5	3,250	4,300	3,120	2,140	832	270	65	70	893	1,760	1,870	2,790
6	3,120	4,370	3,120	2,090	800	270	65	65	1,140	1,870	1,870	2,680
7	3,430	4,370	3,120	2,040	774	317	60	50	1,540	1,830	1,790	2,630
8	4,300	4,300	3,060	1,940	774	301	60	40	1,440	1,790	1,760	2,470
9	3,960	4,250	3,000	1,900	748	332	70	30	*1,380	1,760	1,760	2,510
10	4,300	4,160	2,940	1,850	721	355	70	20	1,320	1,870	1,790	2,170
11	4,300	4,100	2,890	1,850	669	317	65	10	1,230	1,870	1,830	2,090
12	4,160	4,160	2,830	1,850	643	*301	60	30	1,200	1,920	1,790	2,130
13	4,100	4,230	2,780	1,810	617	286	55	138	1,170	1,790	1,760	2,310
14	*4,030	4,230	2,830	1,760	590	270	55	196	1,170	*1,720	1,760	2,420
15	3,960	4,160	2,780	*1,720	564	240	55	206	1,290	1,690	1,760	*2,680
16	3,960	4,100	2,720	1,680	*517	209	50	235	1,320	1,690	1,720	2,580
17	3,890	3,960	*2,660	1,630	497	193	45	260	1,380	1,610	1,690	2,520
18	3,960	*3,960	2,610	1,590	456	168	40	*260	1,540	1,610	*1,720	2,420
19	4,030	3,890	2,550	1,540	435	146	30	260	1,760	1,580	1,720	2,470
20	4,100	3,820	2,500	1,500	414	270	*20	248	1,830	1,540	1,680	2,420
21	4,160	3,760	2,500	1,460	394	286	15	235	1,870	1,470	1,650	2,310
22	4,160	3,690	2,440	1,420	353	255	10	235	2,040	1,440	1,690	2,510
23	4,100	3,560	2,390	1,390	317	240	20	225	2,260	1,410	1,720	2,860
24	4,100	3,500	2,440	1,310	301	224	50	216	2,260	1,610	1,720	3,510
25	4,100	3,500	2,550	1,270	270	193	55	196	2,420	1,760	1,720	3,180
26	4,030	3,430	2,550	1,230	255	168	70	186	2,520	1,830	1,790	3,180
27	*4,100	3,370	2,550	1,200	224	146	75	322	2,470	1,870	1,830	3,050
28	4,230	3,310	*2,500	*1,120	270	136	85	360	2,420	1,830	1,760	2,980
29	4,370	3,250	2,440	1,090	-	115	*85	406	*2,370	*1,960	1,720	2,740
30	4,370	3,190	2,390	1,060	-	*100	90	422	2,260	1,960	1,920	*2,580
31	4,370	-	2,390	1,020	-	90	-	468	-	1,960	2,130	-
Total	122,360	118,470	85,020	51,520	16,083	7,401	1,730	5,719	47,166	54,840	55,970	79,060
Mean	3,947	3,949	2,743	1,662	574	239	57.7	184	1,572	1,768	1,805	2,635
Ac-ft	242,700	235,000	168,600	102,200	31,900	14,680	3,430	11,340	93,550	108,600	111,000	156,800

Calendar year 1953: Max 4,450 Min 0 Mean 1,269 Ac-ft 918,900
 Water year 1953-54: Max 4,450 Min 10 Mean 1,768 Ac-ft 1,280,000

* Discharge measurement made on this day.

Note.--Stage-discharge relation indefinite Mar. 30 to May 12; discharge estimated on basis of 3 discharge measurements, weather records, and recorded gage heights.

LAKE OKEECHOBEE AND THE EVERGLADES

Barron River Canal near Everglades, Fla.

Location.--Lat 25°58', long 81°21', in NW $\frac{1}{4}$ sec. 7, T. 52 S., R. 30 E., on right bank 40 ft upstream from dam, 0.7 mile north of Copeland, 7 miles north of town of Everglades, and $7\frac{1}{2}$ miles upstream from mouth.

Records available.--July to December 1951 (discharge measurements only), January 1952 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level (State Road Department benchmark). Prior to Jan. 24, 1952, staff gage at same site and datum.

Extremes.--1952-54: Maximum daily discharge, 146 cfs Oct. 10, 1953; maximum gage height, 6.28 ft Oct. 10, 1953; no flow May 17, 18 (revised), 1952; minimum gage height, 1.47 ft May 15, 16, 1952.

1951: Maximum discharge measured, 162 cfs Oct. 26, 1951.

Flood in October 1947 reached a stage of about 7 ft, from information by local resident.

Remarks.--Records fair. Flow regulated by operation of dams at, above, and below station. Overbank flow above gage height 4.5 ft not included in discharge figures.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*130	118	105	89	69	86	58	90	94	108	124	*97
2	130	118	104	88	68	80	56	88	97	106	124	102
3	131	117	103	88	67	78	55	99	97	104	125	102
4	131	116	103	87	66	75	56	96	97	104	126	102
5	130	116	104	86	64	72	59	94	99	105	126	102
6	129	115	103	86	63	74	58	91	100	104	126	102
7	129	114	103	85	62	78	59	85	100	102	126	102
8	136	114	102	84	62	75	73	81	100	104	125	102
9	144	114	102	83	61	78	81	75	*99	104	128	102
10	146	113	102	82	60	78	80	72	97	104	131	103
11	144	113	102	85	59	75	77	67	95	104	128	104
12	142	112	102	86	58	*73	78	71	95	105	127	104
13	140	112	102	83	57	71	93	99	96	108	126	107
14	138	112	103	82	56	69	95	103	98	*108	125	109
15	136	111	102	82	56	67	95	102	100	112	125	*111
16	134	110	102	81	55	63	92	102	102	118	126	108
17	132	110	101	80	55	61	90	100	102	120	126	107
18	131	110	100	79	54	60	86	*98	102	120	*126	112
19	131	109	99	78	53	60	83	96	104	119	124	118
20	130	109	98	78	52	82	*80	94	104	120	124	118
21	129	108	98	77	62	80	84	92	103	120	119	117
22	126	108	97	78	59	77	98	92	104	120	116	119
23	126	108	*98	78	56	74	114	99	*106	118	114	124
24	124	108	97	77	57	71	120	97	107	118	111	128
25	123	*110	96	76	58	69	115	93	107	118	108	132
26	*122	109	96	74	56	67	111	90	108	118	106	138
27	122	108	94	74	55	65	108	92	109	119	104	140
28	121	108	93	73	55	63	102	94	110	120	103	140
29	120	106	92	72	-	62	97	92	110	*120	100	138
30	120	106	92	71	-	60	94	90	108	120	98	137
31	119	-----	91	70	-----	59	-----	90	-----	122	95	-----
Total	4,045	3,342	3,086	2,492	1,679	2,202	2,548	2,826	3,050	3,492	3,692	3,427
Mean	130	111	99.5	80.4	60.0	71.0	84.9	91.2	102	113	119	114
Ac-ft	8,020	6,630	6,120	4,940	3,330	4,370	5,050	5,610	6,050	6,930	7,320	6,800
Calendar year 1953: Max	146			Min 12		Mean 73.1	Ac-ft 52,920					
Water year 1953-54: Max	146			Min 53		Mean 98.3	Ac-ft 71,170					

* Discharge measurement made on this day.

Imperial River near Bonita Springs, Fla.

Location.--Lat 26°20', long 81°45', in sec. 36, T. 47 S., R. 25 E., on right bank $1\frac{1}{2}$ miles east of Bonita Springs.

Records available.--May 1940 to November 1954 (discontinued).

Gage.--Water-stage recorder and wooden control. Datum of gage is at mean sea level, datum of 1929. Prior to Sept. 10, 1941, staff gage at same site and datum.

Average discharge.--14 years, 86.0 cfs.

Extremes.--Maximum discharge during period October 1953 to November 1954, 801 cfs Oct. 9, 1953 (gage height, 8.56 ft); minimum daily, 0.7 cfs Feb. 18, 19; minimum gage height observed, 2.15 ft Feb. 19.

1940-54: Maximum discharge observed, 2,890 cfs Sept. 12, 1940; maximum gage height, 12.74 ft Oct. 2, 1951; no flow June 28 to July 3, 1940.

Flood of June 15, 1936, reached a stage of 13.4 ft, from floodmarks.

Remarks.--Records poor.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	391	e143	32	9.4	a1.5	2.1	1.2	1.6	3.2	*2.4	e214	98
2	385	e138	30	a1.4	1.7	1.2	1.4	2.6	2.1	e200	e112	
3	e350	e130	27	8.2	a1.3	1.6	1.2	1.2	2.4	1.8	e186	e103
4	e327	e122	25	7.9	1.2	1.6	1.2	1.2	2.4	2.6	e175	a102
5	e298	e119	27	7.1	1.4	1.6	1.2	1.2	2.4	8.2	e163	a93
6	e276	e112	26	6.8	1.6	1.6	*1.2	1.2	2.4	5.6	e150	a87
7	e252	e103	23	5.9	1.6	1.8	1.4	1.2	2.1	4.0	e139	78
8	294	e95	21	5.3	1.8	1.6	1.4	1.1	1.8	5.8	e132	66
9	596	e91	18	5.0	1.6	1.8	1.6	1.1	1.6	5.9	e126	e57
10	624	e85	20	5.0	1.4	1.8	1.6	1.0	1.6	14	e116	e49
11	e540	e82	22	5.3	1.2	1.6	1.6	1.1	1.6	10	e108	e43
12	*e498	e78	21	5.0	1.1	1.6	1.4	1.1	1.4	7.8	e101	e49
13	e478	e76	19	4.5	1.4	1.4	1.4	2.4	1.4	7.8	e90	69
14	540	73	23	*4.5	1.2	1.6	1.6	1.8	1.4	5.9	e80	e76
15	e473	68	19	4.0	a1.0	1.6	1.8	1.8	1.2	9.6	e71	e85
16	e428	65	16	3.7	a.8	1.4	1.6	1.8	1.2	*13	e63	e68
17	e385	60	14	3.4	a.8	1.4	1.6	1.8	1.1	23	e56	e64
18	e403	58	12	3.2	a.7	1.2	1.6	1.6	1.4	e46	e52	e122
19	e434	54	11	3.2	.7	1.2	1.6	*1.4	1.6	e56	49	e184
20	e376	50	10	2.9	a.8	1.8	1.6	1.4	1.8	e99	46	e142
21	e336	48	9.7	2.6	a.8	1.6	1.4	1.4	2.6	e163	40	e139
22	e303	46	9.4	2.4	a1.0	1.1	1.2	1.2	4.0	e154	36	e167
23	e274	43	11	2.1	*1.2	1.2	1.2	1.2	4.2	e148	32	e231
24	e252	40	19	1.8	1.6	1.2	1.4	1.2	5.3	e142	29	e224
25	e235	*47	18	1.8	2.4	1.0	1.4	1.2	5.0	e143	28	e247
26	e217	45	16	1.8	2.4	1.1	1.2	1.2	6.9	e173	26	273
27	e203	40	14	a1.8	2.1	1.2	1.1	1.2	5.9	e193	*21	e248
28	e192	38	13	a1.8	2.1	1.2	1.2	1.2	4.2	e210	18	e224
29	e178	36	12	1.8	-	1.1	1.4	1.1	2.9	e228	e34	e195
30	e159	34	11	1.6	-	1.1	1.6	1.2	2.4	e222	e53	e184
31	e150	11	11	a1.8	-	1.2	---	2.1	---	e224	e44	---
Total	10,847	2,217	560.1	130.4	38.1	44.9	42.1	42.6	80.0	2,330.3	2,678	3,879
Mean	350	73.9	18.1	4.21	1.36	1.45	1.40	1.37	2.67	75.2	86.4	129
Ac-ft	21,510	4,400	1,110	259	76	89	84	84	159	4,620	5,310	7,690

Calendar year 1953: Max 762 Min 0.7 Mean 97.8 Ac-ft 70,790

Water year 1953-54: Max 624 Min 0.7 Mean 62.7 Ac-ft 45,390

Peak discharge (base, 310 cfs).--Oct. 9 (5:30 p.m.) 801 cfs (8.56 ft); Oct. 18 (10 p.m.) 485 cfs (7.19 ft); Sept. 25 (7:30 p.m.) 324 cfs (5.57 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage.

e Tide affected for portion of day; discharge computed on basis of effective gage heights.

Discharge, in cubic feet per second, 1954

Day	Oct.	Nov.	Day	Oct.	Nov.	Day	Oct.	Nov.	Day	Oct.	Nov.
1	e175	43	9	e219	20	17	e102	29	25	e56	-
2	e182	40	10	e219	18	18	e91	27	26	e53	-
3	e178	36	11	*e201	16	19	e85	*24	27	e50	-
4	e169	32	12	e179	16	20	e79	-	28	e48	-
5	e158	30	13	e160	17	21	e73	-	29	e46	-
6	e144	27	14	e147	22	22	e68	-	30	e44	-
7	e148	24	15	e136	38	23	e63	-	31	48	-
8	e189	22	16	e117	32	24	e60	-			
Total									3,697	-	-
Mean									119	-	-
Runoff in acre-feet									7,330	-	-

Peak discharge (base, 310 cfs).--No peak above base.

* Discharge measurement made on this day.

e Tide affected for portion of day; discharge computed on basis of effective gage heights.

Caloosahatchee Canal at Moore Haven, Fla.

Location.--Lat 26°50', long 81°05', in sec. 12, T. 42 S., R. 32 E., on right bank at Moore Haven, 0.5 mile downstream from hurricane gate and lock 1 at Lake Okeechobee Outlet and 15 miles upstream from lock 2.

Records available.--July 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Jan. 17, 1952, at datum 1.44 ft lower. Auxiliary water-stage recorder a quarter of a mile upstream from Lake Hicpochee and 2.5 miles downstream from base gage.

Extremes.--1938-54: Maximum discharge measured, 5,930 cfs Nov. 6, 1947; maximum daily, 5,660 cfs Dec. 8, 1945; lock closed and flow consists of leakage and lockage (estimated as 10 cfs) during several periods in each year.

Remarks.--Flow regulated by lock 1 at Lake Okeechobee.

Cooperation.--Since July 1951, records furnished by Corps of Engineers.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,700	3,600	4,610	4,450	3,950	4,360	3,790	4,110	3,760	4,110	-	3,410
2	2,550	4,390	4,690	4,530	4,430	3,950	4,110	4,000	3,510	4,010	1,790	3,470
3	2,690	4,650	4,450	4,540	4,010	4,200	4,110	4,200	3,510	4,340	3,350	3,300
4	3,310	4,140	4,470	4,520	4,040	4,240	4,120	3,680	3,490	3,830	3,340	3,530
5	3,390	4,010	4,450	4,400	4,680	4,290	4,330	3,840	3,390	3,840	3,720	3,620
6	3,260	3,920	4,550	4,550	4,200	3,900	4,050	4,150	3,360	4,040	3,750	3,700
7	3,220	3,810	4,320	4,620	4,140	4,430	3,840	4,150	3,680	3,400	3,630	2,150
8	3,220	3,890	4,550	4,670	4,230	4,450	4,020	4,110	4,010	3,610	3,900	-
9	2,290	3,650	4,530	4,440	4,240	4,140	3,980	3,710	3,670	3,600	3,950	-
10	-	3,760	4,420	4,590	4,250	3,760	3,980	3,980	3,870	3,500	3,610	-
11	-	3,850	4,460	4,370	4,400	4,410	3,780	3,940	3,910	2,720	3,850	-
12	-	3,840	4,410	4,260	4,230	3,770	3,950	4,060	3,800	3,690	3,540	-
13	-	4,500	4,380	4,410	4,080	3,540	4,120	3,990	3,890	3,390	3,410	-
14	-	4,210	4,450	4,490	4,450	3,420	3,950	3,840	3,680	3,300	3,280	-
15	1,440	4,540	4,500	4,520	3,970	3,640	3,840	4,020	3,740	1,610	3,520	-
16	1,970	4,570	4,580	4,560	4,130	3,220	4,060	3,920	3,620	-	3,620	-
17	2,730	4,480	4,480	4,560	4,110	2,980	3,890	4,000	3,700	1,600	3,430	-
18	2,560	4,390	4,460	4,490	3,800	3,780	4,040	3,980	3,790	2,480	3,470	-
19	2,540	4,450	4,540	4,610	4,260	4,130	3,850	3,890	3,680	2,510	3,490	-
20	2,640	4,520	4,540	4,580	4,020	4,080	4,010	3,660	2,230	2,650	3,550	-
21	2,580	4,690	4,500	4,660	4,000	4,080	4,110	3,710	998	2,660	3,750	-
22	2,940	4,440	4,770	4,610	3,900	4,100	3,910	3,920	58	2,710	3,710	-
23	3,120	4,660	4,470	4,270	4,170	4,240	3,840	4,130	-	2,650	3,550	-
24	3,270	4,630	4,590	4,480	4,010	4,080	3,840	4,110	-	2,570	3,460	-
25	3,400	4,380	4,610	4,550	4,080	4,240	4,040	3,790	1,720	2,820	3,530	-
26	3,470	4,410	4,450	4,560	4,180	3,850	4,040	3,920	3,400	2,730	3,520	-
27	3,480	4,480	4,480	4,480	4,220	4,110	4,100	3,740	3,540	2,800	3,370	-
28	3,440	4,620	4,330	4,430	4,250	4,140	3,890	3,730	3,780	2,760	3,290	200
29	3,480	4,540	4,580	4,490	-	3,980	4,010	3,270	3,790	567	3,290	1,750
30	3,540	4,680	4,400	4,370	-	4,130	3,910	3,410	3,920	-	3,430	2,650
31	3,520	-	4,470	4,400	-	4,160	-	3,600	-	-	3,420	-
Total	-	128,680	139,470	139,480	116,430	123,800	119,510	120,560	-	-	-	-
Mean	-	4,289	4,499	4,489	4,158	3,994	3,984	3,989	-	-	-	-
Ac-ft	-	255,200	276,600	276,700	230,900	245,600	237,000	239,100	-	-	-	-

Calendar year 1953: Max 4,770 Min - Mean - Ac-ft -
 Water year 1953-54: Max 4,770 Min - Mean - Ac-ft -

* Discharge measurement made on this day.

Note.--On days for which no discharge is shown, flow consists of leakage and lockage (estimated to be about 10 cfs).

Drainage canal west of Dundee, Fla.

Location.--Lat 28°01', long 81°38', in sec. 29, T. 28 S., R. 27 E., on right bank at upstream side of bridge on State Highway 542, 1.2 miles west of Dundee and 1.4 miles downstream from Lake Hamilton Outlet.

Drainage area.--50 sq mi, approximately.

Records available.--December 1946 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 114.08 ft above mean sea level, datum of 1929. Prior to Jan. 25, 1950, at same site and datum and Jan. 25, 1950, to July 26, 1951, at site 150 ft downstream at same datum.

Average discharge.--7 years (1947-54), 40.7 cfs.

Extremes.--Maximum discharge during year, 222 cfs Oct. 4 (gage height, 6.88 ft); minimum, 1.3 cfs Sept. 12.
1946-54: Maximum discharge, 231 cfs Sept. 22, 1948 (gage height, 7.37 ft); minimum, 0.2 cfs Mar. 28, 1949, June 16, 1950.

Remarks.--Records good. Slight regulation at low flow by Lake Hamilton control.

Correction.--The maximum discharge (202 cfs) for the 1953 water year, published in WSP 1274, occurred on a rising stage at 12 p.m. Sept. 30, and was not the peak for that flood; maximum peak discharge for 1953 water year, 136 cfs Aug. 23 1953 (gage height, 5.37 ft).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

2.4	1.5	3.5	35
2.5	2.7	4.0	59
2.6	5.0	5.0	114
3.0	17	6.9	223

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*204	99	96	143	64	63	28	21	2.6	7.1	16	7.1
2	204	96	96	139	*62	57	26	17	2.2	7.9	15	6.3
3	207	95	92	136	59	54	25	14	4.5	7.1	14	5.5
4	220	93	102	133	57	53	24	13	51	6.8	13	4.4
5	215	90	173	130	53	49	24	12	81	6.0	12	4.1
6	211	89	174	126	52	49	23	11	49	5.5	11	4.4
7	200	86	172	121	49	55	24	11	34	7.3	10	3.9
8	199	83	163	117	49	50	29	9.8	*27	14	10	*2.9
9	210	81	156	114	46	47	25	9.0	23	17	9.8	2.4
10	213	80	156	110	44	45	23	8.2	20	18	9.0	1.9
11	208	81	147	115	52	43	22	7.6	18	23	7.6	1.6
12	196	*79	148	116	69	42	21	6.6	16	26	7.1	1.6
13	193	77	140	110	74	50	20	7.3	15	21	6.6	1.8
14	185	76	151	107	95	65	20	8.4	14	18	6.3	1.8
15	178	74	160	104	91	63	19	8.2	13	23	5.8	2.2
16	171	73	168	100	86	59	18	7.3	14	35	5.8	2.7
17	166	72	165	99	81	54	17	6.6	9.0	28	5.0	2.6
18	165	70	161	96	76	50	16	5.5	7.6	24	4.4	2.6
19	166	57	153	94	70	49	15	4.1	19	22	3.6	4.1
20	154	44	148	93	66	51	14	6.0	19	19	3.0	3.9
21	136	48	148	97	68	49	13	6.0	16	17	2.7	3.0
22	131	48	147	98	68	46	13	4.4	14	15	3.6	9.1
23	125	46	171	92	60	43	12	5.2	14	14	7.3	20
24	121	64	182	84	47	*42	12	2.7	13	14	5.5	28
25	118	180	179	81	49	39	11	2.3	12	13	4.1	47
26	115	148	176	78	44	38	12	2.0	10	*14	4.1	35
27	112	130	172	76	52	35	15	2.4	9.8	23	3.9	46
28	112	116	*164	73	65	34	13	2.6	8.7	22	3.4	45
29	110	102	161	71	-	33	*13	2.4	7.9	22	3.9	34
30	107	97	156	68	-----	31	14	2.7	7.1	19	3.9	30
31	102	-----	148	67	-----	29	-----	2.7	-----	17	8.7	-----
Total	5,154	2,576	4,725	3,188	1,748	1,467	561	227.0	551.4	525.7	226.1	364.9
Mean	166	85.9	152	103	62.4	47.3	18.7	7.32	18.4	17.0	7.29	12.2
Cfsm	3.32	1.72	3.04	2.06	1.25	0.946	0.374	0.146	0.368	0.340	0.146	0.244
In.	3.83	1.92	3.51	2.37	1.30	1.09	0.42	0.17	0.41	0.39	0.17	0.27
Calendar year 1953: Max	220				Min 2.4	Mean 56.3	Cfsm 1.13	In. 15.28				
Water year 1953-54: Max	220				Min 1.6	Mean 58.4	Cfsm 1.17	In. 15.85				

* Discharge measurement made on this day.

Peace Creek Marsh outlet near Alturas, Fla.

Location.--Lat 27°55', long 81°43', in sec. 34, T. 29 S., R. 26 E., near left bank at upstream side of highway bridge half a mile north of State Highway 60, 3.5 miles north of Alturas, and 8½ miles east of Bartow.

Drainage area.--150 sq mi, approximately.

Records available.--January 1947 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 97.67 ft above mean sea level, datum of 1929 (State Road Department benchmark).

Average discharge.--7 years, 134 cfs.

Extremes.--Maximum discharge during year, 1,020 cfs Oct. 10 (gage height, 9.90 ft); minimum, 14 cfs Sept. 21, 22; minimum gage height, 2.94 ft Sept. 22.
1947-54: Maximum discharge, 1,740 cfs Aug. 28, 29, 1949; maximum gage height, 11.67 ft Aug. 28, 1949; minimum discharge, 4.9 cfs May 26-28, 1949 (gage height, 2.61 ft).
Maximum stage known, 13.3 ft in 1928, from information by local resident (discharge, 2,540 cfs, from rating curve extended above 1,600 cfs).

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Feb. 15				Feb. 16 to Mar. 23		Mar. 24 to Sept. 30			
4.3	79	8.0	545	4.1	70	2.9	12	4.5	104
5.0	133	9.8	1,000	4.9	125	3.5	37	5.0	158
7.0	364					4.0	63	6.0	287

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	675	212	393	310	120	113	52	86	50	32	137	32
2	*658	201	357	290	*115	105	50	64	43	29	97	28
3	642	191	350	277	111	101	48	53	40	27	78	25
4	651	183	312	267	106	97	51	48	145	25	68	23
5	644	176	493	256	102	91	57	44	255	25	59	23
6	623	172	560	246	97	90	53	39	178	29	53	23
7	592	167	532	235	93	105	66	36	117	55	90	22
8	630	159	487	224	93	100	98	33	*90	100	162	*20
9	798	153	443	214	91	96	83	31	74	95	95	18
10	1,000	148	400	206	86	94	70	29	63	162	70	17
11	994	155	372	244	85	89	63	28	56	214	56	16
12	918	150	349	289	103	85	57	27	49	166	48	15
13	832	*146	336	268	105	84	53	29	45	128	42	16
14	751	140	353	250	125	101	56	32	44	100	37	16
15	677	136	361	235	127	100	51	31	42	114	36	16
16	618	130	351	225	122	95	47	29	42	214	*39	16
17	564	126	345	213	117	89	45	27	41	142	34	15
18	534	122	327	204	112	83	42	25	38	104	31	15
19	532	118	308	196	108	79	40	24	50	85	28	15
20	505	95	290	191	103	88	38	180	60	75	26	15
21	464	105	293	189	109	85	36	139	53	74	24	14
22	414	104	303	188	119	80	37	83	47	62	23	16
23	376	105	381	178	110	75	39	62	44	57	26	27
24	346	151	524	164	102	*71	42	51	42	54	26	29
25	321	821	505	155	109	68	41	43	40	51	24	39
26	299	921	470	150	103	66	38	38	37	58	22	77
27	280	807	432	145	97	65	39	48	35	*263	21	154
28	266	663	*393	140	115	61	38	53	32	202	21	146
29	259	547	366	134	-	59	*37	50	29	148	21	106
30	243	457	345	128	-	56	64	55	30	116	24	81
31	225	-	328	124	-	54	-	51	-	104	32	-
Total	17,321	7,761	12,039	6,535	2,983	2,623	1,531	1,568	1,911	3,110	1,550	1,075
Mean	559	259	388	211	107	84.6	51.0	50.6	63.7	100	50.0	35.8
Cfs/m	3.73	1.73	2.59	1.41	0.713	0.564	0.340	0.337	0.425	0.667	0.333	0.239
In.	4.23	1.92	2.98	1.62	0.74	0.65	0.38	0.39	0.47	0.77	0.39	0.27
Calendar year 1953: Max	1,000			Min 13		Mean 213		Cfs/m 1.42		In. 19.24		
Water year 1953-54: Max	1,000			Min 14		Mean 164		Cfs/m 1.09		In. 14.86		

* Discharge measurement made on this day.

Lulu Lake Outlet at Eloise, Fla.

Location.--Lat 27°59', long 81°43', in SE $\frac{1}{4}$ sec. 5, T. 29 S., R. 26 E., on left downstream abutment of culvert on State Highway 540A at intersection with old Rifle Range Road, 1,800 ft downstream from concrete control at outlet of Lulu Lake and 0.8 mile southeast of Eloise.

Drainage area.--26 sq mi, approximately.

Records available.--February 1946 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 120.00 ft above mean sea level, datum of 1929. Prior to Jan. 8, 1953, at site 1,500 ft upstream at same datum.

Extremes.--Maximum discharge during year, 178 cfs Dec. 14, caused by failure of control at outlet of Lulu Lake 1,800 ft upstream; maximum gage height, 10.33 ft Oct. 10; minimum daily discharge, 2.3 cfs Sept. 25.

1946-54: Maximum discharge, that of Dec. 14, 1953; maximum gage height, 11.18 ft Aug. 25, 1948, at former site, from floodmarks; no flow Mar. 11, 12, Apr. 1, 2, 4, 5, 1951.

Remarks.--Records poor. Records include small amount of waste water diverted by Polk Packing Co., from ground-water supplies during packing season. Some regulation by Lulu Lake.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	66	23	62	9.2	*7.5	5.6	5.1	4.1	4.0	*4.8	4.5	3.4
2	65	22	59	9.0	8.5	5.9	4.8	3.9	4.2	4.8	4.3	3.3
3	67	21	66	9.5	10	12	4.7	4.0	5.4	4.9	4.6	3.3
4	74	20	71	11	9.7	*6.2	4.7	4.1	12	5.0	8.4	3.3
5	73	20	124	12	10	5.1	*4.9	4.2	7.9	4.8	7.7	3.4
6	70	20	112	13	9.5	5.0	5.9	4.3	6.3	5.6	4.6	3.3
7	67	19	91	16	8.5	6.1	5.0	4.3	6.6	5.4	6.0	*3.4
8	71	18	82	18	7.8	4.7	5.4	4.2	*6.3	8.3	8.7	3.2
9	79	17	78	18	11	5.0	5.7	4.0	6.2	8.3	6.9	3.2
10	*85	13	75	19	22	4.7	5.4	4.1	6.0	7.4	5.6	3.2
11	81	8.2	71	24	8.7	6.0	4.2	4.1	5.9	7.4	4.8	3.2
12	74	7.7	68	24	19	5.9	4.4	4.0	5.7	7.1	4.8	3.3
13	68	*7.1	66	25	19	5.2	5.2	4.2	5.5	6.4	4.9	3.4
14	64	5.9	*154	25	15	4.8	5.2	4.1	5.4	6.4	4.3	3.4
15	60	5.1	166	27	7.1	4.8	5.0	3.8	5.4	6.6	4.2	3.3
16	54	4.9	131	28	14	4.8	4.9	3.6	5.4	6.9	*4.3	3.0
17	49	4.4	80	27	16	5.0	4.9	3.8	5.3	6.9	4.1	2.8
18	50	4.1	47	27	15	4.8	4.5	3.8	5.4	6.2	4.0	2.8
19	51	3.9	30	27	14	5.0	4.2	*3.7	6.0	5.7	3.7	2.6
20	46	5.8	23	27	14	5.1	4.4	6.9	5.2	5.4	4.1	2.8
21	46	16	24	24	15	4.8	4.7	4.2	4.9	6.2	3.8	2.6
22	43	7.8	22	15	9.5	4.9	4.7	4.5	4.9	6.7	3.6	2.6
23	40	6.9	44	3.7	9.0	5.0	4.6	4.8	4.9	4.8	3.7	2.8
24	38	19	37	3.7	14	*5.0	4.4	5.2	4.9	4.3	3.6	2.6
25	36	144	21	6.3	17	5.0	4.2	5.7	4.6	4.5	3.4	2.3
26	33	132	18	9.5	16	5.0	4.3	6.2	4.5	*4.9	4.5	3.7
27	31	102	14	9.5	14	4.9	4.2	7.1	4.5	5.4	3.6	4.2
28	30	83	12	9.2	12	4.7	4.3	5.9	4.5	9.4	3.4	*4.0
29	30	61	*11	9.0	-	5.0	*4.2	4.9	4.6	12	3.6	3.6
30	27	62	10	8.2	-	5.4	4.1	4.9	4.9	7.7	3.4	3.3
31	25	-	9.5	6.9	-	5.2	-	3.7	-	4.9	3.4	-
Total	1,693	883.8	1,878.5	500.7	352.8	166.6	142.2	140.3	167.3	195.1	144.5	95.3
Mean	54.6	29.5	60.6	16.2	12.6	5.37	4.74	4.53	5.56	6.29	4.66	3.18
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-
Calendar year 1953: Max	166			Min	0.3	Mean	16.9	Cfsm	-	In.	-	
Water year 1953-54: Max	166			Min	2.3	Mean	17.4	Cfsm	-	In.	-	

* Discharge measurement made on this day.

Peace River at Bartow, Fla.

Location.--Lat 27°54'07", long 81°49'03", in NE¹ sec. 4, T. 30 S., R. 25 E., near center of span on downstream side of bridge on State Highway 60, 500 ft downstream from McKinney Branch and 0.6 mile east of Bartow.

Drainage area.--390 sq mi, approximately.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 90.56 ft above mean sea level, datum of 1929. Prior to July 12, 1940, staff gage, and July 12, 1940, to Nov. 5, 1948, water-stage recorder, at site 200 ft downstream at same datum.

Average discharge.--15 years, 298 cfs.

Extremes.--Maximum discharge during year, 2,030 cfs Oct. 11 (gage height, 5.97 ft); minimum, 55 cfs Sept. 21, 22; minimum gage height, 2.51 ft May 12.
1939-54: Maximum discharge, 4,140 cfs Sept. 24, 1947 (gage height, 6.45 ft); from rating curve extended above 2,900 cfs; minimum, 1.4 cfs June 2, 1945 (gage height, 0.05 ft).

Remarks.--Records fair.

Revisions.--WSP 1234: Drainage area.

Correction.--The maximum discharge (1,760 cfs) for the 1953 water year, published in WSP 1274, occurred on a rising stage at 12 p.m. Sept. 30, and was not the peak for that flood; maximum peak discharge for 1953 water year, 1,730 cfs Sept. 22, 1953 (gage height, 5.70 ft).

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Nov. 27		Nov. 28 to June 2		June 3 to Sept. 30	
3.7	265	2.5	79	4.5	53
4.0	365	3.0	138	5.0	1,020
4.5	609	3.5	259	5.5	1,510
5.0	1,020	4.0	448		
6.0	2,060				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,760	596	1,230	939	412	266	124	224	210	158	350	189
2	1,730	*571	1,130	878	396	256	124	221	175	148	354	170
3	1,690	535	1,050	844	396	243	123	185	*150	131	327	168
4	1,680	505	1,010	815	377	243	130	163	195	119	308	138
5	1,660	460	1,270	779	365	224	207	150	331	117	293	124
6	1,620	470	1,360	761	354	194	182	138	413	131	266	124
7	1,580	460	1,390	733	342	233	159	123	437	215	262	113
8	1,550	437	1,370	706	335	240	182	108	409	297	358	94
9	1,730	421	1,310	687	324	227	189	101	370	418	400	80
10	1,990	409	1,250	663	309	216	192	95	323	437	375	69
11	2,030	413	1,190	673	298	194	171	89	283	467	327	60
12	2,020	397	1,120	692	294	177	150	81	272	*505	297	59
13	1,950	381	1,070	*702	320	173	140	88	339	489	276	61
14	*1,850	373	1,090	682	309	171	145	120	301	489	259	67
15	1,730	353	1,080	668	312	199	143	141	255	451	233	70
16	1,610	329	1,060	649	312	227	128	130	246	437	221	65
17	1,500	316	1,040	640	301	221	117	116	240	462	212	64
18	1,460	304	1,010	626	287	*197	116	96	236	442	215	60
19	1,410	289	957	607	*284	187	*105	89	255	396	204	57
20	1,330	280	896	589	273	192	96	164	249	350	176	58
21	1,250	301	870	*580	324	202	99	335	236	316	160	56
22	1,170	313	861	566	359	197	97	327	221	286	152	56
23	1,080	318	846	567	320	182	110	259	204	325	*159	65
24	1,000	333	1,100	544	290	175	122	194	192	269	155	83
25	930	1,040	1,190	518	287	171	129	155	195	297	138	80
26	867	1,480	1,230	497	280	157	128	132	204	276	128	107
27	798	1,520	1,200	485	259	150	120	171	192	327	107	178
28	755	1,510	1,140	477	243	141	117	224	173	442	83	279
29	724	1,450	1,080	452	-	138	116	205	155	462	85	306
30	671	1,340	1,040	436	-----	129	163	189	145	428	85	304
31	637	-----	993	424	-----	128	-----	213	-----	379	165	-----
Total	43,742	17,922	34,535	19,869	8,931	6,050	4,134	5,026	7,606	10,396	7,129	3,406
Mean	1,411	597	1,114	641	319	195	138	162	254	335	230	114
Cfsm	3.62	1.53	2.86	1.64	0.818	0.500	0.354	0.415	0.651	0.859	0.590	0.292
In.	4.17	1.71	3.29	1.99	0.85	0.58	0.39	0.48	0.73	0.99	0.68	0.32

Calendar year 1953: Max 2,030 Min 44 Mean 553 Cfsm 1.42 In. 19.23
Water year 1953-54: Max 2,030 Min 56 Mean 462 Cfsm 1.18 In. 16.08

* Discharge measurement made on this day.

Kissengen Spring near Bartow, Fla.

Location.--Lat 27°51', long 81°49', in sec. 28, T. 30 S., R. 25 E., on dock at east edge of pool at head of spring, 4½ miles southeast of Bartow.
Records available.--1917 and 1929-31 (one discharge measurement in each year), March 1932 to September 1954 (discharge measurements only).
Gage.--Staff gage read only at time of discharge measurements or inspections of no flow. Prior to Apr. 6, 1937, at datum 1.00 ft lower.
Extremes.--1932-54: Maximum discharge measured, 43.6 cfs Oct. 11, 1933; no flow observed for long periods.
Remarks.--Discharge measurements made at outlet of pool. Discharge measurements or inspections of no flow made at six-week intervals.

Discharge measurements, in cubic feet per second, water year
 October 1953 to September 1954

Nov. 2.....	0	June 3.....	0
Jan. 13.....	3.61	July 12.....	0
Mar. 18.....	0	Aug. 23.....	0
Apr. 19.....	0		

Peace River at Zolfo Springs, Fla.

Location.--Lat 27°30', long 81°48', in sec. 22, T. 34 S., R. 25 E., near right bank at downstream side of bridge on U. S. Highway 17, 0.8 mile north of Zolfo Springs.
Drainage area.--840 sq mi, approximately.
Records available.--September 1933 to September 1954.
Gage.--Water-stage recorder. Datum of gage is 35.20 ft above mean sea level, datum of 1929.
Average discharge.--21 years, 764 cfs.
Extremes.--Maximum discharge during year, 6,240 cfs at 12:01 a. m. Oct. 1 stage falling; maximum peak discharge during year, 6,140 cfs Oct. 11 (gage height, 13.11 ft); minimum discharge, 203 cfs May 12 (gage height, 0.54 ft).
 1933-54: Maximum discharge, 26,300 cfs Sept. 6, 1933 (gage height, 20.05 ft); minimum, 44 cfs May 26-30, 1949; minimum gage height, -0.28 ft May 2, 1945.
Remarks.--Records good.
Revisions.--WSP 1234: Drainage area.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,790	1,100	2,850	1,540	660	641	266	1,840	811	558	1,370	1,730
2	4,840	1,030	2,370	1,470	641	589	271	1,030	985	486	1,380	1,420
3	4,070	966	2,090	1,450	622	542	283	637	1,360	456	1,340	1,060
4	3,720	913	1,860	1,550	600	511	269	499	2,570	463	1,230	813
5	3,360	878	2,070	1,500	585	484	271	431	3,250	488	1,040	690
6	3,010	896	2,450	1,410	569	481	300	369	3,320	911	899	599
7	2,680	878	2,610	1,300	551	556	361	322	2,270	1,080	824	549
8	2,500	845	2,500	1,210	553	567	686	293	*1,410	1,140	731	524
9	3,170	795	2,310	1,140	558	526	517	269	1,090	1,270	716	452
10	5,300	*750	2,130	1,100	547	513	420	237	919	1,640	631	398
11	6,020	776	1,990	1,250	531	502	380	220	767	2,260	610	350
12	5,980	798	1,860	1,800	513	475	359	208	704	*2,170	595	306
13	5,260	782	1,750	1,830	495	436	334	245	1,710	2,440	566	281
14	4,260	758	1,750	1,800	495	407	313	358	1,220	2,540	519	473
15	*3,360	709	1,740	1,580	502	386	335	414	1,240	2,110	486	446
16	2,860	649	1,680	1,390	502	361	332	335	3,630	2,000	463	418
17	2,510	607	*1,580	1,270	488	356	305	301	2,990	2,210	460	416
18	2,360	584	1,500	1,190	477	*369	281	281	2,040	2,260	429	385
19	2,480	546	1,440	1,120	468	380	*259	250	1,990	1,860	492	641
20	2,430	522	1,390	1,050	479	415	249	227	1,950	1,440	421	683
21	2,280	522	1,360	985	866	458	249	267	1,590	1,730	385	515
22	2,080	509	1,460	943	929	398	244	318	1,360	1,250	374	391
23	1,900	503	1,480	914	858	380	291	352	1,640	880	*358	637
24	1,770	596	1,800	873	816	366	397	378	1,290	838	332	855
25	1,630	3,940	1,870	*821	957	356	356	378	1,170	999	310	738
26	1,510	5,300	1,860	794	843	342	356	344	2,380	929	312	996
27	1,410	5,590	1,820	778	710	330	335	335	2,070	1,830	383	2,650
28	1,340	5,310	1,730	754	656	330	298	393	1,280	2,920	460	2,440
29	1,270	4,470	1,670	729	-	315	281	415	846	3,150	1,100	1,760
30	1,200	3,560	1,620	696	-----	295	418	580	654	2,310	1,020	1,360
31	1,150	-----	1,570	874	-----	271	-----	818	-----	1,670	1,170	-----
Total	93,500	48,082	58,160	37,011	17,471	13,318	10,016	13,344	50,506	48,288	21,406	24,976
Mean	3,016	1,536	1,876	1,194	824	430	334	430	1,684	1,558	691	833
Cfsm	3.56	1.83	2.23	1.42	0.743	0.512	0.398	0.512	2.00	1.85	0.823	0.992
In.	4.14	2.04	2.57	1.64	0.77	0.59	0.44	0.59	2.24	2.14	0.95	1.11
Calendar year 1953: Max	9,130				Min 119	Mean 1,451	Cfsm 1.73	In. 23.45				
Water year 1953-54: Max	6,020				Min 208	Mean 1,189	Cfsm 1.42	In. 19.22				

* Discharge measurement made on this day.

Little Charley Bowlegs Creek near Sebring, Fla.

Location (revised).--Lat 27°28'40", long 81°33'25", in NW¼ sec. 31, T. 34 S., R. 28 E., on right bank 160 ft downstream from concrete control, 700 ft north of county road in Highlands Hammock State Park, 0.8 mile upstream from unnamed creek, and 7¼ miles south-east of Sebring.

Drainage area.--32.4 sq mi.

Records available.--January 1952 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 62.32 ft above mean sea level, datum of 1929. Prior to June 4, 1953, on right bank at upstream side of concrete control.

Extremes.--Maximum discharge during year, 682 cfs Oct. 10 (gage height, 16.83 ft); no flow for many days.
1952-54: Maximum discharge, that of Oct. 10, 1953; no flow for many days.

Remarks.--Records fair. Low flow regulated by manipulation of stoplogs and culvert gates in dam upstream from station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Apr. 10				Apr. 11 to Sept. 30			
13.8	0'	14.5	13	13.3	0	13.8	0.8
13.9	.2	14.7	24	13.4	.1	13.9	1.4
14.0	.8	14.9	42	13.5	.2	14.0	2.1
14.1	2.0	15.4	122	13.6	.3	14.2	4.4
14.2	3.8	15.7	213	13.7	.5	14.3	6.2
14.3	6.2	16.8	669				

Note.--Same as preceding table above 14.3 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	352	96	143	34	0.2	15	0	6.2	11	48	124	260
2	308	88	120	30	.2	14	0	6.0	44	33	103	252
3	272	81	103	30	.2	13	0	4.6	104	29	88	232
4	244	73	91	29	.4	12	0	3.5	272	22	75	206
5	213	69	100	28	.4	*12	0	*5.0	377	21	66	173
6	180	64	93	25	.4	12	0	1.8	288	42	56	145
7	151	60	88	23	.5	17	.2	1.2	217	49	45	127
8	136	54	83	22	*2.5	18	38	1.0	183	*48	44	107
9	262	50	76	20	*7.7	18	81	.7	145	57	52	93
10	660	50	72	19	*18	18	103	.6	120	72	53	80
11	622	53	67	30	*24	17	101	.5	101	83	60	69
12	592	50	61	49	*8.5	15	88	.4	83	96	69	58
13	557	46	56	50	2.9	13	*73	.5	73	120	75	54
14	506	42	54	48	2.7	12	75	.4	63	164	78	*46
15	448	39	50	44	2.2	10	75	.4	77	154	80	45
16	385	35	45	40	1.9	8.3	67	.4	221	140	81	45
17	332	30	40	36	1.7	6.5	56	.3	198	129	*81	44
18	300	27	37	*33	1.3	5.2	40	.3	183	118	78	45
19	292	*25	34	30	.8	4.3	25	.2	209	100	73	52
20	276	23	30	28	.6	6.2	18	.2	173	84	64	58
21	252	22	29	25	1.7	6.2	14	.2	140	72	54	58
22	225	20	26	23	3.8	5.5	12	.2	129	57	49	63
23	198	20	29	20	6.0	*5.0	10	.2	131	44	42	67
24	176	33	35	19	7.4	2.0	10	.2	118	35	38	63
25	164	352	37	17	11	0	11	.1	109	35	34	57
26	*151	394	40	16	12	0	11	*.1	101	37	29	82
27	138	336	39	15	12	0	6.7	.2	103	41	26	284
28	129	276	38	10	14	0	2.2	.2	94	*53	36	*328
29	120	225	37	1.8	-	0	2.8	.3	81	103	167	312
30	112	180	35	1.3	-----	0	5.7	.3	66	143	296	280
31	103	-----	35	.2	-----	0	-----	.6	-----	145	280	-----
Total	8,856	2,913	1,823	796.3	145.0	265.2	925.6	34.8	4,214	2,372	2,496	3,785
Mean	286	97.1	58.8	25.7	5.18	8.55	30.9	1.12	140	76.5	80.5	126
Cfs/m	8.83	3.00	1.81	0.793	0.160	0.264	0.954	0.035	4.32	2.36	2.48	3.89
In.	10.17	3.34	2.09	0.91	0.17	0.30	1.06	0.04	4.84	2.72	2.86	4.34
Calendar year 1953: Max	660				Min	0	Mean	91.9	Cfs/m	2.84	In.	38.54
Water year 1953-54: Max	660				Min	0	Mean	78.4	Cfs/m	2.42	In.	32.84

* Discharge measurement made this day.

Charlie Apopka Creek near Gardner, Fla.

Location.--Lat 27°22', long 81°48', in sec. 3, T. 36 S., R. 25 E., near left bank on downstream side of bridge pier on U. S. Highway 17, 1.6 miles north of Gardner and 2.2 miles upstream from Peace River.

Drainage area.--330 sq mi, approximately.

Records available.--April 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 21.66 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 6,640 cfs Oct. 10 (gage height, 17.85 ft); minimum, 13 cfs Apr. 4, 5 (gage height, 3.07 ft).
1950-54: Maximum discharge, that of Oct. 10, 1953; minimum, 0.3 cfs Aug. 6-8, 1950. Flood of 1928 reached a stage of 24.2 ft, from information by local resident.

Remarks.--Records good.

Revisions.--WSP 1234: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1-9, Oct. 31 to Nov. 15, Aug. 10-30)

Oct. 1-11

Oct. 12 to Feb. 20

Feb. 21 to Sept. 30

10.7	1,210	3.4	28	10.0	1,000	3.0	11	8.0	662
14.0	2,400	3.8	52	14.0	2,350	3.2	18	10.0	1,120
16.0	3,690	4.0	67	16.0	3,690	3.5	35	13.0	2,200
17.0	4,930	5.0	168	17.0	4,930	4.0	79	15.0	3,140
18.0	7,030	8.0	602	18.0	7,030	5.0	185		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,730	341	2,240	181	68	111	16	537	*117	632	1,600	1,670
2	*3,250	312	1,750	174	63	105	15	455	188	550	1,320	1,710
3	2,800	286	1,350	168	58	95	14	379	227	477	1,140	1,530
4	2,440	263	956	167	55	88	13	426	796	413	955	1,310
5	2,150	245	1,000	162	51	80	16	476	1,400	403	856	1,070
6	1,810	229	1,000	156	46	76	24	479	2,070	607	787	886
7	1,470	211	834	148	44	97	25	469	2,520	773	678	747
8	1,210	195	724	137	44	100	171	430	2,680	778	569	637
9	1,650	178	645	130	43	93	338	371	2,460	750	561	545
10	*5,240	*167	576	125	42	92	400	306	2,070	808	752	464
11	5,940	180	519	296	40	90	286	241	*1,680	1,220	1,030	397
12	5,310	152	475	500	39	*84	216	175	1,330	1,270	828	338
13	4,700	148	433	379	37	77	185	142	1,240	1,270	590	341
14	3,900	140	445	321	35	71	232	134	1,080	1,300	454	477
15	3,240	134	434	295	37	66	276	113	953	*1,500	484	413
16	2,700	126	388	281	38	58	255	91	1,850	1,900	584	341
17	2,160	122	*352	266	37	50	218	77	2,140	2,040	486	276
18	1,780	116	324	249	35	45	180	66	1,830	1,910	402	270
19	1,590	110	299	230	32	41	*146	56	1,720	1,660	336	392
20	1,390	105	275	212	30	43	124	48	1,790	1,380	284	310
21	1,170	102	254	193	34	46	110	40	1,780	1,400	241	244
22	970	98	233	174	42	41	95	34	1,800	1,290	219	284
23	820	94	220	156	43	37	84	29	1,840	941	204	748
24	724	89	240	140	41	32	81	26	1,790	803	181	534
25	650	1,470	245	*124	45	29	99	24	1,620	801	156	443
26	589	2,290	229	113	56	26	146	22	1,390	723	*138	724
27	532	2,670	216	102	80	24	137	21	1,170	946	130	2,120
28	486	3,470	203	95	97	22	118	26	985	1,790	154	2,150
29	452	3,250	190	86	-	20	101	32	835	2,590	630	1,900
30	412	2,780	181	79	-	19	110	34	720	2,480	1,160	1,680
31	374	-	180	73	-	17	-	47	-	2,050	1,330	-
Total	65,639	20,261	17,410	5,910	1,312	1,875	4,231	5,809	44,071	37,455	19,239	24,951
Mean	2,117	675	552	191	46.9	60.5	141	187	1,469	1,208	621	832
Cfs/m	6.42	2.05	1.70	0.578	0.142	0.183	0.427	0.567	4.45	3.66	1.88	2.52
In.	7.40	2.28	1.96	0.67	0.15	0.21	0.48	0.65	4.97	4.22	2.17	2.81

Calendar year 1953: Max 5,940 Min 4.5 Mean 788 Cfs/m 2.39 In. 32.42
Water year 1953-54: Max 5,940 Min 13 Mean 680 Cfs/m 2.06 In. 27.97

* Discharge measurement made on this day.

Peace River at Arcadia, Fla.

Location.--Lat 27°13', long 81°52', in SE¼ sec. 26, T. 37 S., R. 24 E., on left bank 75 ft upstream from bridge on State Highway 70, half a mile west of Arcadia, and 5 miles upstream from Joshua Creek.

Drainage area.--1,370 sq mi, approximately.

Records available.--April 1931 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 8.25 ft above mean sea level, datum of 1929. Prior to July 19, 1931, staff gage at same site and datum.

Average discharge.--23 years, 1,281 cfs.

Extremes.--Maximum discharge during year, 11,700 cfs Oct. 1 (gage height, 13.35 ft); minimum, 344 cfs Apr. 2 (gage height, 1.36 ft).

1931-54: Maximum discharge, 36,200 cfs Sept. 9, 1933 (gage height, 17.67 ft); minimum, 37 cfs May 28, 1949; minimum gage height, -0.81 ft June 4, 5, 7, 1945.
Maximum stage known, 18.3 ft in 1912, from information by county engineer (discharge, 43,000 cfs, from rating curve extended above 30,000 cfs).

Remarks.--Records good.

Revisions.--WSP 1234: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 25 to Nov. 12)

Oct. 1 to Nov. 30

Dec. 1 to Sept. 30

2.9	673	9.0	5,380	1.3	327	5.0	1,800
3.5	922	11.0	7,640	3.0	851	7.0	3,370
5.0	1,720	14.0	13,100				
7.0	3,370						

Note.--Same as preceding table above 7.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11,600	1,520	7,670	1,920	844	878	355	1,100	*2,490	1,380	5,510	2,880
2	11,500	1,410	7,390	1,880	821	844	344	2,500	2,040	1,140	4,230	3,470
3	10,900	*1,320	6,330	1,800	803	771	347	2,320	1,790	1,000	3,210	3,490
4	10,100	1,240	5,040	1,760	778	712	355	1,510	3,360	906	2,700	2,890
5	9,120	1,160	3,980	1,820	747	672	358	1,170	4,020	882	2,340	2,140
6	8,200	1,130	3,750	1,810	725	647	367	1,020	4,670	1,050	2,020	1,680
7	7,260	1,120	3,840	1,720	706	681	413	898	5,270	1,690	1,700	1,390
8	6,410	1,100	3,870	1,600	696	758	778	796	5,530	1,990	1,460	1,180
9	6,870	1,050	3,760	1,490	696	751	1,180	712	5,230	2,070	1,270	1,050
10	9,990	1,010	3,530	1,410	700	706	1,070	638	4,380	2,080	1,340	914
11	10,300	970	3,210	1,460	684	687	874	559	3,390	2,610	1,480	792
12	10,800	970	2,930	2,180	666	*669	718	497	2,490	3,630	1,500	731
13	11,200	979	2,670	2,510	641	631	644	544	2,020	3,910	1,230	814
14	11,100	953	2,570	2,530	622	589	607	628	2,370	3,900	1,020	829
15	10,600	922	2,580	2,410	616	550	631	696	2,340	*4,050	918	946
16	9,640	883	2,480	2,140	625	520	650	678	2,530	4,270	994	851
17	8,580	829	*2,320	1,900	622	488	628	565	4,010	4,420	954	751
18	7,530	778	2,140	1,710	610	477	568	497	4,880	4,420	859	709
19	6,570	745	1,990	1,580	595	486	*512	451	4,750	4,290	789	890
20	5,730	720	1,870	1,480	586	514	462	404	4,350	3,900	771	1,110
21	4,980	791	1,790	1,390	653	547	436	361	4,130	3,320	693	1,040
22	4,320	745	1,740	1,300	978	553	428	367	3,830	3,150	650	818
23	3,770	708	1,800	1,220	1,060	512	453	407	3,480	2,710	622	1,050
24	3,310	704	1,930	1,160	994	488	486	425	3,440	2,170	592	1,360
25	2,910	2,860	2,150	1,110	982	471	553	442	3,260	2,790	553	1,360
26	2,580	5,860	2,300	1,050	1,070	454	553	442	2,870	2,630	*520	1,440
27	2,300	6,790	2,290	1,010	1,010	436	559	422	3,040	2,410	509	4,440
28	2,090	7,540	2,230	990	914	422	535	413	3,250	3,510	556	6,040
29	1,920	8,280	2,120	*954	---	416	477	465	2,600	5,870	950	6,350
30	1,760	8,550	2,030	914	---	401	448	598	1,800	6,110	1,350	5,900
31	1,630	---	1,970	874	---	378	---	894	---	6,150	2,380	---
Total	215,570	63,637	96,270	49,082	21,444	18,109	16,769	23,437	103,610	94,408	46,250	59,285
Mean	6,954	2,121	3,105	1,583	766	584	559	756	3,454	3,045	1,492	1,976
Cfsm	5.08	1.55	2.27	1.16	0.559	0.426	0.408	0.552	2.52	2.22	1.09	1.44
In.	5.85	1.73	2.61	1.33	0.58	0.49	0.46	0.64	2.81	2.56	1.26	1.61
Calendar year 1953: Max	11,600				Min 129	Mean 2,724	Cfsm 1.99	In. 27.00				
Water year 1953-54: Max	11,600				Min 344	Mean 2,213	Cfsm 1.62	In. 21.93				

* Discharge measurement made on this day.

Joshua Creek, at Nocatee, Fla.

Location.--Lat 27°10', long 81°53', in sec. 14, T. 38 S., R. 24 E., near center of span on downstream side of bridge on U. S. Highway 17, 0.5 mile north of Nocatee and 2.1 miles upstream from mouth.

Drainage area.--115 sq mi, approximately.

Records available.--April 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 3.94 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 8,670 cfs Oct. 10 (gage height, 18.80 ft); no flow Nov. 18-20, 22-24.

1950-54: Maximum discharge, that of Oct. 10, 1953; minimum, that of Nov. 18-20, 22-24, 1953.

Revisions.--The maximum discharge for the water year 1952 has been revised to 6,860 cfs Oct. 2, 1951 (gage height, 17.89 ft), superseding figure published in WSP 1234.

Flood of September 1948 reached a stage of 17.7 ft, from information by local residents.

Remarks.--Records fair.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,450	31	634	18	6.4	16	3.4	7.6	*63	19	496	89
2	1,210	26	541	17	6.2	13	3.2	9.8	112	16	376	169
3	983	*21	396	16	6.4	12	2.8	16	108	13	265	192
4	743	18	236	15	6.2	11	3.2	5.0	205	14	190	123
5	562	16	169	15	6.0	9.6	5.0	5.0	439	37	141	58
6	442	14	246	14	5.8	9.8	4.4	4.2	673	31	112	34
7	365	11	236	a13	5.6	15	6.8	3.2	622	87	89	25
8	364	7.6	200	a13	6.6	a13	37	2.6	435	85	73	21
9	2,490	4.8	167	a12	7.0	a11	16	2.2	310	79	56	18
10	*7,910	2.9	138	a11	6.6	a11	12	1.8	214	66	69	17
11	4,810	2.9	111	a14	6.4	a10	10	1.5	130	52	127	15
12	2,500	2.0	90	a20	6.2	*9.8	8.6	1.9	74	133	166	14
13	1,690	1.4	72	a22	6.2	9.2	7.4	6.2	40	230	119	17
14	1,400	.8	73	22	6.0	9.0	7.2	7.8	30	268	92	22
15	1,190	.5	63	20	5.8	9.4	6.8	7.0	30	*357	74	21
16	992	.2	50	14	5.8	8.4	6.2	6.0	28	782	57	22
17	793	.1	*38	12	5.8	7.6	6.0	4.8	89	620	48	26
18	663	0	30	11	5.6	7.2	5.2	3.8	180	359	39	101
19	606	0	25	10	5.8	7.0	*4.8	2.8	318	249	33	1,200
20	469	0	22	10	6.2	10	4.0	3.0	420	194	36	822
21	341	.1	20	10	10	11	4.0	4.0	345	186	31	383
22	259	0	19	9.4	14	8.8	5.8	2.8	243	206	28	217
23	199	0	18	9.2	11	7.4	4.2	2.1	201	157	25	243
24	156	0	30	8.8	10	6.6	4.4	1.5	187	195	22	233
25	118	211	34	8.4	14	6.0	4.4	1.4	163	539	20	182
26	94	412	32	8.0	12	5.6	5.0	1.3	118	1,340	*20	343
27	75	466	26	7.8	10	5.0	9.4	1.8	99	1,110	20	702
28	63	537	23	7.2	12	4.6	7.0	1.8	91	1,040	26	1,090
29	55	615	21	*7.0	-	4.2	5.4	1.9	61	1,370	48	1,080
30	46	661	19	6.6	-----	4.0	8.0	5.6	27	932	73	756
31	38	-----	19	6.6	-----	3.8	-----	12	-----	640	87	-----
Total	33,076	3,060.3	3,798	388.0	215.4	276.0	215.6	138.4	6,053	11,406	3,057	8,235
Mean	1,067	102	123	12.5	7.69	8.90	7.19	4.46	202	368	98.6	274
Cfsm	9.28	0.887	1.07	0.109	0.067	0.077	0.063	0.039	1.76	3.20	0.857	2.38
In.	10.70	0.99	1.23	0.13	0.07	0.09	0.07	0.04	1.96	3.69	0.99	2.66

Calendar year 1953: Max 7,910 Min 0 Mean 264 Cfsm 2.30 In. 31.15
 Water year 1953-54: Max 7,910 Min 0 Mean 192 Cfsm 1.67 In. 22.62

Peak discharge (base, 1,000 cfs).--Oct. 10 (3 a.m.) 8,670 cfs (18.80 ft); July 26 (1:30 p.m.) 1,470 cfs (12.90 ft); July 29 (8:30 a.m.) 1,460 cfs (12.85 ft); Sept. 19 (1 p.m.) 1,490 cfs (12.95 ft); Sept. 28 (9 p.m.) 1,240 cfs (12.17 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage, rainfall records, and records for Horse Creek near Arcadia.

Horse Creek near Arcadia, Fla.

Location.--Lat 27°12', long 81°59', in sec. 2, T. 38 S., R. 23 E., near right bank on downstream side of bridge on State Highway 72, 8 miles west of Arcadia and 8 miles upstream from mouth.

Drainage area.--205 sq mi, approximately.

Records available.--April 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 10.96 ft above mean sea level, datum of 1929 (State Road Department benchmark).

Extremes.--Maximum discharge during year, 4,960 cfs Oct. 10 (gage height, 15.93 ft); minimum, 9.2 cfs Apr. 4 (gage height, 2.34 ft).

1950-54: Maximum discharge, 6,680 cfs Oct. 2, 1951 (gage height, 16.84 ft); minimum, 0.1 cfs May 10-17, 20-22, 1950; minimum gage height, 1.83 ft June 16-18, 1951.

Flood of September 1948 reached a stage of 17.8 ft, from information by State Road Department.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Nov. 28, July 30 to Sept. 28				Nov. 29 to May 28				May 29 to July 29, Sept. 29, 30			
3.3	39	11.0	1,450	2.3	7.5	5.0	218	3.1	51	9.0	948
3.5	52	13.0	2,220	2.5	16	8.0	722	3.5	74	11.0	1,450
4.0	96	15.0	3,740	3.0	44	11.0	1,450	4.0	129		
5.0	218	16.0	5,060	4.0	111	13.0	2,220	6.0	405		
8.0	722										

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,180	143	1,180	183	71	80	12	143	800	69	790	592
2	1,760	129	868	166	66	82	11	282	*522	65	806	556
3	1,370	115	632	157	63	78	10	283	285	63	768	391
4	1,100	103	478	153	59	73	15	282	631	62	669	440
5	893	92	459	152	55	68	262	308	402	59	624	581
6	730	90	517	153	52	64	178	271	273	70	570	601
7	615	86	474	153	48	67	109	198	276	295	455	538
8	534	78	447	150	46	72	284	138	214	292	372	442
9	1,860	73	442	145	45	71	300	109	176	212	295	349
10	*4,580	69	423	138	42	66	199	90	148	163	247	274
11	3,060	68	383	156	40	*61	158	76	129	176	212	205
12	2,240	70	327	308	39	56	121	64	111	287	222	157
13	1,830	68	282	380	37	52	103	108	96	324	170	131
14	1,450	63	302	349	35	48	88	149	88	*324	143	125
15	1,130	60	310	354	33	44	76	138	82	367	128	130
16	864	58	256	357	32	40	69	126	150	442	112	119
17	685	*54	215	324	30	36	63	140	121	785	96	103
18	597	51	*183	271	29	33	54	178	103	891	83	114
19	624	47	164	219	28	30	46	201	156	663	74	135
20	558	48	152	182	26	36	*37	182	174	550	66	102
21	460	210	142	158	29	36	33	141	137	497	58	89
22	412	124	134	144	35	32	33	110	116	422	59	87
23	381	80	133	134	37	28	50	90	111	339	54	126
24	351	70	181	125	39	25	52	76	111	328	50	140
25	314	920	198	116	50	23	51	63	125	671	*47	127
26	278	2,050	221	*107	58	20	65	53	112	928	*45	187
27	240	1,930	265	99	62	19	247	46	98	851	42	937
28	214	2,530	289	92	69	17	116	40	86	887	40	1,220
29	198	2,080	274	86	-	16	71	55	77	1,430	209	783
30	179	1,560	238	80	-----	14	53	395	72	1,240	360	577
31	159	-----	210	75	-----	13	-----	273	-----	875	247	-----
Total	31,806	12,919	10,779	5,666	1,255	1,400	2,866	4,808	5,982	14,607	8,111	10,358
Mean	1,026	431	346	183	44.8	45.2	98.9	155	199	471	262	345
Cfsm	5.00	2.10	1.70	0.893	0.219	0.220	0.482	0.756	0.971	2.30	1.28	1.69
In.	5.77	2.34	1.96	1.03	0.23	0.25	0.54	0.87	1.09	2.65	1.47	1.88

Calendar year 1953: Max 4,580 Min 1.1 Mean 478 Cfsm 2.33 In. 31.64
Water year 1953-54: Max 4,580 Min 10 Mean 303 Cfsm 1.48 In. 20.08

Peak discharge (base, 1,500 cfs)--Oct. 10 (7 a.m.) 4,960 cfs (15.93 ft); Nov. 28 (3 p.m.) 2,390 cfs (13.31 ft); July 29 (5:30 a.m.) 1,560 cfs (11.37 ft).

* Discharge measurement made on this day.

Miakka River near Sarasota, Fla.

Location.--Lat 27°14'25", long 82°18'50", in sec. 21, T. 37 S., R. 20 E., on right bank half a mile upstream from bridge on State Highway 72, 2 miles upstream from lower Miakka Lake, and 14 miles southeast of Sarasota.

Drainage area.--235 sq mi, approximately.

Records available.--August 1936 to September 1954.

Gage.--Staff gage read once daily. Datum of gage is 7.92 ft above mean sea level, datum of 1929 (National Park Service benchmark). Prior to Apr. 10, 1941, at highway bridge at same datum.

Average discharge.--18 years, 258 cfs.

Extremes.--Maximum discharge observed during year, 2,520 cfs Oct. 12 (gage height, 8.67 ft); minimum observed, 4.2 cfs Apr. 4 (gage height, 3.12 ft).

1936-54: Maximum discharge observed, 6,620 cfs Sept. 21, 1947 (gage height, 10.78 ft); no flow for many days in some years.

Remarks.--Records poor.

Cooperation.--Gage readings furnished by employees of Miakka River State Park.

Revisions.--WSP 1234: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Aug. 10 to Sept. 1)

Oct. 1 to Apr. 24

Apr. 25 to Sept. 30

3.1	4.0	5.4	122	4.2	24	7.0	430
3.5	9.8	6.0	250	5.0	42	7.5	660
3.8	15	6.4	400	5.5	64	8.0	1,210
4.0	21	7.0	770	5.8	96	8.3	1,570
4.5	41	8.0	1,670				
5.0	76	8.7	2,560				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,390	156	880	200	109	39	6.6	62	54	202	1,380	250
2	2,160	140	735	196	102	42	5.6	58	*58	202	1,340	345
3	1,940	127	588	190	94	41	4.8	54	61	196	1,190	427
4	1,820	116	480	184	89	43	5.2	51	68	182	982	504
5	1,390	108	475	180	82	44	10	51	74	163	762	606
6	1,140	115	470	176	76	44	13	50	81	146	624	660
7	938	108	470	172	71	52	27	52	87	136	532	624
8	864	101	460	*168	67	55	36	53	101	130	471	562
9	1,140	*94	450	164	62	55	38	52	120	130	433	500
10	1,800	90	430	156	56	57	41	50	120	136	394	450
11	2,390	88	400	188	*52	*56	49	48	115	157	362	412
12	2,500	85	365	298	50	55	53	45	106	191	320	394
13	2,340	81	326	380	49	53	52	49	138	244	286	354
14	2,030	78	318	410	44	50	49	53	138	*294	250	322
15	1,690	74	304	420	39	49	43	56	125	314	230	303
16	1,410	71	286	410	36	43	36	64	125	342	205	292
17	1,180	67	268	385	32	38	30	70	130	371	180	280
18	1,010	62	250	356	29	32	24	81	152	400	160	289
19	848	59	229	326	26	27	20	88	174	412	130	365
20	735	56	212	298	24	26	*15	93	185	400	103	386
21	630	52	198	274	26	26	13	92	191	388	93	383
22	536	50	188	250	24	26	12	86	194	354	87	371
23	455	49	180	226	25	24	10	76	191	336	78	377
24	395	53	192	206	23	20	11	68	191	320	71	400
25	342	126	200	188	24	18	24	61	202	348	*64	433
26	304	307	212	172	24	15	42	56	222	377	61	482
27	271	707	212	160	24	14	46	54	224	433	59	668
28	250	1,030	216	148	29	12	58	51	219	668	57	1,220
29	220	1,110	218	136	-	10	64	48	202	982	57	1,490
30	196	1,050	216	126	-----	9.1	61	46	185	1,150	71	1,520
31	174	-----	204	116	-----	8.0	-----	47	-----	1,250	125	-----
Total	35,478	6,410	10,632	7,258	1,387	1,083.1	899.2	1,865	4,233	11,354	11,157	15,669
Mean	1,144	214	343	234	49.5	34.9	30.0	60.2	141	366	360	522
Cfsm	4.87	0.911	1.46	0.996	0.211	0.149	0.128	0.256	0.600	1.56	1.53	2.22
In.	5.61	1.01	1.68	1.15	0.22	0.17	0.14	0.30	0.67	1.80	1.77	2.48

Calendar year 1953: Max 2,500 Min 0 Mean 404 Cfsm 1.72 In. 23.36
 Water year 1953-54: Max 2,500 Min 4.8 Mean 294 Cfsm 1.25 In. 17.00

* Discharge measurement made on this day.

MANATEE RIVER BASIN

Manatee River near Bradenton, Fla.

Location.--Lat 27°28'30", long 82°18'05", in sec. 34, T. 34 S., R. 20 E., on left bank 20 ft downstream from bridge on State Highway 675, 800 ft upstream from Craig Branch, 6½ miles northwest of Verna, and 17 miles east of Bradenton.

Drainage area.--90 sq mi, approximately.

Records available.--April 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 11.72 ft above mean sea level, datum of 1929.

Average discharge.--15 years, 103 cfs.

Extremes.--Maximum discharge during year, 2,570 cfs Nov. 26 (gage height, 21.35 ft); minimum, 7.0 cfs May 11, 12 (gage height, 3.68 ft).
1939-54: Maximum discharge, 6,170 cfs Sept. 18, 1947 (gage height, 24.51 ft), from rating curve extended above 3,500 cfs; minimum, 0.6 cfs May 7, 1939; minimum gage height, 2.48 ft May 5-7, 1939.

Remarks.--Records fair.

Revisions.--WSP 1234: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 19 to June 10)

Oct. 1 to Nov. 25

Nov. 26 to Sept. 30

4.4	19	10.0	390	3.7	7.5	6.0	102
4.7	29	15.0	1,140	4.0	17	8.0	220
5.0	43	20.0	1,870				
6.0	91	21.0	2,280				
8.0	220						

Note.--Same as preceding table above 8.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	299	31	122	99	26	33	9.5	11	53	22	154	864
2	200	28	104	83	25	32	9.5	19	62	18	117	366
3	177	27	90	100	24	29	9.5	20	*72	15	102	170
4	158	*25	84	129	23	24	19	15	73	19	93	137
5	132	32	496	121	22	21	30	13	56	34	77	109
6	108	50	568	100	21	21	19	11	56	23	71	94
7	90	45	356	83	20	25	39	10	69	19	64	80
8	82	40	197	70	24	26	96	9.2	96	21	51	68
9	322	34	138	62	25	25	66	8.3	42	37	42	57
10	633	30	112	55	25	*24	51	7.8	26	34	36	53
11	503	32	96	309	24	22	39	7.5	19	27	30	42
12	256	33	84	432	22	20	26	9.2	17	177	24	39
13	157	32	77	306	21	18	20	21	14	*100	20	41
14	114	28	182	174	20	17	16	54	15	107	17	57
15	88	27	157	119	19	16	16	45	45	296	16	94
16	74	24	124	94	18	15	16	33	71	99	17	58
17	64	24	97	79	17	14	16	22	34	79	19	46
18	74	22	*80	68	17	13	14	17	59	73	19	154
19	107	21	70	62	16	14	13	15	71	57	17	833
20	96	21	62	56	16	19	12	14	62	52	15	968
21	82	32	66	51	20	19	*11	13	54	48	14	381
22	69	37	74	48	24	18	11	13	60	33	15	191
23	58	29	93	45	25	16	11	13	80	30	14	272
24	50	56	177	42	25	14	15	13	99	80	*14	399
25	43	1,850	179	39	28	12	19	14	116	192	12	355
26	38	2,020	142	*36	29	12	14	14	117	126	14	272
27	35	1,100	110	34	27	11	13	16	83	324	16	394
28	35	413	90	32	29	11	12	16	59	181	17	186
29	37	220	78	30	3	10	11	17	39	351	67	142
30	35	152	70	28	-----	10	9.5	24	28	349	71	136
31	34	-----	79	27	-----	9.7	-----	31	-----	178	255	-----
Total	4,250	6,517	4,454	3,013	632	570.7	663.0	546.0	1,747	3,201	1,490	6,948
Mean	137	217	144	97.2	22.6	18.4	22.1	17.6	58.2	103	48.1	232
Cfsm	1.52	2.41	1.60	1.08	0.251	0.204	0.246	0.196	0.647	1.14	0.534	2.56
In.	1.76	2.69	1.84	1.25	0.26	0.24	0.27	0.23	0.72	1.32	0.62	2.87

Calendar year 1953: Max 2,700 Min 2.0 Mean 170 Cfsm 1.89 In. 25.62

Water year 1953-54: Max 2,020 Min 7.5 Mean 93.2 Cfsm 1.04 In. 14.07

Peak discharge (base, 1,100 cfs).--Nov. 26 (1 a.m.) 2,570 cfs (21.35 ft).

* Discharge measurement made on this day.

Little Manatee River near Wimauma, Fla.

Location.--Lat 27°40'15", long 82°21'10", in sec. 25, T. 32 S., R. 19 E., on left bank 25 ft downstream from bridge on U. S. Highway 301, 1½ miles upstream from Cypress Creek, and 4 miles southwest of Wimauma.

Drainage area.--145 sq mi, approximately.

Records available.--March 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 2.17 ft above mean sea level, datum of 1929.

Average discharge.--15 years, 185 cfs.

Extremes.--Maximum discharge during year, 5,070 cfs Nov. 26 (gage height, 12.50 ft); minimum, 6.7 cfs Apr. 4; minimum gage height, 0.15 ft May 11, 12.
1939-54: Maximum discharge, 9,450 cfs June 24, 1945 (gage height, 14.44 ft); minimum, 1.2 cfs June 6, 7, 1945 (gage height, -0.45 ft).

Remarks.--Records fair.

Revisions (water years).--WSP 1032: 1939(M). WSP 1234: Drainage area.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	844	63	245	174	54	71	8.1	31	358	48	318	857
2	485	56	190	154	53	68	7.6	33	433	40	301	659
3	364	54	158	198	53	61	7.1	28	*522	32	260	483
4	291	*49	148	243	54	53	6.7	48	354	42	193	300
5	233	48	193	220	50	47	15	53	224	79	145	212
6	194	60	878	204	48	45	20	35	172	52	114	176
7	163	67	661	176	46	72	71	27	142	45	93	151
8	145	60	432	152	47	78	145	22	139	97	82	130
9	666	53	303	133	55	64	99	20	107	165	74	106
10	1,290	49	226	120	54	*58	67	17	71	130	68	108
11	1,100	54	180	213	51	53	50	16	51	114	67	98
12	636	56	152	394	48	45	40	17	40	183	54	186
13	370	50	133	378	46	38	33	316	46	*575	46	1,130
14	263	47	208	375	44	34	30	966	74	517	39	1,880
15	202	42	237	296	40	31	40	672	77	358	33	993
16	163	38	203	235	37	26	40	259	274	218	33	349
17	134	35	171	193	35	24	31	155	173	175	48	213
18	128	32	*141	a160	33	21	28	105	134	190	70	175
19	162	30	119	a140	32	21	25	75	131	174	119	740
20	163	30	106	a122	32	32	23	61	116	118	60	544
21	149	39	201	a109	42	47	*22	50	93	85	65	350
22	128	52	229	a96	74	38	20	44	72	63	128	296
23	110	48	391	a86	65	28	20	38	79	50	78	293
24	97	151	605	a80	56	22	37	34	104	74	*53	584
25	87	3,140	417	a75	79	18	218	30	140	447	41	589
26	78	4,360	343	*72	80	16	149	29	287	949	44	752
27	74	2,090	277	70	64	14	81	29	198	1,910	177	1,720
28	68	870	226	67	58	12	49	29	124	1,540	74	804
29	76	494	190	62	-	11	40	38	83	1,200	421	601
30	76	334	167	58	-	10	32	96	62	728	885	462
31	67	-	170	56	-	9.1	-	259	-	478	1,230	-
Total	9,004	12,551	9,000	5,111	1,430	1,167.1	1,454.5	3,632	4,880	10,876	5,413	15,741
Mean	290	418	290	165	51.1	37.6	48.5	117	163	351	175	525
Cfsm	2.00	2.88	2.00	1.14	0.352	0.259	0.334	0.807	1.12	2.42	1.21	3.62
In.	2.31	3.22	2.31	1.51	0.37	0.30	0.37	0.93	1.25	2.79	1.39	4.04

Calendar year 1953: Max 4,360 Min 4.5 Mean 237 Cfsm 1.63 In. 22.24
 Water year 1953-54: Max 4,360 Min 6.7 Mean 220 Cfsm 1.52 In. 20.59

Peak discharge (base, 1,400 cfs).--Oct. 10 (2 a.m.) 1,410 cfs (7.72 ft); Nov. 26 (5 a.m.) 5,070 cfs (12.50 ft); May 14 (7 p.m.) 1,420 cfs (7.37 ft); July 27 (3:30 p.m.) 2,110 cfs (9.15 ft); Sept. 14 (7 a.m.) 2,320 cfs (9.50 ft); Sept. 27 (8:30 a.m.) 2,020 cfs (9.00 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Manatee River near Bradenton.

North Prong Alafia River at Keysville, Fla.

Location.--Lat 27°53', long 82°06', in sec. 10, T. 30 S., R. 22 E., near center of span at downstream side of highway bridge, 0.8 mile northwest of Keysville, and 3 miles upstream from confluence with South Prong Alafia River.

Drainage area.--175 sq mi, approximately.

Records available.--May 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 38.56 ft (corrected) above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 3,860 cfs Nov. 25 (gage height, 12.78 ft); minimum, 30 cfs May 12 (gage height, 1.76 ft).

1950-54: Maximum discharge, 3,890 cfs Sept. 7, 1950; maximum gage height, 12.78 ft Sept. 7, 1950, Nov. 25, 1953; minimum discharge, 3.6 cfs May 17, 1952; minimum gage height, 1.18 ft June 1, 2, 1953.

Remarks.--Records good except those for period of no gage-height record, which are fair.

Revisions.--WSP 1234: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Apr. 8				Apr. 9 to Sept. 30			
1.9	36	9.0	670	1.7	27	3.0	98
2.0	40	9.8	1,000	2.0	42	7.0	362
3.0	91	11.0	1,840	Note.--Same as preceding table above 7.0 ft.			
7.0	362	12.0	2,810				
8.0	484						

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	587	99	319	192	76	g100	40	108	96	64	413	159
2	527	96	263	176	74	a90	40	99	105	63	420	156
3	445	*89	226	170	74	a80	39	83	113	56	320	143
4	470	85	207	173	73	a71	39	81	*124	54	262	137
5	604	84	386	166	70	a65	42	135	194	84	234	137
6	480	105	850	156	66	a84	45	103	215	132	199	160
7	348	109	590	144	62	a115	64	66	134	166	162	139
8	282	112	444	131	64	g111	172	49	178	582	455	116
9	358	112	358	122	73	*94	85	41	156	868	606	101
10	g14	106	278	116	71	90	59	36	84	723	357	90
11	740	108	240	140	69	88	51	33	66	673	223	85
12	572	104	216	212	67	79	47	30	58	638	159	98
13	434	95	197	224	65	71	44	50	177	*463	125	218
14	326	86	252	188	62	69	51	118	522	318	108	270
15	262	83	322	170	a60	70	58	145	461	283	105	244
16	220	79	315	153	a59	62	81	102	304	300	99	187
17	194	74	237	140	a59	58	71	65	254	306	93	143
18	186	71	*196	128	a59	55	55	55	236	298	84	114
19	210	68	170	119	a59	55	45	44	220	253	75	103
20	213	66	151	115	g59	95	40	122	208	175	70	89
21	189	77	176	114	a93	97	41	326	179	139	68	77
22	165	77	236	111	a135	76	*38	258	225	118	66	72
23	150	77	281	105	a108	64	38	157	244	111	*84	97
24	135	118	605	98	a100	61	39	118	228	219	62	122
25	124	2,280	632	93	a150	58	41	87	172	512	62	131
26	113	1,800	469	92	a150	54	42	66	133	554	67	202
27	104	1,050	359	*90	a128	52	39	66	105	2,380	70	264
28	103	707	285	87	a113	49	37	93	88	1,540	75	347
29	127	546	241	83	-	46	36	89	75	793	78	589
30	127	411	220	78	-----	44	48	91	68	543	89	441
31	107	-----	205	76	-----	43	-----	96	-----	399	111	-----
Total	9,796	8,974	9,906	4,162	2,298	2,246	1,567	2,990	5,422	13,797	5,381	5,231
Mean	316	299	320	134	82.1	72.5	52.2	96.5	181	445	174	174
Cfsm	1.81	1.71	1.83	0.768	0.469	0.414	0.298	0.551	1.03	2.54	0.994	0.994
In.	2.08	1.91	2.11	0.88	0.49	0.48	0.33	0.64	1.15	2.93	1.14	1.11

Calendar year 1953: Max 2,390 Min 4.0 Mean 251 Cfsm 1.43 In. 19.46
 Water year 1953-54: Max 2,380 Min 30 Mean 197 Cfsm 1.13 In. 15.25

Peak discharge (base, 600 cfs).--Oct. 5 (3 a.m.) 643 cfs (8.90 ft); Oct. 10 (12:30 p.m.) 1,150 cfs (10.05 ft); Nov. 25 (4:30 p.m.) 3,860 cfs (12.78 ft); Dec. 6 (6 a.m.) 972 cfs (9.75 ft); Dec. 24 (7 p.m.) 778 cfs (9.32 ft); July 8 (10 p.m.) 1,040 cfs (9.86 ft); July 27 (1 p.m.) 2,990 cfs (12.15 ft); Aug. 8 (8:30 p.m.) 763 cfs (9.28 ft); Sept. 29 (1:30 p.m.) 622 cfs (8.81 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and records for Alafia River at Lithia.
 g Computed from once-daily staff-gage reading.

Alafia River at Lithia, Fla.

Location.--Lat 27°52', long 82°12', in sec. 16, T. 30 S., R. 21 E., on left bank 11 ft downstream from Marvinia Bridge, 1 mile northwest of Lithia, and 1½ miles downstream from Little Alafia River.

Drainage area.--335 sq mi, approximately.

Records available.--January 1933 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 9.86 ft above mean sea level, datum of 1929. Prior to Aug. 8, 1939, staff gage at site 250 ft upstream at same datum.

Average discharge.--21 years, 351 cfs.

Extremes.--Maximum discharge during year, 4,420 cfs Nov. 25 (gage height, 14.38 ft, from floodmark); minimum, 75 cfs May 12 (gage height, 0.18 ft).
1933-54: Maximum discharge, 19,300 cfs Sept. 7, 1933 (gage height, 25.6 ft, from floodmarks), from rating curve extended above 10,000 cfs; minimum, 6.6 cfs June 5, 6, 1945 (gage height, -0.91 ft).

Remarks.--Records fair.

Revisions (water years).--WSP 782: 1933(m). WSP 1234: Drainage area. WSP 1274: 1933-35, 1939, 1945, 1947-50.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to July 29				July 30 to Sept. 30			
0.2	77	11.0	2,310	0.9	138	3.0	430
1.0	174	13.0	3,350	1.0	150	7.0	1,260
3.0	446	15.0	4,990				
7.0	1,260						

Note.--Same as preceding table above 7.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,790	244	942	434	195	265	96	157	738	244	1,370	317
2	1,570	234	766	404	189	256	91	189	555	234	1,280	299
3	1,340	*220	642	404	186	241	88	149	578	221	1,090	287
4	1,100	212	565	425	184	230	87	156	*616	212	906	281
5	1,100	206	1,140	418	179	214	90	205	604	223	838	290
6	1,050	231	1,510	407	169	206	94	200	545	268	770	319
7	834	244	1,430	376	162	266	150	151	418	365	632	312
8	666	237	1,240	342	164	275	354	123	618	802	716	278
9	762	236	972	316	179	*253	226	105	443	1,080	992	266
10	1,370	228	762	300	175	240	156	91	286	1,210	862	291
11	1,780	232	638	360	170	230	133	83	226	1,350	541	268
12	1,730	229	552	543	166	215	123	79	196	1,210	386	278
13	1,260	216	497	a560	161	201	114	132	219	1,060	307	600
14	904	204	628	a550	155	190	115	274	456	*850	255	648
15	694	191	706	a510	150	185	125	368	632	684	244	582
16	578	187	694	457	148	169	176	287	528	754	232	466
17	492	181	578	408	147	157	209	234	419	908	216	441
18	468	178	*486	365	147	149	161	204	389	806	199	475
19	500	171	419	334	147	147	135	174	406	748	212	664
20	497	165	377	316	147	200	119	270	412	610	189	453
21	468	176	420	301	226	232	112	497	394	494	173	371
22	a415	186	561	290	304	198	*106	443	422	425	167	393
23	a365	184	676	277	250	173	101	279	570	392	164	578
24	a325	242	1,200	268	242	157	103	221	561	491	*150	564
25	a305	g2,500	1,190	259	341	149	112	176	600	828	142	530
26	a280	g4,300	1,060	241	342	139	120	147	523	1,020	143	766
27	a255	g3,870	836	*236	295	129	111	139	424	2,240	179	870
28	a250	2,760	678	226	265	121	105	166	347	3,490	167	888
29	a285	1,830	556	216	-----	113	99	165	297	3,080	167	1,180
30	282	1,260	494	206	-----	106	97	218	269	2,190	182	1,220
31	268	-----	462	200	-----	101	-----	287	-----	1,530	298	-----
Total	23,993	21,554	23,737	10,949	5,585	5,907	3,908	6,389	13,692	30,019	14,179	15,175
Mean	774	718	766	353	199	191	130	206	456	968	457	506
Cfs/m	2.31	2.14	2.29	1.05	0.594	0.570	0.388	0.615	1.36	2.89	1.36	1.51
In.	2.66	2.39	2.64	1.22	0.62	0.66	0.43	0.71	1.52	3.33	1.57	1.68

Calendar year 1953: Max 4,300 Min 11 Mean 565 Cfs/m 1.89 In. 22.88
Water year 1953-54: Max 4,300 Min 79 Mean 480 Cfs/m 1.43 In. 19.43

Peak discharge (base, 1,700 cfs).--Oct. 11 (10 p.m.) 1,890 cfs (9.53 ft); Nov. 25 (time unknown) 4,420 cfs (14.38 ft); July 28 (4 p.m.) 3,640 cfs (13.42 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for North Prong Alafia River at Keyville.

g Computed from graph of once-daily staff-gage readings.

HILLSBOROUGH RIVER BASIN

Crystal Springs near Zephyrhills, Fla.

Location.--Lat 28°11', long 82°11', in sec. 35, T. 26 S., R. 21 E., on left bank of Hillsborough River, a quarter of a mile downstream from Crystal Springs, 1½ miles west of village of Crystal Springs, and 3½ miles south of Zephyrhills.

Records available.--October 1934 to September 1954 (discharge measurements only).

Gage.--Staff gage read only when discharge measurements are made. Datum of gage is 34.67 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Extremes.--1934-54: Maximum discharge measured, 147 cfs July 19, 1941; minimum measured, 20.3 cfs July 1, 1946.

Remarks.--Discharge measurement either of Crystal Springs or of Hillsborough River made both above and below Crystal Springs to obtain discharge of springs, which is difference between that of river at each of two points. Flow regulated occasionally at springs outlet for recreational purposes.

Revisions (water years).--WSP 1052: 1935, 1937-42, 1944-45.

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Date	Hillsborough River		Difference or spring flow
	Below springs	Above springs	
Nov. 9.....	108	39.2	68.8
Feb. 1.....	90.7	25.6	65.1
Mar. 15.....	80.3	16.6	63.7
Apr. 26.....	90.2	28.7	61.5
July 19.....	86.1	29.3	56.8
Aug. 30.....	92.4	27.7	64.7

Blackwater Creek near Knights, Fla.

Location.--Lat 28°08'25", long 82°09'00", in sec. 18, T. 27 S., R. 22 E., on downstream side of center pier of bridge on State Highway 39, 2.0 miles downstream from Itchepackassassa Creek and 4.4 miles northwest of Knights.

Drainage area.--110 sq mi, approximately.

Records available.--January 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 70.56 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 1,620 cfs Nov. 26 (gage height, 7.87 ft); minimum, 7.3 cfs Apr. 8 (gage height, 0.70 ft).

1951-54: Maximum discharge, 1,800 cfs Sept. 27, 1953 (gage height, 8.13 ft); minimum, 0.7 cfs May 23, 1952; minimum gage height, 0.66 ft June 2, 1953.

Remarks.--Records good. Several small diversions above station for irrigation.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	552	54	238	122	*33	42	15	16	19	27	156	46
2	698	50	196	108	32	36	15	17	19	25	146	39
3	548	50	164	110	33	36	15	19	75	22	172	32
4	489	47	169	104	32	39	16	24	630	30	142	28
5	411	47	646	98	30	36	36	20	958	47	136	25
6	336	51	574	88	28	34	32	18	453	57	96	31
7	277	51	416	80	28	42	31	17	*335	118	195	30
8	280	50	298	75	30	43	25	16	496	289	785	27
9	672	*48	239	69	29	40	27	15	247	334	807	23
10	672	47	195	63	26	36	24	14	147	289	393	21
11	477	49	167	73	27	34	23	13	*96	236	263	18
12	330	48	145	89	28	34	17	14	94	189	188	16
13	259	46	134	84	28	30	14	21	142	147	138	36
14	206	46	*230	78	27	28	11	28	96	108	117	63
15	168	50	180	73	27	*28	14	25	73	87	115	51
16	138	50	144	70	25	26	20	21	109	85	108	44
17	118	48	123	66	25	24	23	18	104	104	90	40
18	112	47	104	62	24	20	21	16	80	96	74	36
19	114	46	93	60	25	20	19	14	64	*79	61	30
20	102	47	86	57	24	36	17	19	58	58	51	25
21	90	84	94	55	32	40	14	28	47	45	42	21
22	90	84	101	54	38	32	13	22	59	36	38	19
23	73	81	533	50	36	28	16	80	34	33	23	23
24	66	114	743	47	36	25	14	16	117	79	30	34
25	61	1,130	535	45	61	23	15	14	110	127	32	46
26	56	1,580	369	43	57	20	*24	13	73	174	27	49
27	53	1,290	276	42	50	17	20	16	55	515	24	53
28	57	659	224	40	45	16	16	23	44	546	22	60
29	67	400	190	38	-	14	15	26	35	533	72	58
30	64	300	164	36	-	15	16	25	28	336	*25	54
31	58	-	144	34	-	15	-	23	-	223	39	-
Total	7,682	6,694	7,914	2,113	916	911	576	589	4,943	5,074	4,367	1,077
Mean	248	223	255	68.2	32.7	29.4	19.2	19.0	165	164	141	35.9
Cfsm	2.25	2.03	2.32	0.620	0.297	0.267	0.175	0.173	1.50	1.49	1.28	0.326
In.	2.60	2.26	2.68	0.71	0.31	0.31	0.19	0.20	1.67	1.72	1.48	0.36

Calendar year 1953: Max 1,580

Min 1.3

Mean 196

Cfsm 1.80

In. 24.43

Water year 1953-54: Max 1,580

Min 11

Mean 117

Cfsm 1.06

In. 14.49

Peak discharge (base, 1,000 cfs).--Nov. 26 (6 a.m.) 1,620 cfs (7.87 ft); June 5 (6 a.m.) 1,140 cfs (7.11 ft).

* Discharge measurement made on this day.

Hillsborough River near Zephyrhills, Fla.

Location.--Lat 28°09', long 82°14', in sec. 8, T. 27 S., R. 21 E., on left bank 10 ft downstream from footbridge in Hillsborough River State Park, 2 miles downstream from Blackwater Creek, and 7 miles southwest of Zephyrhills.

Drainage area.--220 sq mi, approximately.

Records available.--November 1939 to September 1954.

Gage.--Staff gage read once daily. Datum of gage is 33.28 ft above mean sea level (Corps of Engineers benchmark).

Average discharge.--15 years, 285 cfs.

Extremes.--Maximum discharge during year, 2,080 cfs at 12:01 a.m. Oct. 1 (gage height, 9.57 ft; stage falling, peak occurred Sept. 28, 1953); maximum peak discharge, 1,890 cfs July 27 (gage height, 9.08 ft); minimum discharge, 85 cfs May 11, 12 (gage height, 1.00 ft).

1939-54: Maximum discharge observed, 5,920 cfs Sept. 19, 1947; maximum gage height, 13.80 ft Sept. 7, 1950; minimum discharge observed, 48 cfs June 11-17, 1945; minimum gage height observed, 0.78 ft June 3-6, 1944, June 11-17, 1945.

Remarks.--Records good.

Cooperation.--Gage-height record furnished by superintendent of Hillsborough River State Park.

Revisions.--WSP 1234: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.0	85	6.0	1,010
2.0	215	8.0	1,530
4.0	580	10.0	2,260

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,980	203	548	501	*140	136	90	103	98	103	796	145
2	1,930	194	472	454	137	129	90	103	95	104	692	137
3	1,710	190	413	434	137	124	88	98	134	101	697	127
4	1,510	179	366	405	136	129	88	114	521	101	647	121
5	1,310	181	927	376	132	127	90	111	940	147	544	119
6	1,140	202	1,140	344	129	124	108	103	822	147	414	119
7	1,000	192	927	316	125	132	98	97	530	219	358	119
8	911	184	763	284	132	134	112	95	788	378	1,100	114
9	1,220	179	688	265	132	132	106	93	608	458	1,290	108
10	1,510	*173	645	247	128	128	103	88	452	416	1,050	106
11	1,240	184	604	247	127	121	103	85	*330	367	737	102
12	968	180	558	260	127	121	101	85	255	341	588	101
13	834	173	515	250	124	119	95	103	343	274	499	98
14	758	168	*674	235	121	116	93	127	268	260	405	146
15	695	171	604	223	121	*112	93	121	207	301	339	137
16	633	168	534	218	119	108	92	111	210	235	305	127
17	574	163	486	212	116	107	101	102	212	242	267	121
18	532	160	437	202	116	104	98	97	188	229	228	119
19	521	158	399	199	114	101	95	90	168	199	205	111
20	480	153	367	192	114	119	93	98	153	166	186	106
21	439	198	352	189	127	132	93	104	140	147	166	102
22	397	198	353	184	137	121	93	99	140	130	160	101
23	359	197	817	179	132	114	90	95	171	121	147	106
24	328	234	1,400	171	129	111	90	90	194	*236	147	116
25	296	1,000	1,220	166	158	106	90	88	226	645	145	137
26	267	1,620	979	160	158	103	*115	86	176	747	147	140
27	250	1,620	813	159	145	101	111	90	147	1,830	140	145
28	238	1,200	739	155	137	97	95	95	132	1,850	140	197
29	247	783	678	150	-	93	95	99	116	1,740	132	155
30	230	630	618	146	-----	93	93	103	111	1,360	*132	147
31	215	-----	560	142	-----	93	-----	101	-----	981	137	-----
Total	24,722	11,215	20,621	7,665	3,650	3,587	2,905	3,074	8,875	14,575	12,940	3,729
Mean	797	374	665	247	130	116	96.8	99.2	296	470	417	124
Cfsam	3.62	1.70	3.02	1.12	0.591	0.527	0.440	0.451	1.35	2.14	1.90	0.564
In.	4.18	1.90	5.49	1.30	0.62	0.61	0.49	0.52	1.50	2.46	2.19	0.63

Calendar year 1953: Max 4,140 Min 71 Mean 532 Cfsam 2.42 In. 32.81
 Water year 1953-54: Max 1,980 Min 85 Mean 322 Cfsam 1.46 In. 19.89

Peak discharge (base, 1,500 cfs).--Oct. 10 (9 a.m.) 1,550 cfs (8.06 ft); Nov. 26 (9 p.m.) 1,740 cfs (8.66 ft); July 27 (9 p.m.) 1,890 cfs (9.08 ft).

* Discharge measurement made on this day.

Hillsborough River near Tampa, Fla.

Location.--Lat 28°01'25", long 82°25'40", in sec. 29, T. 28 S., R. 19 E., on left bank just upstream from spillway of Tampa reservoir dam, at Thirtieth Street, $5\frac{1}{2}$ miles northeast of Tampa.

Drainage area.--650 sq mi, approximately.

Records available.--October 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (city of Tampa benchmark). Prior to Oct. 1, 1945, at site 1.4 miles upstream at datum 0.66 ft higher.

Average discharge.--16 years, 627 cfs (adjusted for diversion).

Extremes.--Maximum daily discharge during year, 6,800 cfs Oct. 1; maximum gage height, 21.86 ft Oct. 1; minimum daily discharge, 28 cfs Mar. 27, 29, Apr. 5; minimum gage height, 18.74 ft Oct. 17.

1938-54: Maximum discharge, 9,690 cfs July 28-30, 1945; maximum gage height, 22.76 ft Sept. 10, 1950; no flow Nov. 30 to Dec. 2, 1945.

Maximum stage known, 25.6 ft, at former site and datum, Sept. 7, 1933, from flood-marks, affected by backwater prior to failure of Tampa power dam, 1.4 miles below former gage. A discharge of 16,500 cfs was measured Sept. 9, 1933.

Remarks.--Records fair. Flow regulated by Tampa reservoir since Oct. 1, 1945. Capacity of reservoir insufficient to affect monthly figure of runoff. Diversion at point $1\frac{1}{2}$ miles above station for water supply by city of Tampa as shown in monthly table.

Revisions (water years).--WSP 1234: Drainage area.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,800	747	2,030	1,970	347	274	62	118	96	234	2,850	375
2	6,500	444	2,410	1,960	*341	240	64	117	101	205	2,630	*702
3	6,000	444	1,860	1,700	342	238	50	152	100	214	2,450	329
4	5,610	41	1,220	1,720	343	30	273	94	103	230	2,280	433
5	5,210	174	1,510	1,590	308	33	28	96	121	230	2,100	325
6	4,870	314	1,890	1,460	238	44	30	97	142	216	1,930	286
7	4,600	366	1,990	1,370	168	547	31	97	210	197	1,590	324
8	4,320	378	2,180	1,180	232	183	33	96	*242	307	1,540	285
9	4,040	525	2,140	1,110	238	238	35	91	423	168	1,150	41
10	3,730	*391	2,190	936	306	309	44	86	502	197	1,470	287
11	3,470	492	2,170	929	309	29	70	78	721	313	1,480	290
12	3,320	453	1,780	843	273	271	104	72	696	309	1,730	39
13	3,170	546	1,780	835	306	272	129	80	587	417	1,700	325
14	2,800	468	1,730	760	307	29	139	90	263	818	1,330	42
15	2,470	382	*1,670	725	29	237	148	97	597	366	1,320	287
16	2,480	393	1,610	725	272	*30	154	102	516	775	1,100	40
17	2,140	378	1,460	630	273	272	153	104	557	632	980	289
18	1,730	465	1,460	408	241	68	151	101	406	767	870	38
19	1,780	363	1,440	686	30	234	145	95	401	394	749	286
20	1,670	272	1,250	583	239	311	133	103	326	717	373	89
21	1,330	476	1,290	419	271	29	447	107	189	*423	773	287
22	1,290	385	1,070	512	312	312	34	106	239	440	335	335
23	1,240	382	1,230	628	232	29	37	102	253	417	375	38
24	813	301	1,450	405	102	311	44	95	253	417	623	418
25	1,170	834	1,670	308	199	29	64	89	486	693	330	405
26	655	1,080	1,920	551	235	271	82	83	275	984	331	322
27	983	1,320	2,150	308	236	28	*96	81	197	1,240	733	422
28	542	1,790	2,660	519	271	287	107	78	197	1,980	457	585
29	894	2,200	2,340	371	-	28	116	78	444	2,520	574	614
30	507	2,390	2,300	308	-	30	118	83	156	2,700	667	693
31	518	-	2,000	308	-	274	-	164	-	2,890	368	-
Total	86,652	19,194	55,650	26,357	7,000	5,477	3,100	3,032	9,799	22,410	37,168	9,229
Mean	2,795	640	1,795	850	250	177	103	97.8	327	723	1,199	308
(†)	25.9	26.4	24.5	26.4	30.0	31.0	34.2	34.1	31.2	27.2	30.5	29.3

Adjusted for diversion by city of Tampa

Mean	2,821	668	1,820	877	280	208	138	132	358	750	1,229	337
Cfsm	4.54	1.02	2.80	1.35	0.431	0.320	0.212	0.203	0.551	1.15	1.89	0.518
In.	5.00	1.14	3.23	1.55	0.45	0.37	0.24	0.23	0.61	1.33	2.18	0.58

Observed				Adjusted			
Calendar year 1953:	Max 6,830	Min 37	Mean 1,183	Mean 1,213	Cfsm 1.87	In. 25.33	
Water year 1953-54:	Max 6,800	Min 28	Mean 781	Mean 810	Cfsm 1.25	In. 16.91	

* Discharge measurement made on this day.

† Diversion by city of Tampa, in cubic feet per second; furnished by city of Tampa Water Department.

Drainage ditch at Bearss Avenue, near Sulphur Springs, Fla.

Location.--Lat 28°05'15", long 82°27'55", in sec. 36, T. 27 S., R. 18 E., on right bank 25 ft downstream from bridge on Bearss Avenue, 0.3 mile west of U. S. Highway 541, and 4.5 miles north of Sulphur Springs Post Office.

Drainage area.--12 sq mi, approximately.

Records available.--July 1946 to September 1954.

Gage.--Staff gage read once or twice daily. Datum of gage is 30.00 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 66 cfs Oct. 1, Aug. 18; maximum gage height observed, 19.98 ft Aug. 18; minimum discharge, 0.2 cfs Nov. 14-19; minimum gage height observed, 17.06 ft Apr. 22, 23.

1946-54: Maximum discharge observed, 107 cfs Sept. 23, 25, 1947; maximum gage height observed, 20.18 ft Sept. 29, 1946; no flow for many days in most years.

Remarks.--Records poor. Diversion channel 0.6 mile upstream from station diverts part of flow at high stages into Lake Magdalene and the Sweetwater Creek basin. Since completion of a dam at diversion channel on Feb. 10, 1953, the amount of flow diverted from basin has increased.

Rating tables, water year 1953-54 (gage height, in feet, and discharge in cubic feet per second)
(Shifting-control method used Oct. 1-16, Nov. 26 to Jan. 28)

Oct. 1 to Dec. 18				Dec. 19 to Sept. 1				Sept. 2-30			
17.0	0.1	18.2	6.8	17.0	0.3	18.8	7.8	18.6	12		
17.2	.5	18.4	10.0	17.5	.8	19.0	12	19.0	19		
17.4	1.2	18.6	14	18.0	1.9	19.5	35	19.5	35		
17.8	3.0	18.8	25	18.3	3.0	20.0	67				
18.0	4.4	19.4	67	18.6	5.2						

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	0.7	12	22	0.6	1.5	0.9	1.8	3.4	5.6	25	33
2	*61	.7	12	20	.5	1.4	.9	1.4	3.1	5.6	24	*33
3	59	.6	12	19	.5	1.4	.9	1.1	3.0	5.6	22	31
4	56	.5	12	17	.6	1.4	.8	.8	3.1	6.3	20	32
5	54	.7	13	15	*.8	1.3	.8	.7	3.1	6.3	18	30
6	25	.7	9.7	14	.9	1.3	.7	.6	3.0	6.2	16	29
7	16	.5	2.0	12	1.0	1.4	.7	.5	3.3	6.6	15	26
8	2.0	.4	23	11	1.1	1.3	.8	.4	3.3	8.6	14	23
9	1.7	.4	53	9.6	1.2	1.3	.8	.4	3.2	9.0	13	21
10	1.7	.4	45	9.0	1.2	1.3	.8	.4	*3.2	9.4	52	20
11	1.8	.4	28	8.8	1.3	1.3	.8	.4	3.2	11	56	18
12	21	.3	25	7.5	1.3	1.2	.8	.3	3.0	12	56	17
13	51	*.3	25	7.0	1.3	1.2	.7	.8	2.9	11	54	16
14	45	.2	26	6.4	1.3	1.2	.7	.6	3.3	11	52	15
15	39	.2	22	6.3	1.3	1.1	.6	.5	3.6	11	49	15
16	19	.2	21	6.0	1.3	1.0	.6	.4	5.0	11	47	14
17	1.7	.2	20	5.6	1.3	.9	.6	.4	6.8	9.8	50	13
18	1.2	.2	*16	5.2	1.3	*.9	.5	.4	9.8	9.0	61	14
19	1.1	.2	15	5.0	1.3	.8	.4	.3	9.8	9.8	20	14
20	1.2	.3	12	4.8	1.3	1.1	.4	.4	14	9.2	18	14
21	1.2	.4	12	4.6	1.6	1.0	.4	.4	15	8.2	20	13
22	1.2	.4	11	4.4	1.5	1.0	.3	.4	15	7.4	20	13
23	1.2	.4	21	4.0	1.4	.9	.4	5.0	13	*7.5	20	13
24	1.1	.5	24	3.8	1.5	.9	.5	7.6	12	8.0	20	13
25	1.1	8.0	28	3.6	1.6	.8	.5	6.6	11	7.8	20	14
26	1.0	38	30	3.4	1.5	.8	.7	5.5	9.8	8.4	19	15
27	1.0	18	36	3.2	1.4	.7	*.8	5.0	8.8	11	18	16
28	1.1	12	31	3.1	1.5	.7	1.0	4.6	7.6	15	19	18
29	1.0	12	30	2.4		.9	1.2	4.2	6.9	20	25	20
30	.8	12	28	1.0			1.5	3.8	6.0	23	30	22
31	.8		26		.7		.8	3.5		25	32	
Total	534.9	107.8	680.7	245.4	33.4	33.6	21.5	59.0	198.2	315.1	925	585
Mean	17.3	3.59	22.0	7.92	1.19	1.08	0.72	1.90	6.61	10.2	29.8	19.5
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-

Calendar year 1953: Max 65
Water year 1953-54: Max 65

Min 0

Min 0.2

Mean 7.93

Mean 10.2

Cfsm -

Cfsm -

In. -

In. -

* Discharge measurement made on this day.

SWEETWATER CREEK BASIN

Sweetwater Creek near Sulphur Springs, Fla.

Location.--Lat 28°02'33", long 82°30'44", in sec. 16, T. 28 S., R. 18 E., on left bank near upstream side of bridge on Gunn Highway, 1½ miles downstream from Lake Ellen and 4.1 miles northwest of Sulphur Springs Post Office.

Drainage area.--6.4 sq mi, approximately.

Records available.--October 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 30.68 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 64 cfs Oct. 1 (gage height, 3.02 ft); no flow for many days.

1951-54: Maximum discharge, 83 cfs Sept. 16, 1953 (gage height, 3.40 ft); no flow for many days.

Remarks.--Records fair except those for period of no gage-height record, which are poor. Some regulation by lakes above station. Since Feb. 10, 1953, considerable flow diverted at times into basin above station from Hillsborough River basin.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Jan. 21)

Oct. 1 to June 30

July 1 to Sept. 30

0.17	0	1.5	9.0	0.2	0
.2	.1	2.0	16	.5	.5
.4	1.0	2.5	29	.7	.9
.5	1.4	3.0	54	1.1	2.6
.8	2.9	3.2	67	1.5	6.0
1.0	4.2			2.0	13

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	7.0	9.1	6.9	1.0	1.1	0	0.1	0.4	0	0.3	7.8
2	50	6.9	8.4	6.4	*.9	.9	0	0	.2	0	.3	6.6
3	54	6.8	7.8	6.9	.8	.9	0	0	0	0	.3	5.5
4	48	6.7	8.7	6.4	.8	1.1	0	0	0	0	.3	5.7
5	42	7.6	15	6.1	.8	.9	0	0	.2	0	.3	7.2
6	38	8.7	13	5.6	.7	.9	0	0	0	0	.2	5.8
7	34	8.2	12	5.0	.7	1.2	.4	0	.1	.1	.2	4.6
8	30	7.8	11	4.5	1.2	1.1	.6	0	*.3	.3	.3	3.6
9	30	7.6	11	4.2	1.0	1.0	.3	0	.2	.4	.3	2.8
10	30	7.6	10	3.9	.9	1.0	.3	0	0	.3	.3	2.1
11	30	7.8	9.4	4.6	.9	.9	.2	0	0	.3	.3	2.0
12	31	*7.5	8.9	4.4	.9	.8	.1	0	0	.3	.4	7.5
13	31	7.2	9.0	3.9	.8	.7	0	.5	0	.3	.4	
14	29	7.2	11	3.6	.8	.7	0	.4	0	.4	.5	
15	25	7.1	*9.2	3.4	.8	.6	.1	.2	0	.5	.7	
16	21	7.0	8.4	3.3	.8	*.4	.3	0	0	.4	.8	
17	18	6.9	7.5	3.2	.8	.3	.4	0	0	.3	.8	
18	17	6.9	6.7	2.9	.7	.2	.1	0	0	.3	1.1	
19	16	6.7	6.1	2.7	.5	.3	0	0	0	.3	1.5	g8.5
20	15	6.6	5.7	2.6	.5	.9	0	.4	0	*.2	1.3	g5.8
21	14	7.1	6.0	2.5	1.1	.9	0	.2	0	.2	1.5	g4.5
22	14	7.0	5.9	2.4	1.2	.8	0	0	0	.1	2.4	g3.8
23	14	7.2	15	2.2	1.1	.7	0	0	0	.2	2.3	g3.4
24	14	9.1	16	1.9	1.1	.5	0	0	0	.3	2.4	g4.7
25	13	21	14	1.9	1.3	.4	.4	0	0	.4	3.8	g6.5
26	13	18	12	1.8	1.2	.3	.7	0	0	.5	5.4	g12
27	13	15	10	2.0	1.1	.2	*.4	0	0	.5	5.3	g13
28	13	13	9.3	1.7	1.1	.1	.3	0	0	.6	5.2	g11
29	9.4	11	8.7	1.4	-	.1	.2	0	0	.6	9.6	g9.3
30	6.9	9.9	8.1	.7	-----	0	.1	0	0	.5	10	g7.8
31	7.1	-----	7.8	1.1	-----	0	-----	.1	-----	.4	*9.0	-----
Total	794.4	264.1	300.7	110.1	25.5	19.9	4.9	1.9	1.4	8.7	67.5	211.5
Mean	25.6	8.80	9.70	3.55	0.91	0.64	0.16	0.06	0.05	0.28	2.18	7.05
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-

Calendar year 1953: Max 68 Min 0 Mean 8.24 Cfsm - In. -
Water year 1953-54: Max 64 Min 0 Mean 4.96 Cfsm - In. -

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and records for nearby stations.

g Computed from once-daily staff-gage readings.

Rocky Creek near Sulphur Springs, Fla.

Location--Lat 28°02'23", long 82°34'31", in N $\frac{1}{2}$ sec. 23, T. 28 S., R. 17 E., on left bank 100 ft upstream from Seaboard Railroad bridge, 2.5 miles downstream from Brushy Creek, and 7.7 miles northwest of Sulphur Springs Post Office.

Drainage area--35 sq mi, approximately.

Records available--January 1953 to September 1954.

Gage--Water-stage recorder and wooden control. Datum of gage is 0.15 ft below mean sea level, datum of 1929.

Extremes--Maximum discharge during year, 492 cfs Aug. 30 (gage height, 9.92 ft); minimum, 3.4 cfs Apr. 6, 7 (gage height, 3.25 ft).
1953-54: Maximum discharge, 697 cfs Sept. 27, 1953 (gage height, 12.00 ft), from rating curve extended above 400 cfs; minimum, 1.4 cfs July 13-16, 1953 (gage height, 3.17 ft).

Remarks--Records fair.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

3.2	2.0	4.5	103
3.3	4.8	5.0	129
3.5	12	8.0	329
3.7	26	10.0	500
4.0	64		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	356	17	40	76	12	8.5	3.9	8.8	14	6.8	53	207
2	*333	17	58	72	*11	7.8	3.9	14	12	9.5	44	161
3	274	15	35	69	11	7.8	3.6	12	9.5	16	38	125
4	233	13	33	67	10	8.2	3.6	9.2	8.2	16	36	106
5	204	14	105	62	10	8.2	3.6	7.8	7.5	14	31	110
6	175	20	143	56	9.8	*7.8	3.6	6.5	7.2	12	26	108
7	145	19	98	51	9.2	8.5	9.4	6.1	6.8	14	24	87
8	126	17	84	46	9.5	8.5	23	5.4	*7.5	53	25	75
9	118	17	78	42	9.8	8.5	13	5.0	8.5	112	24	68
10	111	15	77	39	9.5	8.5	9.8	4.5	9.5	108	22	58
11	103	14	72	39	9.2	8.2	8.2	4.2	7.8	75	20	50
12	93	*14	68	39	8.8	7.5	6.8	3.9	6.8	65	18	78
13	86	14	67	36	8.5	7.2	5.7	8.6	5.7	60	17	104
14	77	13	77	34	8.2	6.8	5.4	15	5.4	42	16	95
15	72	12	77	31	8.2	6.5	5.0	14	6.8	83	26	91
16	66	11	71	29	7.8	5.7	4.8	11	9.2	73	22	86
17	61	10	64	28	7.5	5.4	4.8	8.8	20	65	17	86
18	56	10	56	25	7.2	5.0	4.5	7.2	23	53	15	86
19	53	10	51	24	7.2	5.0	4.2	6.1	17	49	21	89
20	50	9.8	*47	23	6.8	7.8	3.9	9.5	14	*40	19	84
21	43	10	47	21	9.5	8.5	3.9	20	14	34	22	79
22	39	10	47	20	13	7.8	3.6	26	13	29	36	81
23	34	10	96	20	10	7.2	4.2	17	11	27	40	94
24	32	12	261	19	9.5	6.5	4.2	11	11	26	50	96
25	29	90	175	17	9.8	6.1	5.0	9.2	9.8	26	76	110
26	26	102	124	17	9.5	5.7	17	7.8	9.2	78	77	122
27	23	72	107	16	8.8	5.0	*20	7.5	9.5	97	80	145
28	23	58	104	14	8.5	4.8	15	7.2	8.8	93	179	138
29	23	50	93	13	-	4.8	11	6.8	8.2	89	300	148
30	21	44	86	13	-----	4.5	9.5	7.5	7.5	86	453	158
31	19	-----	61	12	-----	4.2	-----	8.2	-----	69	*284	-----
Total	3,104	739.8	2,604	1,070	259.8	212.5	224.1	295.8	308.4	1,620.3	2,111	3,125
Mean	100	24.7	84.0	34.5	9.28	6.85	7.47	9.54	10.3	52.3	68.1	104
Cfsm	2.86	0.706	2.40	0.986	0.256	0.196	0.213	0.273	0.294	1.49	1.95	2.97
In.	3.30	0.79	2.77	1.14	0.28	0.23	0.24	0.31	0.33	1.72	2.24	3.32

Calendar year 1953: Max 547 Min 1.4 Mean 55.0 Cfsm 1.57 In. 21.35
Water year 1953-54: Max 453 Min 3.6 Mean 42.9 Cfsm 1.23 In. 16.67

Peak discharge (base, 500 cfs)--No peak above base.

* Discharge measurement made on this day.

Note.--Tide effect for portion of each day Oct. 6-12, Dec. 7, July 27-30, Aug. 26, Sept. 1-8, 12-21, 23-30; discharge computed on basis of effective gage heights.

Alligator Creek at Safety Harbor, Fla.

Location.--Lat 27°58'40", long 82°41'45", in sec. 9, T. 29 S., R. 16 E., on right upstream wing wall of concrete control, 190 ft upstream from bridge on highway between Safety Harbor and State Highway 60 and 0.8 mile southwest of Safety Harbor.

Drainage area.--9.0 sq mi, approximately.

Records available.--October 1949 to September 1954.

Gage.--Water-stage recorder and concrete control. Datum of gage is 0.85 ft below mean sea level, datum of 1929.

Average discharge.--5 years, 6.62 cfs.

Extremes.--Maximum discharge during year, 79 cfs Nov. 26 (gage height, 7.26 ft); no flow on June 14.

1949-54: Maximum discharge, 490 cfs Sept. 6, 1950 (gage height, 9.00 ft); no flow for many days in most years.

Remarks.--Records fair. Some regulation at times from manual operation of gate valve in control.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

6.25	0	6.7	17
6.3	.5	6.8	25
6.4	2.7	7.2	69
6.5	6.2	7.5	128
6.6	11	8.0	248

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56	12	16	11	4.3	3.9	1.0	0.4	3.9	2.6	5.0	*30
2	49	12	11	9.8	3.2	3.0	.8	.6	3.2	5.8	3.9	18
3	42	11	8.8	12	3.0	3.9	1.0	.8	2.7	10	3.2	14
4	32	5.8	9.8	14	*3.2	5.4	1.0	2.7	2.2	14	2.7	11
5	24	4.6	34	16	2.7	6.2	1.0	3.0	2.4	11	1.9	8.4
6	18	6.6	56	12	2.4	7.9	1.3	2.4	1.9	8.4	1.4	7.0
7	14	6.2	47	12	2.7	5.1	2.4	2.2	1.7	6.2	1.2	5.0
8	12	7.9	32	9.3	4.6	4.3	2.7	1.9	1.2	6.6	2.4	4.3
9	14	5.4	21	11	4.6	4.6	2.2	1.2	.8	15	2.7	3.2
10	14	4.3	16	9.8	4.6	5.0	1.9	.8	.6	22	3.0	3.2
11	15	3.2	18	10	5.0	5.8	1.7	.6	.3	24	2.7	3.2
12	12	*3.0	16	9.3	3.6	4.3	1.4	.5	.2	22	2.2	8.8
13	11	2.7	11	12	3.0	3.0	1.2	5.2	.1	25	1.9	11
14	9.3	2.7	16	11	2.2	2.4	1.0	5.0	0	23	2.2	18
15	8.4	2.7	27	10	1.7	2.4	1.0	3.6	.6	23	2.7	34
16	7.5	2.7	*23	9.8	1.7	2.2	1.2	2.7	2.4	38	2.7	30
17	7.5	3.0	16	7.5	2.2	*2.2	1.4	2.2	3.0	54	2.7	18
18	7.0	3.2	11	7.0	2.7	2.2	1.0	1.2	3.9	42	2.4	11
19	6.6	3.6	7.9	6.6	3.0	3.0	1.0	.8	3.6	25	2.2	7.5
20	6.2	3.2	6.6	7.5	2.7	5.8	1.0	2.4	3.0	14	1.9	5.0
21	5.8	3.9	7.0	6.6	3.6	6.2	1.0	1.9	2.4	9.3	2.4	3.9
22	5.4	3.6	8.4	6.2	4.3	7.0	1.0	1.0	1.9	*6.6	2.7	4.6
23	5.0	3.6	19	6.2	5.8	6.2	1.2	.6	1.9	4.6	3.0	11
24	4.6	7.9	46	5.0	5.4	4.3	1.4	.4	2.2	3.9	4.6	22
25	3.9	49	57	4.3	5.8	3.0	1.2	.3	1.9	4.6	7.0	30
26	3.6	74	43	3.2	6.2	2.2	1.0	.2	1.7	5.8	8.4	32
27	4.3	62	30	3.6	7.9	1.9	.6	.3	1.4	6.6	7.5	34
28	5.8	44	20	4.6	5.8	1.7	.6	.3	1.4	7.0	5.4	43
29	8.4	27	15	5.4	-	1.4	.5	.4	1.2	8.4	9.4	32
30	9.3	17	13	5.0	-	1.2	.4	.5	1.0	8.4	26	18
31	11	-	12	5.4	-	1.2	-	.6	-	6.6	39	-
Total	432.6	396.7	674.5	263.1	107.9	119.9	36.1	46.7	54.7	463.4	166.4	481.1
Mean	14.0	13.2	21.8	8.49	3.85	3.87	1.20	1.51	1.82	14.9	5.37	16.0
Cfs/m	1.56	1.47	2.42	0.943	0.428	0.430	0.133	0.168	0.202	1.66	0.597	1.78
In.	1.79	1.64	2.79	1.09	0.45	0.50	0.15	0.19	0.23	1.91	0.69	1.99

Calendar year 1953: Max 265 Min 0 Mean 14.2 Cfs/m 1.58 In. 21.44
 Water year 1953-54: Max 74 Min 0 Mean 8.89 Cfs/m 0.988 In. 13.42

* Discharge measurement made on this day.

Seminole Lake Outlet near Largo, Fla.

Location.--Lat 27°50'20", long 82°46'50", in sec. 27, T. 30 S., R. 15 E., on south shore of Seminole Lake, 250 ft west of highway bridge across spillway channel and 5.2 miles south of Largo.

Drainage area.--14 sq mi, approximately.

Records available.--August 1950 to September 1954.

Gage.--Water-stage recorder and concrete control. Datum of gage is at mean sea level, datum of 1929 (Pinellas County benchmark).

Extremes.--Maximum discharge during year, 105 cfs at 12:01 a.m. Oct. 1, stage falling, peak occurred Sept. 27, 1953; maximum peak discharge during year, 93 cfs Nov. 26 (gage height, 5.71 ft); no flow for many days.
1950-54: Maximum discharge, 539 cfs Sept. 5, 1950 (gage height, 7.44 ft), from rating curve extended above 270 cfs; no flow for many days in each year.

Remarks.--Records fair. Greater part of inflow to Seminole Lake is regulated by pumps at north dam 3.0 miles above station. Pumpage at north dam represents natural flow of tributary above dam.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

5.0	0
5.1	3.7
5.3	22
5.4	36
5.8	111

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	1.9	34	22	2.2	3.2	0			0	15	*61
2	74	1.9	28	19	1.9	1.5	0			0	12	52
3	58	2.2	25	27	*1.1	1.5	0			0	11	40
4	45	1.9	29	27	1.5	1.5	0			2.9	9.0	30
5	36	2.2	70	22	1.1	a1.7	0			3.7	7.0	24
6	30	3.7	68	22	1.1	a2.2	0			4.3	6.0	22
7	27	2.7	67	19	.5	a1.2	0			4.3	4.3	19
8	23	2.2	52		2.7	.5	0 ⁻¹			12	7.0	16
9	28	1.9	41		1.9	.8	0		(*)	15	11	16
10	22	2.7	36	a1.9	1.1	.8	0			17	13	13
11	19	1.9	28		1.1	.5	0			26	11	11
12	17	1.1	22	19	2.2	.7	0			34	9.8	23
13	15	1.1	22	16	1.5	1.1	0			30	9.0	31
14	14	.5	36	13	.8	1.5	0			25	8.0	40
15	13	.2	28	13	1.5	1.9	0			24	7.0	36
16	11	.2	*23	12	1.1	.4	0			20	7.0	36
17	9.0	.2	22	14	1.5	*0	0			17	13	38
18	11	.2	18	12	1.1	0	0			14	13	32
19	9.8	.2	15	9.8	.8	.1	0			12	11	36
20	9.0	.2	12	8.0	.5	.8	0			9.0	9.0	45
21	7.0	.8	13	8.0	3.2	1.9	0			*7.0	12	36
22	6.0	.9	14	8.0	3.2	1.5	0			7.0	19	31
23	4.3	1.5	39	8.0	2.7	.8	0			6.0	20	32
24	3.7	5.2	67	5.0	3.2	1.1	0			4.3	17	28
25	3.2	72	65	4.3	3.7	.7	0			5.0	15	24
26	2.7	87	56	3.2	2.2	.8	0			7.0	13	21
27	2.7	78	43	3.2	2.7	.5	0			9.8	12	23
28	4.3	65	34	3.7	3.4	.5	*0			19	9.8	34
29	3.7	54	31	2.2	-	.1	0			27	25	36
30	2.7	41	27	1.5	-----	0	0			23	63	34
31	2.2	-----	27	1.9	-----	0	-----			20	67	-----
Total	608.3	434.5	1,089	399.8	51.5	29.8	0.1	0	0	405.3	465.9	922
Mean	19.6	14.5	35.1	12.9	1.84	0.96	0.003	0	0	13.1	15.0	30.7
Cfs/m	1.40	1.04	2.51	0.921	0.131	0.069	0.00021	0	0	0.936	1.07	2.19
In.	1.62	1.15	2.89	1.06	0.14	0.08	0.0003	0	0	1.08	1.24	2.45

Calendar year 1953: Max 261

Min 0

Mean 20.5

Cfs/m 1.46

In. 19.87

Water year 1953-54: Max 95

Min 0

Mean 12.1

Cfs/m 0.864

In. 11.71

* Discharge measurement or observation of no flow made on this day.

a No gage-height record; discharge estimated on basis of records for Alligator Creek near Safety Harbor.

LAKE TARPON BASIN

Brooker Creek near Odessa, Fla.

Location.--Lat 28°08'05", long 82°35'40", in sec. 10, T. 27 S., R. 17 E., on left bank 20 ft upstream from bridge on State Highway 232, 30 ft downstream from outlet of Keystone Lake, and 3.2 miles south of Odessa.

Drainage area.--10 sq mi, approximately.

Records available.--April 1946 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 30.00 ft above mean sea level, datum of 1929.

Average discharge.--8 years, 7.81 cfs.

Extremes.--Maximum discharge during year, 73 cfs Oct. 1 (gage height, 12.60 ft); no flow May 8-12, 25-31, June 10-14; minimum gage height, 9.90 ft May 12.
1946-54: Maximum discharge observed, 180 cfs Aug. 23, 1949 (gage height, 13.20 ft); no flow for many days; minimum gage height, 8.31 ft June 8, 1949.

Remarks.--Records fair above 5 cfs and poor below.

Revisions.--WSP 1204: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Apr. 16

Apr. 17 to Sept. 30

10.1	0.8	11.6	23	10.0	0	10.5	4.5
10.5	3.2	12.0	38	10.1	.6	11.0	15
10.7	4.9	12.3	53	10.3	2.1	11.9	38
11.1	9.1	12.6	73				
11.3	13						

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*71	9.6	8.8	21	5.6	2.5	1.0	0.7	0.2	0.7	7.3	7.9
2	71	9.1	8.7	20	5.4	2.4	1.0	.7	.2	1.4	7.5	*8.3
3	69	8.8	8.6	19	5.2	2.4	.9	.5	.2	1.4	7.1	8.5
4	65	8.4	9.1	18	5.0	2.3	1.0	.5	.2	1.4	6.9	8.7
5	61	8.8	11	17	*4.9	2.1	1.0	.4	.5	1.3	6.5	8.7
6	58	9.1	12	16	4.7	2.1	1.3	.2	.4	1.2	6.1	8.9
7	53	8.8	12	15	4.6	2.1	1.8	.1	.3	2.0	5.8	8.3
8	49	8.4	12	14	4.5	2.1	1.8	0	.2	3.4	6.0	7.9
9	47	8.1	13	13	4.4	2.1	1.8	0	.1	4.2	5.8	7.3
10	44	7.9	12	12	4.2	2.1	1.7	0	*0	4.4	5.6	6.9
11	41	*7.7	12	13	4.2	2.1	1.7	0	0	4.4	5.3	6.5
12	38	7.5	12	12	4.0	2.0	1.6	0	0	4.2	5.0	8.5
13	35	7.3	12	11	3.9	2.0	1.6	.3	0	4.2	4.8	9.3
14	33	7.1	14	11	3.7	2.0	1.6	.5	0	4.8	4.8	14
15	31	7.0	13	11	3.5	1.8	1.6	.4	.2	5.5	4.5	16
16	29	6.8	13	10	3.4	1.6	1.4	.2	.5	5.3	4.4	18
17	27	6.6	*13	10	3.4	1.5	1.2	.1	.5	5.3	4.1	19
18	26	6.5	12	9.4	3.3	*1.4	1.1	.1	.5	5.0	4.0	19
19	24	6.3	11	9.3	3.1	1.5	1.0	.1	.4	4.8	3.8	20
20	23	6.2	11	9.0	3.1	1.8	.9	.7	.5	*4.6	3.7	20
21	21	6.2	11	8.8	3.1	1.8	.7	.4	.7	4.4	3.8	19
22	19	6.1	11	8.6	3.1	1.7	.6	.3	.7	4.0	4.0	19
23	18	6.0	16	7.9	3.1	1.7	.6	.2	.7	3.8	4.0	20
24	16	6.4	19	7.5	3.0	1.6	.6	.1	.7	4.2	4.1	22
25	15	8.3	20	7.3	2.9	1.6	.8	0	.7	4.5	4.0	22
26	14	8.7	21	7.1	2.8	1.5	1.2	0	.6	5.0	4.0	23
27	13	8.8	22	6.9	2.8	1.4	1.2	0	.5	5.5	4.1	26
28	12	9.0	23	6.6	2.8	1.4	1.1	0	.5	5.8	4.1	31
29	12	9.0	23	6.4	-	1.3	1.0	0	.4	6.7	5.0	35
30	11	8.8	23	6.1	-----	1.2	.9	0	.2	6.9	5.8	37
31	10	-----	22	6.0	-----	1.2	-----	0	-----	6.9	6.5	-----
Total	1,056	233.3	441.2	349.9	107.7	56.3	35.6	6.5	10.6	127.2	158.4	485.7
Mean	34.1	7.75	14.2	11.3	3.85	1.82	1.19	0.21	0.35	4.10	5.11	16.2
Cfs/m	3.41	0.778	1.42	1.13	0.385	0.182	0.119	0.021	0.035	0.410	0.511	1.62
In.	3.93	0.87	1.64	1.30	0.40	0.21	0.13	0.02	0.04	0.47	0.59	1.81
Calendar year 1953: Max	71				Min 0		Mean 11.5	Cfs/m 1.15	In. 15.61			
Water year 1953-54: Max	71				Min 0		Mean 8.41	Cfs/m 0.841	In. 11.41			

* Discharge measurement or observation of no flow made on this day.

Brooker Creek near Tarpon Springs, Fla.

Location.--Lat 28°05'45", long 82°41'15", in sec. 27, T. 27 S., R. 16 E., on right bank 80 ft downstream from bridge on private road, 1.8 miles upstream from Lake Tarpon, and 5 miles southeast of Tarpon Springs.

Drainage area.--30 sq mi, approximately.

Records available.--August 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 237 cfs at 12:01 a.m. Oct 1 (gage height, 11.64 ft, stage falling; peak occurred Sept. 27, 28, 1953); maximum peak discharge, 142 cfs Dec. 24 (gage height, 11.32 ft); no flow on several days in May.
1950-54: Maximum discharge, 1,080 cfs Sept. 6, 1950 (gage height, 12.80 ft); no flow at times each year.

Remarks.--Records good except those for period of no gage-height record, which are fair.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

7.43	0	9.0	10
7.5	.1	9.5	20
7.6	.2	10.0	35
7.7	.4	10.5	58
7.8	.6	11.0	92
8.0	1.4	11.3	136
8.3	3.0	11.5	187
8.7	6.4	11.7	266

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*222	22	38	57	14	10	2.0	0.1	0.1	2.7	26	*48
2	190	20	34	52	13	9.4	1.8	.1	.1	3.7	22	57
3	179	19	31	50	12	9.1	1.5	0	.1	6.1	18	66
4	168	18	34	47	*12	8.7	1.5	.1	a.1	7.6	16	68
5	158	19	67	45	11	7.7	1.8	0	a.7	11	13	68
6	142	22	79	42	10	7.3	1.5	0	a.7	15	11	57
7	125	23	75	40	9.7	7.5	1.7	0	a.6	17	9.5	45
8	111	24	69	37	10	7.1	2.2	0	a.8	22	9.5	35
9	105	23	64	35	9.7	7.2	3.0	0	*a.6	32	9.3	28
10	100	22	58	34	9.4	7.1	3.6	0	.5	58	12	22
11	91	22	52	35	9.4	6.8	3.9	0	.4	82	14	18
12	82	*20	46	37	9.1	6.6	3.8	0	.2	100	14	18
13	76	20	44	39	8.6	6.2	3.5	.1	.2	98	13	22
14	70	18	56	40	8.2	5.9	3.2	0	.5	82	12	31
15	66	17	61	38	7.9	5.4	2.9	0	.6	67	11	31
16	60	15	59	36	7.4	4.6	2.4	0	.9	54	11	31
17	55	14	*54	35	7.1	4.0	2.1	0	.7	43	17	31
18	52	13	52	32	6.6	*3.6	1.6	0	.8	35	16	30
19	50	12	47	31	6.1	3.7	1.3	0	1.2	31	18	29
20	46	11	44	29	5.8	4.8	1.1	.1	1.9	26	17	29
21	43	11	42	28	7.9	5.0	.9	0	4.7	20	23	28
22	40	11	41	26	7.9	5.0	.7	0	6.8	*16	35	28
23	36	11	88	24	8.5	5.1	.6	0	7.1	14	40	29
24	33	13	138	23	9.8	5.1	.6	0	8.2	13	35	31
25	31	31	130	21	11	4.8	.5	0	7.4	12	30	53
26	29	53	113	20	11	4.3	.5	0	6.6	11	25	62
27	27	57	98	19	11	3.8	.4	0	5.8	11	22	54
28	26	53	86	18	11	3.5	*.3	0	4.8	14	18	45
29	24	47	76	16	-	3.2	.3	0	3.8	22	40	38
30	23	42	70	15	-----	2.8	.2	0	3.1	28	62	34
31	22	-----	64	14	-----	2.4	-----	.1	-----	27	58	-----
Total	2,482	703	2,010	1,015	265.1	177.7	51.4	0.6	69.8	981.1	677.3	1,166
Mean	80.1	23.4	64.8	32.7	9.47	5.73	1.71	0.02	2.33	31.6	21.8	38.9
Cfsm	2.67	0.780	2.16	1.09	0.316	0.191	0.057	0.00067	0.078	1.05	0.727	1.30
In.	3.08	0.87	2.49	1.26	0.33	0.22	0.06	0.0007	0.09	1.22	0.84	1.45
Calendar year 1953: Max	261			Min 0		Mean	44.8	Cfsm	1.49	In.	20.29	
Water year 1953-54: Max	222			Min 0		Mean	26.3	Cfsm	0.677	In.	11.91	

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and records for Brooker Creek near Odessa.

Anclote River near Elfers, Fla.

Location.--Lat 28°12'50", long 82°40'00", in sec. 23, T. 26 S., R. 16 E., on left bank 40 ft downstream from bridge on State Highway 54 and 3½ miles southeast of Elfers.

Drainage area.--67 sq mi, approximately.

Records available.--May 1946 to September 1954.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929.

Average discharge.--8 years, 80.4 cfs.

Extremes.--Maximum discharge during year, 699 cfs Dec. 25 (gage height, 17.50 ft); minimum, 4.3 cfs May 27, 28, 29, 30 (gage height, 7.73 ft).

1946-54: Maximum discharge, 3,500 cfs Sept. 6, 1950 (gage height, 26.02 ft); minimum, 2.2 cfs Mar. 20, 21, 1953.

Flood of Aug. 8 or 9, 1945, reached a stage of 27.7 ft from information by local residents and high-water marks (discharge, 5,000 cfs, from rating curve extended above 3,200 cfs).

Remarks.--Records fair except those for Oct. 1 to Dec. 20, Dec. 26 to Jan. 26, and May 17-23, which are poor.

Revisions.--WSP 1204: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Nov. 30		Dec. 1 to Sept. 30	
8.2	20	7.7	3.8
9.0	55	7.9	7.6
10.0	106	8.0	10
12.0	258	9.0	47
16.0	578		18.0
			744

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*532	33	116	176	24	15	8.8	5.9	30	13	143	94
2	476	31	96	149	22	14	7.9	18	16	40	102	89
3	428	30	78	136	22	13	7.4	10	12	65	53	66
4	394	31	67	124	*20	12	7.6	10	9.0	47	62	52
5	356	38	183	113	19	11	16	12	12	30	49	44
6	313	41	295	101	17	10	15	12	21	26	39	40
7	272	42	329	88	16	12	14	9.0	30	50	34	34
8	233	40	316	74	16	11	12	7.0	30	90	47	28
9	213	38	266	68	16	11	10	5.7	23	128	39	23
10	206	37	218	72	16	12	10	5.0	*16	132	37	19
11	172	*36	182	73	16	11	9.6	4.6	11	107	33	16
12	152	35	152	72	15	10	9.0	4.8	8.2	123	28	29
13	141	34	146	70	14	9.6	8.2	5.0	6.8	138	23	36
14	126	33	180	69	13	9.3	7.6	12	5.9	85	20	51
15	111	31	252	65	13	8.5	7.6	22	5.7	126	22	82
16	96	28	246	62	12	7.9	7.6	19	17	187	19	150
17	82	27	*198	56	11	7.4	7.2	a16	22	187	15	160
18	77	25	167	49	10	*7.2	6.8	a14	26	138	13	137
19	74	24	139	47	9.9	7.6	6.3	a12	23	78	16	116
20	73	23	117	47	9.6	19	5.9	a9.0	19	*54	29	102
21	68	23	110	45	13	32	5.7	6.8	22	43	33	99
22	58	24	105	43	15	30	5.5	5.9	18	33	34	93
23	53	25	317	41	15	27	5.7	a5.3	18	28	34	86
24	48	28	590	39	15	23	5.9	5.0	24	27	33	89
25	42	117	691	36	18	19	6.3	4.6	22	34	33	101
26	40	214	602	34	17	16	7.2	4.4	15	53	31	128
27	40	243	397	33	16	14	6.8	4.4	13	83	31	171
28	40	209	306	30	15	12	*6.3	4.3	12	194	31	255
29	40	172	274	29	-	11	5.7	4.4	9.3	247	34	319
30	39	143	240	27	-----	10	5.3	4.8	7.6	259	50	281
31	36	-----	209	25	-----	9.3	-----	20	-----	203	79	-----
Total	5,030	1,855	7,584	3,093	435.5	421.8	244.9	282.7	504.5	3,048	1,246	2,990
Mean	162	61.8	245	67.5	15.6	13.6	8.16	9.12	16.8	98.3	40.2	99.7
Cfsm	2.42	0.922	3.66	1.01	0.233	0.203	0.122	0.136	0.251	1.47	0.600	1.49
In.	2.79	1.03	4.21	1.16	0.24	0.23	0.14	0.16	0.28	1.69	0.69	1.66
Calendar year 1953: Max	2,200			Min 2.3		Mean 137		Cfsm 2.04		In. 27.68		
Water year 1953-54: Max	691			Min 4.3		Mean 70.5		Cfsm 1.05		In. 14.28		

Peak discharge (base, 700 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and records for nearby stations.

Note.--Discharge for periods Oct. 1 to Dec. 20, Dec. 26 to Jan. 26 computed from reconstructed graph based on once-daily gage readings and recorder chart.

WeekiwaChee Spring near Brooksville, Fla.

Location.--Lat 28°31', long 82°34', in sec. 2, T. 23 S., R. 17 E., on northeast side of pool at spring at head of WeekiwaChee River, 12 miles southwest of Brooksville.

Records available.--1917, 1929-30 (one discharge measurement in each year), February 1931 to September 1954 (discharge measurements only).

Gage.--Staff gage read only when discharge measurements are made.

Extremes.--1931-54: Maximum discharge measured, 256 cfs Sept. 25, 1950; minimum measured, 106 cfs Feb. 14, 1933.

Remarks.--Discharge measurements made three-quarters of a mile downstream from head of Spring.

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Oct. 27.....	242	May 14.....	196
Nov. 30.....	255	June 17.....	184
Jan. 5.....	237	Aug. 5.....	194
Feb. 19.....	207	Sept. 21.....	185
Apr. 2.....	205		

WITHLACOOChEE RIVER BASIN

WithlacooChee River at Trilby, Fla.

Location.--Lat 28°29', long 82°11', on line between secs. 14 and 23, T. 23 S., R. 21 E., on right bank at downstream side of bridge on U. S. Highway 301, 1½ miles northeast of Trilby, and 10 miles upstream from Little WithlacooChee River.

Drainage area.--650 sq mi, approximately.

Records available.--August 1928 to February 1929, February 1930 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 49.27 ft above mean sea level (Corps of Engineers benchmark). Prior to Oct. 1, 1938, staff gage at site 1½ miles downstream at datum 0.12 ft lower.

Average discharge.--24 years (1930-54), 375 cfs.

Extremes.--Maximum discharge during year, 2,320 cfs Oct. 3, 4, occurred on recession

following peak of Sept. 19, 1953; maximum independent peak discharge, 1,460 cfs

Dec. 25 (gage height, 11.08 ft); minimum discharge, 58 cfs about July 2 (gage height,

2.33 ft, from recorded range in stage).

1928-29, 1930-54: Maximum discharge, 8,840 cfs June 21, 1934 (gage height, 20.5 ft, site and datum then in use); minimum, 8.6 cfs June 9-17, 1945 (gage height, 1.12 ft).

Remarks.--Records good except those for periods of no gage-height record, which are poor.

Revisions.--WSP 1234: Drainage area.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,270	781	461	1,330	403	210	*115	120	76		382	179
2	2,300	735	471	1,320	387	205	105	119	82		431	159
3	2,320	691	487	1,300	371	202	108	116	95	60	485	142
4	2,320	648	518	1,280	359	201	105	115	110		553	132
5	2,310	616	615	1,240	346	199	94	111	120		*626	133
6	2,270	598	740	*1,200	332	197	93	108	122		689	122
7	2,220	575	821	1,180	321	196	103	104	117		724	113
8	2,160	551	858	1,100	315	191	115	101	103	65	759	106
9	2,110	526	886	1,040	308	184	127	96	88		803	96
10	2,050	504	913	983	298	183	135	96	93		819	89
11	2,000	489	942	945	291	176	138	95	110		803	96
12	1,930	473	973	906	286	172	136	97	145		762	95
13	1,870	456	1,010	865	278	171	134	114	180	65	704	93
14	1,800	438	1,080	825	272	168	130	*118	220		650	91
15	1,730	421	1,140	790	264	154	130	110	270		613	90
16	1,680	404	1,160	757	258	150	132	105	290		575	*89
17	1,620	386	1,160	724	253	156	133	103	*308	72	540	93
18	1,570	370	1,140	689	*246	152	132	99			507	98
19	1,530	358	1,120	656	240	152	130	96	260	86	470	94
20	1,480	346	1,090	630	236	178	128	93		111	440	88
21	1,430	338	1,080	607	233	186	129	91		128	410	82
22	1,370	332	1,060	582	228	171	130	89		135	380	79
23	1,300	339	1,170	567	223	167	128	87	160		338	78
24	1,240	349	1,360	548	221	167	122	87		139	330	76
25	1,170	418	1,460	528	223	162	117	87		140	310	75
26	*1,100	457	1,450	507	219	162	113	86		156	290	73
27	1,020	474	1,420	488	214	159	109	85		177	270	72
28	970	468	1,380	467	211	146	112	81	80	246	250	70
29	930	461	1,360	450		131	116	77		254	230	69
30	885	*459	1,350	432		122	120	75		281	219	67
31	830		1,350	418		122		74		330	199	
Total	51,783	14,461	32,025	25,338	7,836	5,292	3,619	3,036	4,509	3,487	15,583	2,939
Mean	1,670	482	1,033	817	280	171	121	97.9	150	112	503	98.0
Cfs/m	2.57	0.742	1.59	1.26	0.431	0.263	0.186	0.151	0.231	0.172	0.774	0.151
In.	2.96	0.83	1.83	1.45	0.45	0.30	0.21	0.17	0.26	0.20	0.89	0.17

Calendar year 1953: Max 2,420 Min 70 Mean 732 Cfs/m 1.13 In. 15.28
Water year 1953-54: Max 2,320 Min - Mean 466 Cfs/m 0.717 In. 9.72

* Discharge measurement made on this day.

Note.--No gage-height record Apr. 8 to May 8, May 18 to June 16, June 18 to July 18, July 23, 26, Aug. 19-29, Sept. 6-15; discharge estimated on basis of recorded range in stage and records for station at Croom.

Withlacoochee River at Croom, Fla.

Location.--Lat 28°36', long 82°13', in sec. 8, T. 22 S., R. 21 E., on left bank at upstream side of highway bridge at Croom, 2 miles downstream from Little Withlacoochee River.

Drainage area.--900 sq mi, approximately.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 38.94 ft above mean sea level (Corps of Engineers benchmark). Prior to Feb. 2, 1940, staff gage at railroad bridge 500 ft upstream at same datum.

Average discharge.--15 years, 503 cfs.

Extremes.--Maximum discharge during year, 3,400 cfs Oct. 3, occurred on recession following peak of Sept. 22, 23, 1953; maximum independent peak discharge, 1,820 cfs Dec. 28 (gage height, 8.53 ft); minimum discharge, 123 cfs Sept. 30; minimum gage height, 3.21 ft July 7, 8.

1939-54: Maximum discharge, 8,450 cfs Sept. 12, 1950 (gage height, 12.71 ft); minimum, 19 cfs June 17, 18, 1945 (gage height, 1.78 ft).

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Sept. 2				Sept. 3-30	
3.2	124	7.0	907	3.4	115
4.0	200	8.0	1,440	4.0	190
5.0	359	9.0	2,230	5.0	359
6.0	599	10.0	3,400		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,330	1,140	749	1,720	648	348	*212	188	137	137	485	302
2	3,360	1,090	749	1,690	630	338	205	186	130	132	522	280
3	3,370	1,040	758	1,660	615	330	197	182	129	128	542	256
4	3,370	988	780	1,640	594	324	193	181	137	134	568	237
5	3,330	951	856	*1,590	578	318	190	179	146	133	*607	222
6	3,250	912	956	1,560	560	316	184	177	150	128	648	214
7	3,140	877	1,080	1,510	544	316	181	173	149	126	707	206
8	3,040	849	1,160	1,450	534	313	194	167	145	127	761	194
9	2,940	826	1,200	1,390	524	305	202	162	141	132	786	184
10	2,810	799	1,220	1,340	512	298	206	158	142	135	819	175
11	2,670	780	1,230	1,300	502	293	207	155	153	138	837	170
12	2,560	758	1,250	1,250	490	285	207	154	172	145	837	173
13	2,450	741	1,270	1,210	480	280	202	164	210	142	809	168
14	2,350	721	1,320	1,170	468	277	198	180	224	137	795	165
15	2,240	704	1,350	1,120	456	269	197	177	254	134	786	163
16	2,140	685	1,390	1,080	444	255	199	169	275	134	746	*161
17	2,050	664	1,400	1,040	433	251	199	*163	*290	136	710	159
18	1,980	646	1,390	999	424	249	198	158	297	138	688	158
19	1,900	630	1,380	961	*410	251	194	154	295	136	669	156
20	1,840	612	1,370	922	401	264	198	152	286	140	630	152
21	1,780	594	1,360	886	394	275	185	151	267	151	594	145
22	1,710	581	1,340	860	388	280	189	148	242	158	565	139
23	1,650	578	1,450	834	381	272	191	146	217	166	540	137
24	1,580	589	1,530	809	372	264	193	144	194	175	517	137
25	1,520	669	1,660	786	370	261	192	142	184	175	497	138
26	*1,450	715	1,740	767	363	256	187	140	175	188	483	137
27	1,380	749	1,800	746	359	255	179	140	163	225	456	134
28	1,330	767	1,820	724	351	249	170	140	154	275	424	132
29	1,280	767	1,810	704	-	241	167	141	144	313	396	128
30	1,230	*758	1,780	685	-----	228	173	141	139	372	366	124
31	1,180	-----	1,750	664	-----	217	-----	140	-----	438	352	-----
Total	70,210	23,180	40,898	35,067	13,225	8,678	5,779	4,952	5,741	5,328	19,122	5,246
Mean	2,265	773	1,319	1,131	472	280	193	160	191	172	617	175
Cfsm	2.52	0.859	1.47	1.26	0.524	0.311	0.214	0.178	0.212	0.191	0.686	0.194
In.	2.90	0.96	1.69	1.45	0.55	0.36	0.24	0.20	0.24	0.22	0.79	0.22

Calendar year 1953: Max	3,560	Min	143	Mean	954	Cfsm	1.06	In.	14.39
Water year 1953-54: Max	3,370	Min	124	Mean	650	Cfsm	0.722	In.	9.82

* Discharge measurement made on this day.

WITHLACOCHEE RIVER BASIN

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Withlacoochee River near Holder, Fla.

Location.--Lat 28°59'15", long 82°20'50", in sec. 19, T. 17 S., R. 20 E., on right bank

100 ft downstream from bridge on State Highway 200 and 4½ miles northeast of Holder.

Drainage area.--1,710 sq mi, approximately.

Records available.--August 1928 to February 1929, August 1931 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 27.52 ft above mean sea level (levels by Corps of Engineers). Aug. 14, 1928, to Feb. 15, 1929, staff gage at bridge 100 ft upstream at datum 2.00 ft higher.

Average discharge.--23 years (1931-54), 1,134 cfs.

Extremes.--Maximum discharge during year, 5,050 cfs Oct. 9 (gage height, 10.46 ft); minimum, 474 cfs July 23 (gage height, 0.72 ft).

1928-29, 1931-54: Maximum discharge, 6,740 cfs July 8-13, 1934; maximum gage height, 11.63 ft July 9, 10, 1934; minimum discharge, 144 cfs Feb. 1, 1933; minimum gage height, -0.41 ft June 19, 1945.

Remarks.--Records good except those for period of no gage-height record, which are fair. Records of chemical analyses and water temperatures for the water year 1954 are given in WSP 1350.

Revisions.--WSP 1234: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Mar. 19 to June 11, Sept. 29, 30)

0.7	470	7.0	2,350
1.0	524	9.0	3,700
4.0	1,220	10.5	5,090

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,870	3,560	*2,100	3,200	2,120	1,420	960	679	670	526	600	a880
2	4,920	3,470	2,080	3,190	2,080	1,410	*938	677	618	517	600	a860
3	4,950	3,380	2,060	3,200	2,030	1,380	910	673	565	513	602	a850
4	4,960	3,290	2,090	*3,200	1,990	1,350	878	700	567	529	626	a830
5	4,970	3,240	2,240	3,200	1,940	1,320	860	708	582	528	652	a810
6	4,990	3,180	2,260	3,200	1,910	1,290	875	698	567	557	*652	a800
7	5,000	3,120	2,280	3,190	1,870	1,270	885	681	550	570	694	a780
8	5,000	3,070	2,280	3,160	1,850	1,240	858	654	540	582	790	a760
9	5,040	2,990	2,260	3,140	1,820	1,230	842	640	533	622	770	a750
10	5,020	2,940	2,260	3,120	1,790	1,220	848	632	515	668	792	a730
11	5,010	2,910	2,230	3,110	1,770	1,200	826	626	511	652	838	a710
12	4,980	2,840	2,220	3,090	1,740	1,190	806	626	510	640	860	a690
13	*4,950	2,780	2,240	3,060	1,710	1,180	790	662	508	620	880	a670
14	4,890	2,700	2,290	*3,010	1,670	1,160	775	668	510	598	898	a660
15	4,840	2,630	2,300	2,980	1,640	1,140	768	668	535	588	910	a640
16	4,770	2,570	2,320	2,940	1,610	1,110	763	662	559	574	930	a620
17	4,720	2,500	2,320	2,900	1,580	1,080	768	*662	*567	557	948	*600
18	4,640	2,440	2,310	2,850	1,540	1,060	754	666	576	546	968	a580
19	4,550	2,370	2,310	2,810	1,490	1,070	734	666	578	529	982	570
20	4,480	2,300	2,300	2,770	1,460	1,140	712	668	586	511	978	550
21	4,400	2,280	2,310	2,720	1,450	1,160	698	654	598	493	965	542
22	4,310	2,230	2,320	2,680	1,430	1,150	683	620	596	481	958	528
23	4,240	2,200	2,650	2,620	*1,410	1,130	668	592	592	497	970	524
24	4,140	2,170	2,900	2,560	1,410	1,110	673	567	598	529	985	524
25	4,060	2,200	3,030	2,500	1,400	1,090	685	540	592	561	970	531
26	3,970	2,200	3,100	2,440	1,380	1,080	692	537	598	553	965	555
27	3,890	2,190	3,150	2,380	1,350	1,040	687	555	580	614	a950	559
28	3,850	2,180	3,170	2,320	1,370	1,030	677	584	572	634	a950	602
29	3,810	2,160	3,180	2,260	-	1,020	656	600	559	626	a920	618
30	3,720	2,120	3,200	2,210	-----	998	648	636	542	616	a910	608
31	3,640	-----	3,200	2,160	-----	978	-----	700	-----	604	a890	-----
Total	141,580	80,210	76,960	88,150	46,820	36,226	23,317	19,901	16,964	17,635	26,383	19,946
Mean	4,567	2,674	2,486	2,844	1,672	1,169	777	642	565	569	851	665
Cfs/m	2.67	1.56	1.45	1.66	0.978	0.684	0.454	0.375	0.330	0.333	0.498	0.389
In.	3.08	1.74	1.67	1.92	1.02	0.79	0.51	0.45	0.37	0.38	0.57	0.43

Calendar year 1953: Max 5,040 Min 576 Mean 1,689 Cfs/m 0.988 In. 13.41
Water year 1953-54: Max 5,040 Min 481 Mean 1,628 Cfs/m 0.952 In. 12.91

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for station at Croom.

Rainbow Springs near Dunnellon, Fla.

Location.--Lat 29°06'05", long 82°26'10", in sec. 12, T. 16 S., R. 18 E., at head of springs, 4 miles northeast of Dunnellon.

Records available.--1907, 1917, 1929-30 (one discharge measurement in each year), February 1931 to September 1954 (discharge measurements only). Prior to October 1940, published as Blue Springs near Dunnellon.

Gage.--Staff gage read only when discharge measurements are made. Datum of gage is 28.34 ft above mean sea level (levels by Corps of Engineers). Prior to Nov. 19, 1948, at datum 1.63 ft higher.

Extremes.--1931-54: Maximum discharge measured, 1,020 cfs Sept. 28, 1950, minimum measured, 487 cfs Oct. 3, 1932.

Remarks.--Discharge measurements made at bridge on State Highway 484, 5 miles downstream from springs. Surface inflow between springs and measuring section is negligible except after heavy rains.

Discharge measurements, in cubic feet per second, water year
October 1953 to September 1954

Oct. 27.....	885	May 18.....	719
Nov. 23.....	876	June 18.....	710
Jan. 4.....	835	Aug. 9.....	830
Feb. 23.....	840	Sept. 17.....	690
Apr. 5.....	789		

Suwannee River at Fargo, Ga.

Location.--Lat 30°41', long 82°34', on downstream side of right bank bridge pier on U. S. Highway 441 at Fargo, Clinch County, 4 miles upstream from Suwanoochee Creek and 12 miles downstream from Mixons Ferry Dam site.

Drainage area.--About 1,260 sq mi (includes part of watershed in Okefenokee Swamp which is indeterminate).

Records available.--January 1921 to September 1923 (gage heights only), January 1927 to December 1931, April 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 91.90 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Jan. 27, 1921, to Sept. 30, 1923, staff gage at site 1,200 ft upstream at datum 3.00 ft higher. Jan. 27, 1927, to Dec. 31, 1931, and Apr. 20, 1937, to June 10, 1938, staff gage at site 1,000 ft upstream at datum 1.00 ft higher. June 11, 1938, to Nov. 26, 1952, staff gage at site 1,000 ft upstream at present datum.

Average discharge.--21 years (1927-31, 1937-54), 1,128 cfs.

Extremes.--Maximum discharge during year, 5,640 cfs Oct. 5-7 (gage height, 14.6 ft); no flow Sept. 4-16.
1921-23, 1927-31, 1937-54: Maximum discharge, 12,700 cfs Oct. 3, 1929; maximum gage height, 19.6 ft Oct. 3, 1929, present datum, Oct. 28, 29, 1947; no flow at times in 1931, 1943, 1954.

Remarks.--Records fair prior to June 25, poor thereafter.

Revisions.--WSP 1234: Drainage area.

Correction.--The maximum discharge (4,000 cfs) for the 1953 water year, published in WSP 1274, occurred on a rising stage at 12 p.m. Sept. 30, and was not the peak for that flood; maximum peak discharge during 1953 water year 3,280 cfs Sept. 2-4, 1953 (gage height, 11.8 ft).

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,320	1,050	369	3,040	785	358	200	206	37	*3.2	0.4	0.2
2	4,920	960	358	3,040	745	346	188	200	32	2.7	*.4	*.1
3	5,280	*880	346	3,040	725	333	176	194	27	2.4	.3	*.1
4	5,550	810	358	2,960	685	320	170	188	26	2.5	.2	0
5	*5,640	745	404	2,880	650	*307	158	176	27	3.1	.2	0
6	5,640	745	428	2,800	615	294	164	164	26	3.2	.2	0
7	*5,640	705	502	2,720	585	288	*164	142	23	2.8	.1	0
8	5,460	665	528	2,550	600	281	158	126	20	2.6	*.1	*0
9	5,370	630	542	2,460	600	268	146	112	18	2.9	*.1	0
10	5,190	600	556	2,280	585	255	142	100	18	5.0	.1	0
11	5,010	585	*556	2,120	570	255	136	89	20	4.7	.2	0
12	4,740	570	542	2,040	556	248	134	79	16	*3.3	.2	0
13	4,560	556	542	2,040	542	242	129	74	13	2.4	.2	0
14	4,320	528	685	1,970	528	236	122	85	10	1.8	.1	0
15	4,160	515	765	1,830	515	242	116	86	8.4	1.5	.1	0
16	3,920	489	830	1,770	502	242	109	74	*7.1	1.2	*.1	0
17	3,680	464	880	1,710	489	230	100	65	6.1	.9	.1	.7
18	3,440	452	935	1,550	464	224	95	56	5.3	.7	.1	1.1
19	3,200	428	960	1,500	452	224	90	52	5.2	.5	.1	.9
20	3,040	416	960	1,370	440	281	85	55	4.9	*.4	.1	.5
21	2,800	392	960	*1,290	416	320	80	58	5.0	.4	.1	.3
22	2,640	380	990	1,220	416	294	80	50	5.0	.4	.1	.4
23	2,460	380	1,080	1,180	404	281	95	44	*4.3	.5	.1	.5
24	2,280	369	1,260	1,150	380	268	127	38	4.6	.4	.1	.5
25	2,120	392	1,710	1,080	380	262	164	36	4.7	.6	.1	.5
26	1,970	416	2,120	1,050	380	248	200	31	4.1	1.6	.4	.6
27	1,770	416	2,550	990	369	236	*200	*30	3.9	1.6	.3	1.2
28	1,650	392	2,720	960	358	224	212	36	3.6	1.1	.4	2.1
29	1,500	380	2,800	905	-	218	218	46	3.5	.8	*.5	2.0
30	1,350	369	2,680	855	-----	206	272	47	3.3	.6	*.4	1.2
31	1,180	-----	2,960	830	-----	200	-----	44	-----	.5	.3	-----
Total	114,780	16,679	34,076	57,180	14,736	8,231	4,370	2,783	392.0	56.3	6.2	12.9
Mean	3,703	556	1,099	1,845	526	266	146	89.8	13.1	1.82	0.200	0.430
Cfs/m	2.94	0.441	0.872	1.46	0.417	0.211	0.116	0.071	0.010	0.0014	0.00016	0.00034
In.	3.39	0.49	1.01	1.68	0.43	0.24	0.13	0.08	0.01	0.002	0.0002	0.0004
Calendar year 1953: Max	5,640				Min 18		Mean 930		Cfs/m 0.738	In. 10.02		
Water year 1953-54: Max	5,640				Min 0		Mean 694		Cfs/m 0.551	In. 7.46		

* Discharge measurement or observation of no flow made on this day.

Note.--No gage-height record Apr. 17-24, June 26 to Sept. 30; discharge estimated on basis of 11 discharge measurements, observer's notes, weather records, and records for station at White Springs, Fla.

Suwannee River at White Springs, Fla.

Location.--Lat 30°20', long 82°44', in sec. 8, T. 2 S., R. 16 E., on left bank at downstream side of bridge on U. S. Highway 41, 1 mile southeast of White Springs.

Drainage area.--1,990 sq mi (includes part of watershed in Okefenokee Swamp which is indeterminate).

Records available.--May 1906 to December 1908, February 1927 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 48.54 ft above mean sea level (Corps of Engineers benchmark). May 28, 1906, to Dec. 31, 1908, chain gage and Feb. 8, 1927, to July 31, 1932, staff gage, at site 1 mile downstream at same datum.

Average discharge.--29 years, 1,767 cfs.

Extremes.--Maximum discharge during year, 10,100 cfs Oct. 8-11; maximum gage height, 28.36 ft Oct. 9; minimum, 8.3 cfs Sept. 10, 11 (gage height, 1.07 ft).
1906-8, 1927-54: Maximum discharge, 28,500 cfs Apr. 5, 6, 1948; maximum gage height, 36.65 ft Apr. 5, 1948; minimum discharge, 4.8 cfs Nov. 15, 1931; minimum gage height, 1.07 ft Sept. 10, 11, 1954.

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

Revisions.--WSP 727: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1-20		Oct. 21 to Sept. 30			
20.7	6,300	1.0	5.5	2.5	131
25.7	7,250	1.1	9.5	3.0	215
26.0	8,670	1.2	15	4.0	429
28.4	10,200	1.5	33	7.0	1,350
		2.0	71	19.5	5,840

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,730	g1,650	565	5,540	1,430	576	294	258	58	25	32	13
2	8,380	a1,500	548	5,440	1,360	551	275	255	56	20	29	13
3	8,610	a1,400	530	5,330	1,290	535	261	247	52	17	26	12
4	8,890	a1,400	631	5,230	1,230	513	245	240	51	18	25	12
5	9,170	a1,400	1,080	5,110	1,170	492	232	*232	48	52	23	11
6	9,520	a1,500	1,120	4,980	1,110	481	221	223	44	66	20	11
7	*9,810	a1,200	1,640	4,820	1,050	473	215	210	41	48	19	11
8	10,000	g1,150	1,670	*4,650	1,160	458	245	190	40	34	30	9.5
9	10,100	a1,100	1,370	4,440	1,210	442	228	189	39	40	35	9.1
10	10,100	a1,050	1,480	4,230	*1,160	429	206	149	37	80	28	8.7
11	9,980	a1,000	1,400	4,080	1,100	412	193	131	38	58	23	18
12	9,760	a950	1,350	3,930	1,050	394	183	120	37	41	20	36
13	9,430	a910	1,380	3,740	994	380	176	117	38	34	17	30
14	9,040	a870	2,250	3,550	951	375	169	110	34	32	16	22
15	8,640	g835	2,580	3,360	917	364	159	99	31	29	15	23
16	8,210	*g800	2,420	3,220	887	357	156	104	*28	28	15	31
17	7,770	g755	2,280	3,060	857	353	146	100	25	26	14	73
18	7,280	g719	2,190	2,880	821	335	132	91	24	28	13	77
19	6,810	g680	2,120	2,730	785	344	130	85	24	27	12	49
20	6,320	g645	2,060	2,580	749	503	124	91	23	23	11	*34
21	5,830	g613	2,010	2,430	719	511	124	81	23	20	12	28
22	5,330	g590	1,970	2,290	686	511	120	76	20	18	11	64
23	4,800	570	2,090	2,200	657	491	128	74	19	19	13	81
24	4,220	552	2,300	2,100	642	*445	159	67	18	19	16	85
25	3,690	660	2,770	1,990	642	414	184	62	18	22	16	69
26	3,230	683	4,070	1,900	625	392	192	58	21	28	14	92
27	2,840	677	4,490	1,820	610	373	240	56	23	a40	13	61
28	2,520	654	4,540	1,740	593	357	253	55	22	*44	12	80
29	a2,200	616	4,600	1,650	339	257	257	54	26	40	12	58
30	a2,000	584	5,020	1,570	322	262	262	53	31	37	12	45
31	a1,800	-----	5,460	1,490	-----	307	-----	57	-----	34	13	-----
Total	214,010	27,518	70,184	104,100	26,465	13,219	5,910	3,915	989	1,047	567	1,166.3
Mean	6,904	917	2,264	3,358	945	426	197	126	33.0	33.8	18.3	38.9
Cfsm	3.47	0.461	1.14	1.69	0.475	0.214	0.099	0.063	0.017	0.017	0.009	0.020
In.	4.00	0.51	1.31	1.95	0.49	0.25	0.11	0.07	0.02	0.02	0.01	0.02

Calendar year 1953: Max 10,100 Min 47 Mean 1,765 Cfsm 0.887 In. 12.04
Water year 1953-54: Max 10,100 Min 8.7 Mean 1,285 Cfsm 0.646 In. 8.76

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for other stations in Suwannee River basin.

g Computed from once-daily staff-gage reading.

SUWANNEE RIVER BASIN

Alapaha River near Alapaha, Ga.

Location.--Lat 31°23', long 83°10', near left bank on downstream side of bridge on State Highway 50, 2 miles east of Alapaha, Berrien County, and 6 miles upstream from Willacoochee River.

Drainage area.--644 sq mi.

Records available.--April 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 209.34 ft above mean sea level, datum of 1929. Prior to Sept. 8, 1943, staff gage at same site and datum.

Average discharge.--17 years, 489 cfs.

Extremes.--Maximum discharge during year, 3,160 cfs Jan. 1 (gage height, 11.7 ft); no flow July 23, 24, Sept. 1-30.

1937-54: Maximum discharge, 12,700 cfs Apr. 4, 1948 (gage height, 16.8 ft); no flow July 23, 24, Sept. 1-30, 1954.

Remarks.--Records good.

Revisions (water years).--WSP 872: 1937. WSP 1002: 1939(M).

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Nov. 4-6, 12-14)

Oct. 1 to Dec. 31				Jan. 1 to Sept. 30					
1.5	45	6.0	430	-0.4	0	0.4	8.2	8.0	850
2.0	72	7.0	590	-3	.33	.8	18	9.0	1,170
3.0	138	8.0	830	-2	.85	1.5	49	10.0	1,660
5.0	317			-1	1.6	3.0	147	11.0	2,400
Note.--Same as following table above 8.0 ft.				0.0	2.4	5.0	330	11.7	3,160
				.1	3.6	7.0	600		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,550	106	64	3,160	*805	458	330	28	*1.7	0.58	0.28	
2	1,450	*97	64	3,160	780	472	310	24	1.6	.44	.22	
3	1,450	87	60	3,040	730	458	290	23	1.5	.38	.22	
4	1,900	78	75	2,920	660	486	260	27	1.9	.38	.28	
5	2,300	75	150	2,800	582	532	241	18	1.4	.53	.22	
6	2,300	81	216	2,800	516	532	300	16	1.2	.63	.16	
7	2,220	87	394	2,600	458	486	330	15	1.1	.74	.12	
8	1,980	90	430	2,400	420	458	280	13	1.0	.85	.16	
9	1,780	94	520	2,060	396	432	218	11	*.85	1.4	.48	
10	1,500	87	610	1,780	372	408	187	9.0	.74	.80	.48	
11	1,250	84	680	1,600	350	372	175	*7.5	.68	.53	.28	
12	1,010	78	805	1,450	330	340	163	6.2	.74	.38	.16	
13	830	*75	1,050	1,300	310	300	143	27	.91	.28	.06	
14	680	71	1,450	1,210	300	270	*120	33	.80	.28	.03	
15	554	68	1,550	1,210	280	232	103	15	.68	.28	.03	
16	472	67	1,550	1,250	270	196	96	10	.58	.22	.01	
17	406	62	1,600	1,170	260	171	96	8.0	.58	.16	.03	
18	350	56	1,650	1,090	241	*155	81	6.8	.58	.12	.22	
19	307	53	1,720	1,010	228	155	71	6.1	.53	.06	.16	
20	267	50	1,780	950	218	218	67	5.6	.53	.06	.38	
21	238	49	1,900	920	218	232	64	4.9	*.48	*.03	.63	
22	216	48	1,900	860	223	228	67	4.3	.48	.03	3.9	
23	198	49	1,840	830	270	250	90	3.9	.58	*0	1.7	
24	181	48	1,650	755	330	310	100	3.4	2.2	0	1.0	
25	169	56	1,600	730	396	340	87	3.0	2.4	.25	.63	
26	153	60	1,720	705	420	350	69	2.6	1.6	3.6	.44	
27	146	61	1,900	680	408	350	53	2.6	1.2	2.8	.33	
28	138	62	2,140	705	408	372	42	*2.4	.85	1.5	.22	
29	131	64	2,400	730	-	384	35	2.6	.74	.85	.16	
30	124	*65	2,700	780	---	372	*30	2.4	*.58	.58	.12	
31	117	---	3,040	805	---	340	---	2.0	---	*.38	.06	
Total	26,367	2,108	39,228	47,460	11,179	10,659	4,498	543.3	30.71	19.12	13.17	0
Mean	851	70.3	1,265	1,531	399	344	150	11.1	1.02	0.617	0.425	0
Cfsm	1.32	0.109	1.96	2.38	0.620	0.534	0.233	0.017	0.0016	0.00096	0.00066	0
In.	1.52	0.12	2.26	2.74	0.65	0.62	0.26	0.02	0.002	0.001	0.0008	0
Calendar year 1953: Max	3,040				Min 5.6	Mean 529	Cfsm 0.821	In. 11.16				
Water year 1953-54: Max	3,160				Min 0	Mean 389	Cfsm 0.604	In. 8.19				

* Discharge measurement or observation of no flow made on this day.

Alapaha River at Statenville, Ga.

Location--Lat 30°40', long 83°01', at downstream side of left bank pier of bridge on State Highway 94, a quarter of a mile west of Statenville, Echols County.

Drainage area--1,400 sq mi, approximately.

Records available--January to June 1921, December 1931 to September 1954.

Gage--Water-stage recorder. Datum of gage is 76.77 ft above mean sea level (levels by Georgia State Highway Department). Jan. 28 to June 30, 1921, staff gage at site 50 ft upstream at datum 2.10 ft higher. Dec. 10, 1931, to July 9, 1935, chain gage, July 10, 1935, to Nov. 30, 1949, staff gage, at site 200 ft upstream, Dec. 1, 1949, to Nov. 22, 1952, wire-weight gage, at present site, all at present datum.

Average discharge--22 years (1932-54), 963 cfs.

Extremes--Maximum discharge during year, 4,100 cfs at 12:01 a.m. Oct. 1, stage falling; maximum peak discharge during year, 4,010 cfs Jan. 9, 10 (gage height, 16.6 ft); minimum, 19 cfs Sept. 10-14.
1921, 1931-54: Maximum discharge, 27,300 cfs Apr. 6, 1948 (gage height, 29.8 ft, from graph based on gage readings); minimum observed, 17 cfs Dec. 21, 28-31, 1931.
Flood of Apr. 30 or May 1, 1928, reached a stage of 28.5 ft (discharge 18,400 cfs).

Remarks--Records good.

Revisions (water years)--WSP 822: 1936, drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 31

Jan. 1 to Sept. 30

2.2	163	0.7	19	3.0	331
3.0	303	1.1	46	13.0	2,920
9.0	1,770	2.0	161	16.6	4,010
16.8	4,070				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,070	323	171	3,140	1,180	735	495	199	68	*37	37	24
2	3,880	313	171	3,170	1,160	760	484	168	62	38	35	22
3	3,700	*294	169	3,260	1,160	785	473	167	65	38	34	*22
4	3,680	284	195	3,390	1,140	785	451	155	66	37	32	21
5	3,730	294	284	3,510	1,110	*785	451	142	59	37	32	20
6	3,730	323	343	3,660	1,080	760	518	133	56	39	31	20
7	3,630	323	457	3,820	1,080	760	552	125	53	42	35	20
8	3,320	294	560	3,940	1,040	760	518	118	50	55	44	20
9	3,000	284	652	4,010	985	760	495	115	49	49	37	19
10	2,760	284	772	4,010	910	735	495	110	47	44	32	19
11	2,710	284	*868	3,880	835	710	495	105	47	54	29	19
12	2,680	274	916	3,700	785	660	*473	98	47	69	28	19
13	2,650	274	1,120	3,480	710	612	420	104	48	50	24	19
14	2,530	265	1,370	3,280	660	588	380	117	44	41	24	19
15	2,330	256	1,470	3,080	636	564	350	124	46	37	26	22
16	2,050	247	1,500	2,890	588	518	322	140	*66	34	25	31
17	1,740	238	1,530	2,690	564	473	302	168	52	32	*24	34
18	1,450	229	1,550	2,440	541	440	275	182	48	32	24	31
19	1,140	220	1,640	2,220	506	430	257	176	50	31	25	28
20	1,020	209	1,740	2,060	495	462	248	164	48	*29	25	28
21	868	200	1,910	*1,950	484	473	240	139	46	28	24	28
22	772	195	2,050	1,870	473	473	266	121	42	28	28	28
23	676	193	2,390	1,870	451	473	248	109	40	32	31	28
24	606	187	2,680	1,820	451	473	302	100	40	31	32	32
25	548	193	2,850	1,710	484	473	284	95	40	44	32	34
26	492	189	3,080	1,600	495	495	275	87	40	54	30	31
27	457	192	3,200	1,520	541	495	266	*84	40	81	28	32
28	426	176	3,260	1,470	636	506	266	80	38	53	25	31
29	394	173	3,320	1,370	-	506	240	76	37	46	26	33
30	363	173	3,260	1,290	-----	506	215	74	37	43	28	35
31	343	-----	3,200	1,240	-----	495	-----	72	-----	39	25	-----
Total	61,725	7,373	48,678	83,320	21,180	18,450	11,056	3,867	1,471	1,304	912	769
Mean	1,991	246	1,570	2,688	756	595	369	125	49.0	42.1	29.4	25.6
Cram	1.42	0.176	1.12	0.540	0.425	0.264	0.069	0.035	0.030	0.021	0.018	0.018
In.	1.64	0.20	1.29	2.21	0.56	0.49	0.29	0.10	0.04	0.03	0.02	0.02
Calendar year 1953: Max	4,070				Min 105	Mean 1,063	Cram 0.759	In. 10.32				
Water year 1953-54: Max	4,070				Min 19	Mean 713	Cram 0.509	In. 6.89				

* Discharge measurement made on this day.

SUWANNEE RIVER BASIN

Little River near Adel, Ga.

Location.--Lat 31°09', long 83°33', on right bank 500 ft downstream from bridge on State Highway 37, half a mile downstream from Georgia & Florida Railroad bridge, 5½ miles upstream from Bear Creek, 6 miles downstream from Warrior Creek, and 7 miles west of Adel, Cook County.

Drainage area.--547 sq mi.

Records available.--June 1940 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 171.08 ft above mean sea level, datum of 1929.

Average discharge.--14 years, 504 cfs.

Extremes.--Maximum discharge during year, 3,110 cfs at 12:01 a. m. Oct. 1, stage falling; maximum peak discharge during year, 2,750 cfs Jan. 2 (gage height, 14.4 ft); minimum discharge, 0.41 cfs Sept. 9-15.

1940-54: Maximum discharge, 38,800 cfs Apr. 2, 1948 (gage height, 21.0 ft), from rating curve extended above 13,000 cfs on basis of contracted-opening determination of peak flow; minimum, that of Sept. 9-15, 1954.

Flood of August 1928 reached a stage of 20.5 ft, from information by State Highway Department of Georgia (discharge, 33,200 cfs, from rating curve extended above 13,000 cfs as explained above).

Remarks.--Records good except those for period of no gage-height record, which are fair.

Revisions (water years).--WSP 1082: 1944.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct 1 to Dec. 31

Jan. 1 to Sept. 30

2.2	38	0.98	0.41	3.5	134
3.0	88	1.04	.93	5.0	296
4.0	175	1.1	1.8	7.0	577
5.0	290	1.2	4.0	11.0	1,400
7.0	577	1.5	13	13.0	1,980
Note.--Same as following table above 7.0 ft.		2.0	33	14.0	2,460
		2.5	59	15.0	3,320

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,010	53	110	2,460	498	*498	198	51	15	3.0	3.2	0.82
2	2,670	49	98	2,670	453	561	215	58	14	3.0	3.0	.72
3	2,140	45	87	2,600	412	594	204	46	12	2.5	2.3	.64
4	1,670	42	92	2,340	386	611	182	*35	11	2.3	1.9	.64
5	1,330	45	170	2,100	360	577	177	30	11	2.1	1.6	.56
6	1,070	54	396	1,850	334	498	220	27	11	2.1	1.4	.56
7	926	55	886	1,550	321	468	215	23	9.9	*2.3	1.3	.48
8	809	66	1,250	1,330	308	399	177	21	9.3	2.5	1.5	.48
9	698	71	1,500	1,120	302	321	162	18	8.7	2.5	6.4	.48
10	545	78	*1,480	986	290	260	182	16	8.1	5.8	6.1	.41
11	424	80	1,330	1,010	278	226	198	15	9.3	5.2	5.5	.41
12	342	78	1,210	1,030	272	198	*193	14	8.4	4.0	3.7	.41
13	290	70	1,330	986	272	182	157	16	7.8	3.7	3.0	.41
14	248	65	1,610	946	260	198	120	15	7.5	3.2	3.0	.41
15	218	62	1,760	*1,070	242	215	96	14	7.2	3.0	3.0	*.48
16	196	59	1,880	a1,100	237	177	84	13	6.4	3.0	2.5	.93
17	175	54	1,910	a950	232	152	82	14	6.1	3.0	*1.8	1.3
18	160	50	1,880	a860	226	138	75	52	5.5	3.0	1.8	1.3
19	150	48	1,790	a770	215	143	69	88	5.8	2.5	1.6	1.77
20	150	45	1,670	a720	210	237	67	130	5.5	2.5	1.8	1.6
21	155	43	1,480	a690	242	328	72	125	*4.5	2.3	3.7	1.3
22	150	42	1,250	a640	321	360	73	94	4.2	2.3	3.4	1.3
23	132	42	1,280	a620	334	399	70	74	4.2	2.1	2.3	1.3
24	118	44	1,250	a600	360	438	65	54	4.2	2.1	1.9	1.8
25	110	61	1,350	a600	412	438	65	41	4.2	4.5	1.6	1.9
26	98	70	1,700	a620	438	438	62	*34	4.0	7.2	1.6	1.9
27	92	98	2,100	662	425	386	55	29	4.0	5.5	1.3	2.7
28	*62	114	2,600	698	438	284	48	25	3.2	5.2	1.2	2.7
29	73	127	2,600	690	-	232	43	23	3.2	4.0	1.0	2.7
30	65	122	2,340	662	-----	198	43	19	3.0	3.2	.93	2.7
31	59	-----	2,290	577	-----	182	-----	17	-----	2.7	.93	-----
Total	18,355	1,932	42,659	35,494	9,078	10,336	3,669	1,233	218.2	102.6	76.06	34.94
Mean	592	64.4	1,376	1,145	324	333	122	39.8	7.27	3.31	2.45	1.16
Cfsm	1.08	0.118	2.52	2.09	0.592	0.609	0.223	0.073	0.013	0.0061	0.0045	0.0021
In.	1.24	0.13	2.90	2.41	0.62	0.70	0.25	0.08	0.01	0.007	0.005	0.002

Calendar year 1953: Max 3,210 Min 8.5 Mean 558 Cfsm 1.02 In. 13.85
 Water year 1953-54: Max 3,010 Min 0.41 Mean 338 Cfsm 0.618 In. 8.35

Peak discharge (base, 1,500 cfs).--Dec. 9 (9 p.m.) 1,550 cfs (11.6 ft); Dec. 17 (4 p.m.) 1,910 cfs (12.8 ft); Jan. 2 (4 p.m.) 2,750 cfs (14.4 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of weather records, recorded range in stage, and records for stations on nearby streams.

Withlacoochee River near Pinetta, Fla.

Location.--Lat 30°36', long 83°16', on line between secs. 6 and 7, T. 2 N., R. 11 E., on right bank 30 ft downstream from highway bridge, a quarter of a mile west of Bellville, and 5 miles east of Pinetta.

Drainage area.--2,220 sq mi, approximately.

Records available.--December 1931 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 47.21 ft above mean sea level (levels by Corps of Engineers). Prior to Dec. 2, 1941, chain or wire-weight gage at same site and datum.

Average discharge.--23 years, 1,482 cfs.

Extremes.--Maximum discharge during year, 6,800 cfs Oct. 6 (gage height, 17.45 ft); minimum, 88 cfs Sept. 6-8, 12-15 (gage height, 6.42 ft).
1931-54: Maximum discharge, 79,400 cfs Apr. 5, 1948 (gage height, 38.64 ft, from floodmarks); minimum, 86 cfs Oct. 29, 30, 1943; minimum gage height, 6.42 ft Oct. 29, 30, 1943, Sept. 6-8, 12-15, 1954.
Maximum stage known, that of Apr. 5, 1948.

Remarks.--Records good.

Revisions (water years).--WSP 972: 1941-42.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

6.4	85	8.0	685
6.7	134	18.0	7,170
7.0	229		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,370	452	435	5,980	1,860	1,230	754	382	257	136	115	99
2	5,020	430	448	6,030	1,600	1,290	680	352	237	132	113	96
3	5,730	417	452	6,010	1,520	1,330	630	318	210	130	112	95
4	6,340	399	484	5,910	1,420	1,350	604	302	191	134	110	92
5	6,680	421	759	5,740	1,310	1,360	604	*302	178	149	107	91
6	6,790	652	961	5,570	1,230	1,370	841	294	169	149	107	89
7	*6,660	771	1,340	*5,450	1,160	1,380	1,110	277	162	149	107	88
8	6,260	714	1,700	5,340	1,120	1,350	1,220	261	156	144	112	89
9	5,560	646	1,860	5,160	1,090	1,260	1,160	233	154	230	128	89
10	4,380	594	2,000	4,840	*1,050	1,160	1,040	221	159	249	185	91
11	3,080	559	2,160	4,360	1,020	1,040	937	206	154	191	233	91
12	2,270	544	2,450	3,720	973	913	859	199	149	165	169	89
13	1,810	530	3,090	3,180	937	830	771	210	146	146	136	88
14	1,500	507	3,910	2,930	913	771	691	241	144	136	123	*88
15	1,210	484	4,300	2,860	895	725	614	294	*144	130	110	89
16	1,120	*462	4,460	2,920	877	696	554	344	152	126	109	101
17	1,010	444	4,480	2,960	847	691	498	323	152	126	105	113
18	937	426	4,480	2,940	818	702	452	277	152	124	104	113
19	925	408	4,580	2,860	794	780	413	261	154	124	102	112
20	865	391	4,730	2,750	777	853	386	241	154	123	112	105
21	788	382	4,610	2,610	771	1,000	374	229	149	123	117	101
22	731	378	4,740	2,450	754	1,120	369	214	146	124	117	101
23	685	391	4,720	2,340	748	1,150	399	218	146	126	110	99
24	658	421	4,670	2,200	800	*1,160	395	261	146	126	110	95
25	625	430	5,010	2,050	913	1,160	386	269	146	144	110	96
26	594	430	5,100	1,960	1,020	1,170	391	261	144	149	109	96
27	568	421	5,200	1,900	1,090	1,150	386	249	142	*144	107	99
28	554	413	5,370	1,860	1,130	1,090	462	233	142	134	102	99
29	535	413	5,530	1,810	-	1,030	421	225	139	126	102	101
30	502	417	5,690	1,770	849	949	391	261	142	121	104	101
31	480	-----	5,840	1,730	-----	847	-----	253	-----	117	102	-----
Total	79,237	14,347	105,959	110,190	29,237	32,907	18,792	8,211	4,816	4,487	3,689	2,896
Mean	2,556	478	3,418	3,555	1,044	1,062	626	265	161	145	119	96.5
Cfsm	1.15	0.215	1.54	1.60	0.470	0.478	0.282	0.119	0.073	0.065	0.054	0.043
In.	1.33	0.24	1.78	1.85	0.49	0.55	0.31	0.14	0.08	0.08	0.06	0.05

Calendar year 1953: Max 7,160 Min 191 Mean 1,694 Cfsm 0.763 In. 10.35
Water year 1953-54: Max 6,790 Min 88 Mean 1,136 Cfsm 0.512 In. 6.96

* Discharge measurement made on this day.

Note.--Discharge computed from once-daily tape-gage readings Feb. 24 to Mar. 23.

Suwannee River at Ellaville, Fla.

Location.--Lat 30°23', long 83°10', in sec. 24, T. 1 S., R. 11 E., on left bank at Ellaville, 200 ft upstream from Seaboard Air Line Railroad bridge, 200 ft downstream from Withlacoochee River, and a quarter of a mile upstream from bridge on U. S. Highway 90.

Drainage area.--6,580 sq mi, approximately.

Records available.--January 1927 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 27.82 ft above mean sea level (levels by Corps of Engineers). Prior to June 20, 1932, staff gage at same site and datum.

Average discharge.--27 years, 6,341 cfs.

Extremes.--Maximum discharge during year, 19,200 cfs Oct. 8, 9, 10; maximum gage height, 18.80 ft Oct. 9; minimum discharge, 1,170 cfs Sept. 9, 10, 11 (gage height, 2.06 ft). 1927-54: Maximum discharge, 95,300 cfs Apr. 7, 8, 1948 (gage height, 40.88 ft, from floodmarks); minimum, 970 cfs Dec. 13, 14, 24, 25, 1943; minimum gage height, 2.05 ft June 30, 1935, Dec. 13, 14, 24, 25, 1943.

Remarks.--Records excellent. Since Nov. 7, 1953, slight regulation at low water caused by diversions above control half a mile downstream from gage by a stream-electric powerplant for cooling of condensers. Total diverted flow is returned to river below control.

Revisions.--WSP 727: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

2.0	1,120	10.0	9,820
3.0	2,160	14.0	14,100
6.0	5,810	19.0	19,500

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15,400	7,020	3,340	14,800	8,140	4,520	3,310	2,390	1,720	1,470	1,370	1,240
2	16,200	6,660	3,300	15,100	7,910	4,640	3,210	2,370	1,720	1,460	1,360	1,230
3	17,000	6,350	3,260	15,300	7,890	4,680	3,130	2,330	1,710	1,450	1,350	1,220
4	17,600	6,090	3,340	15,400	7,440	4,680	3,050	*2,280	1,680	1,460	1,340	1,200
5	18,200	5,930	3,550	15,500	7,180	4,680	3,030	2,220	1,650	1,490	1,340	1,190
6	18,600	5,830	4,080	15,500	6,920	4,670	3,060	2,190	1,640	1,500	1,340	1,180
7	18,900	5,840	4,530	*15,500	6,700	4,640	3,220	2,160	1,620	1,510	1,340	1,180
8	*19,200	5,760	5,300	15,500	6,550	4,620	3,580	2,120	1,620	1,510	1,340	1,180
9	19,200	5,610	5,710	15,500	6,470	4,560	3,480	2,060	1,610	1,530	1,340	1,180
10	19,000	5,410	5,940	15,400	6,350	4,460	3,580	2,020	1,600	1,580	1,350	1,180
11	18,600	5,220	6,110	15,200	*6,190	4,500	3,240	1,980	1,600	1,570	1,400	1,180
12	18,100	5,060	6,310	14,900	5,990	4,110	3,150	1,940	1,580	1,550	1,390	1,190
13	17,700	4,890	6,660	14,500	5,810	3,950	3,060	1,960	1,570	1,520	1,350	1,190
14	17,200	4,720	7,410	14,100	5,630	3,790	2,970	1,930	1,560	1,490	1,350	*1,180
15	16,800	4,580	8,250	13,700	5,480	3,660	2,880	1,910	*1,570	1,460	1,350	1,180
16	16,400	4,450	8,810	13,500	5,330	3,550	2,800	1,930	1,590	1,430	1,300	1,180
17	15,900	*4,290	9,130	13,200	5,170	3,490	2,710	1,940	1,560	1,420	1,290	1,200
18	15,400	4,150	9,300	12,800	5,030	3,440	2,620	1,930	1,560	1,420	1,280	1,220
19	14,800	4,020	9,440	12,400	4,880	3,440	2,550	1,930	1,550	1,410	1,270	1,240
20	14,300	3,910	9,610	12,000	4,740	3,480	2,500	1,900	1,550	1,400	1,290	1,240
21	13,700	3,820	9,800	11,600	4,590	3,640	2,470	1,860	1,540	1,390	1,280	1,210
22	13,000	3,730	9,930	11,300	4,460	3,780	2,430	1,840	1,530	1,380	1,260	1,190
23	12,400	3,640	10,100	10,800	4,360	3,850	2,420	1,800	1,520	1,380	1,260	1,190
24	11,700	3,590	10,400	10,500	4,290	*3,850	2,420	1,790	1,510	1,380	1,260	1,220
25	11,000	3,570	10,900	10,200	4,290	3,790	2,420	1,790	1,500	1,380	1,260	1,220
26	10,200	3,560	11,600	9,850	4,330	3,760	2,420	1,780	1,500	1,410	1,260	1,230
27	9,540	3,550	12,400	9,520	4,400	3,720	2,410	1,780	1,500	*1,430	1,250	1,250
28	8,960	3,510	13,000	9,220	4,450	3,680	2,450	1,770	1,490	1,420	1,240	1,220
29	8,410	3,440	13,500	8,930	-	3,590	2,460	1,760	1,490	1,420	1,240	1,220
30	7,910	3,390	13,900	8,660	-----	3,510	2,420	1,740	1,480	1,400	1,240	1,210
31	7,430	-----	14,400	8,400	-----	3,410	-----	1,740	-----	1,380	1,250	-----
Total	458,750	141,590	253,310	398,780	160,770	123,940	85,030	61,140	47,320	45,000	40,520	36,140
Mean	14,800	4,720	8,171	12,860	5,742	3,998	2,834	1,972	1,577	1,452	1,307	1,205
Cfsm	2.25	0.717	1.24	1.95	0.875	0.698	0.431	0.300	0.240	0.221	0.199	0.183
In.	2.59	0.80	1.43	2.25	0.91	0.70	0.46	0.55	0.27	0.25	0.23	0.20

Calendar year 1953: Max 19,200 Min 1,410 Mean 6,311 Cfsm 0.959 In. 13.02
 Water year 1953-54: Max 19,200 Min 1,180 Mean 5,075 Cfsm 0.771 In. 10.46

* Discharge measurement made on this day.

Suwannee River at Branford, Fla.

Location.--Lat 29°57', long 82°56', in sec. 17 or 20, T. 6 S., R. 14 E., near left bank on upstream side of bridge on U. S. Highways 27 and 129 at Branford, 10½ miles upstream from Santa Fe River.

Drainage area.--7,090 sq mi, approximately.

Records available.--July 1931 to September 1954.

Gage.--Wire-weight gage read once daily. Datum of gage is 4.81 ft above mean sea level, datum of 1929. Prior to June 15, 1933, chain gage at same site and datum.

Average discharge.--23 years, 6,447 cfs.

Extremes.--Maximum discharge during year, 16,700 cfs Oct. 10-12; maximum gage height, 18.96 ft Oct. 11; minimum, 1,960 cfs Sept. 9 (gage height, 3.29 ft).
1931-54: Maximum discharge observed, 83,900 cfs Apr. 11, 1948 (gage height, 34.07 ft); minimum, 1,610 cfs Dec. 12-21, 24, 1943; minimum gage height, 2.27 ft Dec. 17, 18, 1943.
Maximum stage known, that of Apr. 11, 1948.

Remarks.--Records good. Records of chemical analyses and water temperatures for the water year 1954 are given in WSP 1350.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1-11		Oct. 12 to Sept. 30	
15.0	12,300	3.2	1,920
19.0	16,800	8.0	4,980
		14.0	10,700
		19.0	16,800

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12,400	9,280	4,920	13,800	9,630	5,790	4,590	3,460	2,680	2,380	2,200	2,080
2	13,100	8,880	4,830	14,100	9,500	5,760	4,470	3,430	2,660	2,350	2,190	2,040
3	13,800	8,500	4,770	14,400	9,380	5,820	4,390	3,420	2,690	2,350	2,190	2,020
4	14,400	8,110	4,820	14,700	9,140	5,800	4,310	3,370	2,720	2,350	2,180	2,000
5	14,900	7,950	4,880	14,800	8,930	5,760	4,250	3,300	2,680	2,350	2,150	2,000
6	*15,400	7,750	5,010	14,900	8,680	5,780	4,260	3,260	2,590	2,330	2,140	2,000
7	15,800	7,590	5,330	14,900	8,480	5,760	4,250	*3,250	2,570	2,330	2,140	1,980
8	16,200	7,700	5,530	*14,900	*8,340	5,690	4,310	3,230	2,560	2,350	2,170	1,980
9	16,500	7,350	5,910	14,900	8,120	5,650	4,380	3,160	2,540	2,370	2,200	1,960
10	16,700	7,210	6,200	15,000	7,980	5,640	4,380	3,110	2,560	2,310	2,210	1,970
11	16,700	7,000	6,360	15,000	7,820	5,510	4,270	3,070	2,560	2,470	2,200	1,980
12	16,700	6,800	6,600	14,900	7,680	5,430	4,260	3,010	2,560	2,400	2,200	2,050
13	16,500	6,870	6,830	14,800	7,490	5,400	4,200	3,150	2,550	2,370	2,180	2,020
14	16,400	6,540	7,180	14,600	7,290	5,280	4,120	3,040	2,550	2,360	2,170	2,010
15	16,300	6,370	7,490	14,400	7,140	5,260	4,070	2,990	2,550	2,350	2,160	*2,020
16	16,100	6,270	7,970	14,200	7,000	4,980	4,100	2,950	*2,570	2,330	2,110	2,020
17	15,900	6,130	*8,320	14,000	6,870	4,880	3,950	2,940	2,540	2,310	2,110	2,020
18	15,600	6,000	8,520	13,800	6,710	4,910	3,820	2,930	2,520	2,300	2,120	2,000
19	15,400	5,880	8,800	13,500	6,440	4,920	3,740	2,930	2,500	2,290	2,080	2,020
20	15,000	5,800	9,100	13,400	6,320	4,910	3,700	2,930	2,480	2,270	2,090	2,020
21	14,700	5,630	9,500	13,100	6,290	4,850	3,640	2,910	2,470	2,270	2,090	2,000
22	14,300	5,560	9,500	12,800	6,140	*4,860	3,610	2,830	2,470	2,270	2,060	2,020
23	13,900	5,520	9,760	12,400	6,040	4,920	3,590	2,800	2,470	2,270	2,040	1,990
24	13,500	5,380	9,870	12,100	5,990	4,960	3,550	2,750	2,460	2,240	2,030	1,970
25	12,900	*5,370	10,300	11,800	5,880	4,950	3,530	2,750	2,440	2,250	2,040	1,970
26	12,300	5,230	10,600	11,400	5,840	4,920	3,500	2,750	2,410	2,250	2,040	1,980
27	11,800	5,160	11,200	11,300	5,820	4,870	3,500	2,780	2,410	2,250	2,040	2,020
28	11,300	5,120	11,800	10,900	5,800	4,870	3,480	2,750	2,410	*2,260	2,020	2,040
29	10,800	5,040	12,400	10,600	-	4,790	3,480	2,740	2,410	2,240	2,090	2,040
30	10,100	5,040	12,900	10,300	-----	4,740	3,460	2,720	2,390	2,230	2,050	2,030
31	9,710	-----	13,400	9,960	-----	4,680	-----	2,700	-----	2,200	2,040	-----
Total	445,110	196,810	250,400	415,660	206,740	162,340	119,160	93,390	75,950	72,050	65,730	60,250
Mean	14,360	6,560	8,070	13,410	7,364	5,237	3,872	3,013	2,532	2,324	2,120	2,008
Cfsm	2.03	0.925	1.14	1.89	1.04	0.739	0.560	0.425	0.357	0.328	0.299	0.283
In.	2.33	1.03	1.31	2.18	1.08	0.85	0.63	0.49	0.40	0.38	0.34	0.32
Calendar year 1953: Max	16,700				Min 2,180	Mean 6,902	Cfsm 0.973	In. 13.20				
Water year 1953-54: Max	16,700				Min 1,960	Mean 5,928	Cfsm 0.836	In. 11.34				

* Discharge measurement made on this day.

SUWANNEE RIVER BASIN

New River near Lake Butler, Fla.

Location.--Lat 30°00', long 82°17', in sec. 2, T. 6 S., R. 20 E., near right bank on downstream side of bridge on State Highway 100, 4.4 miles southeast of village of Lake Butler.

Drainage area.--212 sq mi.

Records available.--January 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 83.8 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 2,640 cfs Dec. 26 (gage height, 9.87 ft); minimum, 0.3 cfs Aug. 20, 21 (gage height, 0.52 ft).
1950-54: Maximum discharge, 6,470 cfs Sept. 8, 1950 (gage height, 12.02 ft); minimum, that of Aug. 20, 21, 1954.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Apr. 25-28, Aug. 30 to Sept. 1)

Oct. 1 to Jan. 20				Jan. 21 to Sept. 30			
2.1	25	7.0	420	0.5	0.2	1.2	5.1
4.0	75	7.5	630	.6	.6	1.5	9.1
4.8	120	8.0	960	.7	1.1	2.0	20
6.5	300	9.8	2,580	.8	1.7	3.0	44
				1.0	3.2	4.0	76

Note.--Same as preceding table above 4.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,110	32	35	762	35	18	13	21	3.4	1.9	2.3	6.1
2	1,620	30	33	605	*35	17	11	15	2.5	1.8	2.0	4.6
3	1,350	28	32	494	31	16	9.8	10	1.9	1.2	1.7	5.9
4	1,350	26	31	420	29	15	8.9	8.8	2.8	.8	1.6	4.8
5	1,420	75	294	361	27	14	10	7.6	3.3	.7	1.4	3.3
6	1,220	205	460	304	25	14	8.3	7.0	2.8	.6	1.2	2.6
7	944	222	490	262	24	16	12	6.8	2.0	.5	3.6	2.1
8	780	155	605	227	40	15	45	5.9	*1.6	.5	7.2	1.9
9	920	*114	566	195	55	15	48	5.0	1.3	1.3	3.0	1.8
10	1,150	112	508	165	52	14	52	4.3	1.2	4.1	2.0	1.8
11	960	130	432	156	44	13	58	3.6	1.4	9.4	1.6	9.9
12	888	129	355	166	40	12	50	3.2	1.6	4.9	1.3	34
13	804	108	318	159	37	12	39	3.4	1.5	4.9	1.2	15
14	648	91	*792	130	34	12	36	3.8	1.2	5.7	1.0	8.2
15	499	77	978	111	32	12	29	4.1	1.0	2.8	.8	9.5
16	386	68	960	104	30	11	27	3.5	1.0	1.8	.7	26
17	302	61	996	96	28	*9.8	24	2.8	1.0	1.5	.6	63
18	249	54	774	86	27	9.1	17	2.4	.8	1.2	.4	390
19	205	48	571	78	25	18	12	2.2	.8	*1.0	.4	286
20	165	44	432	72	24	64	9.1	2.0	.8	.8	.3	162
21	126	40	343	68	25	70	8.6	1.9	.9	.7	.3	75
22	99	38	282	64	24	52	11	1.8	.8	.6	.4	83
23	82	36	646	61	22	40	24	1.6	.7	.5	.5	76
24	71	35	1,280	60	21	40	45	1.5	.6	1.2	.7	60
25	62	42	1,720	56	23	40	72	1.4	.7	5.0	.8	43
26	54	49	2,550	51	22	37	*84	1.3	.5	21	.8	83
27	48	48	2,210	48	21	31	84	1.5	.4	15	.6	168
28	44	42	1,890	46	19	26	64	2.5	.4	7.3	1.3	116
29	43	39	1,480	42	19	22	44	2.7	.5	4.9	6.0	118
30	39	36	1,160	38	19	29	3.2	.8	.6	3.6	*20	92
31	35	-----	952	36	-----	16	-----	3.7	-----	2.8	12	-----
Total	17,673	2,225	24,205	5,523	849	719.9	984.7	145.5	40.0	110.0	77.7	1,932.5
Mean	570	74.2	761	178	30.3	23.2	32.8	4.69	1.33	3.55	2.51	64.4
Cfsm	2.69	0.350	3.68	0.840	0.143	0.109	0.155	0.022	0.0063	0.017	0.012	0.304
In.	3.10	0.39	4.25	0.97	0.15	0.13	0.17	0.03	0.007	0.02	0.01	0.34
Calendar year 1953: Max	2,550				Min 0.7	Mean 276		Cfsm 1.30	In. 17.67			
Water year 1953-54: Max	2,550				Min 0.3	Mean 149		Cfsm 0.703	In. 9.57			

Peak discharge (base, 2,000 cfs).--Dec. 26 (6 a.m.) 2,640 cfs (9.87 ft).

* Discharge measurement made on this day.

Santa Fe River at Worthington, Fla.

Location.--Lat 29°55', long 82°26', on line between secs. 32 and 33, T. 6 S., R. 19 E., near left bank on downstream side of bridge on State Highway 23, half a mile south of Worthington and three-quarters of a mile downstream from New River.

Drainage area.--630 sq mi, approximately.

Records available.--November 1931 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 42.74 ft (revised) above mean sea level (levels by Corps of Engineers). Prior to Jan. 16, 1939, staff gage at site a quarter of a mile downstream at same datum. Jan. 17, 1939, to July 23, 1953, wire-weight gage at same site and datum.

Average discharge.--22 years (1932-54), 439 cfs.

Extremes.--Maximum discharge during year, 5,530 cfs Dec. 27 (gage height, 20.08 ft); minimum, 5.7 cfs Aug. 21, 22 (gage height, 6.87 ft).
1931-54: Maximum discharge, 17,500 cfs June 17, 1934; maximum gage height, 24.94 ft Oct. 21, 1944; minimum discharge observed, 1.3 cfs May 17, June 1, 1932.

Remarks.--Records good except those for period of no gage-height record, which are fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1-18				Oct. 19 to Sept. 30			
14.6	915	6.8	4.4	9.0	118	17.0	1,920
16.0	1,500	7.0	6.4	11.0	309	19.0	3,910
18.0	3,050	7.2	14	13.0	576	20.1	5,560
		7.5	27	14.0	756		
		8.0	54	15.0	1,020		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,160	274	229	2,200	295	157	101	a85	17	7.1	10	16
2	2,170	259	215	1,930	*283	149	95	g78	17	9.4	8.9	17
3	2,570	245	204	1,710	272	143	87	a85	15	11	8.0	14
4	2,630	233	223	1,520	261	136	81	a58	21	9.4	7.3	13
5	2,440	339	486	1,340	248	128	76	a52	26	9.2	7.1	14
6	2,360	619	681	1,210	235	124	73	a46	28	9.4	6.6	12
7	2,210	734	1,080	1,090	225	126	79	a41	21	9.2	8.2	11
8	1,930	752	1,330	984	298	124	89	a56	*16	9.7	21	10
9	1,850	*689	1,330	880	373	124	135	a52	14	14	28	9.2
10	1,900	606	1,290	790	365	122	173	a29	12	26	21	8.4
11	2,050	549	1,190	747	349	115	172	a26	12	38	15	13
12	2,010	508	1,070	754	333	108	164	a23	13	39	12	29
13	1,810	484	1,000	704	305	103	159	a26	19	29	10	38
14	1,650	455	*1,360	680	279	104	136	a29	16	22	8.4	39
15	1,470	419	1,720	648	262	104	112	a33	12	17	7.5	40
16	1,270	383	2,060	610	246	96	98	g29	11	14	7.1	41
17	1,090	350	1,980	573	234	*91	90	a27	11	12	6.9	43
18	921	321	1,800	542	221	87	82	a25	9.4	10	6.4	162
19	802	294	1,640	512	210	105	73	a23	9.2	*8.9	5.8	356
20	700	273	1,420	486	199	328	65	a21	8.7	8.2	5.8	384
21	622	259	1,210	462	193	389	63	a20	8.4	7.1	5.7	324
22	560	247	1,050	441	190	357	80	a18	8.0	7.1	5.0	261
23	502	242	1,330	434	182	295	85	g17	8.0	6.9	7.1	294
24	456	235	2,060	422	176	251	74	a16	7.3	6.9	8.0	322
25	414	257	3,340	408	163	189	79	a16	7.1	7.1	9.2	264
26	377	276	4,710	392	182	166	*94	15	7.1	12	8.4	289
27	347	285	5,450	375	172	152	a132	14	7.1	16	7.7	367
28	331	280	4,840	357	164	140	a120	14	6.6	29	7.7	550
29	320	264	3,830	338	-	136	a105	14	6.6	25	10	568
30	305	244	3,100	322	-----	127	a93	15	6.4	16	*12	441
31	269	-----	2,590	308	-----	113	-----	16	-----	12	13	-----
Total	40,518	11,375	55,838	24,149	6,935	4,869	3,063	957	380.9	457.6	305.8	4,949.6
Mean	1,307	379	1,801	779	248	157	102	30.9	12.7	14.8	9.66	165
Cfsm	2.07	0.602	2.86	1.24	0.394	0.249	0.162	0.049	0.020	0.023	0.016	0.262
In.	2.39	0.67	3.30	1.43	0.41	0.29	0.18	0.06	0.02	0.03	0.02	0.29
Calendar year 1953: Max	5,860			Min	21	Mean	707	Cfsm	1.12	In.	15.25	
Water year 1953-54: Max	5,450			Min	5.7	Mean	421	Cfsm	0.668	In.	9.09	

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and records for New River near Lake Butler.

g Computed from once-daily wire-weight-gage readings.

Santa Fe River near High Springs, Fla.

Location.--Lat 29°51', long 82°38', in sec. 29, T. 7 S., R. 17 E., near right bank at upstream side of bridge on U. S. Highway 27, 150 ft upstream from Atlantic Coast Line Railroad bridge and 2 miles northwest of High Springs.

Drainage area.--950 sq mi, approximately.

Records available.--January 1931 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 26.36 ft above mean sea level, datum of 1929 (levels by Florida State Road Department). Prior to Jan. 9, 1933, staff gage at same site and datum.

Average discharge.--23 years, 798 cfs.

Extremes.--Maximum discharge during year, 4,040 cfs Dec. 30 (gage height, 8.10 ft); minimum, 203 cfs Sept. 12, 13, 14 (gage height, 1.45 ft).
1931-54: Maximum discharge, 12,700 cfs Mar. 14, 1948 (gage height, 15.71 ft, from floodmarks); minimum, 71 cfs about June 27, 1935 (gage height, 0.46 ft).

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

Oct. 1-6		Oct. 7 to Sept. 30	
5.2	2,010	1.4	189
6.5	2,920	1.6	247
		2.0	416
		5.0	2,070
		8.1	4,040

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		1,030	679	3,770	1,030	696	580	476	330	257	235	211
2	2,120	992	662	3,560	1,010	679	558	470	334	234	238	209
3	2,300	954	657	3,350	1,000	679	547	465	325	254	235	209
4	2,650	932	662	3,120	976	652	542	459	326	254	232	209
5	2,840	932	657	2,890	948	652	530	448	309	257	229	209
6	*2,880	932	740	2,700	921	652	525	438	305	254	229	206
7	2,830	987	844	2,510	894	640	542	*427	309	250	232	206
8	2,750	1,050	1,030	2,340	*904	635	547	416	309	250	232	206
9	2,860	1,090	1,230	2,200	910	630	530	406	305	257	229	206
10	2,580	1,100	1,360	2,100	926	624	525	401	313	254	232	206
11	2,500	1,080	1,430	*2,000	932	613	542	401	305	250	232	214
12	2,490	1,060	1,460	1,890	899	602	552	401	301	250	229	209
13	2,490	1,020	1,470	1,810	882	596	552	401	293	254	226	206
14	2,450	992	1,470	1,760	877	596	552	386	293	254	223	203
15	2,390	976	1,510	1,720	866	584	547	376	293	254	223	209
16	2,300	948	1,710	1,680	855	552	542	366	*293	250	223	*214
17	2,200	916	1,950	1,610	844	552	525	366	285	247	223	211
18	2,090	888	2,060	1,540	822	564	503	366	285	247	223	214
19	1,950	866	2,080	1,490	811	586	498	362	281	244	220	226
20	1,840	850	2,050	1,440	794	602	492	362	281	244	220	271
21	1,730	816	1,980	1,400	789	630	486	348	278	244	217	313
22	1,640	794	1,890	1,360	767	*662	486	344	274	244	214	334
23	1,550	776	1,850	1,310	756	696	486	344	274	247	217	330
24	1,460	767	1,840	1,260	772	696	486	339	274	247	214	339
25	1,370	*756	2,060	1,230	745	674	476	339	278	241	214	362
26	1,300	728	2,450	1,200	740	652	476	339	271	244	214	371
27	1,240	718	2,880	1,180	728	640	476	339	267	241	211	371
28	1,200	718	3,400	1,140	728	624	466	344	267	238	214	386
29	1,150	701	3,840	1,110	-	608	486	339	267	*235	217	432
30	1,100	696	4,030	1,100	-----	602	461	334	261	235	214	465
31	1,060	-----	3,960	1,060	-----	591	-----	330	-----	235	214	-----
Total	63,140	27,067	55,881	58,630	24,126	19,441	15,556	11,932	8,787	7,680	6,925	7,957
Mean	2,037	902	1,803	1,898	862	627	519	385	293	248	223	265
Cfsm	2.14	0.949	1.90	2.00	0.907	0.660	0.546	0.405	0.308	0.261	0.235	0.279
In.	2.47	1.06	2.19	2.30	0.94	0.76	0.61	0.47	0.34	0.30	0.27	0.31
Calendar year 1953: Max	4,030			Min 180		Mean 919		Cfsm 0.967	In. 13.13			
Water year 1953-54: Max	4,030			Min 203		Mean 842		Cfsm 0.886	In. 12.02			

* Discharge measurement made on this day.

Santa Fe River near Fort White, Fla.

Location.--Lat 29°51', long 82°43', in sec. 28, T. 7 S., R. 16 E., on left bank 2 miles upstream from bridge on State Highway 47, 5 miles south of Fort White, and 15 miles upstream from mouth.

Drainage area.--1,080 sq mi, approximately.

Records available.--October 1927 to January 1930, June 1932 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 20.86 ft (revised) above mean sea level (levels by Corps of Engineers). Prior to June 4, 1932, staff gage at several sites within 200 ft of present site at various datums. Oct. 1, 1947, to Feb. 10, 1949, auxiliary wire-weight gage and since Feb. 11, 1949, auxiliary water-stage recorder at bridge on State Highway 49, 13.1 miles downstream.

Average discharge.--24 years (1927-29, 1932-54), 1,628 cfs.

Extremes.--Maximum discharge during year, 5,080 cfs Dec. 31 (gage height, 5.85 ft); minimum, 1,000 cfs Sept. 17 (gage height, 0.96 ft).

1927-30, 1932-54: Maximum discharge, 12,300 cfs Mar. 14, 1948; maximum gage height observed, 13.70 ft Apr. 12, 1948; minimum discharge, 670 cfs June 4, 5, 1932; minimum gage height, 0.58 ft June 26-28, July 5, 1935.

Remarks.--Records good.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,950	2,040	1,620	5,000	2,050	1,630	1,450	1,320	1,170	1,080	1,070	1,040
2	3,100	2,000	1,800	4,810	2,040	1,800	1,420	1,320	1,160	1,070	1,080	1,040
3	3,250	1,960	1,600	4,600	2,020	1,800	1,410	1,310	1,150	1,070	1,080	1,040
4	3,550	1,930	1,610	4,480	1,990	1,580	1,410	1,300	1,170	1,070	1,080	1,040
5	*3,800	1,950	1,600	4,180	1,960	1,570	1,400	1,290	1,150	1,100	1,080	1,030
6	3,880	1,930	1,670	3,960	1,920	1,570	1,390	*1,300	1,140	1,080	1,080	1,030
7	3,870	1,950	1,750	3,740	1,910	1,550	1,400	1,290	1,140	1,080	1,080	1,020
8	3,800	1,990	1,890	3,520	1,900	1,540	1,400	1,290	1,140	1,080	1,100	1,020
9	3,770	2,020	2,060	3,350	*1,900	1,540	1,390	1,280	1,140	1,120	1,080	1,010
10	3,670	2,020	2,170	3,210	1,900	1,540	1,380	1,270	1,140	1,100	1,070	1,010
11	3,560	2,010	2,240	*3,120	1,900	1,520	1,390	1,270	1,140	1,100	1,060	1,040
12	3,490	1,980	2,280	3,010	1,880	1,510	1,400	1,270	1,130	1,080	1,040	1,040
13	3,490	1,960	2,320	2,920	1,860	1,500	1,400	1,270	1,120	1,080	1,030	1,020
14	3,490	1,940	2,340	2,890	1,840	1,500	1,400	1,260	1,120	1,100	1,030	1,020
15	3,430	1,920	2,350	2,840	1,830	1,460	1,390	1,250	1,120	1,100	1,030	1,020
16	3,350	1,900	2,500	2,820	1,810	1,450	1,380	1,240	1,110	1,100	1,040	*1,020
17	3,240	1,860	2,700	2,760	1,800	1,440	1,370	1,240	*1,110	1,100	1,040	1,010
18	3,140	1,840	2,810	2,700	1,780	1,450	1,350	1,240	1,110	1,100	1,040	1,010
19	3,040	1,820	2,860	2,660	1,770	1,490	1,340	1,240	1,110	1,100	1,060	1,020
20	2,940	1,800	2,860	2,600	1,750	1,500	1,330	1,240	1,110	1,100	1,060	1,070
21	2,860	1,770	2,840	2,550	1,730	1,510	1,330	1,220	1,100	1,100	1,060	1,150
22	2,780	1,750	2,770	2,480	1,710	1,530	1,330	1,200	1,100	1,100	1,070	1,180
23	2,700	1,730	2,770	2,430	1,700	*1,570	1,330	1,200	1,080	1,110	1,060	1,170
24	2,630	*1,730	2,750	2,360	1,710	1,580	1,320	1,200	1,080	1,110	1,060	1,160
25	2,520	1,720	2,890	2,320	1,690	1,560	1,320	1,200	1,100	1,110	1,050	1,190
26	2,420	1,690	3,170	2,280	1,680	1,540	1,320	1,200	1,100	1,110	1,040	1,190
27	2,340	1,670	3,560	2,240	1,670	1,520	1,320	1,190	1,100	1,100	1,030	1,200
28	2,280	1,660	4,050	2,200	1,660	1,520	1,320	1,190	1,100	1,070	1,040	1,200
29	2,200	1,650	4,580	2,160	-	1,490	1,320	1,180	1,080	*1,060	1,050	1,200
30	2,130	1,640	4,970	2,130	-----	1,480	1,330	1,180	1,080	1,060	1,040	1,200
31	2,080	-----	5,080	2,100	-----	1,460	-----	1,170	-----	1,060	1,040	-----
Total	95,750	55,830	82,260	94,420	51,370	47,300	41,040	38,620	33,600	33,800	32,770	32,390
Mean	3,089	1,861	2,654	3,046	1,835	1,526	1,368	1,246	1,120	1,090	1,057	1,080
Cfsm	2.86	1.72	2.46	2.82	1.70	1.41	1.27	1.15	1.04	1.01	0.979	1.00
In.	3.30	1.92	2.83	3.25	1.77	1.63	1.41	1.33	1.16	1.16	1.13	1.12

Calendar year 1953: Max 5,080 Min 896 Mean 1,730 Cfsm 1.60 In. 21.75

Water year 1953-54: Max 5,080 Min 1,010 Mean 1,751 Cfsm 1.62 In. 22.01

* Discharge measurement made on this day.

Ichatucknee Springs near Hildreth, Fla.

Location.--Lat 29°58', long 82°47', in sec. 23, T. 6 S., R. 15 E., on Ichatucknee River, near center of span on upstream side of bridge on U. S. Highway 27, 1 mile east of Hildreth, 2 miles upstream from mouth, and 2½ miles downstream from head of springs.

Records available.--1917, 1929-30 (one discharge measurement in each year), January 1931 to September 1954 (discharge measurements only).

Gage.--Reference point. Observations of stage below reference point made only when discharge measurements are made.

Extremes.--1931-54: Maximum discharge measured, 578 cfs Apr. 29, 1948; minimum measured, 243 cfs Aug. 20, 1935.

Remarks.--Surface inflow between springs and measuring section is negligible except after heavy rains.

Discharge measurements, in cubic feet per second, water year October 1953 to September 1954

Oct. 6.....	341	May 7.....	384
Nov. 25.....	335	June 16.....	388
Jan. 12.....	398	July 29.....	362
Feb. 8.....	429	Sept. 15.....	304
Mar. 22.....	406		

Suwannee River near Bell, Fla.

Location.--Lat 29°48', long 82°55', in sec. 16 or 17, T. 8 S., R. 14 E., on left bank at Rock Bluff Ferry, $4\frac{1}{2}$ miles northwest of Bell and 10 miles downstream from Santa Fe River.

Drainage area.--9,260 sq mi, approximately.

Records available.--June 1932 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 3.60 ft (revised) above mean sea level (levels by Corps of Engineers).

Average discharge.--22 years, 8,950 cfs.

Extremes.--Maximum discharge during year, 20,700 cfs Oct. 11-13; maximum gage height, 14.34 ft Oct. 12; minimum discharge, 3,530 cfs Sept. 7 (gage height, 2.18 ft).
1932-54: Maximum discharge, 82,300 cfs Apr. 13, 1948 (gage height, 27.43 ft); minimum, 2,790 cfs Dec. 17, 18, 1943 (gage height, 1.03 ft).

Remarks.--Records good.

Revisions (water years).--WSP 822: 1928(M).

Rating tables, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used July 4 to Aug. 23)

Oct. 1-12		Oct. 13 to Sept. 30	
11.3	15,000	2.2	3,550
14.4	20,900	10.0	12,300
		14.4	20,900

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15,000	12,700	7,750	17,200	13,100	8,690	7,370	5,970	4,840	4,360	4,270	3,830
2	15,900	12,100	7,850	17,600	12,800	8,590	7,220	5,350	4,820	4,340	4,240	3,750
3	16,700	11,700	7,820	18,000	12,600	8,620	7,120	5,920	4,830	4,310	4,230	3,630
4	17,400	11,400	7,710	18,200	12,300	8,590	7,020	5,890	4,810	4,290	4,180	3,580
5	*18,100	11,100	7,610	18,400	12,000	8,500	6,970	5,780	4,770	4,360	4,100	3,600
6	18,800	10,900	7,820	18,500	11,800	8,500	6,970	*5,670	4,600	4,300	4,090	3,590
7	19,300	10,600	8,070	18,600	11,500	8,480	6,940	5,620	4,540	4,260	4,100	3,580
8	19,700	10,500	8,200	18,600	11,400	8,440	6,970	5,570	4,490	4,250	4,150	3,670
9	20,200	10,300	8,560	18,500	*11,100	8,440	7,030	5,470	4,480	4,630	4,170	3,690
10	20,400	10,200	8,930	18,500	11,000	8,430	7,030	5,380	4,480	4,740	4,180	3,690
11	20,600	9,990	9,140	18,600	10,800	8,380	6,960	5,320	4,530	4,570	4,260	3,810
12	20,700	9,820	9,360	*18,600	10,600	8,310	6,920	5,310	4,530	4,470	4,210	3,940
13	20,700	9,660	9,650	18,300	10,400	8,210	6,840	5,460	4,490	4,430	4,200	3,840
14	20,600	9,510	9,970	18,200	10,200	8,130	6,790	5,490	4,490	4,440	4,190	3,790
15	20,400	9,370	10,100	17,900	10,100	7,930	6,740	5,310	4,540	4,450	4,140	3,810
16	20,300	9,250	10,500	17,700	9,950	7,720	6,710	5,190	4,560	4,450	4,040	*3,870
17	20,100	9,140	10,900	17,500	9,810	7,600	6,670	5,180	*4,510	4,460	4,030	3,820
18	19,800	9,020	11,300	17,200	9,660	7,560	6,390	5,190	4,410	4,450	4,000	3,760
19	19,400	8,890	11,600	17,000	9,510	7,650	6,300	5,190	4,310	4,420	3,930	3,700
20	19,100	8,800	11,900	16,700	9,360	7,810	6,240	5,210	4,260	4,400	3,870	3,730
21	18,600	8,710	12,200	16,500	9,260	7,710	6,170	5,090	4,280	4,360	3,900	3,740
22	18,200	8,590	12,500	16,200	9,110	7,620	6,140	4,980	4,300	4,370	3,860	3,780
23	17,600	8,500	12,800	15,900	8,960	*7,650	6,130	4,930	4,290	4,360	3,820	3,760
24	17,100	*8,370	13,000	15,600	8,890	7,710	6,090	4,890	4,290	4,320	3,750	3,650
25	16,600	8,360	13,300	15,300	8,840	7,710	6,030	4,860	4,270	4,380	3,720	3,650
26	16,100	8,200	13,700	15,000	8,740	7,670	5,980	4,890	4,280	4,400	3,800	3,750
27	15,600	8,040	14,300	14,600	8,700	7,600	5,960	4,940	4,340	4,400	3,820	3,810
28	15,100	7,980	14,900	14,400	8,700	7,590	5,940	4,920	4,360	4,370	3,830	3,840
29	14,500	7,880	15,500	14,000	-	7,540	5,950	4,920	4,390	*4,370	3,860	3,880
30	13,900	7,810	16,200	13,700	-	7,500	5,960	4,920	4,370	4,350	3,800	3,950
31	13,200	-	16,800	13,500	-	7,440	-	4,890	-	4,290	3,810	-
Total	559,700	287,390	339,740	524,500	291,190	248,320	197,540	164,280	134,560	136,350	124,550	112,400
Mean	18,050	9,580	10,960	16,920	10,400	8,010	6,585	5,299	4,485	4,398	4,018	3,747
Cfsm	1.95	1.03	1.18	1.83	1.12	0.865	0.711	0.572	0.484	0.475	0.434	0.405
In.	2.25	1.15	1.36	2.11	1.17	1.00	0.79	0.66	0.54	0.55	0.50	0.45

Calendar year 1953: Max 20,700 Min 3,600 Mean 8,106 Cfsm 0.983 In. 13.54
water year 1953-54: Max 20,700 Min 3,580 Mean 8,549 Cfsm 0.923 In. 12.53

* Discharge measurement made on this day.

Suwannee River near Wilcox, Fla.

Location.--Lat 29°36', long 82°56', in sec. 29, T. 10 S., R. 14 E., on left bank about 400 ft downstream from Fort Fannin bridge on U. S. Highway 19 and 2 miles southwest of Wilcox.

Drainage area.--About 9,500 sq mi.

Records available.--October 1930 to September 1931, March 1942 to September 1954 (fragmentary March 1942 to January 1951).

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to July 4, 1931, staff gage at site 400 ft upstream at same datum. July 4 to Sept. 30, 1931, and Mar. 26 to May 14, 1942, water-stage recorder at present site and datum. May 15, 1942, to Jan. 24, 1951, staff gage at present site and datum. Since Feb. 1, 1951, auxiliary water-stage recorder at site 9 miles downstream.

Extremes.--Maximum discharge during year, 20,000 cfs Oct. 13-16; maximum gage height, 9.87 ft Oct. 13-15; minimum daily discharge, 3,860 cfs Sept. 7.
1930-31, 1942-54: Maximum discharge, 84,700 cfs Apr. 14, 1948 (gage height, 22.32 ft); minimum not determined.

Remarks.--Records good. Flow affected by tide for discharges less than 12,000 cfs.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14,200	13,700	9,120	16,700	13,900	10,400	8,400	6,700	5,460	5,200	4,800	4,600
2	15,000	13,200	8,980	17,100	13,500	10,000	8,250	6,570	5,490	5,170	4,820	4,500
3	15,500	12,800	8,760	17,600	13,500	9,900	8,110	6,540	5,370	5,150	4,800	4,180
4	16,100	12,500	8,680	17,900	13,400	10,200	7,880	6,560	5,540	5,100	4,680	4,070
5	16,800	12,500	9,110	18,100	13,100	9,970	7,650	6,560	5,570	5,010	4,510	4,080
6	17,500	12,200	8,930	18,300	12,800	9,900	7,890	6,480	5,220	5,070	4,440	4,070
7	18,200	11,600	9,560	18,300	12,600	9,860	7,790	6,410	5,070	4,880	4,690	3,860
8	18,600	12,300	9,480	18,300	12,500	9,790	7,970	6,430	5,070	5,040	4,580	4,170
9	19,100	12,200	9,700	18,400	12,000	9,750	8,000	6,230	5,010	5,360	4,670	4,340
10	19,400	12,100	10,200	18,400	11,800	9,710	8,050	6,030	5,060	5,740	4,780	4,290
11	19,700	12,000	10,500	18,700	11,800	9,600	7,870	6,430	5,200	5,260	4,740	4,540
12	19,800	11,700	10,500	18,600	12,500	9,600	7,860	5,830	5,140	5,190	4,800	4,650
13	20,000	11,600	10,900	18,300	12,300	9,550	7,740	5,910	5,150	5,020	4,800	4,490
14	20,000	11,300	10,900	18,100	11,700	9,540	7,830	6,470	5,280	5,070	4,800	4,470
15	20,000	10,900	12,000	18,100	11,600	9,470	7,540	6,050	5,190	5,020	4,750	4,330
16	19,900	10,700	12,000	18,000	11,400	8,920	7,320	5,840	5,350	5,100	4,640	4,570
17	19,800	10,500	12,400	17,900	11,200	8,730	7,850	5,810	5,360	5,090	4,750	4,530
18	19,700	10,400	12,700	17,700	11,200	8,610	7,230	5,870	5,220	5,120	4,720	4,420
19	19,500	10,300	11,800	17,400	11,000	8,320	7,070	5,790	5,090	5,110	4,630	4,280
20	*19,200	9,940	12,300	17,200	10,800	8,210	7,140	5,690	4,980	5,020	4,400	4,260
21	19,000	9,920	12,900	17,100	10,700	9,100	7,050	5,770	4,990	4,920	4,400	4,290
22	18,700	9,840	13,200	16,900	10,700	8,910	6,990	5,540	5,020	4,950	4,440	4,490
23	18,300	9,750	13,600	16,600	10,500	8,800	7,020	5,440	5,090	4,970	4,270	4,410
24	18,000	9,690	13,600	16,100	10,200	8,850	6,970	5,360	5,130	4,820	4,280	4,170
25	17,600	9,670	13,700	15,800	10,500	8,850	6,840	5,170	5,010	4,940	4,150	4,220
26	17,100	9,940	13,900	15,500	10,100	8,890	6,780	5,330	5,090	*4,970	4,480	4,370
27	16,700	9,520	14,100	15,300	10,100	8,600	6,820	5,460	5,240	4,970	4,560	4,490
28	16,200	9,520	14,600	15,000	9,780	8,690	6,750	5,460	5,230	4,940	4,510	4,560
29	15,700	9,360	15,200	14,700	-----	8,710	6,700	5,610	5,230	4,840	4,580	4,540
30	14,900	9,230	15,800	14,400	-----	8,620	6,750	5,560	5,260	4,900	4,490	4,530
31	14,200	-----	16,300	14,200	-----	8,500	-----	5,470	-----	4,820	4,460	-----
Total	554,400	530,880	365,420	530,700	327,180	287,750	223,930	184,590	156,110	156,590	142,420	130,800
Mean	17,880	17,160	11,790	17,120	11,680	9,282	7,464	5,955	5,204	5,051	4,594	4,360
Cfsm	1.88	1.16	1.24	1.80	1.23	0.977	0.788	0.627	0.548	0.532	0.484	0.459
In.	2.17	1.30	1.43	2.08	1.28	1.13	0.88	0.72	0.61	0.61	0.56	0.51
Calendar year 1953: Max	20,000			Min	4,030	Mean	9,688	Cfsm	1.02	In.	13.65	
Water year 1953-54: Max	20,000			Min	3,860	Mean	9,290	Cfsm	0.978	In.	13.28	

* Discharge measurement made on this day.

Steinhatchee River near Cross City, Fla.

Location.--Lat 29°47', long 83°19', in sec. 15, T. 8 S., R. 10 E., on right bank 0.7 mile downstream from Atlantic Coast Line Railroad bridge, 1 mile south of Clara, and 16 miles northwest of Cross City.

Drainage area.--360 sq mi, approximately.

Records available.--February 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 7.84 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 3,740 cfs Oct. 1 (gage height, 15.39 ft), was not independent of the same peak discharge that occurred on Sept. 30, 1953; maximum independent peak discharge, 2,610 cfs July 12 (gage height, 14.43 ft); minimum discharge, 9.3 cfs July 2, 3, 4 (gage height, 2.46 ft).
1950-54: Maximum discharge, 3,740 cfs Sept. 30, Oct. 1, 1953 (gage height, 15.39 ft); minimum, 3.4 cfs June 27, 28, 1950 (gage height, 2.44 ft).

Remarks.--Records good. Records include flow for main channel only.

Revisions (water years).--WSP 1234: 1950.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

2.4	6.5	10.0	1,150
2.6	16	13.0	1,780
2.7	23	14.0	2,250
3.0	56	15.0	3,190
4.0	181	15.4	3,760

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*3,700	116	291	1,350	198	114	121	196	16	10	87	141
2	3,620	109	272	1,260	187	104	106	301	15	9.8	72	132
3	3,320	102	256	1,160	178	100	96	*345	14	9.8	58	115
4	3,000	94	351	1,070	166	94	84	344	14	9.8	52	103
5	2,630	125	534	973	154	86	76	299	16	12	44	90
6	2,220	274	596	882	145	85	79	247	16	15	37	74
7	1,830	270	865	792	143	87	73	207	15	14	34	61
8	1,540	252	917	718	227	94	63	174	13	13	112	50
9	1,330	253	978	650	222	80	54	145	12	434	170	41
10	1,140	232	978	592	218	74	130	121	12	1,640	245	34
11	968	228	919	634	*210	69	143	102	18	2,290	250	29
12	829	215	860	646	199	67	149	85	20	2,580	238	57
13	720	202	885	*592	181	62	138	110	21	2,340	220	*75
14	621	188	1,280	550	172	62	123	143	*20	1,880	186	106
15	529	175	1,320	512	163	58	112	141	22	1,480	150	120
16	457	163	1,350	478	156	52	106	130	21	1,130	121	118
17	396	*154	1,310	439	149	48	109	114	23	960	98	114
18	353	144	1,200	399	140	45	100	98	24	868	79	110
19	316	133	1,070	372	133	32	94	82	21	759	63	99
20	282	139	950	350	128	181	88	72	16	642	51	88
21	247	175	861	331	124	188	93	61	15	506	45	81
22	220	174	792	320	116	175	118	50	14	383	56	96
23	198	201	941	313	108	154	242	41	19	298	74	118
24	180	212	1,000	291	116	140	272	34	16	244	86	120
25	163	337	1,160	279	136	*126	325	28	13	209	84	118
26	146	328	1,470	268	133	116	330	24	12	*181	78	117
27	139	330	1,540	256	127	105	356	22	12	186	69	116
28	160	328	1,570	240	120	124	310	20	11	176	58	115
29	149	319	1,510	224	-	154	262	18	11	154	93	124
30	136	308	1,490	214	-----	144	222	18	11	128	122	166
31	126	-----	1,430	207	-----	132	-----	16	-----	105	132	-----
Total	31,665	6,262	30,926	17,362	4,449	3,192	4,584	3,788	493	9,666.4	3,264	2,928
Mean	1,021	209	998	560	159	103	153	122	16.1	634	105	97.6
Cfs/m	2.84	0.581	2.77	1.56	0.442	0.286	0.425	0.339	0.045	1.76	0.292	0.271
In.	3.27	0.65	3.19	1.79	0.46	0.33	0.47	0.39	0.05	2.03	0.34	0.30
Calendar year 1953: Max	3,700			Min	8.3	Mean	506	Cfs/m	1.41	In.	19.06	
Water year 1953-54: Max	3,700			Min	9.8	Mean	352	Cfs/m	0.978	In.	13.27	

* Discharge measurement made on this day.

Fenholloway River at Foley, Fla.

Location.--Lat 30°04', long 83°32', in sec. 9, T. 5 S., R. 8 E., on right bank 700 ft upstream from highway bridge in Foley. Prior to Jan. 20, 1954, at site 700 ft downstream.

Drainage area.--180 sq mi, approximately.

Records available.--September 1946 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 29.36 ft above mean sea level, datum of 1929. Prior to June 24, 1947, staff gage, and June 25, 1947, to Jan. 19, 1954, water-stage recorder, at site 700 ft downstream at same datum.

Extremes.--Maximum discharge during year, 960 cfs at 12:01 a.m. Oct. 1 (gage height, 14.15 ft, stage falling, peak occurred Sept. 28, 1953); maximum peak discharge, 450 cfs Dec. 27 (gage height, 12.87 ft); minimum daily, 17 cfs Mar. 14.

1946-54: Maximum discharge, 2,640 cfs Mar. 10, 1948 (gage height, 16.03 ft); minimum, 5.1 cfs Oct. 15, 1950; minimum gage height, 6.40 ft Jan. 8, 9, 1950.

Remarks.--Records poor. Since Feb. 1, 1954, natural flow of stream affected by large ground-water withdrawals by cellulose plant just upstream. Records include return flow from plant.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	905	43	32	300	71	26	43	44	25	50	67	67
2	800	40	32	254	65	28	40	55	45	49	63	60
3	692	38	30	221	68	30	39	72	44	46	57	51
4	571	36	45	196	64	36	26	69	52	54	60	57
5	474	43	96	178	61	35	22	*62	59	56	51	60
6	377	46	127	163	59	32	23	54	49	56	55	58
7	304	a48	195	*150	57	22	23	48	51	30	57	55
8	252	a48	231	140	60	27	24	43	44	32	58	53
9	221	a47	219	130	72	33	22	43	44	89	116	42
10	196	a45	198	122	73	27	44	51	36	126	132	*32
11	174	a42	176	124	69	32	40	68	32	141	244	46
12	158	39	158	128	*62	38	38	65	30	116	215	58
13	145	36	152	122	44	23	38	59	49	105	166	63
14	134	34	177	116	41	17	35	68	43	106	137	61
15	121	32	173	109	39	21	34	68	48	95	122	58
16	107	30	158	102	39	28	34	69	44	90	112	58
17	97	30	145	96	40	27	31	71	*43	81	96	53
18	86	28	133	90	34	27	30	63	51	78	84	50
19	79	27	122	85	32	35	29	63	50	75	77	48
20	71	28	110	82	30	48	29	50	49	74	73	48
21	62	32	104	83	30	54	31	35	48	64	57	49
22	56	32	100	79	29	56	35	31	40	62	46	24
23	53	33	130	78	28	57	35	33	38	46	57	22
24	49	*33	156	74	28	54	23	27	44	63	54	41
25	45	38	207	72	31	*56	24	40	34	67	55	49
26	41	42	381	73	33	59	29	42	30	79	56	50
27	41	41	447	85	28	56	28	48	42	94	58	52
28	49	38	386	81	26	56	47	38	45	92	57	55
29	53	36	315	76	-	57	54	27	43	*83	69	52
30	50	35	317	75	-----	52	50	22	49	73	79	51
31	46	-----	333	73	-----	34	-----	20	-----	69	75	-----
Total	6,509	1,120	5,585	3,757	1,313	1,175	1,000	1,548	1,301	2,341	2,705	1,523
Mean	210	37.3	180	121	46.9	37.9	33.3	49.9	43.4	75.5	87.3	50.8
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-
Calendar year 1953: Max	1,780			Min 11		Mean 175		Cfsm -		In. -		
Water year 1953-54: Max	905			Min 17		Mean 81.9		Cfsm -		In. -		

Peak discharge (base, 400 cfs).--Dec. 27 (11 a.m.) 450 cfs (12.87 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Econfinia River near Perry and Aucilla River at Lamont.

Fenholloway River near Perry, Fla.

Location.--Lat 30°04', long 83°40', in sec. 6, T. 5 S., R. 7 E., on left bank 4 ft upstream from highway bridge, 0.6 mile south of Hampton Springs Hotel, and 6 miles southwest of Perry.

Drainage area.--210 sq mi, approximately.

Records available.--August 1946 to October 1954 (discharge measurements only, discontinued).

Gage.--Staff gage read only when discharge measurements are made. Datum of gage is 5.00 ft above mean sea level (unadjusted). Prior to Aug. 11, 1952, reference points at same site at various datums.

Extremes.--1946-54: Maximum discharge measured, 1,260 cfs Mar. 12, 1948; minimum measured, 36.8 cfs Feb. 16, 1951.

Discharge measurements, in cubic feet per second, October 1953 to October 1954

Nov. 24.....	134	June 12.....	84.9
Jan. 4.....	339	July 26.....	140
Feb. 8.....	152	Sept. 7.....	91.9
Mar. 22.....	143	Oct. 18.....	72.2
May 5.....	135		

FENHOLLOWAY RIVER BASIN

Rocky Creek near Perry, Fla.

Location.--Lat 30°05', long 83°40', in sec. 6, T. 5 S., R. 7 E., on left bank 3 ft downstream from highway bridge at Hampton Springs Hotel and $\frac{1}{2}$ miles southwest of Perry.
Drainage area.--160 sq mi, approximately.
Records available.--August 1946 to September 1954 (discharge measurements only).
Gage.--Staff gage read only when discharge measurements are made. Datum of gage is 10.54 ft above mean sea level (unadjusted). Prior to Dec. 7, 1951, reference points at same site at various datums.
Extremes.--1946-54: Maximum discharge measured, 1,920 cfs Mar. 11, 1948; minimum measured, 25.6 cfs Feb. 16, 1951.

Discharge measurements, in cubic feet per second, water year
 October 1953 to September 1954

Nov. 23.....	120	May 5.....	57.8
Jan. 4.....	306	June 12.....	42.2
Feb. 8.....	124	July 26.....	51.1
Mar. 22.....	110	Sept. 7.....	57.7

ECONFINA RIVER BASIN

Econfina River near Perry, Fla.

Location.--Lat 30°10', long 83°49', in sec. 4, T. 4 S., R. 5 E., on right bank 10 ft downstream from highway bridge and 14.7 miles northwest of Perry.
Drainage area.--230 sq mi, approximately.
Records available.--February 1950 to September 1954.
Gage.--Water-stage recorder. Datum of gage is 14.35 ft above mean sea level, unadjusted.
Extremes.--Maximum discharge during year, 636 cfs Oct. 2 (gage height, 10.29 ft); minimum, 16 cfs Sept. 26 (gage height, 2.37 ft).
 1950-54: Maximum discharge, 758 cfs Apr. 17, 1953 (gage height, 10.75 ft); minimum, 16 cfs June 30 to July 5, Oct. 7, 8, 1950, Sept. 26, 1954; minimum gage height, 2.31 ft Oct. 7, 8, 1950.
Remarks.--Records good. Records are for flow in main channel only.

Rating table, water year 1953-54 (gage height, in feet, and
 discharge, in cubic feet per second)

2.3	15	7.0	272
3.0	34	9.0	448
4.0	81	10.3	638

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	623	74	64	330	98	51	41	27	22	22	22	22
2	634	71	62	318	92	51	39	27	21	22	22	22
3	627	67	60	307	89	50	38	26	21	21	21	21
4	614	64	61	*292	85	48	36	26	28	23	21	20
5	591	75	185	277	81	46	35	*26	36	21	20	21
6	559	94	201	259	77	45	35	25	30	21	20	20
7	524	99	268	241	75	46	34	24	29	21	20	*20
8	486	102	327	225	*75	46	33	24	28	20	23	20
9	456	100	363	211	76	45	32	24	27	25	23	19
10	376	97	587	199	75	44	32	23	26	30	23	18
11	321	93	396	194	74	42	31	23	26	31	24	18
12	278	90	399	189	71	41	30	22	*26	31	23	18
13	241	87	398	181	68	40	29	23	25	30	23	18
14	213	83	396	175	65	40	29	23	25	29	23	18
15	191	78	382	166	63	39	28	22	24	28	22	18
16	173	74	358	161	61	37	28	22	29	27	22	18
17	160	70	336	154	59	36	29	22	28	26	21	18
18	146	67	315	148	57	35	28	21	28	25	20	17
19	132	64	293	142	56	37	28	24	28	24	20	17
20	120	62	274	136	55	52	27	27	28	23	19	17
21	110	62	255	131	54	58	27	26	28	22	20	17
22	102	62	242	128	52	*60	27	26	27	22	21	17
23	92	*66	268	128	50	56	27	26	28	22	20	17
24	86	68	281	125	49	51	29	25	26	21	20	17
25	79	76	300	121	54	48	29	24	25	21	19	17
26	74	77	333	116	55	46	29	24	24	*22	19	17
27	73	75	342	114	54	44	29	23	24	26	20	20
28	89	73	341	110	53	43	28	23	24	27	19	20
29	87	70	342	105	-	44	27	23	24	25	23	20
30	83	67	348	102	-----	44	26	22	23	24	22	20
31	80	-----	344	99	-----	43	-----	22	-----	23	22	-----
Total	8,401	2,307	8,941	5,584	1,871	1,409	920	745	786	755	657	562
Mean	271	76.9	288	180	66.8	45.5	30.7	24.0	26.2	24.4	21.2	18.7
Cfsm	1.18	0.334	1.25	0.783	0.290	0.198	0.133	0.104	0.114	0.106	0.092	0.081
In.	1.36	0.37	1.45	0.90	0.30	0.23	0.15	0.12	0.13	0.12	0.11	0.09

Calendar year 1953: Max 755 Min 28 Mean 201 Cfsm 0.874 In. 11.87
 Water year 1953-54: Max 634 Min 17 Mean 90.2 Cfsm 0.392 In. 5.33

* Discharge measurement made on this day.

Aucilla River at Lamont, Fla.

Location.--Lat 30°22', long 83°48', in sec. 26, T. 1 S., R. 5 E., near left bank on downstream side of bridge on U. S. Highway 19, 0.6 mile southeast of Lamont.

Drainage area.--680 sq mi, approximately.

Records available.--February 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 42.90 ft above mean sea level, unadjusted.

Extremes.--Maximum discharge during year, 972 cfs Oct. 1 (gage height, 9.55 ft); minimum, 4.2 cfs Sept. 10, 11, 20, 21 (gage height, 1.55 ft).

1950-54: Maximum discharge, 1,640 cfs Apr. 16, 1953 (gage height, 10.64 ft); minimum, that of Sept. 10, 11, 20, 21, 1954.

Remarks.--Records good.

Revisions.--WSP 1204: Drainage area.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	967	115	95	818	287	177	91	39	13	10	6.4	6.4
2	948	110	92	829	275	174	84	34	13	9.7	6.2	5.9
3	904	106	89	822	262	165	79	31	13	9.4	5.9	5.4
4	844	100	178	800	252	156	74	29	13	10	6.4	5.2
5	780	118	355	768	240	150	72	*27	13	12	6.9	5.0
6	714	141	399	722	229	148	79	25	12	14	6.4	5.0
7	650	142	473	*672	220	147	73	24	12	12	5.9	4.6
8	603	135	510	620	216	142	70	23	12	10	8.6	4.4
9	574	133	518	574	209	135	70	21	12	9.7	17	4.4
10	544	138	526	533	200	129	64	21	13	12	15	*4.4
11	510	137	526	510	193	123	61	19	18	11	11	4.4
12	475	135	522	487	*187	119	58	19	17	9.7	8.6	4.6
13	441	130	544	460	179	115	56	21	14	8.9	8.4	6.2
14	409	124	553	436	172	112	55	21	12	9.7	10	6.2
15	378	119	525	417	165	105	55	19	13	9.2	10	5.4
16	349	114	492	400	158	99	55	18	13	8.9	8.6	5.7
17	319	108	463	382	155	93	59	17	*13	8.9	7.6	5.7
18	295	102	437	363	151	89	55	17	14	8.1	6.9	5.2
19	273	97	417	346	146	102	51	18	12	7.9	6.4	4.6
20	251	91	419	330	142	136	48	21	12	7.6	5.9	4.4
21	229	86	458	318	139	138	58	19	11	7.1	8.6	4.8
22	209	88	512	319	135	129	59	17	10	6.9	13	5.9
23	190	*98	622	332	129	124	63	16	9.9	6.9	10	6.2
24	173	98	697	327	141	126	55	16	12	6.9	8.1	5.7
25	158	105	761	324	156	*124	49	15	21	6.9	7.1	5.0
26	144	102	836	327	152	119	44	15	17	8.9	6.6	5.2
27	142	101	844	329	144	114	40	15	13	8.6	6.9	5.9
28	157	100	825	323	150	110	37	15	12	*7.9	6.9	5.0
29	147	98	808	314	-	107	35	15	11	7.4	8.6	4.8
30	135	96	804	305	-----	103	35	15	10	7.1	8.1	4.6
31	123	-----	808	296	-----	98	-----	14	-----	6.6	7.1	-----
Total	13,055	3,367	16,088	14,803	5,184	3,908	1,784	636	390.9	279.9	259.1	156.4
Mean	420	112	519	478	185	126	59.5	20.5	13.0	9.03	8.36	5.21
Cfsm	0.618	0.165	0.763	0.703	0.272	0.185	0.098	0.030	0.019	0.013	0.012	0.0077
In.	0.71	0.18	0.88	0.81	0.28	0.21	0.10	0.03	0.02	0.02	0.01	0.01

Calendar year 1953: Max 1,630 Min 14 Mean 295 Cfsm 0.434 In. 5.87
 Water year 1953-54: Max 967 Min 4.4 Mean 164 Cfsm 0.241 In. 3.26

* Discharge measurement made on this day.

ST. MARKS RIVER BASIN

Wakulla Spring near Crawfordville, Fla.

Location.--Lat 30°14', long 84°18', in sec. 11, T. 3 S., R. 1 W., on right bank 500 ft downstream from head of spring, 6 miles northeast of Crawfordville, and 14 miles south of Tallahassee.

Records available.--1917, 1929, 1930 (one measurement in each year), February 1931 to June 1932, July 1941 to September 1954 (discharge measurements only).

Gage.--Staff gage read only when discharge measurements are made. Prior to July 17, 1931, reference point, and July 17, 1931, to July 27, 1932, water-stage recorder, at same site and datum.

Extremes.--1931-32, 1941-54: Maximum discharge measured, 892 cfs Aug. 18, 1948; minimum measured, 25.2 cfs June 18, 1931.

Remarks.--Discharge measurements of Wakulla River made at bridge 3 miles below spring and of inflow through 2 culverts near head of spring and of McBrides Slough 1½ miles below spring. The discharge of spring is difference between that of river and the combined inflow at head of spring and slough. Slight tide effect at station.

Discharge measurements, in cubic feet per second, water year
 October 1952 to September 1954

Date	Wakulla River	McBrides Slough and other surface inflow	Difference or spring flow
Nov. 17	528	**15	513
Jan. 5	532	**20	512
Feb. 11	294	**10	284
Mar. 25	325	**2	323
May 4	217	0	217
June 14	215	0	215
July 26	237	**5	232
Sept. 7	202	**1	201

** Field estimate.

Ochlockonee River near Thomasville, Ga.

Location.--Lat 30°52', long 84°03', on downstream side of left bank pier of bridge on U. S. Highway 84, 2 miles upstream from Atlantic Coast Line Railroad bridge, 4 miles upstream from Barnetts Creek, 5 miles northwest of Thomasville, Thomas County, and 6 miles downstream from Little Ochlockonee River.

Drainage area.--550 sq mi, approximately.

Records available.--August 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 133.6 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Jan. 7, 1947, wire-weight gage at same site and datum.

Average discharge.--17 years, 464 cfs.

Extremes.--Maximum discharge during year, 3,520 cfs Dec. 9 (gage height, 14.3 ft); minimum, 3.3 cfs Sept. 21.

1937-54: Maximum discharge, 72,000 cfs Apr. 2, 1948 (gage height, 29.1 ft, from floodmark), from rating curve extended above 25,000 cfs by logarithmic plotting; minimum observed, 2.6 cfs Oct. 17, 18, 1938.

Remarks.--Records good.

Revisions (water years).--WSP 1112: 1937, 1939, 1945(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.0	2.4	3.0	169
.1	3.7	5.0	388
.3	7.4	7.0	710
.5	13	10.0	1,420
1.0	32	13.0	2,540
1.5	58	14.2	3,420

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,210	65	139	2,010	455	650	197	97	29	55	9.7	6.0
2	1,700	61	127	2,090	414	770	178	79	26	40	8.2	5.8
3	1,400	59	115	2,010	388	750	164	*57	24	30	9.7	5.4
4	1,140	58	150	1,840	364	*650	151	48	21	25	13	5.1
5	875	90	455	1,600	340	545	151	43	18	21	13	4.9
6	670	127	790	1,340	328	427	500	38	17	21	11	4.4
7	485	143	1,570	1,140	304	364	600	36	15	*18	10	4.0
8	364	151	2,660	965	304	340	545	33	14	19	11	*4.6
9	304	139	3,420	830	304	316	530	30	14	18	17	5.1
10	259	119	2,930	750	304	270	440	29	13	30	13	4.2
11	222	104	2,170	900	292	237	388	27	12	26	11	4.4
12	197	94	1,660	1,060	292	217	328	26	12	18	7.9	4.6
13	178	86	1,900	1,080	316	207	*316	42	12	15	7.4	4.0
14	156	81	2,440	1,040	316	248	227	52	12	13	7.2	3.7
15	139	74	2,660	965	281	340	174	77	11	13	6.8	4.0
16	131	71	2,540	900	259	340	147	83	27	12	*5.8	4.6
17	135	68	2,290	855	248	259	207	83	23	10	5.1	4.9
18	131	66	2,010	810	248	207	242	76	52	9.7	5.2	4.9
19	131	63	1,600	750	242	207	217	86	44	8.7	5.8	4.2
20	131	62	1,320	670	232	414	174	90	36	8.4	9.2	3.6
21	119	62	1,110	615	237	545	151	82	30	8.2	19	3.7
22	108	70	1,010	600	270	530	143	66	24	7.4	21	4.2
23	97	135	1,460	650	276	455	119	52	*23	7.7	20	4.7
24	90	197	1,900	690	286	376	111	44	24	8.7	21	4.4
25	83	227	2,440	670	376	*328	104	38	33	13	14	4.6
26	74	227	3,080	*635	440	304	90	*34	32	20	11	5.6
27	74	227	3,080	600	455	276	90	32	72	39	8.7	*5.1
28	*78	217	2,860	565	440	254	86	29	104	24	7.7	5.4
29	74	192	2,440	545	-	248	75	35	86	15	7.4	5.4
30	70	160	2,130	515	-----	237	82	36	72	12	7.4	4.9
31	68	-----	1,980	485	-----	222	-----	34	-----	12	6.8	-----
Total	11,893	3,496	56,436	30,175	9,011	11,533	6,927	1,614	932	577.8	330.0	140.4
Mean	384	117	1,821	973	322	372	231	52.1	31.1	18.6	10.6	4.68
Cfsm	0.698	0.213	3.31	1.77	0.585	0.676	0.420	0.095	0.057	0.034	0.019	0.009
In.	0.80	0.24	3.82	2.04	0.61	0.78	0.47	0.11	0.06	0.04	0.02	0.01

Calendar year 1953: Max 4,820 Min 19 Mean 668 Cfsm 1.21 In. 16.47
 Water year 1953-54: Max 3,420 Min 3.6 Mean 365 Cfsm 0.664 In. 9.00

* Discharge measurement made on this day.

Tired Creek near Cairo, Ga.

Location.--Lat 30°54', long 84°16', on left bank 140 ft upstream from highway bridge, a quarter of a mile downstream from Wolf Creek, 1 mile downstream from Atlantic Coast Line Railroad bridge, and 3 miles west of Cairo, Grady County.

Drainage area.--55 sq mi, approximately.

Records available.--July 1943 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 159.0 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--11 years, 68.3 cfs.

Extremes.--Maximum discharge during year, 1,370 cfs Dec. 7 (gage height, 7.08 ft); minimum daily, 1.1 cfs July 21.

1943-54: Maximum discharge, 28,100 cfs Apr. 1, 1948 (gage height, 16.3 ft, from floodmark), from rating curve extended above 2,500 cfs on basis of slope-area determination of peak flow; minimum daily, that of July 21, 1954.

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

Revisions (water years).--WSP 1052: 1944.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.1	1.0	4.5	141
.4	2.9	5.0	195
.7	6.0	5.5	285
1.1	12	6.0	450
2.0	32	6.5	800
3.0	64	6.7	980
4.0	108		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	62	12	22	236	50	150	29	8.6	3.5	2.4	9.2	2.2
2	50	12	21	160	47	96	25	8.4	3.3	12	8.3	2.0
3	40	12	21	123	46	58	23	*7.7	3.0	6.4	8.7	1.5
4	32	12	63	108	44	*46	21	7.3	2.8	3.8	14	1.4
5	28	28	176	100	42	41	30	6.8	2.6	3.5	10	1.3
6	24	60	329	93	41	41	120	6.1	2.4	4.3	7.3	1.4
7	22	34	905	84	41	48	80	5.9	2.3	6.3	6.3	*1.3
8	19	23	284	78	46	44	41	5.6	2.2	6.6	17	1.3
9	19	20	*150	74	46	41	30	5.4	2.1	7.9	14	1.3
10	19	19	106	76	41	38	24	5.0	2.0	7.2	9.4	1.3
11	18	18	84	129	40	36	22	4.8	1.9	4.7	6.8	2.5
12	16	17	121	137	38	36	20	4.5	1.8	3.3	4.9	2.4
13	15	16	312	100	35	35	*18	14	1.7	2.4	4.0	1.8
14	14	15	430	82	35	47	17	23	1.6	*2.0	3.4	1.8
15	14	15	297	76	35	42	16	13	1.5	1.8	3.6	2.2
16	14	15	166	74	34	34	16	9.8	1.4	1.7	3.8	2.7
17	14	15	114	74	38	31	24	8.3	1.4	1.7	3.5	3.5
18	14	15	93	64	40	30	18	7.3	2.5	1.7	3.0	5.2
19	13	15	82	*60	35	49	15	7.0	5.3	1.6	*4.1	3.4
20	13	16	78	60	35	150	14	10	4.0	1.3	3.7	2.6
21	12	21	90	60	66	96	14	10	3.0	1.1	11	2.5
22	12	29	128	80	58	48	27	7.4	2.7	2.2	42	5.4
23	12	86	496	133	44	38	22	6.0	*2.9	2.2	31	4.1
24	11	66	362	98	68	35	24	5.0	13	3.1	11	3.3
25	11	42	302	72	130	33	17	*4.6	7.0	50	6.9	2.6
26	10	38	364	64	82	31	14	4.3	7.6	42	5.2	2.6
27	*11	29	245	60	52	30	12	3.9	5.0	202	4.3	9.2
28	19	26	160	56	76	48	11	3.5	3.6	148	4.1	7.3
29	17	24	137	52	-	50	9.9	4.0	2.9	34	3.8	4.5
30	14	22	141	50	-----	41	9.3	4.3	2.5	17	*3.4	3.4
31	12	-----	236	52	-----	35	-----	4.0	-----	11	2.6	-----
Total	601	772	6,515	2,765	1,385	1,578	763.2	225.5	99.5	595.2	270.3	88.0
Mean	19.4	25.7	210	89.2	49.5	50.9	25.4	7.27	3.32	19.2	9.72	2.93
Cfam	0.353	0.467	3.82	1.62	0.900	0.925	0.462	0.132	0.060	0.349	0.159	0.053
In.	0.41	0.52	4.40	1.87	0.94	1.07	0.52	0.15	0.07	0.40	0.18	0.06

Calendar year 1953: Max 1,320 Min 3.4 Mean 66.2 Cfam 1.20 In. 16.33
 Water year 1953-54: Max 905 Min 1.1 Mean 42.9 Cfam 0.780 In. 10.59

* Peak discharge (base, 1,800 cfs).--No peak above base.

* Discharge measurement made on this day.

Note.--No gage-height record May 27 to June 22, July 21; discharge estimated on basis of weather records and records for stations on nearby streams.

Ochlockonee River near Havana, Fla.

Location--Lat 30°33', long 84°23', in sec. 24, T. 2 N., R. 2 W., on upstream side near center of span of bridge on U. S. Highway 90, three-quarters of a mile upstream from Seaboard Air Line Railroad bridge, 4 miles downstream from Mill Creek, and 5 miles southeast of Havana.

Drainage area--1,020 sq mi, approximately.

Records available--December 1928 to September 1954.

Gage--Wire-weight gage read once daily. Datum of gage is 59.16 ft above mean sea level, datum of 1929. Prior to Aug. 11, 1934, chain gage at same site and datum.

Average discharge--26 years, 961 cfs.

Extremes--Maximum discharge observed during year, 4,450 cfs Dec. 31 (gage height, 25.22 ft); minimum observed, 23 cfs Sept. 25 (gage height, 10.95 ft).
1928-54: Maximum discharge observed, 55,900 cfs Apr. 4, 1948 (gage height, 35.08 ft); minimum observed, that of Sept. 25, 1954.
Maximum stage known, that of Apr. 4, 1948.

Remarks--Records good.

Revisions (water years)--WSP 822: 1929(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 5 to Aug. 19)

10.9	21	15.0	595
11.2	35	19.0	1,520
11.5	58	23.0	2,740
12.0	108	25.0	4,210
13.0	245	26.0	5,430

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,910	189	346	4,180	1,040	996	563	187	116	141	128	37
2	2,150	180	316	3,640	996	1,070	513	173	122	128	104	34
3	2,340	173	290	3,500	949	1,220	458	*169	114	109	86	31
4	2,500	171	275	3,280	897	1,290	418	172	97	93	78	29
5	2,460	175	375	3,130	848	1,270	387	158	85	97	70	28
6	2,270	197	621	*3,000	804	1,170	385	142	78	146	65	27
7	1,950	239	1,110	2,810	761	1,040	513	131	75	142	64	26
8	1,500	309	1,400	2,600	734	916	811	122	68	107	60	26
9	1,040	319	1,700	2,370	711	817	932	113	63	150	55	*25
10	755	306	2,030	2,190	*702	759	923	107	60	142	62	26
11	605	282	2,340	2,120	700	700	883	100	73	114	62	24
12	521	258	2,800	2,000	688	641	774	95	59	97	59	24
13	456	236	3,700	1,900	661	585	647	96	54	86	54	26
14	419	218	4,180	1,900	637	555	553	96	*52	81	48	26
15	377	203	4,030	1,900	635	577	467	106	51	73	44	25
16	344	194	3,920	1,890	637	655	431	138	91	66	40	28
17	319	*186	3,830	1,840	617	677	389	141	91	62	39	29
18	295	179	3,930	1,760	591	659	346	146	149	64	36	26
19	296	173	3,860	1,670	575	589	356	142	118	63	35	26
20	298	168	3,620	1,580	569	653	378	140	102	59	34	25
21	290	172	3,310	1,500	569	804	364	136	99	55	40	24
22	276	169	3,050	1,420	631	974	330	140	97	53	36	26
23	262	238	3,030	1,370	655	1,020	304	138	86	50	54	26
24	246	278	2,720	1,330	663	*974	317	128	80	87	53	25
25	232	375	2,590	1,360	765	850	298	114	81	60	66	23
26	218	414	2,740	1,380	861	725	275	102	115	140	72	24
27	206	425	3,080	1,350	934	647	260	94	99	320	63	28
28	222	418	3,560	1,310	956	609	233	89	91	*268	55	30
29	206	392	4,120	1,240	-	605	215	88	85	256	48	26
30	200	368	4,420	1,160	-----	609	200	112	101	248	46	24
31	199	-----	4,450	1,090	-----	599	-----	112	-----	182	41	-----
Total	25,362	7,605	81,723	63,970	20,786	25,255	13,923	3,927	2,650	3,697	1,797	804
Mean	818	254	2,636	2,064	742	815	464	127	88.3	119	58.0	26.8
Cfs/m	0.602	0.249	2.58	2.02	0.727	0.799	0.455	0.125	0.087	0.117	0.057	0.026
In.	0.92	0.28	2.98	2.33	0.76	0.92	0.51	0.14	0.10	0.13	0.07	0.03
Calendar year 1953: Max	5,840				Min 80	Mean 1,059	Cfs/m 1.04	In. 14.09				
Water year 1953-54: Max	4,450				Min 23	Mean 689	Cfs/m 0.675	In. 9.17				

* Discharge measurement made on this day.

Little River near Quincy, Fla.

Location.--Lat 30°35', long 84°30', in sec. 12, T. 2 N., R. 3 W., near right bank at downstream side of bridge on State Highway 12, 0.5 mile southwest of Shady Rest, 1.1 miles downstream from confluence of Willocoochee and Attapulgis Creeks, and $\frac{1}{2}$ miles east of Quincy.

Drainage area.--250 sq mi, approximately.

Records available.--April 1950 to September 1954.

Gage.--Water-stage recorder.

Extremes.--Maximum discharge during year, 2,220 cfs Dec. 8 (gage height, 11.90 ft); minimum, 16 cfs Sept. 13, 14.

1950-54: Maximum discharge, 3,480 cfs Sept. 1, 1950 (gage height, 13.69 ft); minimum, that of Sept. 13, 14, 1954.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 8				Dec. 9 to Sept. 30			
2.2	60	9.0	858	1.0	16	3.0	125
3.0	111	10.0	1,180	1.5	33	5.0	295
7.0	516	12.0	2,290	2.0	58	7.0	516

Note.--Same as preceding table above 7.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	340	78	123	558	228	410	179	55	62	39	56	35
2	273	74	117	540	220	454	150	53	50	40	47	27
3	221	73	112	498	214	396	136	*51	43	31	48	23
4	193	72	166	432	208	290	127	51	38	29	51	21
5	172	95	418	382	199	234	119	48	34	37	56	21
6	143	203	582	*348	194	206	135	45	31	55	62	20
7	121	220	982	324	190	228	207	43	29	52	48	19
8	107	176	2,060	303	193	230	240	41	28	39	37	19
9	100	135	1,530	290	197	214	243	40	27	71	51	*19
10	99	107	973	291	*196	197	183	39	26	74	53	19
11	93	93	565	441	190	184	123	39	30	55	44	20
12	88	86	412	476	185	177	109	38	49	45	35	19
13	83	82	610	447	175	175	108	46	51	35	30	18
14	79	78	991	398	170	227	123	53	*39	31	28	16
15	76	77	1,600	335	168	272	109	58	38	28	25	18
16	75	77	1,380	311	167	223	95	55	72	28	24	23
17	77	77	934	297	169	180	108	50	108	27	23	28
18	86	*76	573	283	169	162	108	46	130	28	22	27
19	82	75	395	271	170	184	97	43	107	28	22	27
20	75	78	340	263	170	392	86	59	93	25	21	24
21	71	113	366	259	240	466	78	70	70	23	23	22
22	68	149	438	282	260	393	83	57	52	21	67	24
23	66	357	796	373	234	272	110	48	42	25	75	25
24	64	395	1,190	385	242	*211	98	42	36	86	49	24
25	63	371	1,540	349	359	180	84	39	37	60	37	26
26	61	307	1,350	308	386	167	78	36	57	125	45	33
27	69	268	1,200	280	328	159	74	38	70	450	51	41
28	126	201	1,040	263	280	200	70	39	43	*311	39	35
29	131	158	790	253	-	233	64	77	36	216	39	30
30	106	133	590	236	-----	228	59	82	32	139	40	26
31	87	-----	543	230	-----	214	-----	87	-----	84	51	-----
Total	3,495	4,484	24,706	10,676	6,101	7,758	3,583	1,568	1,560	2,337	1,299	729
Mean	113	149	797	344	218	250	119	50.6	52.0	75.4	41.9	24.3
Cfsm	0.452	0.596	3.19	1.38	0.872	1.00	0.476	0.202	0.208	0.302	0.168	0.097
In.	0.52	0.67	3.68	1.59	0.91	1.15	0.53	0.23	0.23	0.35	0.19	0.11

Calendar year 1953: Max 2,200 Min 26 Mean 276 Cfsm 1.10 In. 14.96

Water year 1953-54: Max 2,060 Min 16 Mean 187 Cfsm 0.748 In. 10.16

Peak discharge (base, 1,500 cfs).--Dec. 8 (6:30 a.m.) 2,220 cfs (11.90 ft); Dec. 15 (3 p.m.) 1,700 cfs (11.07 ft); Dec. 25 (12 m.) 1,560 cfs (10.83 ft).

* Discharge measurement made on this day.

OCHLOCKONEE RIVER BASIN

Telogia Creek near Bristol, Fla.

Location.--Lat 30°25'35", long 84°55'40", in sec. 3, T. 1 S., R. 7 W., near left bank at downstream side of bridge on State Highway 20, 600 ft upstream from White Branch and 3 miles east of Bristol.

Drainage area.--130 sq mi.

Records available.--March 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 99.50 ft above mean sea level, datum of 1929 (Florida State Road Department benchmark).

Extremes.--Maximum discharge during year, 1,220 cfs Dec. 24 (gage height, 7.00 ft); minimum, 28 cfs Sept. 14 (gage height, 1.35 ft).

1950-54: Maximum discharge, 4,080 cfs Mar. 20, 1951 (gage height, 8.35 ft); minimum, that of Sept. 14, 1954.

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

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.3	26	5.0	305
2.0	56	6.0	555
3.0	104	6.5	791
4.0	177	7.0	1,220

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	254	110	122	371	184	260	149	74	103	48	52	39
2	248	102	119	365	176	296	118	72	79	46	60	40
3	265	94	112	307	160	260	106	89	68	46	52	37
4	217	96	207	270	154	169	101	*74	59	51	51	32
5	172	123	391	*257	150	139	106	74	56	52	56	32
6	137	187	618	237	143	128	117	70	53	60	50	32
7	123	206	872	226	141	147	112	63	52	56	46	31
8	112	169	831	214	142	167	100	59	48	52	55	*31
9	105	122	601	208	*147	145	92	61	50	68	61	32
10	108	110	398	209	139	127	104	58	50	98	55	35
11	108	108	292	284	*133	119	173	55	57	125	55	37
12	98	100	299	362	135	114	114	55	75	94	48	32
13	98	94	445	389	130	114	92	58	82	72	44	29
14	97	94	837	319	124	120	94	58	71	62	57	28
15	94	93	1,030	257	124	146	120	59	*56	57	50	35
16	88	*91	671	227	122	151	112	61	91	84	44	43
17	100	91	440	218	121	119	112	60	95	92	39	44
18	154	92	329	210	121	104	122	54	88	72	45	42
19	138	89	275	198	119	127	96	61	104	63	40	39
20	105	97	249	191	120	276	82	84	97	52	39	38
21	99	163	294	187	158	391	81	76	110	52	37	34
22	94	269	384	234	187	387	84	63	74	52	44	32
23	87	442	706	319	175	*179	76	60	66	49	42	34
24	84	541	1,080	358	166	129	105	57	70	49	40	33
25	87	498	785	332	244	116	201	52	69	76	42	31
26	85	334	585	252	307	110	150	57	79	194	48	35
27	140	240	552	208	281	106	124	56	63	*176	45	87
28	283	176	474	205	206	129	98	56	56	122	39	55
29	286	144	391	253	-	201	85	69	49	93	40	54
30	228	126	356	257	-----	253	78	196	52	68	45	49
31	160	-----	360	198	-----	201	-----	150	-----	56	38	-----
Total	4,454	5,201	15,105	8,122	4,509	5,430	3,304	2,191	2,122	2,337	1,457	1,152
Mean	144	173	487	262	161	175	110	70.7	70.7	75.4	47.0	38.4
Cfsm	1.11	1.35	3.75	2.02	1.24	1.35	0.846	0.544	0.544	0.580	0.362	0.295
In.	1.27	1.49	4.32	2.32	1.29	1.55	0.95	0.63	0.61	0.67	0.42	0.33
Calendar year 1953: Max			2,060	Min	30	Mean	182	Cfsm	1.40	In.	18.95	
Water year 1953-54: Max			1,080	Min	28	Mean	152	Cfsm	1.17	In.	15.85	

Peak discharge (base, 1,500 cfs).--No peak above base.

* Discharge measurement made on this day.

Chattahoochee River near Leaf, Ga.

Location.--Lat 34°35', long 83°38', on left bank 700 ft upstream from bridge on State Highway 115, 1½ miles east of Leaf, White County, 2½ miles downstream from Blue Creek, 3 miles upstream from Soque River, 7½ miles southeast of Cleveland, and at mile 405.6.

Drainage area.--150 sq mi.

Records available.--May to December 1907 (fragmentary), February 1940 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 1,219.47 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. May 8 to Dec. 31, 1907, staff gage at site 700 ft downstream at different datum.

Average discharge.--14 years (1940-54), 396 cfs.

Extremes.--Maximum discharge during year, 10,200 cfs Jan. 16 (gage height, 11.2 ft); minimum daily, 82 cfs Sept. 28, 29.

1940-54: Maximum discharge, 14,100 cfs Jan. 7, 1946 (gage height, 13.6 ft); minimum daily, 72 cfs Oct. 26, 1941.

Remarks.--Records good except those for period of no gage-height record, which are fair. Diurnal fluctuation at low flow caused by milldams above station.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.3	71	3.0	775
1.6	120	5.0	2,400
2.0	245	8.2	5,960
2.5	480		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	177	125	151	310	510	762	854	513	700	287	197	116
2	168	122	145	300	500	558	663	488	706	230	168	114
3	160	122	148	305	480	581	604	480	530	230	162	112
4	154	122	716	287	470	524	564	459	449	237	157	112
5	148	122	413	279	460	496	535	*428	389	230	145	103
6	142	122	518	270	440	475	598	413	351	222	142	101
7	140	120	586	266	430	454	775	408	337	215	157	*99
8	140	120	365	262	420	438	750	399	314	207	142	96
9	138	120	1,500	253	410	433	669	389	300	269	198	99
10	140	118	1,310	258	*418	418	581	384	292	258	184	105
11	132	120	586	287	428	413	564	374	292	348	151	120
12	132	118	1,120	258	408	530	351	310	241	138	96	96
13	130	118	737	245	394	408	518	370	292	222	142	97
14	142	118	980	249	389	682	524	475	300	218	135	96
15	154	118	639	449	384	491	508	404	*296	211	152	94
16	140	116	508	5,850	394	444	639	374	370	200	130	93
17	132	114	428	1,180	470	423	706	360	910	197	125	94
18	130	114	379	750	394	418	592	365	524	190	118	94
19	130	116	356	622	379	552	541	384	404	222	120	89
20	125	158	337	558	1,630	669	513	374	360	237	120	89
21	125	438	449	2,130	2,120	524	502	365	332	190	177	91
22	125	382	502	4,000	839	475	491	360	314	197	174	94
23	125	413	475	2,200	541	480	480	351	305	187	157	89
24	120	241	404	1,200	508	*569	475	332	292	174	171	86
25	120	230	370	940	470	581	498	300	274	168	205	85
26	122	194	346	740	454	663	480	296	270	177	148	83
27	165	177	328	680	428	854	541	296	258	184	142	86
28	*157	171	318	630	592	854	564	296	249	197	138	82
29	140	160	318	550	-	675	586	341	241	*174	140	82
30	132	157	*360	550	-	622	518	323	237	162	140	*85
31	130	-----	328	530	-----	744	-----	300	-----	192	122	-----
Total	4,315	4,964	16,196	27,398	15,560	17,088	17,361	11,750	11,198	6,673	4,695	2,882
Mean	139	165	522	884	556	551	579	379	373	215	151	96.1
Cfsm	0.927	1.10	3.48	5.89	3.71	3.67	3.66	2.53	2.49	1.43	1.01	0.641
In.	1.07	1.23	4.01	6.79	3.86	4.23	4.31	2.92	2.78	1.65	1.16	0.72

Calendar year 1953: Max 2,970 Min 105 Mean 360 Cfsm 2.40 In. 32.55
 Water year 1953-54: Max 5,850 Min 82 Mean 384 Cfsm 2.56 In. 34.73

Peak discharge (base, 2,700 cfs).--Dec. 9 (6 p.m.) 3,190 cfs (5.8 ft); Jan. 16 (10 a.m.) 10,200 cfs (11.2 ft); Jan. 22 (time unknown) 6,220 cfs (8.4 ft); Feb. 20 (8 p.m.) 4,980 cfs (7.4 ft).

* Discharge measurement made on this day.

Note.--No gage-height record Jan. 22 to Feb. 9; discharge estimated on basis of records for Chestatee River near Dahlonega and Chattahoochee River near Gainesville.

APALACHICOLA RIVER BASIN

Chattahoochee River near Gainesville, Ga.

Location.--Lat 34°20', long 83°52', on right bank 1,100 ft upstream from State Highway 53, half a mile upstream from Eddie Creek, 3½ miles downstream from Little River, 4 miles northwest of Gainesville, Hall County, 6 miles upstream from Chestatee River, and at mile 368.8.

Drainage area.--559 sq mi.

Records available.--June 1901 to December 1903, April 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 974.98 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. June 26, 1901, to Dec. 31, 1903, chain gage at site 2½ miles upstream at different datum. Apr. 28, 1937, to Dec. 31, 1938, staff gage at site three-quarters of a mile downstream at present datum.

Average discharge.--17 years (1937-54), 1,184 cfs.

Extremes.--Maximum discharge during year, 21,400 cfs Jan. 17 (gage height, 18.8 ft); minimum daily, 215 cfs Sept. 26.
1901-3, 1937-54: Maximum discharge, 45,800 cfs Jan. 7, 1946 (gage height, 26.2 ft, from floodmark); minimum daily, that of Sept. 26, 1954.

Remarks.--Records good.

Revisions (water years).--WSP 922: Drainage area. WSP 952: 1940(P). WSP 1234: 1946-48.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 11 to Mar. 31)

Oct. 1 to Mar. 30				Apr. 1 to Sept. 30			
1.3	370	6.0	4,300	1.1	170	2.0	860
2.0	950	10.0	8,400	1.5	470	4.0	2,550
4.0	2,550	13.2	12,600				

Note.--Same as preceding table above 4.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	666	490	615	950	1,590	2,470	3,670	1,360	996	716	522	395
2	658	*458	606	918	1,510	1,790	2,300	1,360	2,120	748	508	388
3	659	530	606	918	1,470	1,670	1,910	1,360	1,320	716	515	*380
4	556	530	2,070	942	1,430	1,630	1,740	1,530	1,320	598	485	380
5	530	538	1,910	886	1,350	1,470	1,660	1,320	1,100	644	478	305
6	590	547	2,070	862	1,270	1,390	1,660	*1,230	1,020	652	455	252
7	581	547	1,790	836	1,270	1,350	2,640	1,230	980	660	485	320
8	572	490	1,270	810	*1,230	1,310	2,040	1,190	948	652	425	335
9	572	466	1,700	802	1,190	1,270	2,550	1,230	892	908	462	342
10	572	522	*4,970	717	1,150	1,230	1,780	1,150	876	884	582	432
11	498	530	1,990	810	1,150	1,230	1,700	1,100	884	660	515	372
12	482	530	3,490	853	1,150	1,190	1,620	1,100	940	716	470	320
13	547	530	3,140	802	1,070	1,190	1,530	1,100	844	660	455	*298
14	556	530	3,230	794	1,030	2,150	1,530	1,320	*860	628	470	350
15	649	474	2,310	910	1,030	1,590	1,490	1,320	900	660	380	350
16	606	450	1,670	12,500	1,030	1,350	1,490	1,150	1,060	644	365	358
17	590	530	1,390	11,300	1,270	1,270	1,980	1,100	1,490	628	425	335
18	490	530	1,190	2,890	1,110	1,230	1,660	1,100	1,870	508	418	305
19	474	530	1,070	2,150	1,030	1,390	1,530	1,100	1,100	515	425	382
20	530	556	990	1,790	1,660	2,150	1,440	1,060	980	620	440	275
21	538	1,110	1,070	3,220	4,800	1,590	1,660	1,060	916	605	440	335
22	530	1,030	1,350	9,160	2,150	*1,190	1,360	1,010	884	612	462	342
23	530	1,470	1,390	12,400	1,710	1,350	1,320	996	852	605	478	335
24	530	950	1,190	3,850	1,550	1,430	1,700	988	836	582	590	335
25	466	810	1,070	*2,980	1,470	1,630	2,210	964	804	465	668	275
26	442	768	1,030	2,470	1,350	1,670	1,620	940	772	462	522	215
27	530	726	950	2,230	1,270	2,740	1,490	924	732	*598	470	*222
28	606	692	926	2,070	1,510	3,760	1,440	916	740	560	462	282
29	606	564	1,110	1,910	-	2,230	1,490	1,000	732	545	462	312
30	581	530	1,190	1,830	-----	1,910	1,620	980	708	538	372	320
31	572	-----	1,070	1,670	-----	1,910	-----	916	-----	530	418	-----
Total	17,308	18,958	50,423	87,230	40,800	51,730	53,510	35,104	30,476	19,539	14,624	9,747
Mean	558	632	1,627	2,814	1,457	1,668	1,784	1,132	1,016	630	472	325
Cfsm	0.998	1.13	2.91	5.03	2.61	2.99	3.19	2.03	1.82	1.13	0.844	0.581
In.	1.15	1.26	3.36	5.80	2.72	3.45	3.56	2.34	2.03	1.30	0.97	0.65

Calendar year 1953: Max 9,600 Min 394 Mean 1,194 Cfsm 2.14 In. 29.00
Water year 1953-54: Max 12,500 Min 215 Mean 1,177 Cfsm 2.11 In. 28.59

Peak discharge (base, 9,000 cfs).--Jan. 17 (1 a.m.) 21,400 cfs (18.8 ft); Jan. 23 (5 a.m.) 17,000 cfs (16.3 ft)

* Discharge measurement made on this day.

Chestatee River near Dahlonega, Ga.

Location.--Lat 34°32', long 83°56', on left bank 250 ft upstream from Bearden Bridge on State Highway 43, 2 miles downstream from Ballplay Creek, 2½ miles east of Dahlonega, Lumpkin County, and 3½ miles upstream from Yahoola Creek.

Drainage area.--153 sq mi.

Records available.--July 1929 to December 1931, April 1940 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 1,128.6 ft above mean sea level (levels by Corps of Engineers).

Average discharge.--16 years, 342 cfs.

Extremes.--Maximum discharge during year, 10,200 cfs Jan. 16 (gage height, 17.6 ft); minimum daily, 60 cfs Sept. 29.

1929-31, 1940-54: Maximum discharge, 15,300 cfs Jan. 7, 1946 (gage height, 22.1 ft); minimum daily, 49 cfs Oct. 4, 1931, Oct. 26, 1941.

Flood of Aug. 12, 1907, reached a stage of about 25 ft, from information by local resident. Flow increased by failure of dam above station.

Remarks.--Records good. Moderate diurnal fluctuation at times caused by milldam above station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Nov. 11

Nov. 12 to Sept. 30

1.2	102	0.6	50	3.0	670
1.5	165	.7	63	5.0	1,370
		.9	92	7.0	2,220
		1.2	148	9.0	3,180
		1.6	244	12.7	5,510

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	160	113	132	300	465	570	810	360	297	155	155	94
2	151	112	130	286	450	450	585	351	420	189	122	90
3	142	112	134	297	435	480	525	405	405	163	118	86
4	138	112	531	278	420	435	480	390	351	170	111	84
5	134	112	345	264	405	405	450	*342	292	155	104	82
6	132	113	390	255	390	390	495	327	266	157	104	82
7	123	113	465	244	378	375	555	318	252	144	109	*80
8	123	115	297	239	369	363	525	312	239	140	102	80
9	123	115	*1,330	234	360	354	495	300	231	247	180	84
10	121	115	1,230	236	*354	351	450	294	223	221	134	99
11	119	117	555	266	354	348	435	292	231	266	111	109
12	117	118	950	239	345	345	420	293	286	172	102	86
13	115	118	670	228	330	387	405	312	221	157	106	83
14	117	117	862	228	330	618	420	405	213	150	102	80
15	129	117	585	473	324	435	390	339	*297	150	102	78
16	123	117	465	5,480	333	390	495	309	372	142	95	77
17	117	115	387	1,230	405	375	555	292	303	140	89	76
18	115	111	345	775	333	363	465	289	266	134	86	76
19	113	109	312	618	324	532	420	283	244	138	84	74
20	113	132	294	555	663	585	405	280	228	132	90	73
21	112	300	405	1,580	722	480	390	266	216	140	136	71
22	112	292	495	2,580	480	435	381	258	206	184	138	70
23	112	332	480	1,780	420	*435	390	252	201	148	113	70
24	110	194	405	1,090	405	465	390	250	196	136	122	69
25	108	196	354	862	384	450	390	244	187	130	155	67
26	108	170	324	722	363	525	387	241	182	132	111	64
27	138	152	300	688	348	722	369	239	177	148	120	63
28	142	144	300	600	465	740	357	239	170	150	130	62
29	125	138	405	555	-	585	390	311	161	*130	150	60
30	117	136	366	525	-	540	375	292	157	120	118	*62
31	113	-	324	495	-	688	-	244	-	120	100	-
Total	3,822	4,357	14,567	24,202	11,354	14,616	13,599	9,319	7,490	4,830	3,599	2,331
Mean	123	145	470	781	406	471	453	301	250	156	116	77.7
Cfsm	0.804	0.948	3.07	5.10	2.65	3.08	2.96	1.97	1.63	1.02	0.758	0.508
In.	0.93	1.06	3.54	5.88	2.76	3.55	3.30	2.27	1.82	1.18	0.87	0.57

Calendar year 1953: Max 2,320 Min 94 Mean 326 Cfsm 2.13 In. 28.94
 Water year 1953-54: Max 5,480 Min 60 Mean 313 Cfsm 2.05 In. 27.73

Peak discharge (base, 2,600 cfs)--Jan. 16 (9 a.m.) 10,200 cfs (17.6 ft); Jan. 22 (3 p.m.) 3,630 cfs (9.9 ft).

* Discharge measurement made on this day.

Chattahoochee River near Buford, Ga.

Location.--Lat 34°08', long 84°06', at downstream end of left bank pier of bridge on State Highway 20, three-quarters of a mile upstream from Dave Creek, 4 miles downstream from Bald Ridge Creek, 5 miles west of Buford, Gwinnett County, and at mile 345.7.

Drainage area.--1,060 sq mi, approximately.

Records available.--June to December 1901 (gage heights only), January 1942 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 905.20 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. June 24 to Dec. 21, 1901, staff gage at site 1,000 ft downstream at different datum. Jan. 27, 1942, to Dec. 3, 1944, staff gage, and Dec. 4, 1944, to Dec. 31, 1947, water-stage recorder, at site 1,000 ft downstream at present datum.

Average discharge.--12 years (1942-54), 2,236 cfs.

Extremes.--Maximum discharge during year, 28,900 cfs Jan. 17 (gage height, 25.9 ft); minimum, 373 cfs Sept. 27.

1942-54: Maximum discharge, 55,000 cfs Jan. 8, 1946 (gage height, 32.6 ft, from floodmark), from rating curve extended above 13,000 cfs by logarithmic plotting, on basis of peak flows passing upstream and downstream stations; minimum, 342 cfs Sept. 10, 1951.

Remarks.--Records good.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,230	860	935	1,980	2,570	3,660	6,290	2,170	1,450	1,010	785	710
2	1,150	780	980	1,850	2,500	3,000	4,010	2,040	2,570	1,040	810	855
3	1,090	780	960	1,790	2,450	2,570	3,160	2,170	2,560	1,030	780	*630
4	1,040	*835	1,940	1,790	2,300	2,300	2,860	2,430	2,170	985	710	620
5	910	835	3,920	1,730	2,240	2,300	2,710	2,040	1,850	910	685	595
6	910	835	2,240	1,670	2,170	2,170	2,570	*1,910	1,620	960	660	483
7	960	835	2,710	1,620	2,040	2,040	3,160	1,910	1,560	960	660	449
8	935	810	2,500	1,560	2,040	2,040	3,480	1,910	1,500	960	685	525
9	910	760	2,040	1,500	*1,980	2,040	3,480	1,790	1,400	1,010	760	*530
10	935	760	8,450	1,450	1,980	1,910	2,860	1,790	1,400	1,790	1,180	585
11	910	810	4,770	1,500	1,910	1,910	2,570	1,670	1,400	1,200	910	625
12	810	810	4,580	1,620	1,910	1,910	2,570	1,670	1,560	1,180	785	580
13	835	810	6,860	1,500	1,850	1,910	2,430	1,790	*1,450	1,040	710	*488
14	885	810	5,620	1,450	1,790	2,860	2,300	2,170	*1,710	960	735	449
15	925	810	5,060	1,620	1,790	2,710	2,300	2,170	1,560	985	685	510
16	1,040	735	3,160	13,200	1,790	2,170	2,300	1,910	*1,670	960	585	515
17	935	735	2,570	25,600	1,980	2,040	3,000	1,790	1,850	910	535	530
18	910	810	2,240	8,480	1,980	1,910	2,710	1,670	2,640	885	635	498
19	785	810	2,040	4,390	1,790	2,170	2,430	1,670	1,910	760	660	465
20	810	835	1,850	3,570	2,170	3,480	2,300	1,670	1,560	835	620	425
21	860	1,200	1,910	4,300	6,860	2,710	2,170	1,670	1,450	885	660	429
22	860	1,910	2,430	12,200	3,740	2,300	2,170	1,560	1,370	985	885	515
23	835	2,100	2,710	18,900	2,710	*2,170	2,040	1,560	1,280	1,040	810	525
24	835	1,850	2,430	10,600	2,360	2,300	2,430	1,560	1,510	910	785	506
25	810	1,940	2,100	*5,530	2,300	2,430	3,000	1,560	1,230	835	1,250	492
26	735	1,280	1,980	4,390	2,100	2,710	2,570	1,450	1,180	710	985	405
27	760	1,180	1,850	3,830	2,040	3,830	2,300	1,450	1,120	*910	835	*385
28	910	1,120	*1,790	3,480	2,240	7,240	2,170	1,450	1,090	910	785	381
29	985	1,040	2,170	3,160	-	4,010	2,170	1,580	1,060	860	885	453
30	910	910	2,570	2,860	-----	3,160	2,300	1,580	1,010	810	785	461
31	885	-----	2,170	2,710	-----	3,160	-----	1,450	-----	835	710	-----
Total	28,300	30,555	89,495	151,830	65,560	83,120	82,810	55,170	47,290	30,120	23,970	15,409
Mean	913	1,018	2,887	4,898	2,341	2,681	2,760	1,780	1,576	972	773	514
Cfs/m	0.861	0.960	2.72	4.62	2.21	2.53	2.60	1.68	1.49	0.917	0.729	0.485
In.	0.99	1.07	3.14	5.33	2.30	2.92	2.90	1.94	1.66	1.06	0.84	0.54

Calendar year 1953: Max 14,700 Min 568 Mean 2,059 Cfs/m 1.94 In. 26.36
 Water year 1953-54: Max 25,600 Min 381 Mean 1,928 Cfs/m 1.92 In. 24.69

Peak discharge (base, 10,000 cfs).--Dec. 10 (5 p.m.) 10,200 cfs (15.2 ft); Jan. 17 (1 p.m.) 28,900 cfs (25.9 ft); Jan. 23 (7 p.m.) 20,800 cfs (22.4 ft).

* Discharge measurement made on this day.

Chattahoochee River near Roswell, Ga.

Location.--Lat 34°00', long 84°20', on right bank $1\frac{1}{2}$ miles upstream from Big Creek and bridge on U. S. Highway 19, 2 miles southeast of Roswell, Fulton County, and at mile 318.8.

Drainage area.--1,230 sq mi, approximately.

Records available.--October 1941 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 849.50 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Average discharge.--13 years, 2,392 cfs.

Extremes.--Maximum discharge during year, 28,100 cfs Jan. 18 (gage height, 17.7 ft); minimum, 344 cfs Sept. 29 (gage height, 1.48 ft).

1941-54: Maximum discharge, 56,000 cfs Jan. 8, 1946 (gage height, 23.4 ft, from floodmark), from rating curve extended above 30,000 cfs on basis of computation of peak flow over Morgan Falls Dam 6 miles below station; minimum, that of Sept. 29, 1954.

Remarks.--Records good except those for period of no gage-height record, which are fair. Slight diurnal fluctuation at low flow.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 22 to Nov. 23, Apr. 27 to July 3)

Oct. 1 to Mar. 28

Mar. 29 to Sept. 30

2.2	820	10.0	9,520	1.4	300	4.0	2,130
3.0	1,330	14.0	17,400	2.0	630	5.5	3,550
6.0	4,100	16.4	23,900				

Note.--Same as preceding table above 5.5 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,290	940	880	2,150	*2,870	*3,660	5,860	2,390	1,610	1,060	870	690
2	1,190	910	940	1,970	2,780	3,770	5,730	2,300	2,010	1,060	*855	852
3	1,120	850	940	1,840	2,690	2,870	3,880	2,300	2,930	1,140	869	630
4	1,090	820	2,200	1,840	2,600	2,780	3,330	2,570	2,210	1,200	827	602
5	1,060	850	4,320	1,760	2,510	2,600	3,020	2,480	2,130	1,100	778	592
6	970	880	2,780	1,680	2,420	2,420	2,840	2,130	1,810	1,000	738	564
7	940	880	2,330	1,640	2,330	2,330	2,930	2,050	1,650	920	720	465
8	940	880	2,960	1,580	2,240	2,240	4,100	2,050	1,570	900	758	*448
9	910	880	2,100	1,520	2,200	2,200	3,440	2,010	1,530	1,000	785	509
10	910	850	6,010	1,520	2,150	2,150	3,550	1,930	1,450	1,100	1,250	520
11	910	820	7,080	1,440	2,100	2,100	2,930	*1,890	*1,410	1,300	1,100	575
12	880	850	4,320	1,580	2,150	2,060	2,750	1,850	1,770	1,600	925	597
13	850	850	7,660	1,560	2,060	2,100	2,660	1,970	1,610	1,300	792	553
14	820	850	5,990	1,440	1,970	2,690	2,570	2,300	1,410	1,100	757	*482
15	880	850	5,990	1,480	1,920	3,550	2,660	2,480	1,970	1,200	750	460
16	1,000	850	3,660	10,600	1,920	2,600	2,570	1,260	1,810	1,100	702	509
17	1,000	850	2,780	19,400	2,100	2,330	2,930	2,010	1,930	1,100	614	520
18	970	820	2,420	*23,900	2,330	2,200	3,220	1,930	2,570	1,000	732	531
19	910	850	2,100	6,050	2,020	2,240	2,750	1,930	2,660	920	813	492
20	850	850	1,920	3,880	2,150	3,250	2,570	1,890	1,890	860	714	465
21	820	940	1,920	3,680	5,580	3,450	2,480	1,850	1,650	800	690	*418
22	880	1,720	2,190	10,200	5,470	2,780	2,390	1,770	1,490	800	785	428
23	910	1,680	2,690	15,600	3,150	2,510	2,390	1,730	1,450	1,000	876	476
24	880	2,330	2,690	19,200	2,690	2,510	2,480	1,690	1,410	1,100	827	482
25	880	1,580	2,240	7,760	2,510	2,690	2,930	1,690	1,370	1,000	960	460
26	880	1,260	2,020	4,870	2,380	3,050	3,330	1,650	1,290	940	1,170	438
27	820	1,150	1,880	4,100	2,240	3,450	2,570	1,610	1,250	860	890	372
28	*850	1,060	1,800	3,770	2,330	7,660	2,380	1,570	1,170	900	792	*350
29	970	1,000	2,020	3,450	-	5,470	2,390	1,610	1,140	960	827	355
30	1,000	*940	*2,690	3,250	-----	3,880	2,480	1,770	*1,100	910	848	416
31	970	-----	2,510	3,050	-----	*3,440	-----	1,730	-----	880	*708	-----
Total	29,350	31,020	94,030	167,700	71,860	93,030	92,120	61,390	51,250	32,110	25,702	15,047
Mean	947	1,034	3,033	5,410	2,566	3,001	3,071	1,980	1,708	1,036	829	502
Cfs/m	0.770	0.841	2.47	4.40	2.09	2.44	2.50	1.61	1.39	0.842	0.674	0.408
In.	0.89	0.94	2.85	5.07	2.18	2.81	2.79	1.86	1.55	0.97	0.78	0.46

Calendar year 1953: Max 16,700 Min 655 Mean 2,270 Cfs/m 1.85 In. 25.07
Water year 1953-54: Max 23,900 Min 350 Mean 2,095 Cfs/m 1.70 In. 23.15

Peak discharge (base, 12,000 cfs).--Jan. 18 (6 a.m.) 28,100 cfs (17.7 ft); Jan. 24 (12 m.) 20,700 cfs (15.3 ft).

* Discharge measurement made on this day.

Note.--No gage-height record July 4 to Aug. 1; discharge estimated on basis of records for stations near Buford and at Atlanta.

Chattahoochee River at Atlanta, Ga.

Location.--Lat 33°52', long 84°27', on left bank 20 ft upstream from Pace Ferry Bridge at Atlanta, Fulton County, 1 mile downstream from Rotten Wood Creek, 2½ miles upstream from Peachtree Creek, and at mile 303.0.

Drainage area.--1,450 sq mi, approximately.

Records available.--August 1928 to December 1931, November 1936 to September 1954. Prior to October 1951, published as "near Vinings".

Gage.--Water-stage recorder. Datum of gage is 750.10 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Aug. 3, 1928, to Dec. 31, 1931, water-stage recorder, and Nov. 15, 1936, to Mar. 8, 1937, staff gage, at same site and datum.

Average discharge.--20 years (1928-31, 1937-54), 2,576 cfs.

Extremes.--Maximum discharge during year, 27,400 cfs Jan. 18 (gage height, 19.3 ft); minimum daily, 346 cfs Sept. 28, 29.

1928-31, 1936-54: Maximum discharge, 59,000 cfs Jan. 9, 1946 (gage height, 28.0 ft); minimum daily, that of Sept. 28, 29, 1954.

Remarks.--Records good except those for period of no gage-height record, which are fair. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant 9½ miles above station.

Revisions (water years).--WSP 972: 1932.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Mar. 2 to Apr. 17, June 4 to July 10)

1.7	335	4.0	2,450
2.2	620	12.0	15,000
3.0	1,310	18.3	24,900

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,460	984	993	2,450	*3,300	*4,000	5,460	2,750	1,830	1,150	957	634
2	1,310	939	1,060	2,240	3,140	4,340	6,620	2,520	1,940	1,210	882	641
3	1,200	834	1,110	2,120	3,060	3,300	4,500	2,520	3,700	1,230	*890	620
4	1,120	850	2,750	2,060	2,820	2,980	3,700	2,820	2,600	1,200	802	584
5	1,080	914	4,500	2,000	2,820	2,900	3,220	2,820	2,520	1,070	754	572
6		948	948	3,620	1,940	2,750	3,060	2,380	2,060	1,020	746	560
7		966	948	2,680	1,880	2,600	3,060	2,240	1,880	1,010	690	467
8		1,000	957	3,300	1,830	2,520	2,310	4,340	2,240	1,780	1,220	730
9		966	914	2,520	1,720	2,450	2,240	3,700	2,180	1,720	1,200	762
10		948	882	4,630	1,780	2,450	2,240	4,020	2,120	1,610	1,300	1,170
11		957	850	8,150	1,660	2,450	2,180	3,140	2,060	1,560	1,830	1,200
12		957	930	4,660	1,780	2,450	2,120	3,060	2,060	1,940	1,290	922
13		850	906	7,300	1,780	2,380	2,120	2,900	*2,520	1,780	1,290	818
14		874	906	7,300	1,660	2,310	2,750	2,820	2,820	1,610	1,190	730
15		966	930	6,620	1,720	2,240	3,660	2,820	2,900	2,060	1,260	738
16		1,020	939	4,660	12,900	2,240	2,750	2,900	2,600	2,120	1,120	738
17		1,060	842	3,300	17,500	2,520	2,380	3,060	2,310	2,120	1,060	648
18		1,000	850	2,750	*24,900	2,680	2,240	3,780	2,120	2,750	1,030	599
19		975	922	2,380	11,300	2,380	2,310	3,140	2,180	3,540	939	1,040
20		834	939	2,180	4,820	2,820	3,140	2,820	2,120	2,120	866	786
21		874	1,060	2,180	4,500	5,300	4,020	2,680	2,060	1,830	866	714
22		906	1,610	2,380	10,900	a7,000	2,900	2,600	2,000	1,660	1,050	730
23		930	2,060	2,980	15,600	a5,000	2,600	2,520	1,940	1,560	1,140	906
24		898	2,310	2,980	18,900	a3,500	2,600	2,520	1,940	1,510	1,140	834
25		882	1,780	2,520	12,500	a3,000	2,750	3,060	1,880	1,510	1,020	866
26		882	1,510	2,240	5,620	a2,800	3,300	3,780	1,880	1,410	914	1,240
27		802	1,350	2,120	4,820	a2,700	4,020	2,900	1,830	1,310	966	346
28		*890	1,270	2,060	4,500	a2,700	7,130	2,600	1,780	1,280	1,030	794
29		1,030	1,230	2,310	4,020	-	6,620	2,680	1,830	1,210	984	802
30		1,040	1,110	*3,220	3,700	-----	4,340	2,750	2,000	*1,180	957	858
31		1,000	-----	2,980	3,460	-----	*3,860	-----	2,000	-----	890	*738
Total	30,625	33,484	104,433	188,560	84,380	99,350	100,210	69,420	57,700	34,442	26,032	14,769
Mean	988	1,116	3,369	6,093	3,014	3,205	3,340	2,259	1,923	1,111	840	492
Cfsm	0.681	0.770	2.32	4.20	2.08	2.21	2.30	1.54	1.33	0.766	0.579	0.339
In.	0.79	0.86	2.68	4.84	2.17	2.53	2.57	1.48	0.88	0.67	0.38	
Calendar year 1953: Max			17,300	Min	634	Mean	2,518	Cfsm	1.74	In.	23.58	
Water year 1953-54: Max			24,900	Min	346	Mean	2,311	Cfsm	1.59	In.	21.65	

Peak discharge (base, 13,000 cfs).--Jan. 18 (3 p.m.) 27,400 cfs (19.3 ft); Jan. 24 (7 p.m.) 19,900 cfs (15.7 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for station at Roswell.

Sweetwater Creek near Austell, Ga.

Location.--Lat 33°46', long 84°37', on right bank 400 ft upstream from Blair Bridge, 3 miles southeast of Austell, Cobb County, and 5½ miles upstream from mouth.

Drainage area.--246 sq mi.

Records available.--May 1904 to December 1905, November to December 1913, March 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 857.01 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). May 6, 1904, to Dec. 31, 1905, and Nov. 3 to Dec. 27, 1913, staff gage at site 2½ miles upstream at different datum. Mar. 24 to Nov. 29, 1937, staff gage at present site and datum.

Average discharge.--17 years (1937-54), 307 cfs.

Extremes.--Maximum discharge during year, 3,490 cfs Jan. 17 (gage height, 10.4 ft); minimum, 2.2 cfs Sept. 30. 1904-5, 1913, 1937-54: Maximum discharge, 7,970 cfs Nov. 29, 1948 (gage height, 18.4 ft); minimum, that of Sept. 30, 1954.

Flood of July 8, 1916, reached a stage of about 20.0 ft, from information by local resident (discharge, 8,980 cfs, from rating curve extended above 6,500 cfs by logarithmic plotting).

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

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Sept. 19				Sept. 20-30	
-0.9	3.3	0.9	106	-0.7	2.5
-.7	5.3	1.5	222	-.6	3.6
-.4	11	2.0	356	-.5	5.2
-.1	21	8.0	2,480	-.4	7.6
0.0	25	10.0	3,310		
.5	60				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	140	70	84	285	259	450	359	170	85	33	62	8.2
2	119	69	84	239	249	389	309	158	85	31	44	*6.8
3	105	69	87	224	241	312	267	168	96	42	31	6.0
4	95	68	502	209	232	269	241	244	122	32	25	5.2
5	87	69	418	198	218	244	227	178	109	29	*23	4.8
6	*85	71	306	*182	211	227	218	147	90	28	19	4.7
7	81	71	232	170	204	215	218	133	81	34	19	4.3
8	78	72	187	162	198	209	211	136	75	34	18	*3.9
9	77	71	180	160	196	204	211	127	71	53	19	4.0
10	76	71	280	160	193	200	191	117	66	77	18	4.1
11	74	71	246	188	198	196	187	114	62	53	17	5.6
12	72	71	350	166	204	191	185	*112	59	41	15	4.7
13	69	71	434	153	187	191	202	172	56	32	*14	4.2
14	68	71	750	147	180	285	246	335	58	46	11	*3.9
15	69	72	552	158	180	262	213	304	96	368	13	*3.5
16	74	73	380	2,060	198	209	274	218	95	160	11	4.3
17	73	72	264	3,310	315	190	535	168	181	90	12	4.7
18	71	*72	215	3,050	*269	180	402	149	290	62	34	5.3
19	70	74	187	1,550	218	230	277	151	191	54	48	5.8
20	69	76	180	484	506	310	215	140	118	47	41	*4.7
21	68	96	202	588	894	360	191	126	88	42	41	*3.4
22	66	105	234	1,250	484	300	178	116	75	40	28	3.1
23	65	140	262	1,080	335	240	170	109	*67	41	23	2.8
24	65	129	232	714	298	220	166	103	61	41	21	*2.6
25	65	112	202	484	288	210	189	98	56	39	22	2.9
26	62	106	185	399	259	240	172	95	51	34	18	3.1
27	65	96	170	383	234	270	160	90	46	62	15	3.3
28	73	88	170	402	280	740	166	88	43	37	13	5.4
29	74	86	290	362	-	900	202	95	39	28	15	2.9
30	72	85	434	306	-----	700	229	119	34	28	12	*2.5
31	70	-----	365	280	-----	*347	-----	96	-----	109	9.8	-----
Total	2,395	2,467	8,664	19,483	7,728	9,490	7,011	4,576	2,644	1,847	711.8	130.7
Mean	77.3	82.2	279	628	276	306	234	148	88.1	53.6	23.0	4.36
Cfs/m	0.314	0.334	1.13	2.55	1.12	1.24	0.951	0.602	0.358	0.242	0.093	0.018
In.	0.36	0.37	1.30	2.94	1.17	1.43	1.06	0.69	0.40	0.28	0.11	0.02
Calendar year 1953: Max	3,090	Min	28	Mean	300	Cfs/m	1.22	In.	16.54			
Water year 1953-54: Max	3,310	Min	2.5	Mean	184	Cfs/m	0.748	In.	10.13			

Peak discharge (base, 1,800 cfs).--Jan. 17 (6 p.m.) 3,490 cfs (10.4 ft).

* Discharge measurement made on this day.

Note.--No gage-height record Mar. 17-30, Sept. 7, 9; discharge estimated on basis of recorded range in stage and records for stations on nearby streams.

Chattahoochee River near Whitesburg, Ga.

Location.--Lat 33°29', long 84°54', at downstream side near center of bridge on State Highway 16, half a mile upstream from Central of Georgia Railroad bridge, $1\frac{1}{4}$ miles southeast of Whitesburg, Carroll County, $1\frac{1}{2}$ miles downstream from Cedar Creek, 2 miles downstream from Snake Creek, and at mile 260.0.

Drainage area.--2,430 sq mi, approximately.

Records available.--October 1938 to June 1954 (discontinued).

Gage.--Wire-weight gage read twice daily. Datum of gage is 684.06 ft above mean sea level, datum of 1929. Prior to May 1, 1949, at site 1 mile upstream at same datum.

Average discharge.--15 years, 3,740 cfs.

Extremes.--Maximum discharge during period October 1953 to June 1954, 26,300 cfs Jan. 19 (gage height, 15.8 ft, from graph based on gage readings); minimum daily, 1,030 cfs Nov. 18, 19.

1938-54: Maximum discharge, 59,000 cfs Jan. 10, 1946 (gage height, 25.1 ft, site then in use, from graph based on gage readings), from rating curve extended above 30,000 cfs on basis of velocity-area and channel-capacity studies; minimum daily, 468 cfs Oct. 26, 1941.

Remarks.--Records fair. Moderate diurnal fluctuation caused by Morgan Falls hydroelectric plant.

Rating table, Oct. 1, 1953, to June 30, 1954 (gage height, in feet, and discharge, in cubic feet per second)

0.0	1,030	12.0	18,400
2.0	2,840	15.1	24,700
5.0	6,500		

Discharge, in cubic feet per second, October 1953 to June 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,140	1,270	1,430	3,780	4,500	4,860	5,100	3,440	2,640			
2	1,960	1,190	1,350	3,440	4,380	4,620	7,340	3,440	2,540			
3	1,690	1,190	1,760	3,140	4,260	4,380	5,940	3,440	2,740			
4	1,800	1,190	5,240	2,840	4,140	4,140	4,980	3,440	4,380			
5	1,510	1,190	6,360	2,840	3,900	3,900	4,500	3,540	3,240			
6	1,510	1,190	5,940	*2,740	3,780	3,780	4,260	3,140	2,640			
7	1,430	1,190	5,100	2,640	3,540	3,660	4,200	3,040	2,440			
8	1,350	1,190	4,620	2,540	3,440	3,540	4,500	2,940	2,240			
9	1,350	1,190	4,980	2,440	3,340	3,440	5,100	2,840	2,050			
10	1,350	1,110	6,500	2,440	3,540	3,340	4,700	2,840	2,050			
11	1,270	1,110	6,640	2,440	3,340	3,340	4,400	2,740	1,960			
12	1,270	1,110	7,200	2,440	3,240	3,240	4,140	*2,640	1,960			
13	1,190	1,110	10,100	2,340	3,240	3,240	4,020	2,600	2,050			
14	1,190	1,110	11,300	2,340	3,140	3,660	4,140	3,700	2,240			
15	1,190	1,110	7,480	2,340	3,140	4,500	4,020	4,300	2,540			
16	1,350	1,110	5,800	3,660	3,040	4,980	4,140	3,800	3,340			
17	1,350	1,110	4,980	15,300	3,240	4,260	4,380	3,500	3,440			
18	1,350	*1,030	4,500	20,400	*3,540	3,660	4,620	3,200	2,840			
19	1,270	1,030	3,600	*24,700	3,440	3,340	4,500	3,000	2,440			
20	1,270	1,190	3,300	21,600	4,260	3,660	3,900	2,900	2,340			
21	1,270	1,510	3,300	9,660	7,340	4,500	3,540	2,800	2,240			
22	1,190	1,690	3,500	8,700	8,540	4,740	3,440	2,700	2,140			
23	1,190	2,140	3,780	17,600	7,480	4,500	3,340	2,600	*1,960			
24	1,190	2,440	3,340	20,000	5,240	3,900	3,340	2,500	1,870			
25	1,190	2,340	3,040	19,600	4,260	3,660	3,440	2,500	1,780			
26	1,110	2,050	2,940	16,600	4,380	3,540	3,540	2,500	1,690			
27	1,110	1,690	2,740	9,980	4,380	4,980	3,660	2,500	1,600			
28	1,270	1,600	2,740	6,640	4,620	7,620	3,780	2,600	1,510			
29	1,350	1,510	3,340	5,520	-	10,300	3,660	2,600	1,430			
30	1,270	1,510	3,780	4,980	-----	7,480	3,440	2,700	1,350			
31	1,270	-----	4,260	4,740	-----	*5,520	-----	2,440	-----			
Total	42,000	41,400	144,960	250,620	118,480	138,280	128,060	92,920	69,680			
Mean	1,355	1,380	4,676	8,085	4,231	4,461	4,269	2,997	2,323			
Cfsm	0.558	0.568	1.92	3.33	1.74	1.84	1.76	1.23	0.956			
In.	0.64	0.63	2.21	3.84	1.81	2.12	1.96	1.42	1.07			

Calendar year 1953: Max 21,000 Min 890 Mean 3,790 Cfsm 1.56 In. 21.17
 Water year 1953-54: Max - Min - Mean - Cfsm - In. -

Peak discharge (base, 18,000 cfs).--Jan. 19 (11 p.m.) 26,300 cfs (15.8 ft); Jan. 24 (6 a.m.) 20,200 cfs (12.9 ft).

* Discharge measurement made on this day.

Note.--Doubtful or no gage-height record Dec. 18-22, Apr. 7-11, May 13-30; discharge estimated on basis of records for stations at Atlanta and West Point.

Yellowjacket Creek near La Grange, Ga.

Location.--Lat 33°05'25", long 85°03'45", at downstream end of right bank pier of bridge on State Highway 219, 1 $\frac{1}{4}$ miles downstream from Beach Creek, 2 miles upstream from Jackson Creek, and $\frac{1}{4}$ miles northwest of La Grange, Troup County.

Drainage area.--182 sq mi.

Records available.--January 1951 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 601 ft (by barometer).

Extremes.--Maximum discharge during year, 3,200 cfs Dec. 5 (gage height, 9.72 ft); minimum, 5.1 cfs Sept. 30.
1951-54: Maximum discharge, 6,870 cfs Mar. 5, 1952 (gage height, 11.28 ft); minimum, that of Sept. 30, 1954.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Feb. 21)

0.7	4.9	4.0	225
1.0	10.4	4.5	290
1.3	18	5.0	370
1.6	29	5.5	452
2.0	47	6.0	550
2.5	78	6.5	675
3.0	118	7.0	820
3.5	165		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	150	78	97	300	188	370	256	155	74	38	30	16
2	140	79	94	265	182	306	231	145	70	38	28	14
3	121	77	116	244	182	256	213	127	88	50	27	13
4	109	77	1,210	250	176	251	219	165	114	49	26	12
5	101	79	2,680	218	170	213	*195	140	92	46	24	11
6	97	85	2,480	206	165	207	207	118	77	54	21	10
7	94	85	1,010	194	165	201	207	110	72	44	21	9.6
8	89	84	482	188	160	189	189	110	68	39	42	*8.9
9	85	85	372	182	160	189	177	106	63	60	*33	9.6
10	86	84	434	182	160	183	171	100	65	68	27	9.8
11	84	84	389	*188	160	177	171	97	94	62	23	11
12	81	84	626	176	160	177	165	100	88	46	20	9.8
13	79	84	1,110	170	155	189	171	110	136	39	17	9.1
14	77	84	1,450	165	150	426	243	213	96	36	16	9.8
15	81	84	1,020	165	150	470	201	201	118	202	15	10
16	89	85	622	244	155	283	183	155	92	201	15	11
17	86	85	380	300	224	225	207	*127	91	115	21	*14
18	80	84	293	237	218	207	171	127	77	133	14	15
19	*78	84	258	206	176	314	155	163	84	82	44	15
20	79	94	244	194	338	675	140	155	73	63	33	12
21	77	117	293	244	790	662	136	122	62	53	79	9.8
22	75	130	332	494	700	362	132	110	59	48	82	8.7
23	75	170	364	554	*354	276	132	102	55	56	46	7.9
24	77	140	324	416	306	249	140	97	80	64	36	7.0
25	74	126	272	308	322	231	145	92	74	54	29	6.0
26	74	117	258	265	269	249	132	88	62	45	27	5.9
27	75	101	237	251	237	314	122	89	52	40	23	5.7
28	80	97	230	237	276	470	114	87	*48	38	20	5.9
29	80	94	293	218	-	480	183	85	44	35	27	5.5
30	77	*94	380	206	-----	362	177	84	40	32	24	5.7
31	77	-----	364	200	-----	306	-----	80	-----	30	19	-----
Total	2,727	2,851	18,714	7,647	6,848	9,449	5,285	3,790	2,308	1,960	912	298.7
Mean	88.0	95.0	604	247	245	305	176	122	76.9	63.2	29.4	9.96
Cfsm	0.484	0.522	3.32	1.36	1.35	1.68	0.967	0.670	0.422	0.347	0.162	0.055
In.	0.56	0.58	3.83	1.57	1.41	1.94	1.08	0.77	0.47	0.40	0.19	0.06
Calendar year 1953: Max	2,680			Min	44	Mean	287	Cfsm	1.58	In.	21.43	
Water year 1953-54: Max	2,680			Min	5.5	Mean	172	Cfsm	0.945	In.	12.86	

* Discharge measurement made on this day.

Chattahoochee River at West Point, Ga.

Location.--Lat 32°53', long 85°11', on right bank just downstream from Oseligee Creek, 1 mile upstream from West Point, Troup County, and at mile 198.9.

Drainage area.--3,550 sq mi, approximately.

Records available.--July 1896 to December 1910, January 1912 to September 1954. Gage-height records collected at site three-quarters of a mile downstream since 1899 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 551.67 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Oct. 20, 1912, chain gage at site three-quarters of a mile downstream at datum 2.83 ft lower. Oct. 20, 1912, to Jan. 25, 1925, staff gage at site 500 ft upstream at present datum.

Average discharge.--56 years (1896-1910, 1912-54), 5,665 cfs.

Extremes.--Maximum discharge during year, 25,800 cfs Jan. 20 (gage height, 14.1 ft); minimum, 399 cfs Sept. 25 (gage height, 1.57 ft).
1896-1910, 1912-54: Maximum discharge, 134,000 cfs Dec. 10, 1919 (gage height, 30.0 ft, from floodmark), by computation of peak flow over Goat Rock Dam; minimum, 224 cfs Sept. 12, 1925 (gage height, 1.64 ft).

Remarks.--Records good. Slight diurnal fluctuation caused by powerplants above station.

Revisions (water years).--WSP 862: 1920, drainage area. WSP 972: 1931-32.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

1.5	350	6.0	7,000
2.0	740	11.0	17,500
2.5	1,240	14.0	25,500
3.0	1,910		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,780	1,740	2,070	5,920	6,100	6,820	7,180	4,550	3,030	1,570	1,400	1,000
2	3,110	1,720	1,990	5,230	5,920	7,360	7,180	4,380	3,110	1,560	1,370	930
3	2,710	1,700	2,040	4,550	5,570	7,540	7,560	4,120	2,870	1,610	1,300	803
4	2,470	1,660	11,200	4,300	5,400	6,540	7,540	4,210	3,960	1,640	1,180	785
5	2,230	1,570	16,500	4,120	5,230	5,740	*6,280	4,550	4,550	1,670	1,000	740
6	2,150	1,560	12,300	3,960	5,060	5,400	5,920	4,300	3,440	1,790	1,050	740
7	2,020	1,670	9,750	3,780	4,890	5,230	5,570	3,960	3,190	1,610	1,030	692
8	1,860	1,680	6,460	3,620	4,720	4,890	5,400	3,620	2,790	1,410	1,010	*668
9	1,840	1,680	5,740	3,530	4,720	4,720	5,740	3,530	2,630	1,490	1,000	644
10	1,860	1,670	6,640	3,440	4,550	4,550	6,280	3,440	2,470	2,310	*950	596
11	1,840	1,660	6,280	3,440	4,550	4,550	5,920	3,360	2,790	2,010	960	580
12	1,800	1,600	13,000	3,530	4,550	4,380	5,400	3,190	2,550	1,970	1,230	628
13	1,780	1,560	13,600	3,360	4,550	4,380	5,060	3,190	2,950	2,070	1,310	620
14	1,740	1,620	14,500	3,360	4,380	5,920	5,060	4,340	3,110	1,600	1,120	628
15	1,670	1,640	16,200	3,360	4,300	6,640	5,230	5,740	2,870	2,230	990	660
16	1,700	1,640	11,900	3,870	4,210	6,280	4,890	4,720	2,870	3,780	910	636
17	1,820	1,650	9,180	13,400	4,890	5,740	5,740	*4,380	3,780	2,550	890	*596
18	1,840	1,660	6,640	19,800	5,400	4,890	5,740	3,780	3,530	2,230	900	564
19	1,850	1,580	5,400	*21,500	4,890	5,570	5,570	3,700	3,530	1,860	1,060	628
20	1,800	1,620	4,890	24,600	8,260	7,360	5,230	3,530	4,720	1,580	1,370	644
21	1,760	1,910	4,720	17,200	11,700	6,820	4,780	3,360	3,780	1,440	2,150	620
22	1,620	2,070	4,890	11,700	10,700	7,000	4,380	3,190	2,790	1,300	1,430	572
23	1,610	2,470	5,230	19,800	*11,100	6,100	4,310	3,030	2,470	1,510	1,140	540
24	1,640	3,360	5,230	20,200	8,260	5,400	4,710	2,950	2,310	2,390	1,020	g460
25	1,620	3,190	5,230	20,200	7,000	5,060	4,580	2,870	2,230	1,840	1,110	g406
26	1,610	3,440	4,890	21,200	6,100	5,400	4,720	2,790	2,070	1,580	1,040	g460
27	1,580	2,710	4,550	12,500	5,570	6,280	5,060	2,950	1,990	1,400	1,080	540
28	1,610	2,390	4,210	8,620	5,740	8,800	4,890	2,710	*1,860	1,300	1,290	516
29	1,570	2,230	4,380	7,720	-	10,900	4,550	2,630	1,760	1,370	1,240	492
30	1,580	*2,150	5,230	7,000	-----	12,100	4,890	2,630	1,620	1,300	1,120	g476
31	1,720	-----	6,100	6,460	-----	6,990	-----	2,790	-----	1,250	1,000	-----
Total	59,790	58,810	230,940	295,270	168,310	197,450	166,500	111,950	87,620	55,220	35,770	18,664
Mean	1,929	1,960	7,450	9,525	6,011	6,369	5,550	3,611	2,921	1,781	1,154	540
Cfsm	0.543	0.552	2.10	2.68	1.69	1.79	1.56	1.02	0.823	0.502	0.325	0.177
In.	0.63	0.62	2.42	3.09	1.76	2.06	1.74	1.18	0.92	0.56	0.37	0.20
Calendar year 1953: Max	25,500			Min	1,060	Mean	5,672	Cfsm	1.60	In.	21.71	
Water year 1953-54: Max	24,600			Min	406	Mean	4,073	Cfsm	1.15	In.	15.57	

Peak discharge (base, 25,000 cfs).--Jan. 20 (12 p.m.) 25,800 cfs (14.1 ft).

* Discharge measurement made on this day.

g Computed from once-daily staff-gage readings.

Mountain Creek near Hamilton, Ga.

Location.--Lat 32°44', long 85°04', at downstream end of right bank pier of bridge on State Highway 103, 5 miles upstream from mouth and 11 miles west of Hamilton, Harris County.

Drainage area.--61.7 sq mi.

Records available.--December 1943 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 550 ft (by barometer). Prior to Sept. 8, 1950, wire-weight gage at same site and datum.

Average discharge.--10 years (1944-54), 85.2 cfs.

Extremes.--Maximum discharge during year, 2,340 cfs Dec. 5 (gage height, 5.8 ft); minimum, 5.9 cfs Sept. 29, 30.

1943-54: Maximum discharge, 11,800 cfs July 11, 1948 (gage height, 16.6 ft, from floodmark), from rating curve extended above 7,000 cfs on basis of slope-conveyance studies; minimum, that of Sept. 29, 30, 1954.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

1.4	4.8	2.3	129
1.5	7.0	2.5	195
1.6	10	3.0	390
1.7	16	3.5	620
1.8	26	4.0	920
1.9	40	4.7	1,460
2.1	78		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	62	26	30	124	62	124	83	44	54	15	26	8.8
2	53	26	29	116	62	92	74	39	47	22	25	8.4
3	49	26	53	107	62	85	70	102	44	18	23	8.0
4	42	26	1,400	97	62	76	66	148	47	16	25	8.0
5	39	29	1,460	95	60	72	62	70	37	21	21	7.7
6	36	36	399	90	58	70	*70	54	36	23	21	8.0
7	34	30	394	85	58	68	64	49	34	21	22	7.7
8	33	27	188	83	58	66	62	44	33	16	24	*7.4
9	33	29	160	80	58	64	62	39	30	29	21	7.7
10	32	27	192	80	58	62	58	39	29	23	*18	7.7
11	30	27	129	*80	60	62	56	37	30	19	16	8.0
12	29	27	250	74	102	60	54	39	30	16	16	6.8
13	29	27	238	72	68	60	51	218	89	14	15	6.6
14	29	27	310	72	62	95	51	244	45	15	14	6.6
15	29	27	209	72	60	70	49	105	34	87	14	8.7
16	29	27	154	78	64	62	53	80	42	60	14	15
17	27	27	124	74	110	60	62	68	33	42	13	12
18	27	27	110	70	78	58	49	*60	32	84	13	12
19	*27	27	97	68	72	110	45	62	33	56	15	10
20	27	32	95	68	88	160	44	56	29	30	24	9.1
21	26	40	160	74	95	100	44	51	26	23	33	8.8
22	26	46	195	95	76	83	40	45	23	20	15	7.7
23	26	64	223	83	*70	74	40	42	22	57	13	7.4
24	26	40	157	74	90	70	42	40	21	74	12	6.8
25	26	39	129	72	100	68	40	39	20	201	11	6.6
26	25	34	121	70	83	76	40	37	19	229	11	6.8
27	26	32	110	72	74	113	64	37	18	72	10	6.3
28	29	30	100	72	102	212	44	37	*17	47	9.4	*6.3
29	27	29	141	68	-	128	47	39	16	37	10	6.1
30	26	*30	157	66	-----	105	51	259	15	33	10	6.1
31	26	-----	151	66	-----	92	-----	78	-----	27	9.4	-----
Total	985	941	7,665	2,497	2,052	2,695	1,637	2,301	985	1,447	523.8	243.1
Mean	31.8	31.4	247	80.5	73.5	86.9	54.6	74.2	32.9	46.7	16.9	8.10
Cfsm	0.515	0.509	4.000	1.30	1.19	1.41	0.885	1.20	0.532	0.757	0.274	0.131
In.	0.59	0.57	4.61	1.50	1.24	1.63	0.99	1.38	0.59	0.87	0.32	0.15

Calendar year 1953: Max 1,460 Min 16 Mean 95.2 Cfsm 1.54 In. 20.94
Water year 1953-54: Max 1,460 Min 6.1 Mean 65.7 Cfsm 1.06 In. 14.44

Peak discharge (base, 1,000 cfs).--Dec. 5 (3 a.m.) 2,340 cfs (5.8 ft).

* Discharge measurement made on this day.

Chattahoochee River at Columbus, Ga.

Location.--Lat 32°27'45", long 84°59'45", on downstream side of center pier of Central of Georgia Railroad bridge at Columbus, Muscogee County, half a mile downstream from Eagle and Phenix Dam, 1½ miles downstream from City Mills Dam, 17½ miles downstream from Bartlett Ferry Reservoir, and at mile 159.5.

Drainage area.--4,670 sq mi, approximately.

Records available.--December 1912, August 1929 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 185.14 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Dec. 1-31, 1912, staff gage at site 800 ft upstream at same datum.

Average discharge.--25 years, 6,585 cfs (unadjusted).

Extremes.--Maximum discharge during year, 39,800 cfs Dec. 4 (gage height, 23.2 ft); minimum daily, 695 cfs Sept. 22.

1912, 1929-54: Maximum discharge, 104,000 cfs Nov. 28, 1948, by computation of flow at North Highlands Dam; maximum gage height, 42.4 ft Nov. 28, 1948; minimum discharge, 294 cfs Oct. 23, Nov. 14, 1931; minimum daily, 480 cfs Oct. 31, 1931.

Maximum discharge known, 198,000 cfs Mar. 15, 1929, by computation of flow at North Highlands Dam; maximum stage known, 53.2 ft Mar. 16, 1929.

Remarks.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Bartlett Ferry Reservoir completed in 1926 (usable capacity, 134,000 acre-ft).

Cooperation.--Hourly readings of tailrace at North Highlands Dam furnished by Georgia Power Co.

Revisions (water years).--WSP 1082: 1943(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

-1.3	675	8.0	11,200
0.0	1,550	16.0	24,200
2.0	3,230	20.5	33,600

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,650	1,950	3,230	7,660	9,060	9,350	*10,600	5,430	4,000	2,590	1,670	1,230
2	6,080	1,910	3,230	7,800	9,060	9,500	10,600	4,320	3,800	2,130	1,630	1,200
3	4,440	2,270	3,650	7,380	6,600	9,800	10,600	4,680	3,300	1,790	1,670	1,230
4	2,850	2,510	22,900	7,660	6,340	9,060	10,100	7,520	3,500	1,750	1,630	1,230
5	3,330	2,760	33,600	6,860	6,860	8,920	10,400	6,340	3,000	1,950	1,630	1,200
6	4,680	3,230	24,800	6,860	7,120	5,820	9,800	5,040	2,800	1,630	1,630	1,190
7	4,560	2,030	18,000	5,950	6,080	4,680	9,350	4,560	2,600	1,590	1,750	1,020
8	2,850	1,750	12,400	4,680	6,080	4,680	6,860	5,040	2,600	1,710	1,670	1,080
9	2,430	2,030	11,400	3,330	6,600	6,340	7,390	4,440	2,900	1,870	1,550	1,020
10	2,270	2,190	11,800	3,030	6,470	6,210	5,950	4,320	3,200	1,950	*1,650	1,020
11	2,190	2,270	11,200	3,200	6,600	6,080	4,200	*4,440	3,000	1,790	1,630	910
12	2,510	2,270	10,800	5,040	6,600	5,950	4,440	4,560	2,700	1,710	1,670	910
13	2,760	2,190	7,940	6,080	6,210	5,690	6,080	5,170	2,400	1,710	1,710	800
14	2,590	1,790	6,730	5,300	4,800	6,210	6,730	5,430	2,700	1,710	1,710	910
15	2,850	1,710	6,210	5,170	4,200	5,690	6,470	4,800	3,300	2,030	1,630	800
16	2,670	1,710	9,500	6,860	5,170	7,520	6,730	4,300	3,700	3,130	1,670	800
17	*1,950	1,750	12,600	7,250	*6,860	7,800	6,470	4,000	4,200	3,030	1,310	*800
18	1,710	2,270	11,000	10,000	6,990	9,060	5,430	4,200	4,600	3,230	1,310	910
19	2,030	2,190	10,800	12,200	6,730	6,860	5,170	4,600	4,100	2,510	1,270	910
20	2,190	1,790	10,700	19,200	6,990	7,660	6,990	4,200	3,400	2,270	1,310	910
21	2,110	1,910	10,800	24,000	9,200	9,350	6,860	3,950	2,600	2,190	1,310	910
22	2,510	1,790	10,800	11,900	10,200	9,200	5,580	3,600	3,000	2,190	1,230	895
23	2,850	2,190	11,200	18,400	10,200	7,940	4,320	3,300	*4,100	2,190	1,430	800
24	2,030	3,330	10,400	19,800	10,700	7,800	3,870	3,400	3,870	2,350	1,350	800
25	1,590	*4,200	9,200	20,300	10,600	9,200	3,650	3,650	2,850	2,350	1,270	910
26	1,950	3,760	8,220	20,800	10,400	9,200	4,090	4,050	2,350	2,510	1,310	910
27	2,270	3,760	8,080	17,700	10,200	6,600	7,250	4,300	2,670	2,270	1,270	800
28	2,270	3,230	9,350	10,700	9,800	7,350	6,210	4,000	2,760	2,270	1,310	720
29	2,510	2,940	10,200	10,600	11,000	6,470	6,470	3,400	3,230	2,270	1,270	800
30	2,430	3,330	8,920	9,650	11,200	6,470	2,600	3,030	2,190	1,230	720	720
31	2,270	-----	8,360	9,060	-----	10,800	-----	2,900	-----	1,790	1,200	-----
Total	91,380	73,010	348,020	314,520	212,720	242,550	205,100	136,540	96,260	66,710	45,860	28,145
Mean	2,948	2,434	11,230	10,150	7,597	7,824	6,637	4,405	3,209	2,152	1,479	938
(†)	-211	+101	-488	+634	-324	+407	-235	-81	-67	+98	-276	-387

Adjusted for change in contents in Bartlett's Ferry Reservoir

Mean	2,737	2,535	10,740	10,780	7,273	8,251	6,602	4,324	3,142	2,250	1,203	551
Cfs	0.586	0.543	2.30	2.31	1.56	1.76	1.41	0.926	0.673	0.482	0.258	0.118
In.	0.68	0.61	2.65	2.66	1.62	2.03	1.57	1.07	0.75	0.56	0.30	0.13

	Observed				Adjusted			
Calendar year 1953:	Max	38,600	Min	1,590	Mean	7,428	Mean	7,416
Water year 1953-54:	Max	33,600	Min	695	Mean	5,098	Cfs	1.59
							In.	21.56

* Discharge measurement made on this day.

† Change in contents, equivalent in cubic feet per second, in Bartlett's Ferry Reservoir; furnished by Georgia Power Co.

Note.--No gage-height record May 15 to June 23, Sept. 6-30; discharge estimated on basis of 2 discharge measurements; weather records, records for North Highlands Dam, and records for stations at Bufala and Columbia, Ala.

Barbour Creek near Eufaula, Ala.

Location.--Lat 31°52', long 85°09', in E½ sec. 7, T. 10 N., R. 29 E., on downstream side of right pier of bridge on U. S. Highway 431, 2 miles south of Eufaula and 3 miles upstream from mouth.

Drainage area.--93.3 sq mi.

Records available.--October 1953 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 143.07 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Extremes.--Maximum discharge during year, 4,010 cfs Dec. 6 (gage height, 15.18 ft); minimum daily, 2.3 cfs Sept. 8.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 5				Dec. 6 to Sept. 30			
0.7	34	7.0	1,260	-0.4	2.0	1.7	156
1.5	112	11.0	2,490	-.2	8.0	4.0	540
3.0	312			.1	21	7.0	1,260
				1.0	84		

Note.--Same as preceding table above 7.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	200	36	44	306	95	131	110	44	25	10	11	3.2
2	188	36	40	250	93	91	94	39	23	12	11	3.2
3	123	35	40	234	92	85	86	*146	20	9.6	10	2.9
4	101	35	2,350	202	89	80	79	72	18	51	*8.4	2.9
5	88	58	*688	189	86	76	89	52	16	40	8.0	3.5
6	81	75	2,230	172	84	75	90	42	*16	47	7.1	3.2
7	*73	49	1,590	156	83	75	83	39	16	35	6.8	2.6
8	67	43	374	*148	82	71	*75	35	15	21	6.5	2.3
9	64	42	331	142	82	71	70	34	15	47	6.5	4.4
10	61	40	450	145	81	70	65	32	14	95	6.5	5.0
11	57	38	274	152	81	*69	63	30	16	*27	5.3	8.0
12	53	38	*424	131	*78	69	61	33	16	20	5.6	5.0
13	50	37	562	122	73	68	*59	72	16	16	5.3	4.1
14	48	36	802	121	75	71	80	114	19	15	3.5	3.2
15	47	37	348	124	75	64	*66	64	16	15	8.2	3.5
16	48	38	274	130	75	61	66	51	9.9	32	5.9	6.5
17	46	38	226	124	81	59	90	44	9.2	44	5.6	*8.8
18	45	37	202	112	78	*60	63	38	14	43	6.8	9.2
19	43	37	183	112	75	88	56	*35	18	30	6.2	8.0
20	42	40	188	111	80	210	51	34	15	22	13	6.2
21	42	50	468	112	119	93	49	33	12	16	20	5.0
22	40	76	476	165	85	75	47	28	12	14	35	4.1
23	40	140	525	180	75	70	45	21	28	16	11	3.2
24	37	71	282	123	232	68	74	25	19	18	*8.0	2.6
25	37	75	266	115	217	66	75	24	13	16	6.8	3.5
26	35	64	258	*113	113	66	54	27	12	18	6.5	6.5
27	*39	51	210	112	96	100	49	28	11	21	5.9	3.8
28	45	48	194	107	99	*504	47	28	9.6	15	5.6	4.4
29	38	44	468	100	-	185	45	28	*8.4	13	6.8	3.5
30	*38	*44	721	99	-----	290	45	30	7.7	11	4.7	*3.2
31	35	-----	504	101	-----	142	-----	29	-----	11	4.1	-----
Total	1,927	1,488	15,992	4,510	2,674	3,299	2,026	1,357	459.8	800.6	241.6	135.5
Mean	62.2	49.6	516	145	95.5	106	67.5	43.8	15.3	25.8	7.79	4.52
Cfsm	0.667	0.532	5.53	1.55	1.02	1.14	0.723	0.469	0.164	0.277	0.083	0.048
In.	0.77	0.59	6.37	1.80	1.07	1.32	0.81	0.54	0.18	0.32	0.10	0.05

Calendar year 1953: Max - Min - Mean - Cfsm - In. -
 Water year 1953-54: Max 2,350 Min 2.3 Mean 95.6 Cfsm 1.02 In. 13.82

Peak discharge (base, 2,000 cfs).--Dec. 4 (9 a.m.) 2,830 cfs (12.00 ft); Dec. 6 (11 p.m.) 4,010 cfs (15.18 ft).

* Discharge measurement made on this day.

Chattahoochee River at Columbia, Ala.

Location.--Lat 31°17', long 85°07', in T. 4 N., R. 29 E., on downstream side of pier of bridge on State Highway 52, a quarter of a mile downstream from Central of Georgia Railway bridge, half a mile upstream from Omussee Creek, half a mile east of Columbia, and at mile 48.9.

Drainage area.--8,040 sq mi, approximately.

Records available.--July 1928 to September 1954. Gage-height records collected at same site since 1936 are contained in reports of U. S. Weather bureau.

Gage.--Water-stage recorder. Datum of gage is 72.23 ft above mean sea level, datum of 1929, supplementary adjustment of 1943 (levels by Corps of Engineers).

Average discharge.--26 years, 10,970 cfs.

Extremes.--Maximum discharge during year, 57,300 cfs Dec. 7 (gage height, 36.1 ft); minimum, 1,260 cfs Sept. 20 (gage height, 2.60 ft).
1928-54: Maximum discharge, 203,000 cfs Mar. 18, 1929 (gage height, 56.05 ft), from rating curve extended above 115,000 cfs; minimum, 1,220 cfs Oct. 26, 1931 (gage height, 1.79 ft).

Remarks.--Records good. Flow regulated by Bartlett Ferry Reservoir (see p. 162).

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

2.6	1,260	14.0	14,200
3.0	1,490	22.0	28,600
5.0	3,000	35.4	55,500
8.0	6,000		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15,200	3,810	4,500	23,000	12,600	15,000	16,400	8,400	3,900	4,000	3,360	2,100
2	13,700	3,720	4,800	17,700	12,200	*14,500	15,000	8,040	4,400	4,000	3,090	2,030
3	11,200	3,450	4,800	15,200	12,000	13,100	14,200	6,840	5,230	3,630	2,910	1,960
4	8,540	3,360	9,800	14,000	11,200	12,800	13,700	6,960	5,230	3,360	2,910	1,890
5	6,480	3,810	32,400	13,200	9,380	12,500	13,200	8,540	4,700	3,270	2,820	1,890
6	5,340	4,600	44,500	12,600	9,380	11,600	14,000	9,660	4,900	3,270	2,730	1,890
7	5,890	4,900	*55,500	11,900	9,800	10,600	13,900	8,040	4,300	3,450	2,560	1,890
8	6,360	4,900	46,100	11,200	9,520	7,920	13,200	6,600	4,100	3,180	2,560	1,820
9	5,890	4,000	30,900	10,100	8,540	7,320	11,600	6,480	3,900	3,090	2,560	1,610
10	4,800	3,440	24,700	8,680	8,960	7,800	10,200	6,240	3,900	3,180	2,640	1,610
11	4,300	3,440	24,000	8,160	9,100	8,820	9,940	5,780	4,100	3,270	2,480	1,640
12	4,100	3,650	20,600	7,800	9,100	8,540	8,040	5,780	4,300	3,090	2,400	1,720
13	3,900	3,720	24,100	8,280	8,960	8,540	6,960	6,120	4,200	2,910	2,480	1,610
14	4,200	3,650	35,300	9,380	8,960	8,820	7,800	7,440	4,000	2,730	2,480	1,520
15	4,300	3,440	37,600	9,520	8,280	14,800	*8,960	8,680	3,800	*2,730	2,480	1,490
16	4,300	3,360	34,000	9,240	7,200	14,500	9,380	6,280	3,900	2,820	2,400	1,400
17	4,500	3,180	27,900	9,380	7,080	12,000	9,580	7,080	4,800	3,540	2,400	1,310
18	4,300	3,180	20,600	*11,100	8,280	10,900	9,660	6,120	5,120	5,230	2,480	1,310
19	3,720	3,180	17,200	11,800	9,520	11,900	8,680	5,670	5,890	5,450	2,400	1,280
20	3,450	3,650	16,100	13,900	9,380	13,600	7,440	6,000	6,240	5,230	*2,240	1,310
21	3,630	4,000	16,900	19,800	9,940	19,900	8,040	6,000	5,670	4,000	2,400	1,370
22	3,810	3,720	19,800	*27,200	10,800	13,700	8,820	5,890	4,700	3,540	2,820	1,430
23	3,630	4,300	26,200	22,400	12,600	12,800	8,280	5,670	4,000	3,270	3,000	1,430
24	3,900	4,700	25,300	21,200	13,400	11,600	7,080	*5,230	4,400	3,450	2,730	1,460
25	4,200	5,010	20,400	24,300	16,100	10,800	6,360	4,800	4,900	3,720	2,400	1,490
26	*3,720	5,670	17,900	24,900	16,600	11,200	6,000	4,900	4,800	4,300	2,400	1,490
27	3,180	5,890	15,800	25,500	15,000	12,200	5,670	5,230	4,000	5,450	2,240	1,490
28	3,360	5,450	14,000	24,500	14,200	16,400	6,960	5,780	3,450	5,340	2,170	1,490
29	3,720	5,230	16,000	16,800	-	20,800	8,680	5,780	3,540	4,600	2,170	1,520
30	3,720	4,800	22,600	14,000	-	19,800	8,160	5,560	3,540	4,000	2,100	1,490
31	5,810	-	27,700	13,400	-	18,400	-	4,400	-	3,540	2,100	-
Total	165,150	123,150	738,000	470,140	298,080	392,960	295,690	199,990	153,740	116,640	78,910	47,920
Mean	5.327	4.105	23.810	15.170	10.650	12.680	9.856	6.451	4.458	3.763	2.545	1.597
Cfsm	0.663	0.511	2.96	1.69	1.32	1.58	1.23	0.802	0.554	0.468	0.317	0.199
In.	0.76	0.57	3.41	2.18	1.38	1.82	1.37	0.92	0.62	0.54	0.37	0.22

* Discharge measurement made on this day.

Flint River near Griffin, Ga.

Location.--Lat 33°14', long 84°26', near left bank at downstream side of pier of bridge on State Highway 16, 1 $\frac{1}{4}$ miles downstream from Shoal Creek, 5 $\frac{1}{2}$ miles upstream from Line Creek, 10 miles west of Griffin, Spalding County, and at mile 304.4.

Drainage area.--272 sq mi.

Records available.--March 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 711.44 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to May 6, 1941, wire-weight gage at same site and datum.

Average discharge.--17 years, 328 cfs.

Extremes.--Maximum discharge during year, 2,640 cfs Dec. 7 (gage height, 11.14 ft); minimum daily, 5.7 cfs Sept. 30.

1937-54: Maximum discharge, 13,200 cfs Nov. 27, 1948 (gage height, 18.0 ft); minimum daily, that of Sept. 30, 1954.

Flood of Mar. 14 or 15, 1929, reached a stage of 17.9 ft, from floodmark located by local resident (discharge, 15,300 cfs).

Remarks.--Records good. Some diurnal fluctuation at low flow. City of Griffin diverted an average of about 2 $\frac{1}{2}$ cfs from tributary above station to Towaliga River for municipal supply.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Mar. 14 to June 25)

1.4	4.8	6.0	321
1.6	9.2	8.0	695
2.0	21	9.0	990
3.0	63	10.0	1,550
4.0	121	11.0	2,470
5.0	201		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	489	98	118	565	255	453	385	138	84	31	54	28
2	261	98	118	498	237	516	321	138	78	28	63	21
3	192	95	124	417	226	498	279	135	101	31	44	17
4	162	95	1,160	353	221	444	255	158	128	52	41	14
5	142	95	2,270	314	216	314	231	142	128	58	38	14
6	128	104	2,070	286	211	261	*216	135	121	69	26	14
7	121	107	2,470	261	206	243	206	124	98	43	23	*13
8	110	110	1,490	249	201	226	201	118	84	34	25	9.2
9	107	110	830	243	192	211	206	114	73	32	23	*8.5
10	107	104	625	237	192	206	192	114	68	100	22	8.8
11	104	104	498	237	192	201	192	104	66	78	*20	8.5
12	104	104	804	*237	196	201	188	98	68	60	18	9.8
13	98	104	1,800	226	192	206	178	121	81	47	17	12
14	98	104	1,980	221	192	453	196	221	86	36	15	13
15	95	107	1,550	216	188	417	196	255	95	38	15	10
16	104	107	1,200	255	188	321	196	293	76	101	13	11
17	114	104	920	314	279	314	216	337	98	138	10	13
18	107	104	708	353	273	255	201	*206	124	135	12	13
19	101	104	471	426	255	307	196	154	128	104	44	13
20	*98	107	353	444	293	605	170	150	101	70	100	12
21	95	132	369	345	545	585	154	138	84	54	231	*8.3
22	92	154	480	385	525	507	142	124	70	44	146	7.2
23	92	183	635	462	453	401	135	110	63	39	63	7.2
24	92	183	605	585	*401	300	135	107	149	44	44	5.9
25	92	178	516	758	337	267	132	98	87	48	36	7.6
26	92	174	444	682	273	273	132	92	58	43	31	7.4
27	92	150	371	453	249	361	142	92	53	36	27	*7.8
28	98	135	337	353	279	555	150	86	51	32	23	8.1
29	98	128	426	314	-	575	124	89	*40	26	71	6.9
30	98	121	575	300	-----	545	138	92	34	22	98	5.7
31	95	-----	625	279	-----	498	-----	92	-----	26	48	-----
Total	3,878	3,603	26,942	11,268	7,467	11,519	5,805	4,375	2,575	1,689	1,441	334.9
Mean	125	120	869	363	267	372	194	141	85.8	54.5	46.5	11.2
Cfsm	0.460	0.441	3.19	1.33	0.982	1.37	0.713	0.518	0.315	0.200	0.171	0.041
In.	0.53	0.49	3.68	1.53	1.02	1.58	0.80	0.60	0.35	0.23	0.20	0.05

Calendar year 1953: Max 2,470 Min 51 Mean 407 Cfsm 1.50 In. 20.29
Water year 1953-54: Max 2,470 Min 5.7 Mean 222 Cfsm 0.816 In. 11.05

Peak discharge (base, 2,000 cfs).--Dec. 7 (9 a.m.) 2,640 cfs (11.14 ft); Dec. 14 (5 a.m.) 2,070 cfs (10.59 ft).

* Discharge measurement made on this day.

Potato Creek near Thomaston, Ga.

Location.--Lat $32^{\circ}54'15''$, long $84^{\circ}21'45''$, on right bank 300 ft downstream from State Highway 74, 600 ft downstream from Basin Creek, 1,000 ft downstream from Central of Georgia Railway bridge, 1 mile downstream from Ten Mile Creek, and $2\frac{1}{2}$ miles northwest of Thomaston, Upson County.

Drainage area.--186 sq mi.

Records available.--July 1938 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 600 ft (by barometer).

Average discharge.--16 years, 223 cfs.

Extremes.--Maximum discharge during year, 2,300 cfs Dec. 6 (gage height, 5.59 ft); minimum daily, 2.4 cfs Sept. 27, 28.

1938-54: Maximum discharge, 9,240 cfs Nov. 27, 1948 (gage height, 8.80 ft), from rating curve extended above 4,000 cfs by logarithmic plotting; minimum daily, that of Sept. 27, 28, 1954.

Remarks.--Records good. Some regulation at low flow caused by diversion for municipal and industrial supplies at Thomaston.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	342	111	*121	472	221	239	206	104	43	23	40	11
2	376	111	119	388	213	230	180	97	42	25	33	10
3	247	107	124	342	213	202	166	109	55	31	25	8.5
4	202	107	1,050	320	213	191	156	135	58	41	25	8.2
5	183	119	1,590	300	206	180	146	132	60	34	21	6.4
6	189	129	2,160	280	202	176	*149	107	54	32	16	6.8
7	152	127	1,320	270	202	176	146	93	46	23	20	7.4
8	146	124	1,310	252	194	173	135	86	40	20	23	9.0
9	141	119	568	247	191	169	127	84	36	46	20	*5.4
10	135	111	525	247	187	169	121	76	34	40	20	6.0
11	138	109	497	*252	187	166	127	74	33	52	*17	7.1
12	132	107	748	343	187	173	124	74	137	54	14	4.2
13	124	107	213	230	183	173	119	93	159	33	12	2.9
14	124	107	1,150	221	183	354	119	114	110	28	11	5.0
15	124	109	890	225	180	337	121	127	86	48	9.8	5.7
16	138	104	608	270	194	230	127	116	99	62	12	11
17	138	104	418	315	280	183	129	102	72	76	16	7.8
18	143	104	348	310	265	169	124	*93	68	98	13	7.8
19	143	102	315	243	230	270	107	89	59	126	70	7.1
20	*135	109	295	234	230	362	97	93	61	61	84	7.8
21	124	132	382	252	256	436	99	86	56	41	46	7.1
22	119	166	490	566	280	252	97	74	46	35	36	4.5
23	119	180	568	539	225	198	93	76	38	35	30	4.0
24	116	191	532	376	*213	183	89	71	38	31	23	4.0
25	116	159	412	300	225	176	91	63	65	33	17	4.7
26	114	146	376	275	239	230	91	56	82	56	16	3.7
27	111	138	354	265	202	370	82	58	50	92	21	2.4
28	121	124	315	256	206	532	86	49	41	56	14	*2.4
29	121	127	466	247	-	434	119	52	*33	40	13	2.9
30	114	124	560	239	-----	359	109	52	29	32	14	4.0
31	109	-----	568	234	-----	275	-----	49	-----	28	11	-----
Total	4,716	3,714	19,392	9,310	6,007	7,837	3,682	2,684	1,830	1,432	742.8	184.8
Mean	152	124	626	300	215	253	123	86.6	61.0	46.2	24.0	6.16
Cfsm	0.817	0.667	5.37	1.61	1.16	1.36	0.661	0.466	0.328	0.248	0.129	0.033
In.	0.94	0.74	3.88	1.86	1.21	1.57	0.74	0.54	0.37	0.28	0.15	0.04

Calendar year 1953: Max 3,060 Min 73 Mean 373 Cfsm 2.01 In. 27.22
 Water year 1953-54: Max 2,160 Min 2.4 Mean 169 Cfsm 0.909 In. 12.33

Peak discharge (base, 1,700 cfs).--Dec. 6 (12 m.) 2,300 cfs (5.59 ft).

* Discharge measurement made on this day.

Flint River near Culloden, Ga.

Location.--Lat 32°43', long 84°13', on left bank underneath bridge on U. S. Highway 19, 4 miles upstream from Auchumpkee Creek, 5 miles downstream from Swift Creek, 13 miles southwest of Culloden, Monroe County, and at mile 238.4.

Drainage area.--1,890 sq mi, approximately.

Records available.--July 1911 to May 1923, July 1928 to December 1931, March 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 334.54 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. July 1, 1911, to Oct. 11, 1918, staff gage, and Oct. 12, 1918, to May 31, 1923, water-stage recorder, at site 2½ miles downstream at different datum. July 21, 1928, to Dec. 31, 1931, chain gage, Mar. 18 to May 10, 1937, staff gage, and May 11, 1937, to May 3, 1939, wire-weight gage, all at present site and datum.

Average discharge.--31 years (1911-22, 1928-31, 1937-54), 2,423 cfs.

Extremes.--Maximum discharge during year, 18,300 cfs Dec. 6 (gage height, 18.8 ft); minimum, 121 cfs Sept. 29.

1911-23, 1928-31, 1937-54: Maximum discharge observed, 92,000 cfs Mar. 15, 1929 (gage height, 38.40 ft); minimum observed, 92 cfs Oct. 4, 6, 7, 1931.

Remarks.--Records good.

Revisions (water years).--WSP 822: Drainage area. WSP 1002: 1943.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Nov. 22 to Dec. 3)

1.0	117	5.0	2,360
1.3	185	10.0	6,790
2.0	485	17.0	15,400

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,430	1,000	970	4,300	2,080	2,660	3,190	1,210	736	354	475	232
2	2,810	1,000	970	3,760	2,010	2,810	2,740	1,150	689	332	910	264
3	2,360	1,000	940	3,270	1,940	2,660	2,360	1,210	760	363	585	216
4	1,940	1,000	6,590	2,960	1,870	2,440	2,150	2,220	820	417	430	192
5	1,730	1,060	15,100	*2,810	1,870	2,220	2,080	1,870	880	445	372	185
6	1,540	1,150	14,600	2,660	1,800	2,010	2,010	1,360	850	520	336	165
7	1,450	1,120	14,900	2,510	1,800	1,800	*1,940	1,150	760	450	345	160
8	1,360	1,090	9,820	2,360	1,730	1,730	1,800	1,060	700	399	345	146
9	1,300	1,090	6,490	2,290	1,660	1,660	1,730	970	640	390	*340	146
10	1,270	1,060	5,690	2,220	1,660	1,660	1,660	940	596	820	336	157
11	1,240	1,060	4,480	2,290	1,660	1,600	1,660	*910	579	850	322	160
12	1,180	1,030	5,790	2,220	1,870	1,800	1,600	910	634	634	298	150
13	1,150	1,030	8,500	2,080	1,730	1,600	1,660	970	970	552	264	135
14	1,120	1,030	11,000	2,010	1,660	3,430	2,010	1,660	724	445	248	126
15	1,120	1,030	9,380	2,010	1,660	3,600	1,800	2,360	790	880	240	130
16	*1,360	1,030	7,400	2,150	*1,660	2,810	1,660	2,150	790	1,150	220	248
17	1,270	1,030	5,600	2,580	2,080	2,290	1,730	1,870	760	1,180	354	244
18	1,210	1,030	4,300	2,580	2,360	2,010	1,730	1,480	650	1,330	372	210
19	1,240	1,030	3,510	2,510	2,220	2,220	1,540	1,420	706	1,210	309	192
20	1,180	1,060	3,040	2,360	2,010	4,480	1,420	1,300	700	850	520	185
21	1,120	1,120	3,350	2,290	2,440	4,300	1,330	1,150	640	606	650	163
22	1,090	1,120	4,480	2,600	2,960	3,600	1,270	1,030	*579	500	880	157
23	1,060	1,420	5,690	4,380	2,960	2,810	1,210	940	525	445	820	153
24	1,060	*1,360	4,840	3,510	2,740	2,440	1,180	880	475	426	546	139
25	1,030	1,330	4,020	3,510	2,580	2,150	1,150	820	552	422	412	131
26	1,030	1,270	3,600	3,350	2,290	2,220	1,150	820	724	470	336	126
27	1,030	1,150	3,190	3,040	2,080	3,110	1,090	790	574	667	300	137
28	1,060	1,090	2,880	2,740	2,010	6,090	1,120	790	470	574	268	135
29	1,060	1,000	3,760	2,440	-	5,020	1,180	790	422	470	248	128
30	1,060	970	4,840	2,290	-	4,660	1,240	820	381	390	228	133
31	1,030	-	4,840	2,220	-	3,850	-	760	-	372	220	-
Total	42,890	32,820	184,360	85,300	57,390	87,540	50,390	37,760	20,076	18,913	12,519	5,105
Mean	1.384	1.094	5.947	2.752	2.050	2.824	1.680	1.215	.669	.610	.404	.170
Cfs/m	0.732	0.579	3.15	1.46	1.08	1.49	0.889	0.644	0.354	0.323	0.214	0.090
In.	0.84	0.65	3.63	1.68	1.12	1.72	0.99	0.74	0.40	0.37	0.25	0.10

Calendar year 1953: Max 32,200 Min 579 Mean 3,313 Cfs/m 1.75 In. 23.79
Water year 1953-54: Max 15,100 Min 126 Mean 1,740 Cfs/m 0.921 In. 12.49

Peak discharge (base, 11,000 cfs).--Dec. 6 (11 p.m.) 18,300 cfs (18.8 ft); Dec. 14 (8 a.m.) 11,500 cfs (14.2 ft).

* Discharge measurement made on this day.

Whitewater Creek below Rambulette Creek, near Butler, Ga.

Location.--Lat 32°28', long 84°16', on left bank 500 ft downstream from bridge on U. S. Highway 19, at confluence with Rambulette Creek, 6½ miles south of Butler, Taylor County, and 8 miles upstream from Cedar Creek.

Drainage area.--93.4 sq mi.

Records available.--October 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 365.85 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Extremes.--Maximum discharge during year, 632 cfs Dec. 4 (gage height, 4.43 ft); minimum daily, 128 cfs Sept. 3, 6, 7, 12-14, 24, 28-30.
1951-54: Maximum discharge, 1,120 cfs May 1, 1953 (gage height, 5.54 ft); minimum daily, 112 cfs Oct. 16, 1951, Oct. 20-23, 26, 1952.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

1.2	125
2.0	187
3.0	295
4.0	490

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	230	178	182	240	192	196	196	174	150	142	162	132
2	230	182	182	220	192	182	187	166	146	142	154	132
3	225	178	*182	215	192	182	182	174	146	150	142	128
4	205	178	431	210	196	182	182	278	146	162	145	132
5	205	192	465	205	192	182	182	252	146	170	139	132
6	200	215	404	210	187	178	225	187	142	158	132	128
7	196	210	478	205	187	178	*192	170	142	158	139	128
8	192	192	302	205	187	178	182	162	142	146	162	132
9	192	182	260	205	182	178	182	162	142	146	154	132
10	192	182	295	205	187	178	178	158	142	150	*146	132
11	187	182	280	210	192	182	178	158	139	146	139	132
12	192	182	245	205	215	178	178	*162	142	142	139	128
13	182	182	285	200	205	178	187	170	146	139	132	128
14	182	187	355	200	192	252	210	187	196	142	132	128
15	192	178	302	200	192	225	196	178	158	158	136	132
16	200	182	252	205	187	192	182	170	162	150	136	150
17	200	178	230	205	*196	178	187	166	*150	178	139	150
18	*192	182	220	200	195	178	178	162	162	182	139	142
19	187	178	215	196	187	196	174	166	154	150	139	142
20	182	187	215	200	192	265	166	174	154	146	139	136
21	182	187	235	200	196	220	170	166	150	139	146	132
22	182	200	240	205	192	187	170	158	146	146	146	132
23	182	230	265	220	182	178	170	154	142	150	139	132
24	192	210	240	215	192	178	170	154	146	150	136	128
25	174	187	225	205	215	174	166	150	146	146	139	132
26	182	182	230	200	200	187	170	150	146	150	136	136
27	174	182	220	200	187	225	170	154	139	146	132	132
28	187	182	210	200	187	310	166	150	139	142	136	128
29	187	178	240	196	-	285	166	162	139	142	136	128
30	178	182	290	196	-----	230	174	158	139	139	136	128
31	178	-----	278	196	-----	210	-----	150	-----	142	132	-----
Total	5,961	5,627	8,433	6,374	5,399	6,202	5,416	5,282	4,439	4,649	4,356	3,984
Mean	192	188	272	206	193	200	181	170	148	150	141	133
Cfsm	2.06	2.01	2.91	2.21	2.07	2.14	1.94	1.82	1.58	1.61	1.51	1.42
In.	2.38	2.24	3.36	2.55	2.16	2.47	2.16	2.10	1.76	1.86	1.74	1.58
Calendar year 1953: Max	814			Min	136	Mean	203	Cfsm	2.17	In.	29.53	
Water year 1953-54: Max	478			Min	128	Mean	181	Cfsm	1.94	In.	26.36	

Peak discharge (base, 500 cfs).--Dec. 4 (12 p.m.) 632 cfs (4.43 ft); Dec. 7 (4 a.m.) 565 cfs (4.26 ft).

* Discharge measurement made on this day.

Flint River at Montezuma, Ga.

Location--Lat 32°18', long 84°03', on downstream side of left pier to right bank truss of bridge on State Highways 26 and 49, half a mile downstream from Buck Creek, 1 mile west of Montezuma, Macon County, and at mile 180.7.

Drainage area--2,900 sq mi, approximately.

Records available--January 1905 to December 1909, January 1911 to December 1912, July 1930 to June 1933, October 1934 to September 1954. Gage-height records collected at same site since 1904 are contained in reports of U. S. Weather Bureau.

Gage--Water-stage recorder. Datum of gage is 255.83 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. January 1905 to December 1909, and January 1911 to December 1912, chain gage at site $1\frac{1}{2}$ miles upstream at same datum. July 1, 1930, to June 30, 1933, chain gage, and Oct. 1, 1934, to Dec. 12, 1941, wire-weight gage, at present site and datum.

Average discharge--22 years (1930-32, 1934-54), 3,614 cfs.

Extremes--Maximum discharge during year, 21,200 cfs Dec. 9 (gage height, 17.4 ft); minimum daily, 635 cfs Sept. 15, 1905-9, 1911-12, 1930-33, 1934-54: Maximum discharge, 68,900 cfs Nov. 30, 1948 (gage height, 25.2 ft); minimum daily, 585 cfs Oct. 26, 1941. Maximum stage known, 27.4 ft Mar. 17, 1929, from U. S. Weather Bureau (discharge, 92,300 cfs, from rating curve extended above 65,000 cfs by logarithmic plotting).

Remarks--Records good. Moderate diurnal fluctuation at low flow caused by powerplant above station.

Revisions (water years)--WSP 822: Drainage area. WSP 852: 1936(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 31 to Aug. 6)

0.6	635	11.0	7,950
1.0	775	14.0	12,700
3.0	1,660	17.3	20,900
6.0	3,570		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16,200	1,990	2,110	7,510	3,640	3,500	7,410	2,290	1,560	1,010	1,050	792
2	12,100	1,990	*2,050	7,730	3,500	3,570	6,340	2,350	1,510	970	1,070	740
3	8,440	1,940	2,050	7,310	3,430	3,920	4,940	2,250	1,410	970	*1,180	758
4	5,620	1,940	2,800	6,620	3,290	3,850	4,150	2,480	1,410	950	1,320	758
5	4,220	1,990	5,020	5,800	3,220	3,640	3,710	3,180	1,460	1,090	1,180	722
6	3,640	2,050	7,010	5,100	3,150	3,430	3,570	3,290	1,460	1,320	1,050	705
7	3,290	2,250	11,000	4,780	3,150	3,150	3,570	2,740	1,510	1,320	990	705
8	3,010	2,290	17,500	4,460	3,080	3,010	3,570	2,350	1,410	1,320	950	670
9	2,870	2,250	20,900	4,220	3,010	2,840	3,580	2,050	1,360	1,180	990	670
10	2,740	2,170	18,900	4,150	3,010	2,870	3,150	1,880	1,320	1,070	1,030	670
11	2,610	2,050	14,600	4,080	2,940	2,800	3,010	1,830	1,270	1,030	1,050	670
12	2,540	1,990	11,700	4,000	3,010	2,740	2,870	*1,770	1,270	1,460	990	670
13	2,480	1,990	10,300	4,000	3,150	2,740	2,800	1,820	1,220	1,270	930	670
14	2,350	1,940	9,840	3,780	3,150	3,010	2,870	1,940	1,410	1,220	850	670
15	2,350	1,940	10,300	3,710	3,010	4,150	3,080	2,290	1,460	1,180	810	*635
16	2,290	1,940	12,100	3,640	2,940	5,020	3,080	2,870	1,460	1,270	792	670
17	*2,480	1,940	13,700	3,640	2,940	4,860	3,010	3,010	1,460	1,720	*775	722
18	2,540	1,940	12,700	3,850	3,150	4,150	3,010	2,800	1,410	1,720	775	810
19	2,480	1,940	10,800	4,080	3,500	3,500	2,870	2,480	1,410	1,880	870	792
20	2,420	1,940	8,830	4,000	3,500	3,570	2,740	2,350	1,320	1,990	970	775
21	2,350	1,990	7,110	3,850	3,500	4,540	2,540	2,290	1,360	1,660	970	740
22	2,250	2,110	5,980	3,850	3,640	5,440	2,350	2,270	1,270	1,360	1,070	722
23	2,170	2,450	6,240	4,220	*3,920	5,620	2,350	1,940	1,220	1,270	1,220	705
24	2,110	2,740	6,820	5,180	4,150	4,940	2,250	1,770	1,220	1,180	1,320	670
25	2,110	2,800	7,310	5,440	4,150	4,000	2,170	1,660	*1,180	1,180	1,220	652
26	2,050	2,740	7,620	5,100	4,000	3,570	2,110	1,610	1,140	1,180	1,050	652
27	1,990	2,540	7,210	4,940	3,850	3,570	2,050	1,560	1,180	1,180	950	652
28	1,990	2,350	6,340	4,620	3,640	4,540	2,050	1,510	1,220	1,270	890	670
29	2,050	2,250	5,800	4,300	-	5,980	2,050	1,570	1,140	1,360	890	670
30	2,050	2,170	5,860	4,000	-----	7,010	2,170	1,560	1,050	1,180	810	652
31	1,990	-----	6,910	3,780	-----	7,820	-----	1,510	-----	1,090	870	-----
Total	109,760	64,520	277,430	145,740	94,620	127,250	95,180	67,000	40,080	39,850	30,982	21,059
Mean	3,541	2,151	8,949	4,701	3,379	4,105	3,173	2,161	1,336	1,285	999	702
Cfsm	1.22	0.742	3.09	1.62	1.17	1.42	1.09	0.745	0.461	0.443	0.344	0.242
In.	1.41	0.83	3.58	1.87	1.21	1.63	1.22	0.86	0.51	0.51	0.40	0.27

Calendar year 1953: Max 33,400 Min 1,460 Mean 5,201 Cfsm 1.79 In. 24.35
Water year 1953-54: Max 20,900 Min 635 Mean 3,051 Cfsm 1.05 In. 14.28

Peak discharge (base, 13,000 cfs)--Dec. 9 (12 m.) 21,200 cfs (17.4 ft); Dec. 17 (12 m.) 13,900 cfs (14.8 ft).

* Discharge measurement made on this day.

Flint River at Oakfield, Ga.

Location.--Lat 31°46', long 83°59', on downstream side of center pier of Georgia South-western & Gulf Railroad Bridge, 1 mile southwest of Oakfield, Worth County, 1 mile upstream from Jones Creek, 9.7 miles downstream from Crisp County Dam, and at mile 125.0.

Drainage area.--3,860 sq mi, approximately.

Records available.--January 1930 to June 1933, October 1934 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 193.29 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--22 years (1930-32, 1934-54), 4,548 cfs.

Extremes.--Maximum discharge during year, 21,700 cfs Dec. 12 (gage height, 17.2 ft); minimum daily, 165 cfs Sept. 6.
1930-33, 1934-54: Maximum discharge, 60,500 cfs Dec. 3, 1948 (gage height, 30.1 ft); minimum daily, 152 cfs June 8, 1941.
Maximum stage known, 35.1 ft Jan. 20, 1925, from floodmark.

Remarks.--Records good except those below 1,000 cfs, which are fair. Flow regulated by Crisp County powerplant and reservoir (capacity, 35,000 acre-ft). Normal operation of of powerplant does not materially affect figures of monthly runoff.

Revisions (water years).--WSP 822: Drainage area. WSP 852: 1936(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.7	160	7.0	6,370
1.0	290	8.0	7,720
1.5	560	10.0	10,500
2.0	905	12.0	13,400
4.0	2,760	16.5	20,400
6.0	5,080		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16,900	1,020	3,900	12,500	5,080	5,080	8,140	2,300	2,670	1,720	473	1,520
2	16,200	2,320	3,870	12,800	5,080	5,080	8,420	1,280	2,300	1,690	1,350	1,530
3	13,200	2,910	3,840	10,500	4,120	4,800	7,720	3,630	2,130	1,800	1,950	1,320
4	11,800	2,720	3,270	10,700	4,120	5,080	5,850	4,140	2,110	498	1,820	1,100
5	7,020	2,720	5,980	8,640	4,240	4,000	5,850	3,020	1,340	362	1,610	365
6	6,110	2,730	6,110	7,440	4,240	4,000	5,460	3,360	500	1,430	1,660	165
7	4,720	2,570	6,110	6,780	3,760	4,840	3,880	3,590	1,770	1,680	1,580	852
8	3,420	1,010	10,400	6,500	4,600	4,360	4,120	2,760	1,900	1,760	478	988
9	3,420	2,380	14,800	6,500	3,310	4,360	4,120	1,750	1,870	1,570	1,830	970
10	4,000	2,820	19,600	6,370	3,640	4,240	4,000	2,660	1,730	1,570	1,910	964
11	2,290	2,770	20,400	6,370	5,200	2,980	3,640	2,860	1,720	555	1,630	890
12	3,210	2,840	20,400	6,240	4,120	3,090	4,480	2,870	891	1,330	1,600	359
13	3,490	2,760	17,400	5,460	3,090	2,980	3,360	2,460	543	1,610	1,620	798
14	3,440	2,640	15,600	5,460	3,780	4,720	3,090	4,260	1,830	1,530	1,200	1,100
15	3,450	1,680	15,000	5,480	4,240	4,240	3,640	1,740	1,770	2,030	376	1,080
16	3,410	2,430	14,800	*5,330	3,880	4,840	3,880	1,120	1,720	2,420	1,360	1,060
17	3,280	2,710	15,000	2,540	3,640	5,850	4,720	3,460	2,200	1,530	1,610	1,040
18	1,570	2,690	14,000	4,600	3,880	5,850	3,530	4,320	1,710	*544	1,560	890
19	2,590	2,710	14,800	6,110	3,880	5,850	3,640	3,910	2,440	1,370	1,550	398
20	3,110	2,720	13,700	5,590	4,000	5,200	3,640	2,690	638	1,980	1,570	868
21	3,090	2,570	11,600	5,200	4,840	4,000	2,760	2,830	1,440	1,720	1,200	1,090
22	*3,100	980	10,100	4,360	5,080	4,840	2,760	2,830	1,700	2,110	362	1,080
23	3,090	2,490	10,200	6,240	4,240	5,980	2,650	948	1,670	1,890	1,310	1,070
24	2,850	3,920	9,960	4,600	4,800	6,500	5,310	2,000	1,720	1,550	1,580	1,070
25	1,200	3,930	10,800	7,300	5,850	6,760	2,440	2,910	1,700	1,000	1,550	792
26	2,600	3,780	11,500	6,240	5,200	5,200	3,090	2,300	1,630	2,280	1,560	362
27	3,020	3,740	11,200	6,240	5,850	3,880	3,310	2,190	710	1,620	1,550	892
28	2,900	2,680	10,500	6,760	4,120	*5,720	2,600	2,210	1,450	1,540	1,390	.050
29	2,870	1,650	9,540	6,370	-	5,850	2,460	1,640	1,710	1,590	342	1,080
30	2,860	2,550	10,900	5,480	-----	6,370	2,410	638	1,710	1,600	1,420	.060
31	2,820	-----	11,900	5,080	-----	7,720	-----	2,090	-----	1,630	1,490	-----
Total	146,850	77,420	357,180	205,920	122,020	154,060	122,970	80,766	49,222	47,509	42,271	28,003
Mean	4,737	2,581	11,520	6,643	4,358	4,970	4,099	2,605	1,641	1,533	1,364	933
Cfsm	1.23	0.669	2.98	1.72	1.13	1.29	1.06	0.675	0.425	0.397	0.353	0.242
In.	1.42	0.75	3.44	1.98	1.18	1.49	1.18	0.78	0.47	0.46	0.41	0.27

Calendar year 1953: Max 31,800 Min 816 Mean 6,265 Cfsm 1.82 In. 22.05
Water year 1953-54: Max 20,400 Min 165 Mean 3,929 Cfsm 1.02 In. 13.83

* Discharge measurement made on this day.

Kinchafonee Creek at Preston, Ga.

Location.--Lat 32°03', long 84°33', near right bank at downstream side of bridge on State Highway 41, 1 mile southwest of Preston, Webster County, and 1 mile upstream from Harrel Mill Creek.

Drainage area.--197 sq mi.

Records available.--October 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 337.7 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department).

Extremes.--Maximum discharge during year, 2,980 cfs Dec. 7 (gage height, 7.65 ft); minimum, 33 cfs Sept. 15 (gage height, 1.63 ft).
1951-54: Maximum discharge, 6,000 cfs May 4, 1953 (gage height, 8.80 ft), minimum, that of Sept. 15, 1954.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 6				Dec. 7 to Sept. 30			
3.2	104	5.5	570	1.6	32	5.0	405
4.0	196	6.0	860	2.0	46	5.5	585
5.0	390	6.8	1,650	2.5	66	6.0	860
				3.0	96	6.5	1,300
				3.5	140	7.2	2,200
				4.0	202		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	308	108	144	825	260	290	*330	100	66	38	69	40
2	242	112	150	585	242	320	280	100	66	38	64	37
3	218	112	150	470	233	270	251	96	61	42	62	36
4	196	112	486	420	233	233	225	*96	57	54	55	36
5	182	127	1,110	392	225	217	210	96	54	69	51	35
6	168	162	1,590	*368	217	202	202	89	52	89	47	35
7	156	168	2,060	342	217	202	202	83	54	96	45	35
8	144	150	1,740	350	217	194	202	80	52	72	51	35
9	132	132	860	320	217	194	187	77	50	65	62	34
10	132	127	680	350	210	187	174	77	49	62	58	37
11	127	127	655	355	217	187	174	*77	51	62	*48	38
12	122	122	705	350	210	187	168	80	55	57	45	37
13	117	122	760	320	210	187	156	86	56	49	41	35
14	117	117	1,110	300	210	242	150	135	56	46	39	34
15	117	117	1,300	290	210	242	145	150	58	51	38	34
16	175	122	860	290	210	225	140	125	66	83	38	45
17	*168	122	808	300	217	187	174	103	69	89	37	60
18	175	122	488	300	217	174	194	89	135	103	38	59
19	156	122	435	280	217	202	162	83	140	100	44	55
20	150	132	392	270	210	300	140	83	77	77	62	49
21	132	156	452	270	225	380	130	83	66	60	96	44
22	127	189	525	280	251	350	130	77	58	53	116	42
23	122	251	608	355	233	225	135	74	54	56	111	39
24	117	278	680	342	233	202	125	72	*61	96	77	38
25	112	*260	585	290	*310	194	116	66	55	120	59	37
26	108	196	505	270	355	187	111	66	54	111	52	40
27	108	168	488	260	290	210	107	66	62	116	48	43
28	112	150	435	260	251	392	103	69	48	89	45	41
29	117	144	488	251	-	608	103	72	*39	69	44	39
30	112	138	608	251	-----	608	103	74	58	58	42	38
31	108	-----	790	260	-----	420	-----	69	57	41	-----	-----
Total	4,577	4,465	22,447	10,506	6,547	8,198	5,029	2,693	1,849	2,225	1,725	1,207
Mean	148	149	724	339	234	264	168	86.9	61.6	71.8	55.6	40.2
Cfsm	0.751	0.756	3.68	1.72	1.19	1.34	0.853	0.441	0.313	0.364	0.282	0.204
In.	0.87	0.84	4.24	1.98	1.24	1.54	0.95	0.51	0.35	0.42	0.33	0.23

Calendar year 1953: Max	3,860	Min	56	Mean	309	Cfsm	1.57	In.	21.32
Water year 1953-54: Max	2,060	Min	34	Mean	196	Cfsm	0.995	In.	13.50

Peak discharge (base, 900 cfs).--Dec. 7 (7 p.m.) 2,980 cfs (7.65 ft); Dec. 15 (4 a.m.) 1,460 cfs (6.65 ft); Jan. 1 (2 a.m.) 940 cfs (6.10 ft).

* Discharge measurement made on this day.

Flint River at Albany, Ga.

Location.--Lat 31°36', long 84°09', on right bank at downstream side of Georgia Northern Railway bridge in Albany, Dougherty County, at mile 103.4.

Drainage area.--5,230 sq mi, approximately.

Records available.--February 1897 to December 1901 (gage heights only), January 1902 to June 1921, September 1929 to September 1954. Gage-height records collected at site 1 mile downstream since 1893 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 150.03 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Feb. 1, 1897, to Dec. 31, 1901, staff gage at site 1 mile downstream at datum 1.3 ft lower. Jan. 1, 1902, to Apr. 19, 1904, staff gage, and Apr. 20, 1904, to June 30, 1921, chain gage, at site 1 mile downstream at datum 2.0 ft lower.

Average discharge.--43 years (1902-20, 1929-54), 6,362 cfs.

Extremes.--Maximum discharge during year, 26,800 cfs Dec. 12 (gage height, 20.2 ft); minimum daily, 645 cfs Sept. 6, 7.

1902-21, 1929-54: Maximum discharge, 64,800 cfs Jan. 22, 1943 (gage height, 31.6 ft); minimum daily, 426 cfs Aug. 24, 1930.

Maximum stage known, 37.84 ft Jan. 21, 1925, from floodmark, present site and datum (discharge, 92,000 cfs, from rating curve extended above 60,000 cfs).

Remarks.--Records good. Flow regulated by powerplants above station; capacity of reservoirs insufficient to materially affect figures of monthly runoff.

Revisions (water years).--WSP 822: Drainage area. WSP 1052: 1930, 1934(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.6	620	4.0	2,490
2.0	835	7.0	7,060
3.0	1,540	20.1	26,700

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20,700	2,580	4,240	18,900	6,180	6,350	9,580	2,830	3,350	2,130	1,390	2,770
2	21,300	2,450	4,540	20,100	6,700	7,430	11,200	2,520	2,950	2,060	1,430	2,910
3	18,900	3,500	4,700	17,000	6,180	6,350	10,600	3,300	2,660	2,510	2,350	2,800
4	14,600	3,500	4,390	16,000	6,010	7,060	6,880	5,340	2,680	1,180	1,980	1,600
5	10,800	3,500	6,520	13,900	5,670	6,010	7,620	4,390	2,110	807	2,090	1,270
6	7,620	3,570	7,990	11,600	5,840	5,500	7,430	3,940	1,360	1,230	2,020	645
7	5,670	3,570	8,710	11,100	5,500	5,500	5,020	4,390	1,700	2,090	2,080	645
8	4,540	2,920	12,400	9,410	5,500	6,180	5,670	3,790	2,440	2,320	1,580	1,260
9	4,540	2,500	18,400	9,410	5,180	*5,340	5,020	2,820	2,280	2,160	1,710	1,110
10	4,860	3,570	23,000	9,240	4,860	5,500	5,840	3,140	2,160	2,150	2,940	842
11	4,240	3,640	*25,200	9,240	5,670	4,860	4,700	3,570	2,160	1,430	2,470	944
12	3,720	3,640	26,700	9,070	6,180	4,540	5,340	3,640	1,530	1,340	2,130	952
13	4,240	3,570	23,700	7,620	4,860	4,390	4,240	3,360	1,370	2,090	2,050	952
14	4,240	3,570	21,600	7,990	4,860	4,700	4,540	4,540	1,740	1,970	1,850	908
15	4,390	3,360	20,300	7,810	5,180	6,010	4,700	3,940	2,390	2,140	1,230	934
16	4,240	3,020	21,300	7,990	5,340	5,670	4,700	2,340	2,170	3,190	1,160	929
17	4,240	4,430	21,300	6,010	4,860	6,700	7,240	3,640	2,730	2,040	1,930	876
18	3,790	3,430	20,300	5,180	5,340	7,990	4,390	5,500	2,240	1,490	2,010	740
19	2,960	3,640	19,700	8,170	5,180	7,990	4,700	4,540	3,200	1,560	1,800	661
20	3,640	3,500	18,500	a8,200	5,180	7,620	4,860	4,090	1,470	2,620	1,950	864
21	3,790	3,160	16,500	a8,100	5,670	5,180	4,540	*3,570	1,930	2,260	1,900	1,460
22	*3,940	2,390	14,000	a8,000	6,700	6,350	4,240	3,510	2,330	2,290	1,160	1,260
23	3,940	2,940	15,200	a7,600	5,840	7,810	3,790	2,320	2,170	2,710	1,000	1,350
24	3,790	3,940	15,100	a8,200	5,840	8,350	4,090	2,090	2,320	1,910	2,140	1,400
25	3,660	4,860	15,800	a7,900	7,240	7,990	4,090	3,530	2,190	1,910	2,000	1,360
26	2,210	4,860	17,000	a8,400	7,060	6,880	3,090	2,980	2,090	*2,490	1,810	712
27	3,640	4,860	17,000	a8,800	7,430	5,500	4,240	2,890	1,610	2,720	1,920	990
28	3,640	4,240	15,500	a8,600	6,700	6,880	3,620	2,830	1,550	2,460	2,180	1,300
29	3,640	3,790	13,900	8,350	-	7,430	3,290	2,490	2,240	2,180	1,130	1,420
30	3,640	2,680	15,800	6,700	-----	7,620	3,720	1,720	2,510	2,240	973	1,580
31	3,570	-----	18,000	7,620	-----	10,300	-----	1,820	-----	2,040	2,410	-----
Total	192,690	104,180	487,290	302,210	162,750	201,980	162,980	105,370	65,430	63,717	56,783	37,244
Mean	6,216	3,473	15,720	9,749	5,812	6,515	5,433	3,399	2,181	2,055	1,832	1,241
Cfs/m	1.19	0.664	3.01	1.86	1.11	1.25	1.04	0.650	0.417	0.393	0.350	0.237
In.	1.37	0.74	3.47	2.14	1.16	1.44	1.16	0.75	0.47	0.45	0.40	0.26

Calendar year 1953: Max 41,100 Min 1,640 Mean 8,139 Cfs/m 1.56 In. 21.15
 Water year 1953-54: Max 26,700 Min 645 Mean 5,322 Cfs/m 1.02 In. 13.81

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of weather records and records for station at Bainbridge.

Ichawaynochaway Creek at Milford, Ga.

Location.--Lat 31°22', long 84°32', on downstream end of left bank pier of bridge on county road at Milford, Baker County, 2½ miles upstream from Alligator Creek and 5½ miles upstream from Chickasawhatchee Creek.

Drainage area.--620 sq mi, approximately.

Records available.--August 1905 to December 1907, October 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 150.3 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department). Aug. 29, 1905, to Dec. 31, 1907, staff or chain gages at several sites within 450 ft of present site at various datums. Oct. 1, 1939, to Nov. 11, 1942, staff gage, and Nov. 12, 1942, to Dec. 4, 1952 (corrected), water-stage recorder, at site 100 ft downstream at present datum.

Average discharge.--15 years (1939-54), 827 cfs.

Extremes.--Maximum discharge during year, 4,010 cfs Dec. 16, Jan. 2 (gage height, 7.9 ft); minimum, 117 cfs Sept. 16, 1905-7, 1939-54. Maximum discharge, 10,100 cfs Jan. 21, 1943 (gage height, 13.9 ft); minimum, that of Sept. 16, 1954.

Remarks.--Records good. Moderate diurnal fluctuation at low flow.

Revisions.--WSP 922: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.8	114	3.0	1,350
1.2	254	5.0	2,300
2.0	685	7.8	3,940

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,100	382	478	3,380	842	975	1,400	468	333	214	536	169
2	1,540	372	473	3,730	828	*1,050	1,220	484	337	222	301	159
3	1,300	367	462	2,900	820	1,080	935	457	314	222	279	156
4	1,080	382	538	2,500	792	1,010	778	457	292	222	296	150
5	835	397	828	1,900	764	895	711	524	288	203	314	150
6	704	446	1,220	1,670	757	806	778	640	279	210	301	144
7	633	500	*1,630	1,540	750	730	895	659	254	222	275	138
8	572	542	2,350	1,450	750	685	959	512	246	234	283	141
9	524	542	*2,550	1,350	750	666	919	451	242	242	362	138
10	495	524	2,250	1,300	737	659	785	392	226	238	352	135
11	484	500	2,200	1,270	737	652	698	377	246	250	372	132
12	462	462	2,000	1,270	737	652	652	377	424	234	362	135
13	446	446	1,900	1,240	724	652	620	392	324	210	282	132
14	441	430	2,150	1,220	718	659	590	473	279	210	230	123
15	435	419	3,080	1,150	692	730	*584	626	258	*199	214	120
16	424	419	3,940	1,120	685	813	590	771	267	206	203	123
17	462	414	3,380	1,080	692	799	685	698	292	324	191	138
18	495	419	2,550	*1,080	685	718	778	554	314	397	195	153
19	500	419	1,950	1,050	678	698	771	468	352	414	246	169
20	500	419	1,580	1,010	685	820	757	419	403	367	*271	169
21	495	451	1,450	1,010	718	1,010	620	408	500	352	262	159
22	462	512	1,580	975	750	1,150	548	382	512	271	230	159
23	441	590	2,000	1,010	771	1,220	530	357	387	199	230	144
24	424	666	2,900	1,050	813	1,050	524	*314	296	199	222	144
25	408	718	3,200	1,050	865	842	512	319	271	246	222	138
26	*382	718	2,750	1,050	895	724	500	314	275	305	203	144
27	367	666	2,450	1,010	919	685	484	310	262	451	191	141
28	367	620	2,100	975	943	718	484	310	238	640	184	144
29	382	566	1,950	943	-----	835	473	324	214	935	180	*156
30	397	518	2,000	895	-----	1,050	468	333	218	975	180	150
31	397	-----	2,350	872	-----	1,240	-----	333	-----	750	166	-----
Total	18,954	14,826	62,237	43,850	21,497	26,273	21,228	13,893	9,143	10,363	8,115	4,353
Mean	611	494	2,008	1,415	768	848	708	448	305	334	262	145
Cfsm	0.985	0.787	3.24	2.28	1.24	1.37	1.14	0.723	0.492	0.539	0.423	0.234
In.	1.14	0.89	3.74	2.63	1.29	1.58	1.27	0.83	0.55	0.62	0.49	0.28

Calendar year 1953: Max 3,940 Min 218 Mean 668 Cfsm 1.40 In. 19.01
Water year 1953-54: Max 3,940 Min 120 Mean 698 Cfsm 1.13 In. 15.29

Peak discharge (base, 3,000 cfs).--Dec. 16 (12 m.) 4,010 cfs (7.9 ft); Dec. 25 (2 a.m.) 3,320 cfs (6.9 ft); Jan. 2 (2 a.m.) 4,010 cfs (7.9 ft).

* Discharge measurement made on this day.

Flint River at Bainbridge, Ga.

Location.--Lat 30°55', long 84°34', on downstream side of right major pier of Decatur County Memorial Bridge on U. S. Highway 84 at Bainbridge, Decatur County, a quarter of a mile downstream from Atlantic Coast Line Railroad bridge and at mile 29.0.

Drainage area.--7,350 sq mi, approximately.

Records available.--January 1908 to December 1913, December 1928 to September 1954. Gage-height records collected at same site since 1904 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 58.06 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Jan. 1, 1908, to Dec. 31, 1913, chain gage at same site at datum 0.3 ft higher. December 1928 to January 1929, chain gage at same site at present datum.

Average discharge.--30 years (1908-13, 1929-54), 8,531 cfs.

Extremes.--Maximum discharge during year, 24,500 cfs Dec. 14 (gage height, 21.3 ft); minimum, 2,000 cfs Sept. 20, 21.
1908-13, 1928-54: Maximum discharge, 83,200 cfs Mar. 21, 1929 (gage height, 37.73 ft); minimum, 1,960 cfs Sept. 18, 19, 1951.
Maximum stage known, 40.9 ft Jan. 24, 1925, present datum (discharge, 101,000 cfs, from rating curve extended above 70,000 cfs).

Remarks.--Records good except those for periods of no gage-height record and indefinite stage-discharge relation, which are fair. Some regulation by powerplants above station. Capacity of reservoirs insufficient to affect materially figures of monthly runoff.

Cooperation.--Five discharge measurements furnished by Corps of Engineers.

Revisions (water years).--WSP 697: 1908-13. WSP 822: Drainage area.

Rating table, water year 1953-54, except period of indefinite stage-discharge relation (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 7-15, Jan. 14 to Apr. 6)

1.1	13	5.0	332
1.4	25	8.0	820
2.0	58	10.0	1,350
3.0	129	12.7	2,460

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17,600	5,150	4,610	21,400	10,800	9,540	11,000	5,520	3,400	3,440	3,760	2,630
2	18,400	4,790	5,060	22,900	10,100	9,160	11,200	5,240	*4,400	3,440	3,520	3,200
3	20,700	4,080	5,520	24,200	10,200	*9,670	12,100	4,970	*4,400	3,440	2,840	3,440
4	20,300	4,790	5,720	23,600	9,930	9,280	11,800	5,060	*4,200	3,440	3,120	3,440
5	a17,800	4,970	5,820	21,900	9,670	9,410	10,100	6,320	4,300	3,360	3,360	3,200
6	a15,700	4,970	7,170	20,300	9,280	8,920	9,930	6,120	4,000	2,770	3,280	2,700
7	a13,800	4,970	8,800	18,100	9,160	8,440	9,800	5,920	3,700	2,630	3,280	2,420
8	a12,100	5,060	*10,100	16,900	8,920	8,200	8,680	6,120	3,520	3,050	3,200	2,210
9	a10,700	4,680	10,200	15,600	8,800	8,440	8,440	5,820	3,800	3,280	3,280	2,280
10	a9,500	4,160	16,600	15,000	8,680	8,080	8,200	5,240	4,000	3,360	2,770	2,350
11	a8,100	4,880	19,500	14,400	8,200	7,960	8,080	4,880	3,600	3,280	3,520	2,280
12	a7,300	4,970	22,000	14,000	8,440	7,610	7,720	5,240	3,800	3,280	3,600	2,210
13	a6,800	4,970	23,800	13,800	8,920	7,170	7,500	5,330	3,600	2,770	3,360	2,210
14	a6,600	4,970	24,500	12,900	8,200	7,060	*7,280	5,240	3,300	*2,980	3,280	2,210
15	a6,600	4,880	24,000	12,600	7,960	7,060	6,950	5,820	2,800	3,200	3,200	2,140
16	6,620	4,790	23,600	12,500	8,080	7,840	6,950	6,020	3,700	3,200	2,910	2,140
17	6,420	4,430	24,200	12,200	8,200	7,840	7,060	5,060	3,600	3,600	2,490	2,140
18	6,320	4,790	24,400	11,100	7,840	8,440	8,200	5,150	3,600	3,520	2,770	2,140
19	6,120	4,700	23,800	11,400	7,960	9,040	7,280	6,320	3,800	3,360	*3,050	2,070
20	5,330	4,880	22,700	11,500	7,960	9,540	7,060	6,320	4,100	2,840	2,910	2,000
21	5,620	4,880	21,900	11,400	7,960	9,410	7,060	5,920	3,900	3,280	3,050	2,000
22	5,720	4,790	20,500	11,200	8,200	8,440	6,840	5,520	3,400	3,520	3,120	2,210
23	5,720	4,340	18,900	10,700	8,680	8,680	6,520	5,520	4,200	3,360	2,940	2,420
24	5,720	4,250	19,100	11,500	8,680	8,540	6,220	4,900	3,900	3,600	2,420	2,350
25	5,620	5,060	19,500	11,100	8,560	9,930	6,120	*3,900	4,000	3,360	2,700	2,420
26	5,420	5,620	20,300	11,800	9,280	9,930	6,120	*4,900	3,920	3,440	2,980	2,490
27	*4,610	5,920	21,200	12,300	9,410	9,160	5,620	*4,700	3,840	3,200	2,980	2,350
28	5,060	5,920	21,400	12,100	9,670	8,440	6,020	4,500	3,440	3,840	2,840	2,070
29	5,240	5,720	20,700	12,100	---	8,680	5,820	4,400	2,980	3,840	2,980	2,210
30	5,240	5,330	19,700	11,900	---	9,410	5,420	4,200	3,280	3,840	2,840	2,350
31	5,150	---	20,000	11,100	---	9,800	---	3,900	---	3,920	2,350	---
Total	282,730	147,910	535,300	453,500	247,860	270,120	237,090	164,070	112,160	103,440	94,600	72,280
Mean	9,120	4,930	17,270	14,630	8,852	8,714	7,903	5,293	3,739	3,337	3,052	2,409
Cfsm	1.24	0.671	2.35	1.99	1.20	1.19	1.08	0.720	0.509	0.454	0.415	0.328
In.	1.43	0.75	2.71	2.29	1.25	1.37	1.20	0.83	0.57	0.52	0.48	0.37
Calendar year 1953: Max	37,300											
Water year 1953-54: Max	24,500											
Min	4,000											
Mean	10,130											
Cfsm	1.38											
In.	18.71											

* Discharge measurement made on this day.

A No gage-height record; discharge interpolated or estimated on basis of records for station at Albany.

Note.--Stage-discharge relation indefinite May 24 to June 25; discharge estimated on basis of 6 discharge measurements and records for station at Albany.

Spring Creek near Iron City, Ga.

Location.--Lat 31°03', long 84°43', on right bank 125 ft downstream from highway bridge, 1½ miles downstream from Aycock Creek, 1½ miles upstream from Dry Creek, 5 miles north of Brinson, and 5½ miles northeast of Iron City, Seminole County.

Drainage area.--520 sq mi, approximately.

Records available.--October 1920 to June 1921, June 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 85.7 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Oct. 21, 1920, to June 30, 1921, staff gage at site 125 ft upstream at different datum. June 11, 1937, to Oct. 17, 1952, staff gage at site 125 ft upstream at present datum.

Average discharge.--17 years (1937-54), 504 cfs.

Extremes.--Maximum discharge during year, 2,460 cfs Dec. 27, Jan. 3 (gage height, 12.7 ft); minimum, 13 cfs Sept. 29, 30.

1920-21, 1937-54: Maximum discharge, 12,600 cfs Apr. 2, 1948 (gage height, 19.9 ft, from floodmark), from rating curve extended above 8,000 cfs by logarithmic plotting; minimum, that of Sept. 29, 30, 1954.

Remarks.--Records good.

Revisions (water years).--WSP 852: Drainage area. WSP 1052: 1939-40(M), 1942(M), 1944(M).

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	425	102	141	1,900	580	468	384	251	133	50	46	33
2	453	*98	133	2,160	546	483	397	256	137	48	43	32
3	468	98	129	2,410	546	*498	411	230	125	47	42	31
4	425	98	141	2,360	514	498	425	215	113	45	38	30
5	358	105	181	2,060	498	498	425	210	98	44	38	30
6	308	113	210	1,740	483	498	498	200	89	45	38	30
7	273	117	273	1,500	468	468	632	195	84	44	37	29
8	246	125	*332	1,360	453	425	686	186	80	42	34	29
9	230	125	397	1,240	439	397	668	176	77	43	34	27
10	215	121	468	1,150	425	371	614	163	74	43	34	26
11	200	117	530	1,100	425	358	563	150	71	43	33	25
12	190	113	597	1,050	411	345	514	141	73	42	30	24
13	181	109	686	1,000	397	345	468	137	73	40	29	22
14	172	105	780	925	397	332	*425	141	71	*38	29	20
15	163	102	900	900	384	320	384	141	69	37	27	18
16	154	98	1,120	880	371	308	371	145	68	37	27	18
17	150	98	1,360	860	371	296	358	150	68	37	26	17
18	145	94	1,660	820	358	296	332	150	69	36	26	17
19	141	91	1,580	*780	358	320	308	141	71	36	*26	18
20	137	94	1,300	761	358	371	308	137	70	36	25	18
21	133	94	1,150	723	358	384	320	129	67	36	27	18
22	129	105	1,100	723	371	411	345	121	65	34	34	17
23	125	125	1,240	723	371	425	320	113	62	32	40	16
24	121	137	1,390	686	384	439	284	109	59	32	40	16
25	113	145	1,860	668	411	453	262	*102	57	40	39	15
26	109	158	2,260	650	425	453	251	98	57	54	37	15
27	*109	163	2,460	632	425	397	240	94	59	55	35	15
28	109	158	2,310	632	439	371	230	94	54	61	35	15
29	105	158	2,060	632	-	371	220	117	53	59	34	13
30	105	150	1,900	614	-----	371	220	133	51	55	34	13
31	102	-----	1,860	597	-----	371	-----	121	-----	50	34	-----
Total	6,294	3,516	32,508	34,236	11,966	12,341	11,863	4,746	2,297	1,341	1,051	647
Mean	205	117	1,049	1,104	427	398	395	153	76.6	43.3	35.9	21.6
Cfsm	0.390	0.225	2.02	2.12	0.821	0.765	0.750	0.294	0.147	0.083	0.065	0.042
In.	0.45	0.25	2.33	2.44	0.85	0.88	0.85	0.34	0.16	0.10	0.07	0.05
Calendar year 1953: Max	2,460			Min 65		Mean 401		Cfsm 0.771	In. 10.47			
Water year 1953-54: Max	2,460			Min 13		Mean 336		Cfsm 0.646	In. 8.77			

* Discharge measurement made on this day.

APALACHICOLA RIVER BASIN

Apalachicola River at Chattahoochee, Fla.

Location (revised).--Lat 30°42'03", long 84°51'33", in sec. 32, T. 4 N., R. 6 W., near center of span on downstream side of bridge on U. S. Highway 90, 0.6 mile downstream from Jim Woodruff Dam, 0.8 mile downstream from confluence of Flint and Chattahoochee Rivers, and 1 mile west of Chattahoochee.

Drainage area.--17,100 sq mi, approximately.

Records available.--December 1928 to September 1954. Prior to October 1939, published as "near River Junction." Gage-height records collected at former site October 1919 to September 1925 and at present site since October 1925 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 45.58 ft above mean sea level, datum of 1929 (U. S. Weather Bureau benchmark). Prior to Dec. 16, 1939, water-stage recorder at site seven-eighths of a mile downstream at datum 0.73 ft lower. Dec. 16, 1939, to June 25, 1952, water-stage recorder and June 26, 1952, to June 2, 1954, wire-weight gage at present site and datum.

Average discharge.--26 years, 22,050 cfs.

Extremes.--Maximum discharge during year, 61,000 cfs Dec. 16 (gage height, 17.45 ft); minimum, 5,440 cfs Sept. 29 (gage height, -1.90 ft).
1928-54: Maximum discharge, 293,000 cfs Mar. 20, 1929 (gage height, 33.97 ft, present datum), from rating curve extended above 200,000 cfs; minimum, 5,120 cfs Nov. 5, 1931; minimum gage height, -2.43 ft Nov. 5, 1931, present datum.

Remarks.--Records good except those for May 20 to June 3 and July 20-22, which are fair. Flow partly regulated by Jim Woodruff Dam since May 20, 1954.

Cooperation.--Nine discharge measurements furnished by Corps of Engineers.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34,200	11,200	12,000	50,600	29,000	27,500	30,800	16,800	8,660	9,890	10,400	6,700
2	35,100	11,000	11,500	49,300	27,800	27,700	30,000	17,000	*8,600	10,800	9,980	7,020
3	31,900	10,400	12,200	47,000	26,700	27,200	29,400	*16,300	*8,550	15,700	9,280	7,340
4	31,600	10,200	13,000	45,400	26,200	26,400	28,600	15,000	8,440	12,600	8,740	7,430
5	29,300	10,600	22,600	43,500	24,700	25,700	27,500	15,800	8,620	11,900	8,860	7,480
6	26,300	11,100	37,700	*41,400	23,100	25,100	26,800	17,800	8,940	11,600	8,820	7,050
7	22,400	11,600	48,000	39,000	22,700	24,200	27,100	18,200	9,200	10,300	8,700	6,660
8	20,600	12,000	54,900	36,600	22,800	22,500	26,600	16,800	9,580	*10,000	8,500	6,380
9	18,900	12,000	54,800	34,000	22,800	20,400	25,000	15,800	9,340	10,200	8,460	*6,140
10	17,100	10,900	49,000	31,600	*21,400	19,700	23,500	15,200	9,320	10,100	8,280	6,060
11	15,600	10,200	45,600	29,300	21,400	19,900	21,800	14,200	9,440	10,000	8,160	6,020
12	14,700	10,600	45,200	27,600	21,300	20,400	21,200	13,900	11,000	10,000	8,540	5,910
13	13,800	10,800	45,700	26,100	21,500	19,900	19,100	14,100	9,050	9,570	8,460	5,880
14	13,200	10,800	46,400	26,200	21,400	19,600	18,600	14,400	9,070	9,020	8,280	5,790
15	13,400	10,700	58,400	26,200	20,800	19,900	18,800	15,400	8,980	9,070	8,160	5,720
16	13,400	*10,600	80,800	25,900	20,000	24,300	19,700	17,200	8,890	9,110	7,980	5,660
17	13,300	10,200	80,000	25,400	19,200	24,700	19,900	16,600	9,070	9,230	7,820	5,670
18	13,300	10,100	56,400	25,500	19,000	23,200	20,200	15,000	9,820	10,300	7,340	5,760
19	13,000	10,000	51,300	25,300	20,100	23,000	20,600	14,800	11,300	11,600	7,650	5,760
20	12,000	10,100	46,400	26,300	20,900	25,000	19,100	11,600	12,200	11,600	7,770	5,730
21	11,500	10,700	44,600	29,200	21,200	26,100	17,900	8,580	11,800	11,200	7,730	5,640
22	11,600	11,000	44,100	34,200	21,500	26,000	18,600	7,060	10,900	10,700	7,940	5,600
23	11,800	11,000	46,200	37,900	22,700	25,300	18,800	7,060	*15,200	10,100	8,180	5,730
24	11,700	11,000	49,000	36,200	24,900	*25,100	18,100	8,030	*13,200	9,890	8,040	5,780
25	11,900	11,500	46,600	36,500	25,100	24,500	16,700	*10,900	17,700	10,100	7,500	5,760
26	11,900	12,400	46,200	37,500	27,700	24,200	16,000	*9,950	16,500	10,500	7,580	5,730
27	11,100	13,400	44,400	38,700	28,200	24,400	15,500	9,200	14,600	11,500	7,650	5,740
28	10,300	13,700	43,000	39,500	27,600	24,800	15,100	9,210	12,600	*12,500	7,450	5,550
29	10,800	13,500	41,700	38,100	-	27,900	16,800	9,140	10,500	12,300	7,360	5,450
30	11,200	13,000	42,700	35,900	-	30,500	17,300	9,760	9,720	11,500	7,380	5,570
31	11,100	-	47,600	30,900	-	31,100	-	9,950	-	10,800	7,050	-
Total	526,000	336,300	*1,330	*1,074.6	651,300	756,200	644,900	410,740	325,890	331,680	253,820	182,760
Mean	16,970	11,210	42,900	34,660	23,260	24,390	21,500	13,250	10,860	10,700	8,188	6,092
Cfs/m	0.992	0.656	2.51	2.03	1.36	1.43	1.26	0.775	0.635	0.626	0.479	0.356
In.	1.14	0.73	2.89	2.34	1.42	1.64	1.40	0.89	0.71	0.72	0.55	0.40

Calendar year 1953: Max 91,000 Min 9,140 Mean 24,710 Cfs/m 1.45 In. 19.62
Water year 1953-54: Max 60,800 Min 5,450 Mean 18,700 Cfs/m 1.09 In. 14.85

* Discharge measurement made on this day.

* Expressed in thousands.

Chipola River near Altha, Fla.

Location.--Lat 30°32'02", long 85°09'55", in NW $\frac{1}{4}$ sec. 32, T. 2 N., R. 9 W., on right bank on downstream side of bridge on State Highway 274, 0.9 mile downstream from Holliman Branch and $3\frac{1}{2}$ miles southwest of Altha.

Drainage area.--844 sq mi.

Records available.--November 1912 to December 1913, September 1921 to September 1927, August 1929 to September 1931, March 1943 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 19.95 ft above mean sea level (levels by Corps of Engineers). Prior to Jan. 13, 1950, staff, wire-weight, or chain gage at same site and datum.

Average discharge.--19 years (1921-27, 1929-31, 1943-54), 1,548 cfs.

Extremes.--Maximum discharge during year, 4,620 cfs Dec. 28 (gage height, 18.90 ft); minimum, 436 cfs Sept. 7, 8, 13 (gage height, 8.43 ft).
1912-13, 1921-27, 1929-31, 1943-54: Maximum discharge, 25,000 cfs Sept. 20, 1926 (gage height, 33.55 ft, from floodmarks), by slope-area determination of peak flow; minimum, 425 cfs Oct. 17-20, 1951.

Remarks.--Records excellent.

Cooperation.--One discharge measurement furnished by Corps of Engineers.

Revisions.--WSP 1002: Drainage area.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

8.4	420
10.0	1,260
14.0	2,700
19.0	4,660

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,610	680	796	4,080	1,710	2,050	1,560	1,030	900	605	696	470
2	1,590	675	775	3,810	1,670	2,030	1,560	1,000	818	640	688	470
3	1,480	670	765	3,650	1,650	1,980	1,550	990	765	640	630	453
4	1,270	670	945	3,660	1,620	1,880	1,460	*970	755	650	610	453
5	1,100	718	1,320	*3,680	1,620	1,830	1,340	945	724	708	605	448
6	1,010	745	1,900	3,580	1,580	1,810	1,280	925	713	655	574	442
7	965	745	3,780	3,360	1,550	1,790	1,260	900	708	650	574	436
8	935	745	3,690	3,130	1,520	1,720	1,230	868	708	640	542	*448
9	910	724	3,270	2,950	*1,460	1,650	1,170	851	708	708	530	448
10	884	718	3,000	2,810	1,430	1,580	1,130	834	691	655	536	458
11	862	696	2,760	2,770	1,440	1,540	1,120	840	755	630	525	453
12	829	686	2,960	2,680	1,420	1,520	1,090	834	802	620	520	448
13	812	675	3,540	2,560	1,340	1,480	1,080	829	760	605	520	442
14	802	665	3,900	2,460	1,300	1,480	1,080	829	740	595	525	442
15	790	660	3,850	2,390	1,280	1,420	1,080	824	724	590	520	574
16	802	*655	3,680	2,340	1,270	1,320	1,140	807	*708	595	505	505
17	802	645	3,650	2,310	1,260	1,280	1,210	796	724	670	520	464
18	796	640	3,780	2,260	1,240	1,240	1,300	790	724	590	520	475
19	785	650	3,850	2,170	1,260	1,360	1,360	829	708	569	565	475
20	770	660	3,760	2,080	1,240	1,650	1,300	884	713	574	595	475
21	755	686	3,580	2,030	1,340	1,710	1,190	812	735	580	525	480
22	745	770	3,900	2,080	1,350	1,730	1,120	807	670	590	558	485
23	745	915	4,160	2,130	1,360	*1,750	1,090	796	655	564	530	480
24	745	915	4,270	2,040	1,590	1,820	1,220	785	645	558	520	464
25	735	920	4,260	1,970	1,830	1,870	1,190	775	660	552	530	448
26	724	900	4,440	1,920	1,850	1,820	1,210	755	655	595	525	464
27	715	878	4,580	1,900	1,810	1,680	1,200	760	670	*686	475	490
28	730	856	4,600	1,910	1,850	1,640	1,120	840	655	660	552	458
29	702	834	4,450	1,900	-	1,610	1,080	1,010	620	665	585	453
30	691	818	4,270	1,860	-----	1,600	1,060	1,040	615	670	525	453
31	686	-----	4,290	1,780	-----	1,580	-----	930	-----	680	495	-----
Total	27,775	22,214	102,391	80,260	41,840	51,420	36,780	26,885	21,428	19,389	17,138	13,954
Mean	896	740	3,303	2,589	1,494	1,659	1,225	867	714	625	553	465
Cfs/m	1.06	0.877	3.91	3.07	1.77	1.97	1.45	1.05	0.846	0.741	0.655	0.551
In.	1.22	0.98	4.51	3.54	1.84	2.27	1.62	1.18	0.94	0.85	0.76	0.61

Calendar year 1953: Max 4,640 Min 635 Mean 1,430 Cfs/m 1.69 In. 22.99
Water year 1953-54: Max 4,600 Min 436 Mean 1,264 Cfs/m 1.50 In. 20.32

* Discharge measurement made on this day.

Econfin Creek near Bennett, Fla.

Location.--Lat 30°23'04", long 85°33'24", in sec. 20, T. 1 S., R. 13 W., near left bank on downstream side of bridge on State Highway 388, 0.5 mile downstream from Old Mill Branch and 1.6 miles southwest of Bennett.

Drainage area.--150 sq mi.

Records available.--November 1935 to September 1954.

Gage.--Staff gage read once daily. Datum of gage is 1.03 ft above mean sea level, datum of 1929.

Average discharge.--19 years, 540 cfs.

Extremes.--Maximum discharge during year, 1,120 cfs Dec. 14 (gage height, 8.20 ft); minimum, 421 cfs Sept. 13, 26, 27 (gage height, 4.74 ft).
1935-54: Maximum discharge observed, 4,860 cfs Apr. 2, 1948 (gage height, 12.46 ft), from rating curve extended above 2,200 cfs; minimum, 350 cfs July 4, 20, 21, 1952. Maximum stage known, 15.0 ft, from floodmarks, either in September 1926 or in April 1928 (based on a study of rainfall records).

Remarks.--Records good. Flow includes large ground-water inflow.

Revisions (water years).--WSP 872: 1937.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

4.7	417
6.0	598
7.0	799
9.0	1,370

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	615	494	494	730	536	669	515	482	512	454	442	427
2	654	488	490	877	530	643	506	565	477	456	456	425
3	601	487	497	636	533	581	498	530	466	449	447	423
4	575	485	571	624	527	539	497	509	461	447	488	423
5	559	526	804	615	521	521	487	488	451	533	464	425
6	549	588	992	606	516	521	*526	474	451	494	449	426
7	539	549	*965	595	514	546	520	468	449	*474	445	425
8	533	509	904	588	512	539	515	466	447	456	440	425
9	533	503	711	583	510	524	503	461	449	524	503	425
10	526	494	625	600	509	512	500	459	449	512	461	454
11	518	488	634	*627	509	509	488	456	449	480	445	436
12	518	484	752	636	506	506	485	456	461	464	*438	423
13	518	482	976	606	500	509	484	461	469	459	431	421
14	514	480	1,090	586	498	506	527	461	460	449	429	425
15	510	474	943	579	503	524	530	459	466	450	427	425
16	506	476	773	581	503	503	503	461	451	451	431	438
17	518	477	665	576	503	494	524	*457	461	447	429	439
18	524	471	630	565	494	491	518	453	527	461	429	430
19	*518	480	615	563	492	527	488	454	469	455	428	442
20	503	516	618	562	497	675	478	503	459	449	436	436
21	500	581	671	559	598	637	474	539	451	480	434	427
22	497	717	703	598	571	559	497	480	449	509	442	456
23	497	789	909	629	533	520	568	477	434	540	438	436
24	494	685	917	591	*605	512	526	459	451	565	449	*429
25	491	612	822	575	693	503	541	455	466	600	438	425
26	492	557	777	565	652	500	533	455	466	629	461	421
27	533	524	709	555	571	503	568	460	506	555	464	421
28	586	512	685	549	598	560	516	461	464	515	449	425
29	539	503	656	546	-	610	494	515	454	480	442	429
30	506	*497	685	539	-----	591	485	622	449	459	431	423
31	494	-----	748	536	-----	552	-----	578	-----	461	429	-----
Total	16,460	15,932	23,011	16,377	15,034	16,886	15,294	15,024	13,674	15,155	13,795	12,937
Mean	531	531	742	593	537	545	510	485	462	489	445	431
Cfam	3.54	3.54	4.95	3.95	3.58	3.63	3.40	3.23	3.08	3.26	2.97	2.87
In.	4.08	3.95	5.71	4.56	3.73	4.19	3.79	3.72	3.44	3.76	3.42	3.21

Calendar year 1953: Max 1,280 Min 403 Mean 523 Cfam 3.49 In. 47.38
Water year 1953-54: Max 1,090 Min 421 Mean 525 Cfam 3.50 In. 47.56

Peak discharge (base, 1,200 cfs).--No peak above base.

* Discharge measurement made on this day.

East Fork Choctawhatchee River near Midland City, Ala.

Location.--Lat 31°22', long 85°29', in NW¼ sec. 31, T. 5 N., R. 26 E., on left bank on downstream side of bridge on county road, 4 miles upstream from confluence with West Fork Choctawhatchee River, and 4 miles north of Midland City.

Drainage area.--296 sq mi.

Records available.--May 1952 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 179.1 ft above mean sea level (levels by Alabama State Highway Department).

Extremes.--Maximum discharge during year, 6,390 cfs Dec. 6 (gage height, 18.2 ft); minimum, 26 cfs Sept. 6, 7, 8, 9 (gage height, 2.45 ft).
1952-54: Maximum discharge, 15,700 cfs May 4, 1953 (gage height, 23.82 ft); minimum, that of Sept. 6, 7, 8, 9, 1954.

Remarks.--Records good except those below 50 cfs and those for period of no gage-height record, which are fair.

Rating tables, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

Oct. 1 to Jan. 6		Jan. 7 to Sept. 30	
3.3	132	2.4	21
4.0	241	2.8	60
8.0	1,190	3.4	141
14.0	3,100	4.0	243
16.0	4,110	7.0	950
18.0	6,130		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		940	153	*211	1,600	411	626	746	185	163	51	66
2		898	147	200	1,300	398	518	632	165	124	51	89
3		578	143	200	1,100	377	458	554	225	107	53	76
4		578	143	1,300	950	366	434	470	*234	100	64	64
5		626	206	*2,080	830	355	400	422	190	88	60	*64
6		530	250	*5,320	750	344	366	506	157	*78	59	70
7		411	227	*4,980	*698	344	355	458	147	72	58	57
8		321	208	4,040	850	334	344	446	134	70	73	47
9		270	206	3,140	626	334	354	446	126	67	93	47
10		241	198	2,050	626	334	323	400	122	62	*83	46
11		223	178	1,340	698	*334	312	344	117	122	94	41
12		204	168	1,140	650	323	302	302	118	134	107	36
13		193	160	1,340	626	302	323	272	167	94	112	35
14		184	154	2,230	578	302	458	*302	355	84	92	35
15		175	152	2,350	566	302	377	323	262	76	136	37
16		175	153	1,990	542	302	302	323	225	121	111	39
17		175	153	1,450	518	334	*292	434	223	182	183	34
18		180	152	1,060	494	334	282	344	187	216	176	48
19		180	150	950	482	323	434	272	159	154	165	43
20		169	170	900	470	377	698	262	151	143	114	37
21		160	211	1,100	470	506	650	234	141	126	92	59
22		154	290	1,500	494	446	578	211	129	118	80	168
23		149	458	1,800	518	400	518	205	118	103	72	101
24		146	389	1,400	494	578	494	207	110	118	96	76
25		140	378	1,200	470	650	400	188	103	146	85	68
26		135	367	1,050	470	590	344	187	103	98	245	60
27		147	367	950	470	568	388	187	118	80	458	54
28		172	310	900	482	626	698	185	126	70	163	47
29		*162	250	1,200	446	-	698	176	141	60	98	41
30		150	227	2,000	434	-	890	176	144	54	82	40
31		154	-----	2,200	422	-----	818	-----	159	-----	70	38
Total	8,720	6,718	53,551	19,924	11,182	14,414	10,184	5,041	3,228	3,474	1,763	1,207
Mean	281	224	1,727	643	399	465	339	163	108	112	56.9	40.2
Cfs/m	0.949	0.757	5.83	2.17	1.35	1.57	1.15	0.551	0.365	0.378	0.192	0.136
In.	1.10	0.84	6.73	2.50	1.40	1.81	1.28	0.63	0.41	0.44	0.22	0.15

Calendar year 1953: Max 13,600 Min 50 Mean 533 Cfs/m 1.80 In. 24.47
Water year 1953-54: Max 5,320 Min 26 Mean 382 Cfs/m 1.29 In. 17.51

Peak discharge (base, 1,600 cfs).--Dec. 6 (8 p.m.) 6,390 cfs (18.2 ft); Dec. 15 (7 a.m.) 2,450 cfs (12.3 ft); Dec. 23 (time unknown) 1,870 cfs (10.4 ft); Dec. 31 (time unknown) 2,290 cfs (11.8 ft).
* Discharge measurement made on this day.

Note.--No gage-height record Dec. 19 to Jan. 6; discharge estimated on basis of recorded range in stage and records for Choctawhatchee River near Newton.

Choctawhatchee River near Newton, Ala.

Location.--Lat 31°21', long 85°37', in SE¹ sec. 2, T. 4 N., R. 24 E., on left bank at downstream side of bridge on U. S. Highway 231, 200 ft downstream from milldam, 1,500 ft upstream from Hurricane Creek, 0.8 mile north of Newton, and 1 mile downstream from Atlantic Coast Line Railroad bridge.

Drainage area.--693 sq mi.

Records available.--June 1906 to August 1908, October 1911 to August 1912 (gage heights only), November 1921 to September 1927, May 1935 to September 1954. Gage-height records collected near same site since 1931 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 138.56 ft above mean sea level, datum of 1929, supplementary adjustment of 1943. Prior to Apr. 22, 1907, staff gage at site 1 mile upstream at different datum. Apr. 22, 1907, to Aug. 22, 1908, and Oct. 20, 1911, to Aug. 3, 1912, chain gage at site 800 ft upstream at different datum. Nov. 20, 1921, to Sept. 30, 1927, water-stage recorder at site 800 ft upstream at datum 154.83 ft above mean sea level (levels by Ludlow Engineers). May 10, 1935, to Sept. 8, 1938, wire-weight gage at present site and datum.

Average discharge.--23 years (1922-24, 1925-27, 1935-54), 1,018 cfs.

Extremes.--Maximum discharge during year, 12,000 cfs Dec. 7 (gage height, 23.0 ft); minimum daily, 61 cfs Sept. 8, from rating curve extended below 120 cfs.

1906-8, 1911-12, 1921-27, 1935-54: Maximum discharge, 25,800 cfs Jan. 20, 1936; maximum gage height, 29.6 ft May 4, 1953; minimum daily discharge, that of Sept. 8, 1954.

Maximum stage known, 45 ft Mar. 15, 1929, from information by local residents.

Remarks.--Records good except those below 100 cfs, which are fair. Moderate diurnal fluctuation at low flow caused by gristmills above station.

Revisions.--WSP 782: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 24-29, Jan. 2-31; backwater from tributary inflow May 13)

1.5	60	5.0	1,450
2.0	134	11.0	4,890
2.5	254	17.0	7,930
3.0	420	23.0	12,000

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,160	401	*527	5,160	1,150	1,450	1,840	480	375	152	158	103
2	1,780	393	504	3,670	1,090	1,260	1,500	476	311	144	178	97
3	1,890	386	509	2,960	1,060	1,120	1,260	456	283	144	172	82
4	1,560	356	5,220	2,500	1,010	1,040	1,120	*492	257	176	152	72
5	1,400	532	9,780	2,220	982	955	1,040	480	234	183	*140	66
6	1,200	715	10,100	2,000	955	900	1,670	420	*213	203	152	70
7	982	690	11,800	*1,780	955	900	1,720	382	203	195	154	64
8	845	640	10,100	1,670	928	845	1,400	358	198	232	116	61
9	740	581	6,930	1,620	900	845	1,180	347	186	243	113	54
10	690	504	4,690	1,620	900	790	1,010	340	178	*260	103	90
11	640	460	3,730	1,890	*900	790	872	334	300	295	92	70
12	586	432	3,490	1,670	872	790	790	327	317	274	86	92
13	545	432	5,000	1,560	845	790	715	440	274	232	80	90
14	504	412	6,430	1,450	818	955	*715	900	226	203	73	76
15	468	401	5,630	1,400	818	900	765	955	200	248	76	73
16	460	409	4,660	1,450	818	765	845	690	474	223	84	92
17	476	393	3,730	1,370	872	*715	982	545	572	292	98	*134
18	460	409	3,020	1,280	900	715	872	456	397	366	125	188
19	468	409	2,610	1,230	845	1,280	740	395	401	337	106	158
20	452	420	2,440	1,200	1,010	2,000	640	382	416	311	116	136
21	440	522	3,140	1,260	1,310	1,670	568	364	375	254	168	129
22	420	790	3,970	1,310	1,180	1,450	527	344	292	210	298	111
23	405	1,230	4,550	1,370	1,040	1,200	504	314	266	183	232	98
24	397	1,150	3,550	1,340	1,620	1,040	615	298	356	208	193	85
25	362	1,010	3,080	1,310	1,890	928	550	280	416	257	172	85
26	375	928	2,790	1,280	1,670	845	545	274	286	378	148	97
27	397	818	2,380	1,310	1,500	1,040	572	283	229	615	130	97
28	424	740	2,110	1,310	1,450	2,440	504	311	200	416	120	86
29	*460	615	3,200	1,230	-	2,380	496	344	178	268	114	78
30	432	586	4,950	1,180	-----	2,330	504	344	156	210	103	81
31	409	-----	5,830	1,150	-----	2,160	-----	364	-----	181	111	-----
Total	22,907	17,794	140,850	53,750	30,288	37,288	27,061	13,173	8,769	7,913	4,143	2,852
Mean	739	593	4,544	1,734	1,082	1,203	902	423	292	255	134	95.1
Cfs/m	1.07	0.856	6.56	2.50	1.56	1.74	1.30	0.613	0.421	0.368	0.193	0.137
In.	1.23	0.95	7.56	2.88	1.63	2.00	1.45	0.71	0.47	0.42	0.22	0.15
Calendar year 1953: Max	20,600				Min 142		Mean 1,565	Cfs/m 1.97	In. 26.72			
Water year 1953-54: Max	11,800				Min 61		Mean 1,005	Cfs/m 1.45	In. 19.67			

Peak discharge (base, 5,000 cfs).--Dec. 7 (6 p.m.) 12,000 cfs (23.0 ft); Dec. 14 (6 a.m.) 6,680 cfs (14.5 ft); Dec. 30 (9 p.m.) 5,930 cfs (13.0 ft).

* Discharge measurement made on this day.

Note.--Discharge computed from graph based on once-daily wire-weight-gage readings Nov. 6-30 and Dec. 9-13.

Pea River near Arton, Ala.

Location.--Lat 31°35', long 85°47', in SW $\frac{1}{4}$ sec. 7, T. 7 N., R. 23 E., on left bank at downstream side of bridge on U. S. Highway 231, 2 $\frac{1}{4}$ miles downstream from Bryors Mill Creek, 2 $\frac{1}{2}$ miles downstream from Atlantic Coast Line Railroad bridge, and 3 $\frac{1}{2}$ miles west of Arton.

Drainage area.--500 sq mi, approximately.

Records available.--October 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 246.72 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Average discharge.--16 years, 685 cfs.

Extremes.--Maximum discharge during year, 9,030 cfs Dec. 7 (gage height, 17.12 ft); minimum, 9.2 cfs Sept. 12, 13, 14, 30 (gage height, 1.63 ft).

1938-54: Maximum discharge, 19,100 cfs Mar. 22, 1943 (gage height, 19.98 ft); minimum, that of Sept. 12, 13, 14, 30, 1954.

Maximum stage known, about 25 ft in March 1929, from information by local residents.

Remarks.--Records good. Prior to Dec. 24, 1941, occasional regulation at low flow by gristmill above station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to July 9

July 10 to Sept. 30

1.7	11	10.0	2,790	1.64	10	2.2	96
1.9	33	13.0	4,380	1.7	15	2.5	177
2.2	79	15.0	6,100	1.9	39	2.8	283
2.6	174	17.0	8,870				
4.0	673						

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,420	166	297	2,380	514	1,010	1,620	198	101	19	35	18
2	2,020	*166	283	2,420	496	1,050	1,210	171	79	18	33	17
3	1,590	166	297	2,020	489	911	877	166	66	17	*30	16
4	1,210	166	3,000	1,690	463	792	673	*174	61	16	27	17
5	877	224	3,730	1,380	451	724	550	186	60	31	27	17
6	620	308	6,090	1,180	429	656	550	160	*55	77	26	16
7	448	356	8,390	*1,010	417	550	514	141	54	77	25	15
8	349	356	5,800	911	410	481	514	134	46	58	25	13
9	297	323	3,910	826	410	448	478	124	43	101	24	14
10	265	276	3,050	775	406	436	432	117	42	*184	24	13
11	251	237	2,380	758	*402	421	394	110	42	159	24	12
12	230	214	2,270	724	394	402	360	106	43	89	22	10
13	220	198	2,380	690	383	406	326	117	45	68	22	10
14	201	189	2,970	673	383	402	319	171	48	55	21	10
15	195	183	2,710	638	375	379	*297	201	42	95	21	11
16	192	180	2,540	638	379	379	319	198	40	70	21	11
17	186	180	2,230	638	413	379	410	204	42	168	18	*13
18	174	177	1,850	620	391	*421	402	198	54	264	19	14
19	171	174	1,520	603	398	586	383	132	60	253	22	15
20	171	183	1,280	603	478	758	349	126	74	159	25	17
21	168	224	1,590	586	586	809	304	121	55	128	26	16
22	166	356	1,690	690	603	775	258	124	42	101	27	15
23	163	532	2,090	724	620	690	224	106	36	89	27	15
24	160	568	2,270	741	911	656	230	97	31	74	36	14
25	157	603	2,540	724	1,010	603	234	91	29	59	36	13
26	146	532	2,270	707	1,050	492	234	79	40	63	39	12
27	138	478	1,850	673	1,010	580	237	77	40	96	32	12
28	192	417	1,550	656	1,010	1,050	290	77	32	66	25	11
29	*186	356	1,850	586	-	1,150	265	75	28	50	24	11
30	186	*319	2,200	550	-----	1,320	234	75	23	45	22	10
31	171	-----	2,420	550	-----	1,590	-----	95	-----	38	20	-----
Total	13,948	8,807	79,287	28,364	15,281	21,276	13,487	4,171	1,453	2,787	806	408
Mean	450	294	2,558	915	546	686	450	135	46.4	89.9	26.0	13.6
Cfsm	0.900	0.588	5.12	1.83	1.08	1.37	0.900	0.270	0.097	0.180	0.052	0.027
In.	1.04	0.66	5.90	2.11	1.14	1.58	1.00	0.31	0.11	0.21	0.06	0.03
Calendar year 1953:	Max	9,150	Min	26	Mean	957	Cfsm	1.91	In.	25.99		
Water year 1953-54:	Max	8,390	Min	10	Mean	521	Cfsm	1.04	In.	14.15		

Peak discharge (base, 4,000 cfs).--Dec. 7 (6 a.m.) 9,030 cfs (17.12 ft).

* Discharge measurement made on this day.

CHOCTAWHATCHEE RIVER BASIN

Pea River near Samson, Ala.

Location.--Lat 31°07', long 86°06', in sec. 25, T. 2 N., R. 19 E., on right bank at downstream side of bridge on State Highway 12, 500 ft downstream from Boyenton Creek, 1½ miles downstream from Louisville & Nashville Railroad bridge, 3 miles west of Samson, and 6½ miles upstream from Flat Creek.

Drainage area.--1,170 sq mi, approximately.

Records available.--August 1904 to August 1913, June 1922 to October 1925, May 1935 to September 1954. Published as "at Pera" 1904-13, 1922-25.

Gage.--Water-stage recorder. Datum of gage is 97.95 ft above mean sea level, datum of 1929, supplementary adjustment of 1943 (levels by Corps of Engineers). August 1904 to August 1913 chain gage and June 1922 to October 1925 water-stage recorder, at site 1½ miles upstream at different datum. May 9, 1935, to July 24, 1937, wire-weight gage at present site and datum.

Average discharge.--29 years (1904-12, 1923-25, 1935-54), 1,773 cfs.

Extremes.--Maximum discharge during year, 18,100 cfs Dec. 5 (gage height, 31.73 ft); minimum, 77 cfs Sept. 14 (gage height, 0.97 ft); minimum daily, 80 cfs Sept. 13, 1904-13, 1922-25, 1935-54. Maximum gage height, 42.0 ft Jan. 20, 1925, from floodmarks, site and datum then in use (discharge uncertain); minimum discharge observed, 41 cfs Oct. 26, 1935; minimum daily, 63 cfs Oct. 26, 1935. Maximum stage known, 45.3 ft Mar. 15, 1929, from floodmarks.

Remarks.--Records good except those for periods of no gage-height record, which are fair. Diurnal fluctuation and some regulation at low flow caused by powerplant 25 miles above station.

Revisions (water years).--WSP 1112: 1925(M).

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 5 to Dec. 4)

Oct. 1 to Dec. 4		Dec. 5 to Sept. 30	
3.9	535	1.0	80
5.0	837	1.5	137
9.0	2,120	2.5	302
		5.0	885
		9.0	2,120
		17.0	5,660
		26.0	11,600
		32.0	18,500

Note.--Same as following table above 9.0 ft.
Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10,000	574	895	6,900	1,700	2,350	3,400	835	510	190	216	165
2	8,120	548	*809	6,500	1,600	2,270	2,860	712	453	214	176	141
3	5,200	574	781	5,900	1,600	2,230	2,420	640	397	225	215	130
4	3,480	561	9,720	4,900	1,500	2,010	2,050	604	343	195	174	106
5	2,820	837	17,500	4,000	1,500	1,760	1,760	*568	*322	150	*171	90
6	2,080	1,370	17,700	*3,480	1,500	1,700	1,580	556	263	188	165	88
7	1,760	1,100	17,900	3,150	1,400	1,670	1,550	534	245	254	166	93
8	1,500	1,010	16,100	2,880	1,400	1,520	1,580	510	282	364	136	97
9	1,310	924	14,000	2,660	1,400	1,400	1,550	476	254	*419	120	101
10	1,160	872	12,000	2,540	*1,540	1,340	1,550	464	228	616	137	132
11	1,070	725	10,000	2,660	1,340	1,280	1,500	442	206	604	128	128
12	1,010	669	8,400	2,500	1,310	1,250	1,300	453	214	499	125	91
13	837	615	7,700	2,270	1,280	1,220	1,100	453	214	397	133	80
14	895	602	8,100	2,200	1,250	1,250	*935	556	197	302	128	91
15	837	561	7,880	2,120	1,250	1,190	935	604	214	245	114	96
16	809	548	6,860	2,120	1,220	1,100	960	640	200	245	99	*109
17	809	561	5,770	2,080	1,310	*1,070	1,280	604	211	453	127	118
18	753	548	5,050	2,010	1,490	1,070	1,280	568	312	464	133	128
19	725	561	4,380	1,940	1,400	1,340	1,100	580	604	568	124	110
20	725	656	3,780	1,940	1,460	3,350	985	534	488	568	136	91
21	669	953	4,000	1,900	2,050	2,500	885	510	464	430	263	129
22	656	1,640	5,000	1,940	1,860	2,120	935	419	364	343	263	111
23	628	3,350	5,600	2,350	1,700	1,860	885	419	282	292	236	111
24	602	2,160	6,100	2,420	2,380	1,640	960	354	272	272	195	105
25	602	1,940	6,600	2,300	3,650	1,500	1,130	364	396	282	177	113
26	535	1,830	6,100	2,100	2,900	1,400	1,190	364	354	208	174	84
27	574	1,430	5,200	2,000	2,590	1,490	1,220	375	254	225	140	81
28	*725	1,220	4,200	2,000	2,350	2,000	910	343	184	343	172	110
29	725	1,040	5,000	1,900	-	3,200	835	397	256	364	145	109
30	642	953	6,000	1,800	-----	4,100	810	397	198	282	99	103
31	588	-----	6,700	1,800	-----	3,600	-----	364	-----	205	161	-----
Total	52,646	30,897	235,825	87,240	47,720	57,780	41,435	15,639	9,151	10,406	4,946	3,241
Mean	1,698	1,030	7,607	2,814	1,704	1,864	1,281	504	305	336	160	108
Cfsm	1.45	0.880	6.50	2.41	1.46	1.59	1.18	0.431	0.261	0.287	0.137	0.092
In.	1.67	0.98	7.50	2.77	1.52	1.84	1.32	0.50	0.29	0.33	0.16	0.10

Calendar year 1953: Max 17,900 Min 127 Mean 2,365 Cfsm 2.02 In. 27.43
Water year 1953-54: Max 17,900 Min 80 Mean 1,635 Cfsm 1.40 In. 18.98

Peak discharge (base, 7,000 cfs).--Dec. 5 (5 p.m.) 18,100 cfs (31.73 ft); Dec. 25 (time and discharge unknown); Jan. 1 (time and discharge unknown).

* Discharge measurement made on this day.

Note.--No gage-height record Dec. 11-14, Dec. 21 to Jan. 5, Jan. 25 to Feb. 9, Mar. 25, 26, Mar. 28 to Apr. 1, and Apr. 11-13; discharge estimated on basis of recorded range in stage and records for station upstream near Arifton.

Choctawhatchee River at Caryville, Fla.

Location.--Lat 30°46'32", long 85°49'40", in sec. 10, T. 4 N., R. 16 W., near right bank on downstream side of bridge on U. S. Highway 90, 300 ft downstream from Louisville & Nashville Railroad bridge, three-quarters of a mile west of Caryville, and 1.8 miles downstream from Wrights Creek.

Drainage area.--3,490 sq mi, approximately.

Records available.--August 1929 to September 1954. Gage-height records collected at same site since 1928 are contained in reports of U. S. Weather Bureau.

Gage.--Wire-weight gage read twice daily. Datum of gage is 39.00 ft above mean sea level, datum of 1929. Prior to Oct. 12, 1929, staff gage, and Oct. 12, 1929, to Sept. 11, 1951, water-stage recorder, at same site and datum.

Average discharge.--25 years, 5,504 cfs.

Extremes.--Maximum discharge during year, 54,800 cfs Dec. 9 (gage height, 15.50 ft); minimum, 796 cfs Aug. 19; minimum gage height, -0.82 ft Sept. 6.

1929-54: Maximum discharge, 56,600 cfs Sept. 4, 1937 (gage height, 15.55 ft); minimum, that of Aug. 19, 1954; minimum gage height, that of Sept. 6, 1954.

Maximum stage known, 27.1 ft Mar. 17, 1929, from U. S. Weather Bureau records and floodmarks (discharge, 206,000 cfs, by slope-area determination of peak flow).

Remarks.--Records good prior to June 28, and fair thereafter.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 27 to Aug. 22)

-0.9	790	8.0	6,830
0.0	980	10.0	12,100
2.0	1,680	11.0	15,800
5.0	3,270	12.0	21,700
6.0	3,990	16.0	59,800

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31,400	2,240	3,580	20,000	6,210	9,080	11,200	2,990	2,070	1,220	1,250	912
2	28,700	2,180	3,590	23,800	6,110	8,700	10,600	2,850	2,180	1,260	1,170	892
3	23,400	2,210	3,260	25,300	5,870	8,440	9,450	2,750	2,220	1,260	1,160	880
4	18,800	2,480	3,550	22,000	5,550	7,690	8,220	2,600	1,910	1,360	1,120	866
5	14,800	2,830	7,160	18,700	5,310	7,070	6,990	2,550	1,740	al,500	1,070	840
6	11,400	3,070	15,900	15,900	5,100	6,540	5,970	2,450	1,620	al,750	995	812
7	8,420	3,490	43,200	14,000	4,940	5,770	5,360	2,360	1,540	al,900	968	832
8	6,090	3,630	51,800	12,400	4,790	5,640	5,400	2,280	1,440	al,870	942	815
9	a5,000	3,390	51,900	11,200	4,670	5,460	5,360	2,170	1,400	al,850	*950	818
10	a4,200	3,130	*44,400	10,200	4,570	5,040	*5,140	2,060	1,380	al,800	956	810
11	3,560	2,870	42,000	9,790	4,500	4,790	4,700	2,000	1,340	1,820	956	812
12	3,430	2,660	37,800	9,620	4,440	4,520	4,270	1,960	1,370	*1,810	912	832
13	3,250	2,490	35,300	9,760	4,380	4,310	3,930	1,830	1,480	1,740	856	868
14	3,040	2,360	30,600	9,560	4,290	4,380	3,790	1,980	1,580	1,600	836	840
15	2,870	2,260	31,400	*9,020	4,190	4,570	4,190	2,220	1,430	1,430	826	820
16	2,790	2,250	32,100	8,470	4,150	4,560	4,200	2,610	1,350	1,340	826	828
17	2,690	2,220	31,100	8,070	4,120	4,290	4,210	2,660	1,310	1,420	826	854
18	2,670	2,200	27,200	7,830	4,150	3,990	4,430	2,470	1,400	1,570	822	953
19	2,590	2,160	22,500	7,600	4,310	4,070	4,460	2,290	1,750	1,750	796	1,260
20	2,520	2,260	18,300	7,280	4,440	4,570	4,100	2,220	2,060	1,970	928	*1,250
21	2,470	2,740	16,000	7,030	4,840	7,240	3,660	*2,200	2,200	1,900	1,030	1,110
22	2,390	3,450	14,900	6,930	5,720	8,900	3,420	2,090	2,010	1,740	1,330	998
23	2,340	4,750	18,500	7,070	6,340	9,230	3,310	1,970	1,740	1,490	1,530	942
24	*2,270	6,830	25,400	7,390	6,420	8,170	3,390	1,840	1,580	1,440	1,610	912
25	2,190	7,930	26,900	7,640	6,590	6,710	3,410	1,740	1,500	al,350	1,440	904
26	2,140	7,830	25,000	7,510	7,760	5,740	3,510	1,700	1,550	al,300	1,220	874
27	2,170	6,770	21,300	7,150	*8,820	5,080	3,740	1,680	1,600	1,340	1,080	912
28	2,290	5,600	18,500	6,910	9,450	5,140	3,820	1,740	1,580	1,760	1,080	956
29	2,400	4,550	16,600	6,670	-----	6,630	3,550	1,910	al,450	1,880	1,000	901
30	2,420	3,940	15,400	6,590	-----	8,820	3,200	2,070	al,300	1,790	986	850
31	2,340	-----	15,600	6,420	-----	10,600	-----	2,110	-----	1,490	942	-----
Total	207,040	106,770	746,740	337,840	152,030	196,540	150,980	68,430	49,080	49,700	32,423	27,153
Mean	6,679	3,559	24,150	10,900	5,430	6,340	5,033	2,207	1,636	1,603	1,046	905
Cfsm	1.91	1.02	6.92	3.12	1.56	1.82	1.44	0.632	0.469	0.459	0.300	0.259
In.	2.21	1.14	7.98	3.60	1.62	2.09	1.61	0.73	0.52	0.53	0.35	0.29
Calendar year 1953:	Max 51,900	Min 1,010	Mean 6,961	Cfsm 1.99	In. 27.06							
Water year 1953-54:	Max 51,900	Min 796	Mean 5,827	Cfsm 1.67	In. 22.67							

* Discharge measurement made on this day.

a Doubtful or no gage-height record; discharge estimated on basis of records for station near Bruce.

CHOCTAWHATCHEE RIVER BASIN

Holmes Creek at Vernon, Fla.

Location.--Lat 30°37'35", long 85°42'45", in sec. 35, T. 3 N., R. 15 W., near left bank on downstream side of bridge on State Highway 79 at Vernon, a quarter of a mile downstream from Pippin Mill Creek.

Drainage area.--383 sq mi.

Records available.--April 1950 to September 1954.

Gage.--Wire-weight gage read twice daily. Datum of gage is 10.70 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 4,700 cfs Dec. 25 (gage height, 18.77 ft); minimum, 302 cfs Sept. 13 (gage height, 10.43 ft).
1950-54: Maximum discharge, 5,240 cfs Sept. 2, 1950 (gage height, 19.02 ft); minimum, 278 cfs Sept. 24, 1953; minimum gage height, that of Sept. 13, 1954.

Remarks.--Record fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to May 2				May 3 to Sept. 30	
11.0	323	16.0	2,040	10.4	301
13.0	632	18.0	3,660	11.0	342
14.0	960	19.0	5,100	12.0	463

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	944	345	415	2,250	628	1,100	779	428	390	324	329	305
2	820	341	397	2,280	610	1,180	746	421	376	322	327	304
3	710	338	392	2,170	590	1,260	693	416	363	321	325	304
4	614	338	465	1,970	575	1,260	632	408	355	331	326	304
5	557	354	536	1,740	560	1,140	588	395	347	351	324	305
6	514	358	1,140	1,510	548	1,000	577	388	344	355	322	304
7	477	357	2,330	1,350	539	888	557	383	342	355	319	303
8	452	354	3,180	1,210	531	828	534	379	340	361	318	304
9	432	354	3,010	1,090	523	756	530	374	338	372	317	304
10	417	350	*2,700	1,010	517	728	*520	371	337	361	317	304
11	404	344	2,270	1,000	510	699	502	368	335	*351	317	304
12	394	340	2,000	996	499	666	494	365	338	344	*317	303
13	382	337	2,120	992	490	637	471	364	338	338	315	302
14	375	337	2,940	1,000	485	606	474	365	340	334	314	304
15	368	337	3,550	*988	481	579	488	362	337	343	317	304
16	362	334	3,740	960	476	557	520	359	337	335	314	307
17	359	331	3,300	904	470	530	526	357	351	346	313	306
18	354	330	2,650	853	462	517	506	355	385	359	312	307
19	351	326	2,120	820	456	477	495	357	376	349	312	306
20	348	345	1,720	782	471	960	485	372	359	340	311	306
21	345	365	1,500	746	536	1,080	469	361	345	335	311	307
22	341	418	1,540	740	571	1,240	452	*355	336	331	312	307
23	340	470	2,370	722	590	1,340	445	352	332	328	311	*305
24	*340	484	3,830	716	637	1,270	446	349	331	327	313	310
25	337	490	4,650	722	699	1,120	449	346	339	333	314	306
26	334	485	4,080	728	740	960	452	346	338	349	315	310
27	359	471	3,260	719	753	820	455	349	333	372	313	307
28	368	452	2,740	704	*960	753	457	368	330	355	312	307
29	361	438	2,380	682	-	734	450	411	328	343	312	307
30	355	429	2,190	661	-----	753	436	414	325	335	311	307
31	348	-----	2,220	646	-----	775	-----	403	-----	331	308	-----
Total	13,462	11,352	71,736	33,661	15,907	27,413	15,618	11,641	10,365	10,634	9,798	9,163
Mean	434	378	2,314	1,086	568	884	521	376	346	343	316	305
Cfsm	1.13	0.987	6.04	2.84	1.48	2.31	1.36	0.982	0.903	0.896	0.825	0.796
In.	1.31	1.10	6.97	3.27	1.54	2.66	1.52	1.13	1.01	1.03	0.95	0.89

Calendar year 1953: Max 4,650 Min 281 Mean 760 Cfsm 1.98 In. 26.95
Water year 1953-54: Max 4,650 Min 302 Mean 660 Cfsm 1.72 In. 23.58

* Discharge measurement made on this day.

Choctawhatchee River near Bruce, Fla.

Location.--Lat 30°27'03", long 85°53'54", in sec. 36, T. 1 N., R. 17 W., on downstream fender pile at center swing pier of bridge on State Highway 20, 4 miles southeast of Bruce and 5.8 miles downstream from Holmes Creek.

Drainage area.--4,370 sq mi, approximately.

Records available.--October 1930 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 3.94 ft above mean sea level, datum of 1929. Prior to Apr. 6, 1934, staff gage at site 1 mile downstream at datum 0.25 ft lower (corrected).

Average discharge.--24 years, 7,284 cfs.

Extremes.--Maximum discharge during year, 46,600 cfs Dec. 12 (gage height, 13.82 ft); minimum, 1,550 cfs Sept. 8 (gage height, -0.06 ft).

1930-54: Maximum discharge, 69,600 cfs Aug. 19, 20, 1939; maximum gage height, 16.68 ft Aug. 19, 1939; minimum discharge, that of Sept. 8, 1954.

Maximum stage known, 25.0 ft at former site and datum, in March 1929, from flood-marks (discharge, 220,000 cfs, from rating curve extended above 66,000 cfs on basis of records for station at Caryville).

Remarks.--Records good.

Revisions (water years).--WSP 872: 1937. WSP 1234: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

-0.1	1,530	8.0	12,500
1.0	2,070	10.0	20,500
2.0	2,650	12.0	32,300
4.0	4,280	14.0	48,000
6.0	7,650		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12,000	3,310	*7,460	20,900	8,280	9,220	8,100	4,660	3,180	2,100	2,370	1,680
2	21,800	3,220	6,870	20,400	8,140	10,100	8,950	4,400	3,080	2,050	2,180	1,640
3	27,300	3,130	6,190	21,900	7,960	10,800	10,000	4,100	3,010	2,020	2,070	1,620
4	27,400	3,100	5,840	24,400	7,780	10,900	10,700	3,880	2,980	1,990	2,020	1,600
5	25,100	3,400	5,570	25,600	7,650	10,700	10,700	3,680	2,810	2,070	1,990	1,620
6	21,800	3,760	6,090	24,500	7,460	10,300	*10,200	3,520	2,630	2,210	1,960	1,590
7	18,400	3,960	7,400	22,100	7,250	9,920	9,540	3,400	2,490	*2,510	1,920	1,570
8	15,600	4,130	11,600	19,600	7,020	9,350	8,750	3,280	2,380	2,670	1,860	1,570
9	12,900	4,300	27,800	17,500	6,800	8,810	8,080	3,170	2,290	2,580	1,820	1,600
10	10,900	4,410	40,500	15,800	6,600	8,300	7,440	3,060	2,240	2,490	1,790	1,600
11	9,310	4,380	*44,900	14,400	6,420	7,900	7,020	2,960	2,200	2,560	1,740	1,600
12	8,060	4,200	46,200	*13,200	6,220	7,560	6,740	2,860	2,170	2,610	*1,710	1,580
13	6,980	3,920	45,000	12,400	6,060	7,230	6,510	2,630	2,150	2,570	1,680	1,570
14	5,990	3,650	43,200	11,800	5,950	6,890	6,210	2,820	2,210	2,500	1,670	1,580
15	5,160	3,450	40,400	11,400	5,820	6,590	5,820	2,800	2,290	2,390	1,680	1,600
16	4,600	3,320	37,800	11,200	5,720	6,280	5,450	2,930	2,290	2,290	1,650	1,590
17	4,230	3,240	36,200	11,000	5,590	6,110	5,310	3,140	2,240	2,210	1,640	1,620
18	3,970	3,170	35,200	10,600	5,500	6,020	5,310	*3,260	2,160	2,270	1,630	1,670
19	3,790	3,130	33,200	10,200	5,420	5,450	5,310	3,270	2,300	2,370	1,620	1,750
20	*3,670	3,190	30,100	9,820	5,450	7,060	5,320	3,250	2,660	2,480	1,620	1,870
21	3,560	3,340	27,000	9,540	5,730	7,310	5,340	3,170	2,800	2,590	1,700	1,960
22	3,480	3,880	23,900	9,310	5,880	7,590	5,360	3,050	2,810	2,600	1,780	1,920
23	3,400	4,450	22,700	9,100	6,040	8,020	5,230	2,920	2,720	2,540	1,920	*1,830
24	3,320	4,720	22,800	8,880	*6,450	8,730	5,080	2,790	2,570	2,420	2,080	1,740
25	3,250	5,080	25,800	8,700	6,890	9,580	4,860	2,680	2,420	2,230	2,210	1,700
26	3,170	5,590	29,800	8,660	7,330	10,000	4,770	2,600	2,320	2,120	2,190	1,660
27	3,240	6,280	31,200	9,000	7,650	9,820	4,720	2,570	2,340	2,080	2,040	1,640
28	3,330	7,100	29,800	8,800	8,300	9,310	4,740	2,630	2,430	2,120	1,920	1,650
29	3,380	7,670	27,300	8,700	-	8,620	4,770	2,780	2,360	2,340	1,820	1,690
30	3,390	7,760	24,800	8,600	-----	8,080	4,770	3,000	2,190	2,530	1,740	1,670
31	3,360	-----	22,500	8,470	-----	7,820	-----	3,140	-----	2,530	1,720	-----
Total	285,840	128,240	805,120	426,480	187,360	261,370	201,060	98,600	74,720	73,040	57,720	49,980
Mean	9,221	4,275	25,970	13,760	6,691	8,431	6,702	3,181	2,491	2,356	1,862	1,666
Cfsm	2.11	0.978	5.94	3.15	1.53	1.93	1.53	0.728	0.570	0.539	0.426	0.381
In.	2.43	1.09	6.85	3.63	1.59	2.22	1.71	0.84	0.64	0.62	0.49	0.43
Calendar year 1953: Max	46,200				Min 1,900	Mean 8,361	Cfsm 1.91	In. 25.97				
Water year 1953-54: Max	46,200				Min 1,570	Mean 7,259	Cfsm 1.66	In. 22.54				

* Discharge measurement made on this day.

ALAUCA CREEK BASIN

Alauca Creek near De Funiak Springs, Fla.

Location.--Lat 30°37'00", long 86°09'50", in NE¼ sec. 5, T. 1 N., R. 19 W., near center of span on downstream side of Pine Allen Bridge on U. S. Forest Service Road 200 in Eglin Field Military Reservation, 0.8 mile upstream from Davis Branch and 8 miles southwest of De Funiak Springs.

Drainage area.--65.6 sq mi.

Records available.--April 1951 to September 1954.

Gage.--Water stage recorder. Datum of gage is 19.65 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 2,710 cfs Dec. 6 (gage height, 16.74 ft), from rating curve extended above 1,800 cfs; minimum, 40 cfs Sept. 2, 3, 4 (gage height, 6.19 ft).

1951-54: Maximum discharge, 5,160 cfs Sept. 26, 1953 (gage height, 18.47 ft), from rating curve extended above 1,800 cfs; minimum, that of Sept. 2, 3, 4, 1954.

Remarks.--Records good except those for period of no gage-height record, which are fair.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

6.2	41	13.0	547
7.0	69	14.0	746
8.0	127	15.0	1,040
10.0	287	16.0	1,860
12.0	423		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	291	110	*126	a510	180	479	155	86	80	61	54	41
2	272	109	121	a350	176	248	141	85	74	58	56	41
3	248	108	139	a340	173	218	136	84	72	56	54	41
4	229	111	340	a310	166	195	130	84	75	57	54	41
5	215	231	671	a280	162	185	124	80	70	198	53	46
6	202	187	1,470	a260	159	217	*121	79	67	141	52	45
7	195	132	1,070	a250	157	244	121	78	65	*74	50	42
8	181	120	444	a230	154	194	118	77	65	74	49	42
9	175	116	369	a220	153	179	115	76	64	163	*52	45
10	167	109	537	a240	149	168	111	75	62	84	50	56
11	159	107	376	a300	149	161	108	74	62	69	47	51
12	150	105	488	a270	144	157	109	73	64	64	47	45
13	144	103	781	a240	137	154	113	77	61	61	46	42
14	140	102	1,210	a240	137	165	124	150	60	59	48	42
15	137	102	542	*242	136	141	108	88	59	57	46	43
16	134	103	364	244	134	133	111	82	58	57	46	52
17	131	101	329	234	132	132	121	76	62	80	45	55
18	126	99	310	224	128	129	102	*74	78	145	45	58
19	123	99	297	221	129	307	96	82	96	88	47	48
20	*120	253	316	220	187	381	94	80	69	80	49	44
21	117	374	621	219	272	223	93	72	76	66	49	48
22	114	265	793	248	167	186	98	70	66	61	54	64
23	112	333	1,100	241	142	170	119	69	60	59	52	*50
24	109	207	513	214	218	164	112	67	59	59	49	50
25	108	179	a410	208	210	157	99	66	65	60	46	46
26	106	155	a360	205	155	152	169	67	62	67	46	44
27	207	142	a310	204	*144	154	128	82	60	72	45	43
28	178	138	a280	199	445	293	101	108	57	65	44	42
29	123	129	a280	188	-	251	94	132	58	59	43	42
30	114	126	a460	187	-	193	89	191	56	59	42	50
31	112	---	a600	186	---	172	---	96	---	55	42	---
Total	4,937	4,553	16,027	7,764	4,795	6,280	3,459	2,680	1,982	2,408	1,500	1,399
Mean	159	152	517	250	171	203	115	86.5	66.1	77.7	48.4	46.6
Cfsm	2.42	2.32	7.88	3.81	2.61	3.09	1.75	1.32	1.01	1.18	0.738	0.710
In.	2.80	2.58	9.09	4.40	2.72	3.56	1.96	1.52	1.12	1.37	0.85	0.79

Calendar year 1953: Max 2,680

Min 61

Mean 199

Cfsm 3.03

In. 41.22

Water year 1953-54: Max 1,470

Min 41

Mean 158

Cfsm 2.41

In. 32.76

Peak discharge (base, 550 cfs).--Dec. 6 (7 p.m.) 2,710 cfs (16.74 ft); Dec. 10 (3:30 p.m.) 588 cfs (13.24 ft); Dec. 14 (3 a.m.) 1,810 cfs (15.95 ft); Dec. 23 (12:30 a.m.) 2,000 cfs (16.13 ft); Mar. 1 (1:30 a.m.) 628 cfs (13.46 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Shoal River near Mossy Head and near Crestview.

Yellow River at Milligan, Fla.

Location.--Lat 30°45'10", long 86°37'45", in sec. 15, T. 3 N., R. 24 W., on right bank 10 ft downstream from bridge on U. S. Highway 90, half a mile east of Milligan, half a mile upstream from Trammel Creek, and 6½ miles upstream from Shoal River.

Drainage area.--650 sq mi, approximately.

Records available.--July 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 51.55 ft above mean sea level, datum of 1929. Prior to Dec. 6, 1939, staff gage at same site and datum.

Average discharge.--16 years, 1,190 cfs.

Extremes.--Maximum discharge during year, 28,000 cfs Dec. 6 (gage height, 15.13 ft); minimum, 151 cfs Sept. 29 (gage height, 1.11 ft).
1938-54: Maximum discharge, that of Dec. 6, 1953; minimum, that of Sept. 29, 1954.
Flood in 1929 reached a stage of 26.2 ft, from information by local residents.

Remarks.--Records good.

Revisions (water years).--WSP 892: 1938-39. WSP 1204: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 20 to June 20)

Oct. 1 to May 19				May 20 to Sept. 30			
2.3	392	9.0	4,810	1.1	149		
5.0	1,580	12.0	13,400	2.0	382		
7.0	2,020	15.0	27,400	3.0	677		
8.0	2,890						

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,600	523	1,060	4,500	1,220	1,590	2,520	600	438	306	267	183
2	5,020	497	*970	4,840	1,240	1,510	2,290	569	407	293	272	169
3	3,110	477	860	4,350	1,230	1,430	1,760	543	393	298	254	164
4	2,260	477	1,590	3,700	1,180	1,300	1,370	534	432	303	241	162
5	1,800	637	10,500	2,990	1,110	1,160	1,140	548	382	464	233	162
6	1,540	802	26,000	2,550	1,040	1,070	1,020	517	350	473	228	164
7	1,330	929	*24,700	2,240	1,000	1,130	*951	483	336	410	220	160
8	1,170	975	*15,700	2,050	976	1,160	899	463	322	427	253	164
9	1,050	914	11,700	1,910	954	1,110	932	443	317	641	339	173
10	967	775	8,340	1,830	939	1,010	881	432	306	*599	*262	215
11	887	666	5,900	1,830	929	948	829	420	303	551	223	205
12	832	597	4,760	1,810	914	905	775	406	320	521	212	178
13	787	557	4,600	1,820	893	887	743	412	309	554	202	167
14	737	531	5,170	*1,790	875	860	719	414	298	467	195	167
15	695	517	5,380	1,700	863	855	687	420	293	398	198	169
16	669	509	5,510	1,630	845	808	707	420	293	359	200	193
17	646	497	5,170	1,580	848	775	784	412	295	470	190	210
18	626	489	4,180	1,540	848	749	829	398	325	602	185	243
19	611	483	3,280	1,490	863	826	832	*412	421	488	183	259
20	591	695	2,760	1,450	942	1,200	766	491	399	410	190	228
21	*574	1,090	2,720	1,410	1,170	1,440	684	435	370	376	254	205
22	557	1,130	3,400	1,440	1,320	1,630	664	399	379	345	295	*195
23	540	1,580	5,020	1,470	1,410	1,690	637	379	359	320	328	183
24	528	2,640	5,930	1,520	1,420	1,500	781	365	339	303	325	176
25	514	2,970	5,900	1,570	1,460	1,170	820	353	347	301	295	167
26	497	3,020	5,040	1,510	*1,560	960	926	350	322	293	267	162
27	580	2,850	3,920	1,420	1,640	926	1,260	382	356	317	243	160
28	554	2,180	3,180	1,340	1,710	1,300	1,020	421	421	314	228	153
29	509	1,580	2,850	1,300	-	1,650	734	488	390	288	210	156
30	520	1,230	3,090	1,260	-	2,020	649	521	333	288	200	160
31	534	-	3,900	1,220	-	2,390	-	476	-	277	190	-
Total	39,815	32,815	193,180	63,060	31,399	37,939	29,609	13,906	10,555	12,446	7,362	5,452
Mean	1,284	1,094	6,232	2,034	1,121	1,224	987	449	352	401	237	182
Cfsm	1.98	1.68	9.59	3.13	1.72	1.88	1.52	0.691	0.542	0.617	0.365	0.280
In.	2.28	1.88	11.05	3.61	1.80	2.17	1.69	0.80	0.60	0.71	0.42	0.31
Calendar year 1953: Max	26,000			Min 232			Mean 1,574	Cfsm 2.42	In. 32.86			
Water year 1953-54: Max	26,000			Min 153			Mean 1,308	Cfsm 2.01	In. 27.32			

* Discharge measurement made on this day.

YELLOW RIVER BASIN

Shoal River near Mossy Head, Fla.

Location.--Lat 30°47'45", long 86°18'25", in SW $\frac{1}{4}$ sec. 36, T. 4 N., R. 21 W., near left bank on downstream side of county road bridge, 200 ft downstream from Machine Branch and 3.9 miles north of Mossy Head.

Drainage area.--123 sq mi.

Records available.--March 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 105.59 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 3,140 cfs Dec. 23 (gage height, 15.84 ft); minimum, 61 cfs Sept. 3, 4 (gage height, 3.79 ft).
1951-54: Maximum discharge, 8,690 cfs Sept. 27, 1953 (gage height, 21.86 ft), from rating curve extended above 4,100 cfs on basis of slope-conveyance study; minimum, 50 cfs Sept. 9, 1951; minimum gage height, 3.13 ft Aug. 30, Sept. 9, 1951.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 10-22)

Oct. 1 to Dec. 23				Dec. 24 to Feb. 28		Mar. 1 to Sept. 30	
4.1	105	12.0	1,460	4.6	181	3.8	62
5.0	216	14.0	2,130	7.0	527	4.0	80
8.0	691	15.0	2,650	10.0	1,050	5.0	205
				12.0	1,480	8.0	691

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	479	128	159	785	242	593	274	141	172	87	108	66
2	409	125	*153	614	235	427	241	135	148	82	205	64
3	355	123	156	544	230	339	221	130	139	79	241	64
4	312	125	1,190	486	223	288	205	125	129	125	156	64
5	276	237	1,170	450	219	258	194	119	112	474	134	68
6	248	238	1,200	416	215	280	186	116	104	368	119	67
7	230	191	1,560	387	214	312	*180	113	98	218	111	65
8	210	162	839	368	209	278	175	111	93	316	103	66
9	197	154	*698	352	208	247	168	108	89	538	*103	77
10	186	143	923	380	207	228	159	106	85	*297	98	148
11	175	137	708	492	209	216	156	104	82	193	90	139
12	165	132	814	*447	205	210	153	103	85	150	85	100
13	159	128	1,120	391	200	215	153	117	80	150	92	82
14	153	125	2,100	358	200	270	148	135	76	116	78	76
15	148	123	1,090	342	197	239	156	122	78	105	78	77
16	143	123	728	342	197	202	196	114	82	109	77	92
17	138	119	599	330	198	189	210	109	105	182	76	112
18	135	116	514	311	191	183	182	*104	202	244	74	130
19	133	114	456	296	195	305	156	119	170	207	71	94
20	*129	204	479	289	250	493	145	146	130	161	73	84
21	128	290	964	287	356	386	141	118	109	125	120	81
22	125	330	1,300	355	304	311	149	106	97	111	134	101
23	124	411	2,310	356	256	262	198	102	90	101	111	*84
24	119	338	1,020	329	395	238	199	99	117	99	101	90
25	118	290	787	305	407	222	190	96	274	110	89	78
26	117	243	716	292	342	210	257	98	141	265	83	75
27	177	210	603	285	*294	222	208	145	111	246	79	73
28	190	190	530	274	550	466	172	258	100	183	76	70
29	149	174	536	260	-	441	159	458	97	144	74	71
30	134	165	896	254	-----	378	149	397	89	129	71	72
31	129	-----	1,280	249	-----	317	-----	233	-----	116	68	-----
Total	5,890	5,588	27,598	11,626	7,148	9,225	5,480	4,487	3,484	5,831	3,168	2,530
Mean	189	186	890	375	255	298	183	145	116	188	102	84.3
Cfsm	1.54	1.51	7.24	3.05	2.07	2.42	1.49	1.18	0.943	1.53	0.829	0.685
In.	1.78	1.69	8.34	3.52	2.16	2.79	1.66	1.36	1.05	1.76	0.96	0.76

Calendar year 1953: Max 5,660 Min 74 Mean 286 Cfsm 2.33 In. 31.60
Water year 1953-54: Max 2,310 Min 64 Mean 252 Cfsm 2.05 In. 27.83

Peak discharge (base, 1,200 cfs).--Dec. 4 (9:30 p.m.) 1,700 cfs (12.90 ft); Dec. 7 (2:30 a.m.) 1,900 cfs (13.47 ft); Dec. 14 (8:30 a.m.) 2,420 cfs (14.60 ft); Dec. 23 (3 a.m.) 3,140 cfs (15.84 ft); Dec. 31 (3:30 a.m.) 1,410 cfs (11.80 ft).

* Discharge measurement made on this day.

Shoal River near Crestview, Fla.

Location.--Lat 30°41'50", long 86°34'15", in sec. 5, T. 2 N., R. 23 W., on right bank on downstream side of bridge on State Highway 85, $\frac{3}{4}$ miles downstream from Titl Creek, $\frac{4}{5}$ miles south of Crestview, and 7 miles upstream from mouth.

Drainage area.--475 sq mi.

Records available.--July 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 47.21 ft above mean sea level, datum of 1929. Prior to Feb. 12, 1939, staff gage at same site and datum.

Average discharge.--16 years, 1,096 cfs.

Extremes.--Maximum discharge during year, 6,170 cfs Dec. 15 (gage height, 8.68 ft); minimum, 324 cfs Sept. 29 (gage height, 1.31 ft).

1938-54: Maximum discharge, 21,700 cfs July 7, 1940 (gage height, 14.26 ft); minimum, 294 cfs Oct. 23-27, Nov. 3-7, 1943; minimum gage height, 0.98 ft Oct. 26, Nov. 4, 1943.

Remarks.--Records good.

Revisions.--WSP 1204: Drainage area. WSP 1274: 1939-40, 1944, 1947, 1950.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 6-19, 22-27, June 6-17, 20-25, 27-30, July 1-5, 25-31, Aug. 1-15)

Oct. 1 to Dec. 15

Dec. 16 to Sept. 30

3.0	617	6.0	1,520	1.3	322	6.0	1,630
4.0	835	6.5	2,140	2.0	448	6.5	2,160
5.0	1,120	9.0	6,800	4.0	865	9.0	6,800
				5.0	1,150		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,970	700	800	4,440	1,230	2,550	1,260	725	925	448	483	344
2	2,140	688	*781	3,670	1,200	2,290	1,130	702	728	459	521	336
3	1,730	680	772	2,770	1,180	1,680	1,050	684	662	441	610	331
4	1,580	678	1,820	2,430	1,150	1,390	998	668	795	428	584	327
5	1,420	945	3,990	2,220	1,130	1,250	967	642	654	632	496	344
6	1,300	1,170	5,470	2,080	1,110	1,230	930	624	572	1,080	453	356
7	1,210	1,080	5,720	1,940	1,100	1,440	915	612	542	900	421	342
8	1,150	892	5,870	1,830	1,080	1,430	*900	602	529	*698	416	333
9	1,090	805	*4,800	1,760	1,070	1,270	972	588	515	1,090	*548	340
10	1,050	750	3,560	1,740	1,060	1,170	928	576	502	1,220	441	448
11	1,000	713	3,360	2,020	1,050	1,110	852	565	494	912	403	504
12	962	692	3,350	2,320	1,040	1,080	828	555	498	700	394	439
13	928	678	3,990	2,030	1,020	1,060	828	572	489	620	385	383
14	900	664	5,160	*1,800	1,000	1,140	820	546	476	630	383	354
15	879	656	6,000	1,670	995	1,150	805	626	466	582	385	345
16	861	654	5,300	1,650	988	1,050	880	588	470	576	390	398
17	840	644	3,400	1,650	985	982	1,120	561	567	988	389	430
18	820	634	2,520	1,570	980	954	995	*540	638	1,340	389	479
19	803	628	2,160	1,500	969	1,060	848	555	694	1,500	384	474
20	781	798	2,030	1,450	1,040	1,650	778	755	610	1,060	381	403
21	*755	1,270	2,610	1,440	1,360	1,860	755	674	540	747	380	376
22	744	1,330	4,230	1,550	1,490	1,470	850	565	502	638	586	365
23	728	1,680	5,340	1,610	1,240	1,210	889	529	470	580	555	*385
24	715	2,110	5,740	1,700	1,260	1,100	1,180	515	459	546	532	369
25	704	1,560	4,780	1,540	1,750	1,040	1,190	504	634	538	455	362
26	688	1,210	3,400	1,450	1,700	1,010	1,070	508	678	600	421	351
27	738	1,040	2,860	1,400	*1,360	1,020	1,100	580	531	842	403	340
28	1,020	928	2,550	1,360	1,560	1,490	912	815	476	808	394	329
29	871	858	2,410	1,310	-	2,080	808	1,260	461	644	380	326
30	755	820	2,640	1,270	-----	1,800	759	1,620	443	565	365	351
31	713	-----	4,010	1,250	-----	1,490	-----	1,380	-----	521	356	-----
Total	32,905	27,955	111,643	58,620	33,097	42,506	28,307	21,336	17,020	23,333	13,683	11,284
Mean	1,061	932	3,601	1,891	1,182	1,371	944	688	567	753	441	376
Cfs/m	2.23	1.96	7.58	3.98	2.49	2.69	1.99	1.45	1.19	1.59	0.928	0.792
In.	2.58	2.19	8.74	4.59	2.59	3.33	2.22	1.67	1.33	1.83	1.07	0.88

Calendar year 1953: Max 17,600 Min 396 Mean 1,223 Cfs/m 2.57 In. 34.97
Water year 1953-54: Max 6,000 Min 326 Mean 1,155 Cfs/m 2.43 In. 33.02

* Discharge measurement made on this day.

Blackwater River near Baker, Fla.

Location.--Lat 30°50'00", long 86°44'05", in sec. 22, T. 4 N., R. 25 W., near right bank at downstream side of bridge on State Highway 4, 0.3 mile downstream from Red Wash Branch and 3.8 miles northwest of Baker.

Drainage area.--205 sq mi.

Records available.--March 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 60.5 ft above mean sea level, datum of 1929 (from design elevation of bridge curb, furnished by Florida State Road Department).

Extremes.--Maximum discharge during year, 17,200 cfs Dec. 4 (gage height, 20.80 ft), from rating curve extended above 7,200 cfs on basis of velocity-area study; minimum, 60 cfs Sept. 7, 8 (gage height, 2.83 ft).
1950-54: Maximum discharge, that of Dec. 4, 1953; minimum, that of Sept. 7, 8, 1954.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Jan. 6 to Feb. 3)

2.8	58	10.0	2,070
3.0	74	13.0	3,390
3.5	128	15.0	4,750
5.0	402	18.0	10,400

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	561	109	256	1,360	241	768	478	183	108	79	78	63
2	443	109	237	364	232	548	390	186	101	81	104	62
3	384	107	260	768	222	410	332	154	103	99	89	61
4	318	108	7,960	642	217	340	295	144	105	114	81	61
5	277	158	10,300	557	208	295	264	136	99	103	78	61
6	247	219	*6,010	492	204	293	243	129	93	100	75	61
7	222	186	*5,570	445	201	382	*224	125	90	96	73	61
8	202	154	3,350	412	195	357	211	123	89	114	88	62
9	190	139	1,820	386	195	307	202	119	88	235	89	72
10	178	129	1,240	372	192	275	188	116	86	*139	*75	78
11	169	123	985	445	190	252	180	114	86	139	71	71
12	160	118	1,500	432	186	235	170	111	87	115	69	66
13	152	115	1,790	*376	182	226	166	111	85	107	69	64
14	145	113	2,120	346	180	215	160	110	83	99	68	63
15	139	111	1,650	330	178	204	156	110	81	94	68	63
16	136	110	1,150	328	177	190	164	109	86	102	68	69
17	131	109	885	318	178	183	235	107	90	114	67	74
18	128	109	732	303	175	178	224	103	96	116	66	78
19	124	107	639	291	175	258	185	*111	123	102	68	76
20	119	168	642	283	210	824	164	131	99	94	69	72
21	118	285	1,550	281	392	616	152	122	91	89	80	68
22	115	856	1,750	330	384	410	180	108	87	86	94	*67
23	*113	2,130	1,780	394	316	324	174	102	84	82	85	65
24	111	1,230	1,420	344	350	277	174	100	91	83	81	64
25	110	755	1,050	307	436	249	169	98	102	87	78	63
26	109	532	841	287	*350	228	505	99	92	85	74	63
27	123	406	718	279	289	252	404	107	90	91	72	63
28	119	342	632	268	490	954	310	118	84	98	70	62
29	115	301	875	256	-	964	252	135	81	90	68	62
30	111	272	1,440	247	-----	814	210	141	81	84	66	63
31	109	-----	1,800	243	-----	656	-----	123	-----	80	64	-----
Total	5,678	9,710	62,912	13,086	6,945	12,482	7,141	3,765	2,761	3,257	2,345	1,978
Mean	183	324	2,029	422	248	403	238	121	92.0	105	75.6	65.9
Cfs/m	0.893	1.58	9.90	2.06	1.21	1.97	1.16	0.590	0.449	0.512	0.369	0.321
In.	1.03	1.76	11.41	2.37	1.26	2.26	1.30	0.68	0.50	0.59	0.43	0.36

Calendar year 1953: Max 10,300 Min 75 Mean 471 Cfs/m 2.30 In. 31.17
Water year 1953-54: Max 10,300 Min 61 Mean 362 Cfs/m 1.77 In. 23.95

Peak discharge (base, 2,500 cfs).--Dec. 4 (9 p.m.) 17,200 cfs (20.80 ft); Dec. 6 (11:30 p.m.) 7,580 cfs (16.69 ft).

* Discharge measurement made on this day.

Coldwater Creek near Milton, Fla.

Location.--Lat 30°42'30", long 86°58'20", in sec. 5, T. 2 N., R. 27 W., on right bank at downstream side of bridge on State Highway 191, 2½ miles upstream from mouth and 6½ miles northeast of Milton.

Drainage area.--238 sq mi.

Records available.--November 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 9.10 ft above mean sea level, datum of 1929. Prior to Dec. 2, 1938, staff gage at same site and datum.

Average discharge.--16 years, 546 cfs.

Extremes.--Maximum discharge during year, 4,490 cfs Dec. 7 (gage height, 8.85 ft); minimum, 204 cfs Sept. 2, 3 (gage height, 2.01 ft).
1938-54: Maximum discharge, 23,100 cfs Aug. 17, 1939 (gage height, 17.33 ft) minimum, that of Sept. 2, 3, 1954; minimum gage height, 0.94 ft Dec. 11, 1938.

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

Revisions (water years).--WSP 892: 1939. WSP 1204: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Dec. 4-8, Mar. 30 to Apr. 18)

Oct. 1 to Feb. 21

Feb. 22 to Sept. 30

2.0	237	5.0	1,130	2.0	202
3.0	459	7.0	2,800	3.0	423
4.0	751	9.0	5,080	5.0	1,130
				6.0	1,890

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	481	252	343	1,400	420	961	608	325	289	241	246	207
2	433	248	332	1,100	415	885	529	311	276	241	243	207
3	394	246	343	900	413	529	483	302	272	248	237	207
4	363	280	*2,640	780	408	460	460	298	274	262	237	207
5	341	466	3,050	680	403	420	440	294	266	250	235	209
6	326	423	3,130	640	398	460	426	291	280	258	233	210
7	313	335	*4,160	600	395	595	415	289	258	252	232	210
8	302	306	2,250	560	394	551	406	287	258	246	239	212
9	294	294	1,070	520	391	468	395	285	254	255	241	212
10	288	282	852	480	391	429	*382	285	254	*406	*233	216
11	280	274	741	570	391	406	371	285	260	305	228	219
12	274	270	1,490	590	386	392	363	285	260	294	224	212
13	268	268	2,140	*510	377	387	379	287	258	274	223	209
14	266	266	2,000	494	379	384	382	287	254	256	224	210
15	264	268	1,300	492	384	371	363	287	248	250	262	212
16	262	270	800	489	379	350	382	285	260	445	241	228
17	260	268	700	479	382	343	423	283	270	654	230	264
18	262	266	600	461	382	338	392	278	302	815	226	358
19	262	268	550	453	379	420	348	*294	341	547	237	300
20	260	510	600	456	624	1,470	334	341	309	395	233	252
21	258	571	1,250	463	1,200	1,830	336	311	274	318	245	243
22	256	904	2,150	505	1,010	852	360	280	264	287	245	*224
23	*256	1,940	1,700	529	535	599	395	272	256	264	237	219
24	254	1,040	1,400	494	573	513	474	264	256	256	237	217
25	254	612	1,100	466	622	474	513	264	268	268	233	216
26	256	494	900	456	*507	451	466	266	258	270	224	214
27	304	428	720	448	440	501	489	298	260	264	223	212
28	284	391	610	438	563	1,210	406	363	250	268	221	212
29	262	363	800	428	-	1,380	358	379	246	266	218	216
30	264	350	1,300	420	-----	961	336	308	245	270	214	223
31	252	-----	1,850	428	-----	740	-----	318	-----	258	210	-----
Total	9,083	13,153	42,871	17,729	13,543	19,930	12,414	9,242	8,000	10,017	7,209	6,757
Mean	293	438	1,383	572	484	643	414	298	267	323	233	225
Cfsm	1.23	1.84	5.81	2.40	2.03	2.70	1.74	1.25	1.12	1.36	0.979	0.945
In.	1.42	2.06	6.70	2.77	2.12	3.11	1.94	1.44	1.25	1.57	1.13	1.06

Calendar year 1953: Max 4,160 Min 246 Mean 529 Cfsm 2.22 In. 30.20
Water year 1953-54: Max 4,160 Min 207 Mean 466 Cfsm 1.96 In. 26.57

Peak discharge (base, 2,700 cfs).--Dec. 4 (10 p.m.) 3,900 cfs (8.38 ft); Dec. 7 (9:30 a.m.) 4,490 cfs (8.85 ft).

* Discharge measurement made on this day.

Note.--No gage-height record Dec. 13 to Jan. 13; discharge estimated on basis of recorded range in stage and records for Blackwater River near Baker.

ESCAMBIA RIVER BASIN

Conecuh River at Brantley, Ala.

Location.--Lat 31°34', long 86°15', in SE $\frac{1}{4}$ sec. 16, T. 7 N., R. 18 E., on left bank at downstream side of bridge on State Highway 52, half a mile downstream from Moody Mill Creek and three-quarters of a mile southeast of Brantley.

Drainage area.--485 sq mi.

Records available.--October 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 226.2 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Nov. 1, 1938, wire-weight gage at same site and datum.

Average discharge.--17 years, 740 cfs.

Extremes.--Maximum discharge during year, 9,250 cfs Dec. 7 (gage height, 19.52 ft); minimum, 22 cfs Sept. 14 (gage height, 0.85 ft).
1937-54: Maximum discharge, 15,800 cfs Nov. 29, 1948 (gage height, 23.0 ft); minimum, that of Sept. 14, 1954.

Remarks.--Records good.

Revisions.--WSP 952: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 6

Dec. 7 to Sept. 30

2.4	155	0.8	19	12.0	2,000
4.0	364	1.2	47	14.0	2,980
9.0	1,240	2.0	122	16.0	4,600
12.0	2,000	4.0	385	18.0	6,990
		9.0	1,260	20.0	10,100

Note.--Same as following table above 12.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,700	161	301	1,760	594	1,060	1,190	281	109	71	67	33
2	2,590	181	281	1,610	576	1,040	1,440	282	106	140	62	31
3	1,670	161	380	1,680	540	990	1,400	229	109	98	58	29
4	1,610	161	2,980	1,760	523	954	1,190	203	93	86	58	28
5	1,360	210	3,620	1,660	491	936	1,060	196	*83	77	52	28
6	1,130	268	4,280	1,500	475	918	1,010	*190	79	101	*49	28
7	945	288	*8,770	1,320	460	810	738	172	76	144	48	28
8	714	262	7,270	1,190	445	666	630	166	73	178	46	28
9	516	248	5,940	1,060	445	558	594	166	69	*262	45	27
10	424	242	4,700	972	430	523	558	155	68	276	44	26
11	379	222	3,330	*900	415	475	523	143	65	229	41	25
12	343	203	3,120	846	415	445	491	137	66	216	39	24
13	315	197	2,980	792	415	430	460	140	65	155	38	23
14	294	185	2,910	738	400	430	415	140	64	118	37	23
15	274	185	2,610	720	*400	415	355	155	61	99	36	23
16	262	179	2,390	720	400	430	*362	172	60	130	36	*26
17	248	179	2,290	720	460	491	385	172	61	190	34	26
18	236	179	2,070	684	460	576	400	166	92	190	37	27
19	229	179	1,840	666	430	720	370	172	242	203	45	28
20	216	197	1,680	666	475	882	348	166	196	242	53	34
21	210	222	2,000	648	576	864	318	144	150	210	70	35
22	203	409	1,900	684	612	*864	281	130	120	155	78	33
23	197	516	1,730	702	612	738	281	119	100	129	84	30
24	191	564	1,540	702	846	684	325	114	95	109	53	28
25	185	548	1,470	684	954	648	340	107	103	114	49	28
26	*179	484	1,520	702	936	594	310	99	79	111	45	26
27	185	439	1,700	702	882	684	378	101	71	107	40	26
28	173	394	1,780	720	972	1,130	362	101	65	126	38	26
29	173	357	1,970	702	-	1,040	325	124	63	94	37	26
30	167	329	2,100	666	-----	1,010	310	135	57	84	36	24
31	167	-----	2,100	630	-----	1,040	-----	120	-----	75	34	-----
Total	19,485	8,329	83,552	29,506	15,639	23,045	17,149	4,877	2,740	4,459	1,469	827
Mean	629	278	2,695	952	559	743	572	157	91.3	144	47.4	27.6
Cfs/m	1.30	0.573	5.56	1.96	1.15	1.53	1.18	0.324	0.188	0.297	0.098	0.057
In.	1.49	0.64	6.41	2.26	1.20	1.77	1.32	0.37	0.21	0.34	0.11	0.06
Calendar year 1953: Max	14,200	Min	64	Mean	1,024	Cfs/m	2.11	In.	28.66			
Water year 1953-54: Max	8,770	Min	23	Mean	578	Cfs/m	1.19	In.	16.18			

Peak discharge (base, 4,000 cfs).--Dec. 7 (1 p.m.) 9,250 cfs (19.52 ft).
* Discharge measurement made on this day.

Patsaliga Creek at Luverne, Ala.

Location.--Lat 31°44', long 86°17', in SW $\frac{1}{4}$ sec. 29, T. 9 N., R. 18 E., near center of span on downstream side of bridge on State Highway 9 and 10, 1 mile northwest of Luverne and 3 miles downstream from Pond Creek.

Drainage area.--250 sq mi, approximately.

Records available.--October 1943 to September 1954.

Gage.--Wire-weight gage read once daily. Datum of gage is 267.53 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Average discharge.--11 years, 413 cfs.

Extremes.--Maximum discharge during year, 7,280 cfs Dec. 6 (gage height, 14.2 ft, from graph based on gage readings); minimum observed, 5.6 cfs Sept. 14 (gage height, 0.96 ft).

1943-54: Maximum discharge, 16,700 cfs Nov. 28, 1948 (gage height, 16.8 ft, from graph based on gage readings); minimum observed, that of Sept. 14, 1954.

Remarks.--Records fair.

Rating table, water year 1953-54 (gage-height, in feet, and discharge, in cubic feet per second)

0.9	5.0	9.0	800
1.2	8.0	10.0	1,200
1.5	15	11.0	1,790
2.2	43	12.0	2,780
3.0	89	13.0	4,340
5.0	265	14.0	6,690
8.0	625		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,150	78	143	930	309	700	1,000	143	48	15	15	7.2
2	890	75	119	1,200	309	655	625	152	43	55	15	6.8
3	586	66	168	1,050	298	930	447	127	39	89	15	6.7
4	423	69	930	720	276	890	353	143	35	50	14	6.8
5	287	103	3,540	612	255	640	298	127	*31	53	12	6.7
6	215	161	6,690	521	245	435	331	*96	27	58	*12	7.2
7	179	161	*4,530	471	235	353	353	86	27	66	12	7.3
8	161	161	4,730	435	225	320	387	82	27	48	11	7.0
9	143	127	3,090	411	225	298	399	72	26	*37	10	6.7
10	135	103	1,870	387	215	276	331	72	27	39	11	6.5
11	119	96	1,410	*375	225	265	245	66	75	96	11	5.9
12	111	86	1,590	364	215	255	206	72	58	63	10	5.8
13	103	82	1,720	364	205	255	188	75	43	37	9.8	5.7
14	96	78	1,720	353	205	255	179	82	37	27	9.8	5.6
15	96	78	2,310	342	*206	287	161	89	37	23	9.8	5.8
16	86	78	1,790	342	206	387	*152	89	33	29	8.0	*6.6
17	82	78	1,350	342	225	521	179	82	27	119	8.0	7.2
18	78	82	1,050	364	225	586	197	72	88	170	11	8.0
19	78	86	760	399	225	423	188	69	119	152	20	7.7
20	75	103	599	375	298	387	152	63	103	89	22	7.1
21	75	143	655	331	459	411	127	53	78	58	19	7.0
22	72	215	685	309	534	*495	119	48	56	41	15	6.9
23	72	364	800	387	700	495	127	46	43	33	13	6.8
24	69	375	1,100	459	890	387	170	43	35	31	11	6.8
25	63	399	1,300	560	800	287	179	41	29	43	11	6.7
26	*63	353	1,300	625	685	276	265	39	27	39	9.2	5.9
27	66	255	1,010	599	740	320	399	43	25	39	8.2	5.8
28	82	206	720	435	800	550	508	48	22	33	7.9	6.0
29	86	170	685	375	-	760	320	50	18	25	8.2	6.2
30	96	152	670	353	-----	1,580	170	53	14	24	8.0	6.1
31	89	-----	740	331	-----	1,530	-----	50	-----	19	7.4	-----
Total	5,926	4,583	49,774	15,121	10,437	16,209	8,755	2,373	1,297	1,700	364.1	198.5
Mean	191	153	1,608	488	375	523	295	76.5	43.2	54.8	11.7	6.62
Cfsm	0.764	0.612	6.42	1.95	1.49	2.09	1.17	0.308	0.173	0.213	0.047	0.026
In.	0.88	0.68	7.40	2.25	1.55	2.41	1.30	0.35	0.19	0.25	0.05	0.03
Calendar year 1953: Max	6,690			Min 18		Mean 488		Cfsm 1.95		In. 26.51		
Water year 1953-54: Max	6,690			Min 5.6		Mean 320		Cfsm 1.28		In. 17.34		

Peak discharge (base, 3,000 cfs).--Dec. 6 (3 p.m.) 7,280 cfs (14.2 ft).

* Discharge measurement made on this day.

ESCAMBIA RIVER BASIN

Sepulga River near McKenzie, Ala.

Location--Lat 31°27', long 86°47', in SE $\frac{1}{4}$ sec. 30, T. 6 N., R. 13 E., on left bank at downstream side of Watt Bridge on U. S. Highway 31, three-eighths of a mile upstream from Old Town Creek, $\frac{3}{8}$ miles upstream from Piney Woods Creek, $\frac{5}{8}$ miles downstream from Persimmon Creek, and 7 miles southwest of McKenzie.

Drainage area--470 sq mi, approximately.

Records available--October 1937 to September 1954.

Gage--Water-stage recorder. Datum of gage is 155.96 ft above mean sea level, unadjusted (levels by Corps of Engineers). Prior to Mar. 25, 1939, wire-weight gage at same site and datum.

Average discharge--17 years, 667 cfs.

Extremes--Maximum discharge during year, 7,940 cfs Dec. 8 (gage height, 14.06 ft); minimum, 3.5 cfs Sept. 15, 28, 29, 30.

1937-54: Maximum discharge, 28,100 cfs Mar. 17, 1938 (gage height, 24.5 ft, from floodmark); minimum, that of Sept. 15, 28, 29, 30, 1954.

Maximum stage known, about 33 ft in March 1929, from information by local residents.

Remarks--Records good except those below 10 cfs, which are fair.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 3 to Nov. 20,
Apr. 11 to June 23)

2.2	1.6	3.7	193
2.3	4.3	4.2	385
2.4	8.0	5.0	800
2.6	19	6.0	1,500
2.9	47	10.0	4,630
3.3	103	14.0	7,850

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	625	67	100	1,760	470	2,030	1,760	149	55	21	21	6.2
2	646	59	93	1,580	425	1,940	1,580	138	53	46	18	5.4
3	274	53	*432	1,340	385	1,670	920	134	49	31	17	4.7
4	138	51	2,790	1,100	344	1,460	679	132	*44	28	16	4.3
5	114	66	3,230	830	323	1,200	555	*117	40	29	14	4.0
6	100	*68	5,480	*718	294	830	465	107	38	29	12	4.0
7	86	60	7,170	640	278	662	410	98	33	22	11	4.0
8	78	57	7,680	580	259	590	395	95	32	*26	11	4.0
9	71	64	5,640	535	*252	535	354	92	31	37	*11	4.0
10	67	69	5,580	510	242	495	311	89	27	44	10	4.3
11	64	63	2,870	495	234	460	271	84	25	34	8.0	5.0
12	59	57	3,160	485	231	430	259	84	25	37	7.3	4.7
13	55	55	3,880	445	224	395	*231	81	23	31	6.5	4.0
14	53	53	5,010	420	218	385	212	81	22	25	6.5	*3.8
15	51	51	4,710	390	215	490	190	81	25	25	6.5	3.5
16	49	49	3,510	415	208	*560	193	86	29	43	6.5	4.3
17	47	49	2,630	440	205	550	193	82	25	32	6.2	6.2
18	46	49	2,030	445	252	590	205	80	25	33	8.5	7.6
19	46	48	1,500	430	372	535	208	80	25	53	10	7.8
20	45	72	1,130	380	650	635	190	80	25	51	8.0	6.5
21	44	86	1,720	354	1,980	860	174	75	27	40	17	6.2
22	44	156	2,390	405	2,790	745	221	69	31	40	13	5.0
23	43	182	2,260	860	2,470	657	180	64	29	33	11	4.0
24	43	256	2,210	920	2,120	510	231	64	62	34	15	4.0
25	42	234	1,980	800	2,390	410	349	62	84	99	17	4.3
26	42	205	1,720	684	2,210	395	344	58	40	71	13	4.3
27	53	164	1,420	555	1,800	663	315	57	32	55	11	4.0
28	*57	132	1,130	485	1,670	1,940	242	59	27	35	10	3.8
29	52	121	1,130	470	-	2,710	182	58	22	31	8.5	3.5
30	53	108	1,670	470	-----	2,630	161	55	20	26	8.5	4.0
31	62	-----	1,900	480	-----	2,120	-----	55	-----	24	7.6	-----
Total	3,249	2,806	86,155	20,421	23,511	30,085	11,780	2,646	1,025	1,165	344.6	141.2
Mean	105	93.5	2,779	659	840	970	393	85.4	34.2	37.6	11.1	4.71
Cfsm	0.223	0.199	5.91	1.40	1.79	2.06	0.836	0.182	0.073	0.080	0.024	0.010
In.	0.26	0.22	6.82	1.62	1.86	2.38	0.93	0.21	0.08	0.09	0.03	0.01

Calendar year 1953: Max 7,680 Min 18 Mean 696 Cfsm 1.48 In. 20.11
Water year 1953-54: Max 7,680 Min 3.5 Mean 502 Cfsm 1.07 In. 14.51

Peak discharge (base, 3,500 cfs)--Dec. 8 (6:30 a.m.) 7,940 cfs (14.06 ft); Dec. 14 (8 p.m.) 5,160 cfs (10.72 ft).

* Discharge measurement made on this day.

Pigeon Creek near Thad, Ala.

Location.--Lat 31°29', long 86°39', in N½ sec. 21, T. 3 N., R. 14 E., on left bank near downstream side of bridge on U. S. Highway 84, 1½ miles upstream from Louisville & Nashville Railroad bridge, 2 miles southeast of Thad, 3 miles upstream from Reedy Creek, and 5½ miles southeast of McKenzie.

Drainage area.--296 sq mi.

Records available.--October 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 172.58 ft above mean sea level, datum of 1929, supplementary adjustment of 1943. Prior to Oct. 24, 1938, wire-weight gage at same site and datum.

Average discharge.--17 years, 461 cfs.

Extremes.--Maximum discharge during year, 5,860 cfs Dec. 7 (gage height, 20.61 ft); minimum daily, 10 cfs Sept. 12, 15.

1937-54: Maximum discharge, 17,100 cfs Nov. 29, 1948 (gage height, 27.1 ft); minimum, 1.6 cfs (result of unusual regulation) Oct. 11, 1938 (gage height, 1.36 ft); minimum daily, that of Sept. 12, 15, 1954.

Maximum stage known, about 30 ft in March 1929, from information by local residents.

Remarks.--Records good. Diurnal fluctuation and occasional regulation at low flow caused by small mill 200 ft above station.

Revisions.--WSP 952: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 6

Dec. 7 to Sept. 30

2.6	55	1.9	8.0	9.0	894
3.0	84	2.1	15	13.0	1,800
5.0	309	2.5	39	17.0	3,530
		3.0	82	20.0	5,400
		5.0	309		

Note.--Same as following table above 5.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	876	88	137	990	374	950	1,220	158	67	30	24	13
2	950	78	129	990	348	950	1,010	142	65	38	27	18
3	505	72	*389	930	335	912	631	127	59	39	27	18
4	266	71	1,770	840	316	950	465	117	*53	26	27	15
5	230	101	1,860	675	296	930	400	*109	52	31	25	18
6	188	88	2,960	*575	284	660	361	103	48	37	25	14
7	153	86	5,190	519	272	491	335	97	45	33	25	14
8	129	118	4,330	478	260	426	309	89	40	*34	18	13
9	117	120	3,370	452	254	400	290	101	45	45	*25	13
10	106	100	2,650	439	*248	374	272	68	36	38	21	11
11	97	86	2,180	426	242	361	260	74	38	32	19	15
12	89	78	2,260	413	242	335	248	81	34	34	20	10
13	83	76	2,060	400	236	328	*230	81	31	33	16	12
14	80	72	2,020	387	230	322	218	83	33	33	12	*12
15	75	71	1,860	374	224	316	206	93	33	40	13	10
16	72	72	1,890	374	224	*361	200	96	38	51	19	12
17	69	71	1,860	387	236	603	206	103	35	57	18	11
18	68	70	1,530	387	302	876	218	94	39	61	16	14
19	68	71	1,200	400	296	950	236	91	31	62	13	13
20	66	87	930	387	478	603	212	84	31	73	21	18
21	64	88	1,050	361	804	533	170	74	68	59	39	13
22	63	176	1,200	361	1,030	547	164	71	81	49	26	11
23	63	236	1,270	413	950	561	175	68	80	60	22	13
24	61	284	1,160	452	1,130	505	242	64	55	55	21	13
25	60	309	1,130	505	1,270	387	248	58	60	37	20	13
26	*60	328	1,090	519	1,270	348	254	59	40	45	17	12
27	62	284	1,030	465	970	426	316	58	36	51	19	14
28	65	218	876	400	912	720	361	55	38	36	20	16
29	72	188	858	374	-----	1,010	272	60	39	33	18	11
30	106	158	930	387	-----	1,200	194	72	28	30	20	13
31	106	-----	970	400	-----	1,200	-----	71	-----	28	15	-----
Total	5,069	3,945	52,739	15,460	14,033	19,535	9,924	2,701	1,358	1,310	648	403
Mean	164	132	1,701	499	501	630	331	87.1	45.3	42.3	20.9	13.4
Cfsm	0.554	0.446	5.75	1.69	1.69	2.13	1.12	0.294	0.153	0.143	0.071	0.045
In.	0.64	0.50	6.63	1.94	1.76	2.45	1.25	0.34	0.17	0.16	0.08	0.05

Calendar year 1953: Max 5,190 Min 34 Mean 473 Cfsm 1.60 In. 21.68

Water year 1953-54: Max 5,190 Min 10 Mean 348 Cfsm 1.18 In. 15.97

Peak discharge (base, 2,000 cfs).--Dec. 7 (7:30 a.m.) 5,860 cfs (20.61 ft).

* Discharge measurement made on this day.

ESCAMBIA RIVER BASIN

Conecuh River near Brooklyn, Ala.

Location.--Lat 31°10', long 86°48', in W $\frac{1}{2}$ sec. 6, T. 2 N., R. 13 E., on downstream side of right pier of bridge on U. S. Highway 29, 3 miles downstream from Sepulga River and 7 miles southwest of Brooklyn.

Drainage area.--2,400 sq mi, approximately.

Records available.--May 1935 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 76.95 ft above mean sea level, datum of 1929, supplementary adjustment of 1943. Prior to Sept. 5, 1937, wire-weight gage at same site and datum.

Average discharge.--19 years, 3,907 cfs.

Extremes.--Maximum discharge during year, 28,300 cfs Dec. 10 (gage height, 30.68 ft); minimum daily, 152 cfs Sept. 28.

1935-54: Maximum discharge, 67,300 cfs Dec. 1, 1948 (gage height, 38.6 ft); minimum daily, that of Sept. 28, 1954.

Maximum stage known, about 47 ft Mar. 15, 1929, from information by State Highway Department.

Remarks.--Records good except those for periods of no gage-height record, which are fair. Some regulation at low and medium flows by Gantt and Point A Reservoirs and power-plants.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.6	150	15.0	7,720
3.0	500	20.0	12,100
5.0	1,300	25.0	18,800
9.0	3,520	31.0	28,900

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,360	1,120	1,440	10,500	2,830	7,360	7,070	2,250	680	500	650	348
2	8,320	590	*1,440	9,180	3,520	6,860	6,780	1,790	750	545	372	300
3	8,710	890	*1,490	8,020	3,190	6,420	6,210	1,000	*730	830	410	280
4	7,000	870	13,200	7,720	3,010	6,140	5,650	1,400	770	630	398	262
5	5,090	1,350	20,000	*7,220	2,890	5,790	4,530	1,350	670	485	410	212
6	3,650	1,990	21,300	6,860	3,070	5,510	3,970	1,300	560	750	410	170
7	3,190	1,260	24,900	6,420	2,770	4,950	3,780	1,200	480	590	425	198
8	2,890	1,300	*25,300	6,930	2,040	4,390	3,710	1,100	530	*590	355	262
9	2,650	710	27,000	6,660	*2,470	4,110	3,710	950	560	1,260	242	288
10	2,590	1,080	28,100	5,090	2,420	3,840	3,390	750	575	1,120	*360	258
11	2,140	1,170	26,000	4,950	2,420	3,520	2,770	940	560	910	410	240
12	1,120	1,220	23,700	3,780	2,420	3,130	1,940	1,100	530	440	398	210
13	790	1,120	21,900	4,180	2,770	3,070	*2,420	1,100	500	485	385	170
14	930	1,080	20,700	4,110	2,420	2,950	2,360	1,100	420	560	398	170
15	1,060	850	19,000	4,180	1,790	2,420	2,140	1,000	480	575	348	*225
16	1,350	485	16,900	4,250	2,830	*2,530	2,040	930	500	730	230	240
17	1,080	950	14,300	4,180	2,420	2,710	2,530	670	520	1,120	305	230
18	1,220	910	12,000	4,880	1,990	3,190	2,090	860	560	850	360	235
19	575	890	10,600	4,530	2,090	4,180	1,260	1,100	530	485	385	228
20	910	930	9,340	4,600	3,650	5,300	1,890	1,100	490	870	398	194
21	1,060	1,540	11,900	4,600	6,210	4,600	1,890	1,100	430	890	425	180
22	930	1,890	12,100	4,530	6,280	4,110	1,990	1,000	530	990	410	210
23	950	3,580	12,100	4,110	6,710	4,040	2,310	860	690	770	292	200
24	930	2,350	10,800	4,250	6,660	3,970	2,200	620	610	830	335	176
25	950	2,890	10,100	3,650	7,580	3,710	1,690	760	830	630	385	164
26	500	2,530	9,260	4,180	7,430	3,190	1,440	860	1,220	385	385	168
27	*850	2,310	8,320	3,910	6,930	3,650	2,360	900	850	560	398	180
28	1,120	2,090	7,870	3,910	7,000	7,290	2,140	920	450	670	398	152
29	910	2,140	8,400	3,780	-	7,140	*2,200	940	500	560	310	180
30	850	1,440	9,760	3,840	-	7,720	2,090	840	490	530	210	215
31	970	-	11,700	3,910	-	7,430	-	600	-	750	268	-
Total	72,625	44,125	450,920	165,110	107,810	145,220	90,750	32,390	17,775	21,690	11,425	6,505
Mean	2,343	1,471	14,550	5,262	3,850	4,685	3,025	1,045	592	700	369	217
Cfsm	0.976	0.613	6.06	2.19	1.60	1.95	1.26	0.435	0.247	0.292	0.154	0.090
In.	1.13	0.68	6.99	2.53	1.67	2.25	1.41	0.50	0.28	0.34	0.18	0.10
Calendar year 1953: Max	28,100	Min	358	Mean	4,316	Cfsm	1.80	In.	24.43			
Water year 1953-54: Max	28,100	Min	152	Mean	3,190	Cfsm	1.33	In.	18.06			

Peak discharge (base, 16,000 cfs).--Dec. 10 (11 a.m.) 28,300 cfs (30.68 ft).

* Discharge measurement made on this day.

Note.--No gage-height record May 3, May 6 to June 2, June 6, 7, 12-17, 20, 21, June 28 to July 1; discharge estimated on basis of records for Escambia River near Century, Fla.

ESCAMBIA RIVER BASIN

197

Murder Creek near Evergreen, Ala.

Location.--Lat 31°25', long 87°00', in NW¼ sec. 8, T. 5 N., R. 11 E., on left bank near upstream side of bridge on U. S. Highway 31, 1 mile upstream from Louisville & Nashville Railroad bridge and 2½ miles southwest of Evergreen.

Drainage area.--169 sq mi.

Records available.--October 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 178.29 ft above mean sea level, datum of 1929, supplementary adjustment of 1943 (levels by Corps of Engineers). Prior to Mar. 25, 1939, wire-weight gage at same site and datum.

Average discharge.--17 years, 280 cfs.

Extremes.--Maximum discharge during year, 2,840 cfs Dec. 4 (gage height, 10.89 ft); minimum, 38 cfs Sept. 2, 3 (gage height, 2.76 ft).
1937-54: Maximum discharge, 20,000 cfs Mar. 16, 1938 (gage height, 16.65 ft, from graph based on gage readings), from rating curve extended above 10,000 cfs on basis of records for Sepulga River near McKenzie; minimum, that of Sept. 2, 3, 1954.

Remarks.--Records good prior to May 2 and fair thereafter.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used June 3 to Sept. 30)

2.6	38	7.5	782
3.5	102	9.0	1,390
4.5	197	10.5	2,440
6.0	418		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	136	102	140	539	294	476	340	175	96	63	68	40
2	132	102	140	437	258	456	294	175	92	73	64	39
3	118	101	292	374	238	374	272	155	89	72	61	39
4	114	101	2,440	348	226	301	245	145	*89	67	63	40
5	110	127	2,180	*332	220	286	232	136	86	74	62	40
6	106	*160	*2,180	308	220	272	220	132	84	97	61	40
7	108	140	2,000	294	214	265	226	127	81	*77	58	40
8	106	122	1,250	286	*208	238	238	122	80	87	57	40
9	102	118	952	279	208	252	214	118	78	145	61	42
10	102	114	864	286	208	245	197	118	78	114	*62	45
11	101	110	664	301	208	238	192	118	81	110	52	43
12	98	110	1,380	279	208	232	*186	122	84	96	49	40
13	96	110	1,680	265	197	232	180	127	110	95	47	39
14	94	110	1,440	258	197	232	175	122	85	79	46	*40
15	94	110	1,030	258	197	*232	165	122	78	72	46	42
16	94	110	766	301	197	238	175	127	74	82	49	48
17	94	114	562	294	197	214	226	118	73	92	49	67
18	92	114	456	272	192	208	214	110	89	102	47	73
19	92	114	409	252	208	238	175	118	96	97	47	67
20	94	150	456	252	456	365	160	132	91	87	47	58
21	94	245	847	252	1,300	428	155	127	81	80	56	53
22	92	340	916	308	1,340	324	197	110	76	70	70	51
23	91	400	721	418	850	238	226	106	72	70	60	48
24	90	358	586	446	550	220	365	100	75	106	57	46
25	89	324	528	316	562	214	294	98	170	122	54	45
26	90	202	437	272	506	238	214	96	100	96	50	45
27	*101	170	382	258	391	356	214	98	77	106	47	46
28	*140	150	374	258	409	766	180	102	70	93	47	45
29	122	145	476	252	-	952	*165	106	68	82	50	45
30	106	140	598	279	---	706	175	110	88	76	47	54
31	102	---	678	340	---	437	---	110	---	71	43	---
Total	3,198	4,811	27,824	9,614	10,259	10,493	6,511	3,782	2,571	2,753	1,677	1,400
Mean	103	160	898	310	366	338	217	122	85.7	88.8	54.1	46.7
Cfsm	0.609	0.947	5.31	1.83	2.17	2.00	1.28	0.722	0.507	0.525	0.320	0.276
In.	0.70	1.06	6.12	2.12	2.26	2.31	1.43	0.83	0.57	0.61	0.37	0.31

Calendar year 1953: Max 2,440

Min 66

Mean 286

Cfsm 1.69

In. 22.99

Water year 1953-54: Max 2,440

Min 39

Mean 233

Cfsm 1.38

In. 18.69

Peak discharge (base, 2,000 cfs).--Dec. 4 (12 m.) 2,840 cfs (10.89 ft).

* Discharge measurement made on this day.

Escambia River near Century, Fla.

Location.--Lat 30°57'55", long 87°14'00", in sec. 10, T. 5 N., R. 30 W., on left bank 18 ft downstream from bridge on State Highway 4, 1.2 miles downstream from Escambia Creek, and 1½ miles east of Century.

Drainage area.--3,810 sq mi, approximately.

Records available.--October 1934 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 28.34 ft above mean sea level (Florida State Road Department benchmark). Prior to Jan. 13, 1940, wire-weight gage at same site and datum.

Average discharge.--20 years, 6,376 cfs.

Extremes.--Maximum discharge during year, 45,300 cfs Dec. 7 (gage height, 18.59 ft); minimum, 600 cfs Sept. 15 (gage height, 1.30 ft).

1934-54: Maximum discharge, 73,900 cfs Mar. 22, 1938 (gage height, 20.66 ft, from floodmarks); minimum, that of Sept. 15, 1954.

Maximum stage known, 37.8 ft in March 1929, from information by local residents, (discharge, 315,000 cfs, from rating curve extended above 72,000 cfs).

Remarks.--Records good. Some regulation by powerplants above station.

Revisions.--WSP 1204: Drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.3	600	14.0	12,800
3.0	1,400	15.0	15,900
7.0	4,040	17.0	26,600
12.0	8,570	19.0	50,800

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,070	1,540	2,570	17,700	5,660	9,730	10,600	3,300	1,460	1,070	1,280	686
2	7,200	1,640	2,340	17,800	4,900	9,920	9,580	3,290	1,410	1,210	1,280	749
3	7,840	1,400	2,710	18,300	4,860	9,230	8,610	2,980	1,480	1,360	1,090	758
4	8,400	1,430	13,900	15,900	4,710	8,520	8,020	2,250	1,440	1,400	1,000	720
5	7,870	1,690	28,500	11,800	4,480	7,920	7,340	2,320	1,440	1,340	997	695
6	6,160	2,150	*38,900	10,400	4,320	7,550	6,410	2,330	1,380	1,380	979	695
7	4,680	2,720	44,800	9,530	4,370	7,450	6,190	2,220	1,260	1,360	974	654
8	4,020	2,140	41,700	8,840	4,110	6,940	5,870	2,110	1,170	1,480	965	632
9	3,660	1,940	37,500	8,710	3,570	6,270	*5,500	2,060	1,120	*1,660	940	650
10	3,420	1,620	36,100	8,840	3,740	5,840	5,280	1,910	1,200	2,080	875	749
11	3,280	1,620	36,400	7,990	3,740	5,530	4,960	1,680	1,200	2,020	*816	758
12	2,930	1,710	40,000	6,870	3,690	5,190	4,400	1,820	1,200	1,790	898	700
13	2,180	1,730	41,000	*6,180	3,680	4,850	3,640	1,880	1,190	1,390	902	678
14	1,680	1,720	39,400	6,110	3,870	4,660	3,740	1,830	1,150	1,170	893	645
15	1,660	1,650	35,600	6,100	3,640	4,500	3,720	1,840	1,100	1,200	940	609
16	1,710	1,530	31,900	6,050	3,220	4,020	3,570	1,870	1,030	1,260	970	645
17	1,890	1,300	28,200	6,030	3,840	3,980	3,610	1,880	1,090	1,560	930	839
18	1,790	1,410	25,100	5,980	3,680	4,070	3,960	1,540	1,140	1,750	857	1,040
19	1,790	1,520	22,100	5,450	3,350	4,560	3,560	1,660	1,220	1,760	821	898
20	1,500	1,750	19,600	5,470	4,530	6,440	2,780	*1,980	1,220	1,490	839	826
21	1,450	2,220	19,800	5,480	7,860	7,170	3,020	1,940	1,140	1,440	893	*762
22	1,800	3,640	20,400	5,500	10,100	6,660	3,160	1,870	1,050	1,520	845	705
23	*1,560	5,590	21,800	5,850	10,600	5,890	3,510	1,770	1,010	1,500	*992	676
24	1,520	5,820	21,300	6,180	10,000	5,530	3,940	1,560	1,220	1,500	979	681
25	1,520	5,000	19,800	6,230	*10,200	5,360	4,180	1,420	1,340	1,560	884	658
26	1,500	4,380	17,800	5,870	10,400	5,120	4,160	1,420	1,480	1,500	884	636
27	1,380	3,790	15,800	5,720	10,100	5,070	3,790	1,510	1,820	1,840	898	632
28	1,400	3,400	14,200	5,650	9,680	9,610	3,630	1,570	1,500	1,780	888	622
29	1,690	3,120	13,200	5,520	-	13,000	3,450	1,630	1,170	1,590	888	618
30	1,580	3,000	14,100	5,340	-----	13,500	3,430	1,660	1,040	1,400	852	636
31	1,480	-----	16,300	5,410	-----	12,000	-----	1,650	-----	1,270	772	-----
Total	97,400	74,150	762,620	248,580	160,900	215,880	147,090	60,550	37,670	46,190	29,121	21,250
Mean	3,142	2,472	24,600	8,019	5,746	6,964	4,903	1,953	1,256	1,490	939	708
Cfsm	0.825	0.649	6.46	2.10	1.51	1.83	1.29	0.513	0.330	0.391	0.246	0.186
In.	0.95	0.72	7.44	2.43	1.57	2.11	1.44	0.59	0.37	0.45	0.28	0.21
Calendar year 1953: Max	44,800	Min	1,000	Mean	6,658	Cfsm	1.75	In.	23.70			
Water year 1953-54: Max	44,800	Min	609	Mean	5,209	Cfsm	1.37	In.	18.56			

* Discharge measurement made on this day.

Pine Barren Creek near Barth, Fla.

Location.--Lat 30°47'55", long 87°22'05", in sec. 5, T. 3 N., R. 31 W., near right bank 10 ft downstream from Wiggins Bridge on private road, 0.3 mile upstream from Blue Water Creek, 2.2 miles northeast of Mount Calvary Camp Grounds, and 4.0 miles northwest of Barth.

Drainage area.--76.4 sq mi.

Records available.--October 1952 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 29.86 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 3,450 cfs Dec. 6 (gage height, 13.26 ft); minimum, 60 cfs Sept. 1-5, 12, 13 (gage height, 3.22 ft).
1952-54: Maximum discharge, that of Dec. 6, 1953; minimum, that of Sept. 1-5, 12, 13, 1954.

Remarks.--Records good. Records of chemical analyses for the water year 1954 are given in WSP 1350.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

3.2	59	10.0	964
3.5	74	11.0	1,290
4.0	114	12.0	1,900
5.0	210	13.0	3,010
7.0	460		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	88	77	94	207	112	144	123	89	80	69	71	61
2	87	77	91	165	110	118	113	87	76	68	69	61
3	94	76	326	150	110	114	110	86	76	69	68	61
4	83	79	862	141	109	109	107	85	80	69	67	61
5	80	190	*1,290	136	108	106	103	83	75	70	67	62
6	80	140	2,120	130	108	137	103	82	73	71	66	62
7	80	96	1,980	128	107	159	103	82	73	67	66	61
8	78	88	539	127	106	124	101	82	73	74	66	62
9	78	86	325	126	107	114	*99	80	71	*103	67	62
10	77	83	244	150	107	109	97	80	71	84	65	63
11	76	82	243	155	107	106	97	80	71	78	*64	62
12	76	80	432	136	106	104	109	80	73	91	63	61
13	76	79	411	*127	103	105	174	80	86	76	63	61
14	75	79	548	125	104	105	110	81	89	72	65	61
15	75	78	247	127	105	100	100	82	74	75	80	62
16	76	79	182	132	105	98	121	82	71	118	71	74
17	75	78	157	126	104	98	132	79	76	198	66	99
18	75	76	147	121	103	98	103	78	80	148	65	78
19	76	78	143	120	103	154	96	89	82	128	65	68
20	75	185	189	121	202	244	93	*103	73	88	65	66
21	74	169	323	124	256	181	92	88	70	78	65	*64
22	*73	367	285	140	138	119	97	81	71	73	65	64
23	76	308	256	131	118	110	101	79	69	69	66	63
24	79	176	181	123	153	106	96	77	75	73	67	63
25	73	129	161	120	*136	103	115	76	137	88	65	63
26	75	110	152	119	117	110	98	77	111	87	64	63
27	86	101	143	119	111	193	93	82	77	124	65	65
28	82	98	153	118	173	321	90	85	75	96	63	62
29	77	95	229	114	-	334	90	101	70	101	65	63
30	76	93	305	113	-----	224	92	95	69	86	62	71
31	76	-----	250	116	-----	142	-----	85	-----	76	62	-----
Total	2,417	3,536	12,788	4,065	3,428	4,589	3,188	2,596	2,347	2,765	2,042	1,947
Mean	76.0	118	413	151	122	142	105	83.7	76.2	89.2	65.9	64.9
Cfsm	1.02	1.54	5.41	1.71	1.60	1.86	1.37	1.10	1.02	1.17	0.863	0.849
In.	1.18	1.72	6.22	1.98	1.67	2.14	1.54	1.26	1.14	1.35	0.99	0.95

Calendar year 1953: Max 2,120 Min 67 Mean 154 Cfsm 2.02 In. 27.40
Water year 1953-54: Max 2,120 Min 61 Mean 125 Cfsm 1.64 In. 22.14

Peak discharge (base, 700 cfs).--Dec. 6 (7 p.m.) 3,450 cfs (13.26 ft).

* Discharge measurement made on this day.

Perdido River at Barrineau Park, Fla.

Location.--Lat 30°41'25", long 87°26'25", in sec. 15, T. 2 N., R. 32 W., on right bank 25 ft downstream from highway bridge, 1,000 ft downstream from Alligator Creek, and half a mile southwest of Barrineau Park.

Drainage area.--388 sq mi.

Records available.--June 1941 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 25.71 ft above mean sea level, datum of 1929. Prior to Aug. 22, 1949, staff gage at same site and datum.

Average discharge.--13 years, 802 cfs.

Extremes.--Maximum discharge during year, 11,100 cfs Dec. 6 (gage height, 16.60 ft), from rating curve extended above 6,000 cfs on basis of slope-conveyance study; minimum, 207 cfs Sept. 15 (gage height, 1.29 ft).
1941-54: Maximum discharge, that of Dec. 6, 1953; minimum, that of Sept. 15, 1954.
Maximum stage known, 25.7 ft Mar. 15, 1929, from information by local resident.

Remarks.--Records good.

Revisions.--WSP 1204: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 3				Dec. 4 to Sept. 30			
1.6	232	3.0	597	1.3	208	7.0	2,080
2.0	294	7.0	2,040	2.0	320	12.0	4,950
2.5	420			3.0	598	15.0	8,420

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	331	258	398	1,350	484	625	943	316	348	263	360	211
2	315	255	377	1,250	475	528	682	316	314	283	307	210
3	309	255	794	1,090	464	480	568	312	299	278	280	210
4	292	258	*2,440	925	458	464	498	307	293	312	270	211
5	280	590	2,680	797	447	442	455	303	291	284	263	211
6	272	754	7,780	722	439	498	425	299	282	277	255	212
7	271	539	8,360	664	434	704	412	295	275	277	250	212
8	267	414	*4,770	632	428	615	398	295	272	290	246	211
9	266	358	5,580	605	428	557	*383	290	270	*365	263	215
10	263	326	2,160	612	425	495	372	286	266	353	305	220
11	260	307	1,630	722	420	469	365	284	263	305	*272	215
12	256	294	2,270	690	420	447	365	284	270	290	247	210
13	254	287	2,910	632	409	434	409	284	370	293	240	209
14	252	282	2,450	*601	409	423	370	284	461	288	235	210
15	250	277	2,590	588	412	409	350	288	370	270	235	209
16	250	277	1,820	588	412	393	380	290	343	288	242	235
17	249	274	1,400	572	409	385	447	284	367	650	252	301
18	249	272	1,110	550	406	377	409	280	390	708	240	234
19	249	271	922	537	406	461	370	290	375	605	234	261
20	249	536	929	534	654	650	350	*357	320	450	234	246
21	248	876	1,570	540	956	605	338	345	293	372	234	*234
22	*246	1,340	1,660	598	868	553	336	319	280	318	228	227
23	246	1,170	1,660	632	546	501	345	297	273	286	227	222
24	245	1,170	1,330	605	598	490	362	288	272	277	235	219
25	245	1,000	1,130	578	*661	469	398	284	312	299	234	219
26	250	883	972	559	605	442	385	284	406	362	232	217
27	292	693	840	550	546	492	353	291	355	481	226	216
28	284	561	804	534	622	1,250	338	327	307	444	224	215
29	274	472	1,130	510	-	1,480	325	447	286	456	216	216
30	264	417	1,530	492	-	1,790	318	550	272	478	218	232
31	260	-	1,620	490	-	1,440	-	431	-	393	216	-
Total	8,238	16,287	64,616	20,749	14,021	19,358	12,449	9,906	9,495	11,255	7,724	6,720
Mean	266	543	2,084	669	501	624	415	320	316	363	249	224
Cfs/m	0.686	1.40	5.37	1.72	1.29	1.61	1.07	0.825	0.814	0.936	0.642	0.577
In.	0.79	1.56	6.19	1.99	1.34	1.86	1.19	0.95	0.91	1.08	0.74	0.64

Calendar year 1953: Max 8,360 Min 249 Mean 731 Cfs/m 1.88 In. 25.55
Water year 1953-54: Max 8,360 Min 205 Mean 550 Cfs/m 1.42 In. 19.24

Peak discharge (base, 4,000 cfs).--Dec. 6 (10 p.m.) 11,100 cfs (16.60 ft).

* Discharge measurement made on this day.

Styx River near Loxley, Ala.

Location.--Lat 30°39'50", long 87°38'20", in S $\frac{1}{2}$ sec. 26, T. 4 S., R. 4 E., near right bank on downstream side of pier of bridge on county road, 2 miles upstream from Hollinger Creek and 7 miles northeast of Loxley.

Drainage area.--92.5 sq mi.

Records available.--October 1951 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 39 ft (by barometer).

Extremes.--Maximum discharge during year, 14,000 cfs Dec. 6 (gage height, 19.73 ft), from Rating curve extended above 2,500 cfs on basis of slope-area determination of peak flow; minimum, 19 cfs Sept. 12 (gage height, 0.70 ft).

1951-54: Maximum discharge, that of Dec. 6, 1953; minimum, that of Sept. 12, 1954.

Flood in September 1926 reached a stage of 22.2 ft, from information by Corps of Engineers. Flood in September 1910 or 1911 reached a stage of 33 ft, from information by local resident.

Remarks.--Records good except those above 2,500 cfs, which are fair.

Cooperation.--Twelve discharge measurements furnished by Corps of Engineers.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

0.7	19	5.0	1,090
1.0	33	11.0	2,620
1.5	77	14.0	3,710
2.0	155	18.0	8,540
3.0	390		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	37	81	436	93	110	172	46	45	32	41	20
2	72	37	77	332	89	96	107	41	38	31	35	20
3	61	*37	253	272	*87	91	84	39	34	46	*32	20
4	53	43	*1,000	226	84	86	73	38	32	39	30	20
5	49	265	740	*188	81	80	66	37	32	33	29	20
6	46	272	*7,030	163	80	126	62	35	30	32	28	20
7	45	194	*2,250	142	78	226	60	35	29	33	26	20
8	45	115	830	130	77	190	57	34	28	32	26	*21
9	45	82	469	122	76	144	*58	33	28	49	30	21
10	43	67	405	132	76	109	74	32	*27	47	28	21
11	41	59	420	192	76	94	62	32	26	37	*26	20
12	40	55	*935	180	76	*86	57	*32	30	32	24	19
13	39	52	882	157	73	81	57	32	65	*30	24	20
14	39	49	778	135	73	77	52	32	50	28	23	21
15	*38	48	541	127	75	70	50	32	41	28	23	21
16	38	47	390	128	76	66	66	32	37	32	23	36
17	37	46	312	120	75	64	98	32	41	35	23	72
18	37	45	253	110	72	63	81	30	57	46	23	49
19	37	45	213	106	70	80	63	32	66	60	23	42
20	37	264	255	106	140	114	53	36	57	60	25	34
21	36	314	405	107	224	97	49	38	44	52	25	30
22	35	660	436	135	180	80	49	34	37	42	24	28
23	35	522	436	151	130	70	53	32	33	40	24	26
24	35	362	390	142	144	67	52	31	31	69	26	25
25	34	262	314	127	153	65	55	30	41	97	24	24
26	34	207	262	115	128	68	63	31	66	104	24	24
27	37	134	219	109	106	112	59	38	64	122	23	24
28	38	97	215	106	110	376	52	152	57	97	23	*23
29	38	84	335	97	-	346	46	117	40	81	23	25
30	38	77	560	93	-----	314	45	70	36	62	21	31
31	37	-----	580	94	-----	248	-----	59	-----	48	21	-----
Total	1,317	4,598	22,266	4,780	2,802	3,896	1,975	1,324	1,242	1,570	800	797
Mean	42.5	153	718	154	100	126	65.8	42.7	41.4	50.6	25.8	26.6
Cfsm	0.459	1.65	7.76	1.66	1.08	1.36	0.711	0.462	0.448	0.547	0.279	0.288
In.	0.53	1.85	8.95	1.92	1.13	1.57	0.79	0.53	0.50	0.63	0.32	0.32

Calendar year 1953: Max 7,030 Min 31 Mean 216 Cfsm 2.34 In. 31.74

Water year 1953-54: Max 7,030 Min 19 Mean 130 Cfsm 1.41 In. 19.04

Peak discharge (base, 1,000 cfs).--Nov. 22 (11 a.m.) 1,030 cfs (4.85 ft); Dec. 6 (10 a.m.) 14,000 cfs (19.73 ft).

* Discharge measurement made on this day.

FISH RIVER BASIN

Fish River near Silver Hill, Ala.

Location.--Lat 30°32'45", long 87°47'55" on line between secs. 5 and 8, T. 6 S., R. 3 E., near midchannel on upstream side of bridge on State Highway 104, a quarter of a mile downstream from Caney Branch, half a mile upstream from Perone Branch, 2½ miles west of Silver Hill, and 12 miles upstream from mouth.

Drainage area.--55.8 sq mi.

Records available.--July 1953 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 20 ft (from topographic map).

Extremes.--1953: Maximum discharge during period July to September, 870 cfs July 17 (gage height, 9.10 ft); minimum, 57 cfs Sept. 18 (gage height, 1.52 ft).
1953-54: Maximum discharge during water year, 8,570 cfs Dec. 6 (gage height, 17.04 ft); minimum, 40 cfs Aug. 18, 19, and Sept. 1 (gage height, 1.42 ft).

Remarks.--Records good except those for period of no gage-height record, which are fair.

Cooperation.--Twenty-one discharge measurements furnished by Corps of Engineers.

Rating table, July 1, 1953, to Sept. 30, 1954 (gage height, in feet, and discharge, in cubic feet per second)

1.4	37	9.0	839
1.7	82	11.0	1,670
2.5	160	13.0	3,170
6.0	369	15.0	5,470
8.0	605		

Discharge, in cubic feet per second, 1953

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1	a100	77	69	9	73	183	62	17	662	73	60	25	112	73	115
2	a85	79	68	10	102	110	62	18	311	79	58	26	138	72	243
3	a73	94	64	11	83	70	*60	19	181	92	132	27	94	*105	190
4	a66	72	64	12	63	73	60	20	297	*138	190	28	74	148	97
5	a63	66	73	13	60	89	60	21	336	122	101	29	76	114	76
6	a61	64	70	14	62	106	60	22	243	69	63	30	90	79	70
7	a60	64	64	15	69	134	60	23	134	100	63	31	84	73	-
8	a62	63	62	16	298	74	60	24	104	62	62				

Total	4,376	2,857	2,544
Mean	141	92.2	84.8
Cubic feet per second per square mile	2.53	1.65	1.52
Runoff in inches	2.92	1.90	1.70

Peak discharge (base, 750 cfs).--July 17 (12:30 a.m.) 870 cfs (9.10 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Styx River near Loxley.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	73	63	78	190	87	88	79	62	62	56	54	42
2	70	62	76	152	87	83	76	60	58	58	52	44
3	68	*62	148	134	*86	84	74	62	59	56	*52	44
4	66	70	*426	124	86	83	73	63	57	64	61	46
5	64	211	315	*121	84	61	73	60	56	57	51	46
6	64	183	*4,630	114	84	115	73	60	54	56	51	46
7	64	90	*1,330	108	84	143	73	60	54	58	49	46
8	62	72	*406	105	84	104	72	57	54	63	49	46
9	62	69	*243	104	84	87	*69	57	54	73	49	*47
10	62	66	204	113	84	84	68	57	*52	64	49	46
11	62	64	183	148	86	83	68	57	54	57	*46	44
12	62	64	*401	119	84	*82	68	*58	64	57	42	44
13	60	63	368	106	82	82	68	58	102	*57	42	44
14	60	63	315	103	83	61	64	58	63	56	42	47
15	*62	63	237	103	84	78	68	60	60	58	42	49
16	62	64	183	104	84	77	82	58	64	66	42	84
17	62	63	152	101	83	77	93	58	66	78	42	121
18	62	63	134	97	82	77	73	58	63	72	42	73
19	62	64	124	98	83	93	68	58	60	73	42	60
20	62	237	148	98	130	100	66	60	56	64	42	57
21	62	218	218	100	143	82	66	58	56	58	54	54
22	62	303	204	110	98	78	66	57	54	56	52	52
23	60	297	176	102	87	77	66	56	54	56	49	49
24	60	152	152	100	107	77	76	56	52	68	52	49
25	60	105	134	97	100	77	78	57	54	73	49	49
26	62	87	125	97	87	78	74	58	54	73	47	51
27	68	78	119	96	84	93	69	78	57	72	47	49
28	66	76	130	92	88	176	64	87	56	69	47	*49
29	63	76	163	88	-	152	63	72	56	69	46	66
30	63	76	255	88	-----	94	63	64	56	63	44	92
31	62	-----	255	89	-----	86	-----	64	-----	57	42	-----
Total	1,959	3,224	12,052	3,401	2,525	2,852	2,133	1,888	1,760	1,987	1,460	1,636
Mean	63.2	107	389	110	90.2	92.0	71.1	60.9	58.7	64.1	47.1	54.5
Cfs/m	1.13	1.92	6.97	1.97	1.62	1.65	1.27	1.09	1.05	1.15	0.844	0.977
In.	1.31	2.15	8.03	2.27	1.68	1.90	1.42	1.26	1.17	1.32	0.97	1.09

Calendar year 1953: Max - Min - Mean - Cfs/m - In. -
Water year 1953-54: Max 4,630 Min 42 Mean 101 Cfs/m 1.81 In. 24.57

Peak discharge (base, 750 cfs).--Dec. 6 (9:30 a.m.) 8,570 cfs (17.04 ft).

* Discharge measurement made on this day.

Cartecay River near Ellijay, Ga.

Location.--Lat 34°41', long 84°27', on right bank adjacent to State Highway 43, three-quarters of a mile downstream from Owltown Creek, 2 miles southeast of Ellijay, Gilmer County, and 2 miles upstream from confluence with Ellijay River.

Drainage area.--135 sq mi.

Records available.--March 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 1,255.39 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (Corps of Engineers benchmark). Prior to Dec. 19, 1938, staff gage at same site and datum.

Average discharge.--17 years, 268 cfs.

Extremes.--Maximum discharge during year, 10,000 cfs Jan. 16 (gage height, 9.6 ft); minimum daily, 75 cfs Sept. 8, 30.

1937-54: Maximum discharge, 20,000 cfs Apr. 8, 1938 (gage height, 13.0 ft, from floodmark), from rating curve extended above 3,500 cfs on basis of slope-area determination of peak flow; minimum daily, 64 cfs Oct. 26, 1941.

Remarks.--Records good. Some diurnal fluctuations caused by gristmills above station.

Rating table, water year 1953-54 (gage height in feet, and discharge, in cubic feet per second)

1.1	62	3.0	790
1.4	115	4.0	1,570
1.7	175	6.0	3,750
2.0	270	7.6	6,100
2.5	497		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	136	102	102	224	355	436	704	304	270	146	126	93
2	128	100	102	208	350	333	508	297	333	157	121	92
3	122	99	106	218	337	378	456	421	337	161	111	92
4	119	100	193	*198	329	333	421	401	297	152	109	86
5	117	100	157	191	312	308	396	325	252	159	108	83
6	115	100	148	180	300	297	387	304	231	157	109	81
7	111	99	183	173	289	281	378	923	221	146	130	78
8	109	99	144	170	285	*278	378	293	211	146	115	75
9	109	99	990	168	281	270	359	274	204	159	418	102
10	109	99	578	166	278	266	342	266	201	188	168	100
11	106	99	293	191	281	263	337	263	196	152	132	88
12	106	99	426	178	270	256	333	256	188	144	121	81
13	104	97	342	166	252	300	325	274	185	*138	119	81
14	104	97	472	166	252	421	325	300	198	134	117	80
15	111	95	333	1,150	252	312	325	281	221	134	111	*80
16	109	95	266	5,950	278	281	421	266	238	130	108	80
17	104	95	224	1,030	391	274	436	252	218	128	104	81
18	102	93	196	637	477	270	359	266	238	126	106	106
19	102	95	185	497	240	337	*342	278	204	128	109	85
20	100	100	178	426	312	373	316	259	191	124	113	83
21	99	121	252	1,010	497	316	308	245	180	149	134	106
22	99	152	325	2,200	337	293	304	234	175	229	136	102
23	97	193	325	1,070	300	316	312	224	173	157	*119	88
24	95	130	256	734	293	355	316	224	183	140	122	83
25	95	142	221	596	278	368	359	218	168	134	128	90
26	95	124	201	*524	266	619	346	218	164	130	136	92
27	122	115	191	524	252	698	321	211	159	132	119	88
28	122	109	198	487	387	661	308	211	157	132	109	85
29	122	106	312	426	-	502	350	221	148	124	108	80
30	108	106	285	396	-----	451	325	221	148	117	108	75
31	104	-----	252	378	-----	524	-----	*224	-----	115	99	-----
Total	3,581	3,260	8,436	20,632	8,932	11,370	11,097	8,324	6,289	4,468	3,973	2,616
Mean	109	109	272	666	319	367	370	269	210	144	128	87.2
Cfs/m	0.807	0.807	2.01	4.93	2.36	2.72	2.74	1.99	1.56	1.07	0.948	0.646
In.	0.93	0.90	2.32	5.68	2.46	3.14	3.06	2.29	1.74	1.23	1.09	0.72

Calendar year 1953: Max 1,990 Min 83 Mean 255 Cfs/m 1.89 In. 25.63
 Water year 1953-54: Max 5,950 Min 75 Mean 254 Cfs/m 1.88 In. 25.56

Peak discharge (base, 1,400 cfs)--Dec. 9 (3 p.m.) 1,930 cfs (4.40 ft); Jan. 16 (10 a.m.) 10,000 cfs (9.6 ft); Jan. 22 (9 a.m.) 3,750 cfs (6.0 ft).

* Discharge measurement made on this day.

Rock Creek near Fairmount, Ga.

Location.--Lat 34°21'30", long 84°46'50", on right bank 30 ft downstream from bridge on State Highway 140, 2½ miles upstream from mouth, and 7 miles southwest of Fairmount, Gordon County.

Drainage area.--5.61 sq mi.

Records available.--October 1951 to September 1954. Prior to October 1952, published as Rocky Branch near Fairmount.

Gage.--Water-stage recorder. Datum of gage is 758.96 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Extremes.--Maximum discharge during year, 820 cfs Jan. 16 (gage height, 4.18 ft); minimum, 0.62 cfs Sept. 20.
1951-54: Maximum discharge, that of Jan. 16, 1954; minimum, that of Sept. 20, 1954.

Remarks.--Records good.

Revisions (water years).--WSP 1274: 1952, drainage area.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.39	0.78	1.0	16
.44	.86	1.3	32
.5	1.9	1.6	54
.6	3.3	2.0	93
.7	5.2	2.5	175
.8	7.8	3.0	300

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*2.5	1.6	1.6	6.2	6.5	24	44.0	5.2	*3.5	2.2	1.7	1.1
2	2.3	1.6	1.6	5.7	6.2	14	20	9.8	3.7	3.4	1.6	1.1
3	2.0	1.6	2.1	5.5	6.0	14	14	19	34	2.7	1.6	.86
4	1.9	1.6	5.0	4.8	5.7	10	12	9.1	7.8	2.5	1.5	.86
5	1.8	1.6	2.9	4.6	5.5	9.5	9.9	6.2	5.5	2.7	1.5	.86
6	1.7	*1.6	4.0	4.2	5.2	8.2	9.5	5.5	4.4	2.6	1.5	.86
7	1.7	1.5	3.2	3.9	4.8	7.5	8.6	5.0	4.1	2.3	1.5	.86
8	1.7	1.5	3.0	3.7	4.6	7.3	7.8	4.8	3.7	2.3	1.5	.86
9	1.6	1.5	3.1	3.7	4.6	*6.8	7.0	4.6	3.5	2.2	4.0	1.1
10	1.6	1.5	1.8	3.7	4.6	6.5	6.8	4.4	3.3	2.0	1.3	1.1
11	1.6	1.5	8.6	4.1	5.2	6.2	6.5	4.2	3.0	2.0	1.7	.96
12	1.5	1.5	22	3.7	4.8	6.2	6.2	4.1	2.7	2.0	1.6	.86
13	1.5	1.5	16	3.3	4.4	8.5	6.8	6.2	2.7	2.0	1.6	.86
14	1.6	1.4	20	3.3	4.4	10	8.1	7.8	4.5	2.1	1.5	.86
15	2.0	1.4	9.1	21	4.4	7.0	7.3	5.5	3.3	*2.2	1.5	.78
16	1.7	1.5	*6.5	*28.6	5.5	6.5	84	4.8	3.0	1.9	1.4	.86
17	1.6	1.6	5.2	29	5.7	6.2	24	4.4	30	1.9	1.4	.96
18	1.6	1.6	4.4	16	4.6	6.0	14	13	7.5	1.9	1.4	.86
19	1.6	1.6	4.1	13	4.4	11	11	7.0	4.4	1.8	1.4	.78
20	1.6	1.9	3.9	11	23	9.1	*9.9	5.5	3.9	1.7	*1.4	.78
21	1.6	1.9	8.6	153	13	7.3	7.5	4.6	3.5	4.7	1.5	*1.2
22	1.6	4.7	9.5	*115	9.1	6.8	7.0	4.4	3.0	3.1	1.4	1.1
23	1.6	2.5	7.0	34	7.3	7.3	6.5	4.1	3.3	2.3	1.3	.96
24	1.6	2.2	5.5	20	15	12	6.5	3.9	3.2	2.0	1.3	.86
25	1.6	2.5	5.0	15	10	12	6.2	3.7	2.7	1.9	1.4	.86
26	1.6	2.0	4.6	13	8.5	22	5.7	3.5	2.6	1.8	1.3	.86
27	1.9	1.8	4.4	12	7.3	82	5.2	3.3	2.6	3.1	1.2	.86
28	1.8	1.7	6.0	*9.1	37	28	5.2	3.5	2.6	1.9	1.6	.86
29	1.8	1.7	13	8.2	-	18	8.0	4.6	2.3	1.8	1.4	.86
30	1.6	1.6	9.9	7.5	-----	14	5.7	3.5	2.3	1.7	1.2	1.3
31	1.6	-----	7.5	7.0	-----	74	-----	3.3	-----	1.7	1.2	-----
Total	53.4	53.7	303.2	830.2	227.4	467.9	380.9	178.5	166.6	70.4	47.9	27.84
Mean	1.72	1.79	9.78	26.8	8.12	15.1	12.7	5.76	5.55	2.27	1.55	0.928
Cfsm	0.307	0.319	1.74	4.78	1.45	2.69	2.26	1.03	0.989	0.405	0.276	0.165
In.	0.35	0.36	2.01	5.51	1.51	3.10	2.52	1.19	1.10	0.47	0.32	0.18

Calendar year 1953: Max 81 Min 0.9 Mean 6.48 Cfsm 1.16 In. 15.68
Water year 1953-54: Max 286 Min 0.78 Mean 7.69 Cfsm 1.37 In. 18.62

* Discharge measurement made on this day.

Coosawatee River at Pine Chapel, Ga.

Location.--Lat 34°35', long 84°52', on right bank at downstream edge of highway bridge at Pine Chapel, Gordon County, 4 miles downstream from Sallacoa Creek, 5 miles east of Resaca, and 6 miles upstream from confluence with Conasauga River.

Drainage area.--856 sq mi.

Records available.--November 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 616.16 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). Prior to Feb. 23, 1940, staff gage at same site and datum. Since Feb. 23, 1940, auxiliary water-stage recorder at highway bridge 2 miles upstream.

Average discharge.--16 years, 1,422 cfs.

Extremes.--Maximum discharge during year, 35,200 cfs Jan. 17; maximum gage height, 29.93 ft Jan. 17 (backwater from Conasauga River); minimum discharge, 232 cfs Sept. 30. 1938-54: Maximum discharge, 40,200 cfs Mar. 30, 1951 (gage height, 30.8 ft); minimum daily, 220 cfs Oct. 26, 1941.

Flood of Apr. 8, 1938, reached a stage of 30.0 ft, from gage reading.

Remarks.--Records good. Moderate diurnal fluctuation at low flow caused by mills above station.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

(Backwater from Conasauga River, Dec. 9-16, 30-31, Jan. 1, 15-31, Feb. 1, 21-28, Mar. 1-8, 14-17, 20-22, 25-31, Apr. 1-15, 17-22, 25-30, May 1, 5-9, 14-16, June 3-4, Aug. 9-10)

1.3	245	20.0	10,400
2.0	400	24.0	14,600
5.0	1,510	28.0	30,000
10.0	5,950		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*576	382	396	1,210	1,630	4,210	5,940	1,500	874	560	470	332
2	515	382	382	1,080	1,550	2,640	4,850	1,430	*1,270	754	515	318
3	470	368	382	1,000	1,510	2,220	2,900	2,180	1,620	1,110	440	309
4	440	368	530	964	1,470	2,080	2,370	3,610	2,350	824	410	301
5	425	368	805	874	1,390	1,760	2,110	2,200	1,270	640	382	290
6	410	368	592	822	1,310	1,620	1,960	1,710	1,040	754	368	281
7	396	354	771	771	1,270	1,500	1,840	1,540	964	624	410	273
8	396	351	688	737	1,230	1,430	1,940	1,500	892	560	440	282
9	382	354	2,400	720	1,190	*1,350	2,060	1,390	856	868	1,920	270
10	382	354	6,950	704	1,190	1,310	1,700	1,310	822	874	1,520	309
11	382	354	3,180	928	1,150	1,270	1,640	1,230	805	704	640	323
12	382	354	2,290	928	1,230	1,230	1,570	1,190	771	624	500	284
13	368	354	2,700	771	1,110	1,270	1,500	1,230	737	545	470	288
14	368	354	2,730	737	1,080	2,560	1,500	1,880	720	*515	455	258
15	368	354	2,380	2,740	1,080	1,920	1,500	1,770	788	592	440	255
16	396	354	*1,540	14,000	1,040	1,590	1,710	1,420	1,270	545	410	*252
17	382	351	1,190	*28,900	1,510	1,410	3,800	1,270	1,040	500	425	250
18	368	351	1,000	13,000	1,270	1,310	2,370	1,230	1,350	470	425	258
19	368	348	856	6,160	1,150	1,430	1,860	1,510	1,150	470	410	278
20	368	354	839	2,550	1,390	2,100	1,640	1,350	928	470	410	260
21	354	410	892	4,570	2,950	1,680	1,530	1,230	805	455	485	280
22	348	485	1,350	10,200	1,900	1,500	*1,470	1,110	737	688	470	309
23	348	892	1,550	14,200	1,530	1,430	1,390	1,060	720	720	425	301
24	348	856	1,270	11,100	1,720	1,710	1,770	1,000	805	592	455	273
25	343	545	1,080	6,820	1,710	1,970	1,590	1,000	720	530	*470	260
26	343	576	964	3,330	1,490	4,490	1,870	964	672	500	440	258
27	368	470	874	2,990	1,350	4,560	1,580	928	640	530	425	255
28	500	440	822	2,450	2,370	6,660	1,470	928	624	530	396	250
29	470	410	1,350	*2,040	-	4,480	1,860	964	592	515	396	245
30	455	396	1,700	1,900	-	2,720	1,960	1,000	576	455	382	238
31	396	1,460	1,740	-	-	2,530	-	892	-	425	354	-
Total	12,415	12,457	45,913	138,736	40,770	70,120	62,850	43,546	28,408	18,563	16,158	8,290
Mean	400	415	1,481	4,475	1,456	2,262	2,095	1,405	947	599	521	276
Cfsm	0.467	0.485	1.73	5.23	1.70	2.64	2.45	1.64	1.11	0.700	0.609	0.322
In.	0.54	0.54	1.99	6.03	1.77	3.04	2.73	1.89	1.24	0.81	0.70	0.36

Calendar year 1953: Max 9,060 Min 295 Mean 1,349 Cfsm 1.58 In. 21.37
Water year 1953-54: Max 26,900 Min 245 Mean 1,365 Cfsm 1.59 In. 21.64

Peak discharge (base, 6,000 cfs).--Dec. 10 (1 p.m.) 7,400 cfs (15.75 ft at 1 to 2 p.m.); Jan. 17 (2 a.m.) 35,200 cfs (29.93 ft at 4 a.m.); Jan. 23 (2 p.m.) 15,500 cfs (25.08 ft at 5 to 6 p.m.); Mar. 28 (2 p.m.) 7,100 cfs (16.43 ft at 4 to 5 p.m.); Apr. 1 (6 p.m.) 6,330 cfs (15.10 ft at 10 to 11 p.m.).

* Discharge measurement made on this day.

Mill Creek at Dalton, Ga.

Location.--Lat 34°48', long 84°59', on left bank at Dalton, Whitfield County, 1,000 ft upstream from city pumping plant and 1½ miles upstream from Southern Railway bridge.

Drainage area.--37 sq mi, approximately.

Records available.--August 1943 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 695.38 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--11 years, 71.7 cfs.

Extremes.--Maximum gage height during year, 7.80 ft Jan. 16 (discharge not determined); minimum daily discharge, 13 cfs Sept. 29.
1943-54: Maximum gage height, 8.39 ft Mar. 29, 1951 (discharge not determined); minimum daily discharge, that of Sept. 29, 1954.

Remarks.--Records good except those for July 2-12, which are fair, and those for Jan. 16-27, which are poor. Moderate diurnal fluctuation at medium flow caused by milldams above station.

Cooperation.--Gage-height record collected in cooperation with the city of Dalton.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Jan. 28 to Feb. 15,
Mar. 26 to May 3, Aug. 29 to Sept. 30)

1.5	12	6.4	540
2.0	28	6.6	790
2.5	52	6.8	1,210
3.0	82	7.0	1,810
5.0	240	7.3	3,200
6.0	390		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	19	17	29	44	194	245	38	50	19	18	14
2	16	18	17	28	41	120	138	36	32	19	17	15
3	17	18	18	27	38	110	106	74	71	21	16	14
4	17	17	28	25	36	86	89	58	43	23	16	14
5	17	17	22	*24	32	75	75	44	34	28	16	15
6	16	16	21	24	31	68	68	40	31	38	16	14
7	16	17	20	22	30	60	62	40	29	25	17	14
8	17	18	19	27	28	54	71	40	27	23	17	14
9	17	18	99	22	27	*50	64	36	26	20	139	14
10	16	17	51	29	27	47	52	33	26	18	19	14
11	16	17	28	44	28	44	48	32	26	19	16	14
12	16	16	105	34	27	42	45	31	26	22	15	15
13	16	17	53	29	25	244	42	42	25	*20	16	15
14	16	17	124	28	25	320	41	75	23	18	16	14
15	17	18	50	124	24	158	39	51	23	18	16	14
16	16	17	38	3,200	41	114	228	46	23	16	19	*14
17	17	17	31	1,000	44	92	208	40	27	17	16	14
18	17	17	28	200	32	79	117	54	24	18	18	15
19	16	17	26	150	30	92	89	48	24	18	32	15
20	16	17	26	110	34	86	*74	45	23	17	*20	14
21	16	18	34	500	37	68	63	40	23	17	20	16
22	16	40	34	800	32	60	56	38	23	20	19	16
23	16	24	29	400	30	60	51	36	22	22	17	15
24	17	20	26	160	68	70	51	33	21	21	*16	14
25	18	22	26	120	51	78	47	32	20	18	16	15
26	17	20	25	100	46	178	44	31	20	19	16	15
27	19	18	24	84	43	146	41	31	22	18	16	14
28	19	18	29	*74	218	134	40	31	20	18	17	14
29	18	18	46	65	103	46	50	19	17	17	17	13
30	17	17	36	56	-----	89	42	35	19	16	16	15
31	17	-----	30	50	-----	179	-----	*30	-----	17	15	-----
Total	519	560	1,160	7,580	1,169	3,300	2,382	1,290	802	620	660	433
Mean	16.7	18.7	37.4	245	41.8	106	79.4	41.6	26.7	20.0	21.3	14.4
Cfs/m	0.451	0.505	1.01	6.62	1.13	2.86	2.15	1.12	0.722	0.541	0.576	0.389
In.	0.52	0.56	1.16	7.63	1.18	3.30	2.40	1.29	0.91	0.62	0.66	0.43

Calendar year 1953: Max 980 Min 15 Mean 58.8 Cfs/m 1.59 In. 21.54
Water year 1953-54: Max 3,200 Min 13 Mean 56.1 Cfs/m 1.52 In. 20.56

* Discharge measurement made on this day.

Note.--No gage-height record Jan. 17-27, July 2-12; discharge estimated on basis of weather records and records for stations on nearby streams.

Conasauga River at Tilton, Ga.

Location.--Lat 34°40', long 84°56' on left bank 250 ft downstream from highway bridge, a quarter of a mile downstream from Swamp Creek, half a mile northeast of Tilton, Whitefield County, and 12 miles upstream from confluence with Coosawatee River.

Drainage area.--682 sq mi.

Records available.--June 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 622.28 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). Prior to Aug. 24, 1940, staff gage at site 150 ft upstream at same datum.

Average discharge.--17 years, 1,150 cfs.

Extremes.--Maximum discharge during year, 19,100 cfs Jan. 18 (gage height, 24.9 ft); minimum, 71 cfs Sept. 29.

1937-54: Maximum discharge, 29,000 cfs Mar. 30, 1951; maximum gage height, 30.2 ft Mar. 30, 1951 (backwater from Coosawatee River); minimum discharge, that of Sept. 29, 1954.

Remarks.--Records good except those for periods of backwater, which are fair.

Rating tables, water year 1953-54, except periods of backwater from Coosawatee River (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Jan. 24				Jan. 25 to Sept. 30			
2.4	108	12.0	4,200	2.3	68	3.5	360
3.0	250	16.0	6,360	2.5	102	4.0	550
4.0	590	20.0	9,770	3.0	210	5.0	1,010
8.0	2,340	25.0	19,300				

Note.--Same as preceding table above 5.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	169	172	160	550	940	4,250	4,300	1,030	*360	186	140	116
2	164	150	152	474	844	4,860	5,500	844	472	186	142	107
3	155	148	150	427	796	3,250	5,060	964	1,140	247	140	106
4	150	139	174	395	749	2,200	2,300	1,890	1,140	223	132	102
5	148	130	196	375	680	1,890	1,580	1,980	820	326	124	97
6	148	130	201	349	636	1,490	1,360	1,320	592	367	118	93
7	139	130	203	324	571	1,230	1,230	964	472	264	116	88
8	135	128	201	306	530	1,070	1,980	868	415	236	386	88
9	132	130	466	289	510	*940	2,610	820	374	203	1,380	86
10	132	130	1,800	286	491	844	1,760	680	350	188	3,020	86
11	132	130	2,020	570	472	772	1,190	592	336	198	1,710	84
12	128	130	1,050	1,030	510	703	1,050	550	323	226	465	84
13	128	128	1,710	758	510	987	964	592	294	200	218	82
14	128	128	1,630	531	438	4,100	868	940	264	*186	188	84
15	128	128	*1,940	1,200	411	5,550	820	1,070	320	164	179	82
16	174	130	1,140	7,580	411	4,700	1,230	868	360	158	164	*78
17	139	130	695	13,500	1,140	1,890	2,700	680	307	151	160	74
18	130	130	512	c18,000	1,670	1,360	3,630	680	592	144	149	76
19	128	130	399	c13,000	968	1,270	2,520	844	726	144	149	73
20	130	130	342	c6,300	749	1,540	1,360	772	550	144	158	73
21	130	130	368	c5,300	1,100	1,490	1,100	680	404	147	184	76
22	128	150	463	6,240	1,320	1,190	*940	571	323	147	210	81
23	126	229	570	13,000	1,030	1,050	844	510	288	158	172	79
24	124	300	590	c16,200	1,100	1,190	772	461	270	258	*162	79
25	122	250	493	c12,400	1,800	2,160	772	423	285	267	169	84
26	122	216	420	c6,550	1,410	3,480	868	396	247	203	160	78
27	126	211	375	3,340	1,050	4,650	1,100	378	239	200	144	74
28	128	198	346	*1,710	1,980	4,910	1,030	364	215	184	138	73
29	130	174	445	1,560	-	3,110	1,070	392	210	169	132	71
30	143	169	674	1,190	-----	1,940	1,190	491	198	164	124	76
31	172	-----	611	1,050	-----	1,940	-----	453	-----	147	120	-----
Total	4,268	4,708	20,496	153,184	24,816	72,006	53,698	24,067	12,886	6,185	10,953	2,550
Mean	138	157	661	4,296	886	2,323	1,790	776	430	200	353	84.3
Cfs/m	0.202	0.230	0.969	1.30	1.30	5.41	2.62	1.14	0.630	0.293	0.518	0.124
In.	0.23	0.26	1.12	7.26	1.35	3.93	2.92	1.31	0.70	0.34	0.60	0.14

Calendar year 1953: Max 9,770 Min 112 Mean 1,061 Cfs/m 1.56 In. 21.11
Water year 1953-54: Max 18,000 Min 71 Mean 1,013 Cfs/m 1.49 In. 20.16

Peak discharge (base, 5,000 cfs).--Jan. 18 (10 a.m.) 19,100 cfs (24.9 ft); Jan. 24 (6 a.m.) 17,200 cfs (24.1 ft); Mar. 15 (7 p.m.) 5,720 cfs (14.9 ft); Mar. 28 (4 a.m.) 5,220 cfs (14.0 ft); Apr. 2 (12 p.m.) 5,820 cfs (15.1 ft).

* Discharge measurement made on this day.

c Backwater from Coosawatee River.

MOBILE RIVER BASIN

Oostanaula River at Resaca, Ga.

Location.--Lat 34°34', long 84°57', near left bank on downstream side of pier of bridge on U. S. Highway 41 at Resaca, Gordon County, 200 ft downstream from Nashville, Chattanooga & St. Louis Railway bridge, three-quarters of a mile upstream from Camp Creek, and 3½ miles downstream from confluence of Conasauga and Coosawatee Rivers.

Drainage area.--1,610 sq mi, approximately.

Records available.--January 1896 to September 1954. Gage-height records collected at same site since 1891 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 604.14 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). Prior to Mar. 23, 1919, staff gage at site 200 ft upstream at same datum. Mar. 23, 1919, to Oct. 23, 1928, chain gage at site 400 ft downstream at same datum. Oct. 24, 1928, to Sept. 23, 1934, chain gage, and Sept. 24, 1934, to Sept. 11, 1938, wire-weight gage, at present site and datum. Since Oct. 29, 1948, auxiliary wire-weight gage read twice daily at bridge on State Highway 143, 6½ miles downstream.

Average discharge.--53 years (1896-98, 1903-54), 2,792 cfs.

Extremes.--Maximum discharge during year, 30,700 cfs Jan. 18 (gage height, 30.2 ft); minimum, 322 cfs Sept. 30 (gage height, 1.39 ft).

1896-1954: Maximum discharge, 54,800 cfs Mar. 31, 1951; maximum gage height, 34.6 ft Mar. 31, 1951; minimum discharge observed, 180 cfs Sept. 7, 8, 1925 (gage height, 0.5 ft).

Maximum stage known, 36.6 ft Apr. 1, 1886.

Remarks.--Records good except those for Nov. 22 to Dec. 15, and Jan. 23-29, which are fair.

Revisions (water years).--WSP 697: 1896-1928. WSP 852: 1921(M).

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Backwater from return of overbank flow Jan. 20-23,
26-28, Mar. 29-30, Apr. 3, 4)

1.4	325	11.0	6,300
2.0	505	25.0	21,100
3.0	910	30.0	30,100
5.0	1,940		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	690	540	540	1,700	2,640	7,920	8,800	2,510	1,280	775	610	460
2	650	505	540	1,540	2,510	8,100	10,700	2,250	*1,540	910	730	445
3	610	505	540	1,380	2,380	6,300	9,110	2,970	2,700	1,480	592	430
4	592	490	610	1,330	2,320	4,380	5,650	5,260	3,880	955	540	430
5	540	475	1,090	*1,230	2,180	3,740	3,810	4,380	2,250	955	505	415
6	540	475	1,090	1,180	2,060	3,180	3,320	3,180	1,700	1,140	490	400
7	540	475	910	1,070	1,940	2,770	3,040	2,510	1,480	1,000	490	385
8	522	475	1,000	1,020	1,820	2,510	3,670	2,320	1,380	820	690	379
9	505	460	1,760	1,000	1,760	*2,320	5,180	2,180	1,280	865	1,980	367
10	505	475	7,470	980	1,760	2,180	3,810	1,940	1,210	1,180	4,460	400
11	505	475	6,660	1,280	1,700	2,060	2,900	1,820	1,180	930	2,900	445
12	505	475	3,460	1,820	1,820	2,000	2,640	1,700	1,140	910	1,280	400
13	505	475	3,810	1,590	1,700	2,000	2,510	1,680	1,090	775	775	385
14	490	475	3,950	1,280	1,590	5,340	2,590	2,840	1,070	730	670	379
15	490	475	4,460	3,130	1,590	7,110	2,320	2,970	1,110	*730	630	373
16	540	475	2,900	14,400	1,540	6,840	2,510	2,380	1,590	730	592	*364
17	540	475	1,940	23,900	2,060	3,950	5,580	2,000	1,430	650	610	355
18	490	475	1,540	30,100	3,110	2,700	6,060	1,880	1,760	610	610	361
19	475	475	1,280	26,900	2,320	2,640	4,860	2,250	1,820	610	558	373
20	475	475	1,180	20,400	2,060	3,460	3,180	2,120	1,540	610	575	370
21	475	490	1,180	12,900	3,740	3,250	2,640	1,940	1,280	630	610	364
22	475	690	1,590	13,900	3,390	2,770	2,380	1,700	1,140	798	710	373
23	460	775	1,940	19,200	2,700	2,440	*2,180	1,590	1,040	955	610	400
24	460	650	1,820	24,500	2,770	2,700	2,380	1,480	1,110	798	*592	379
25	460	730	1,540	24,500	3,460	3,670	2,380	1,430	1,040	888	650	370
26	445	730	1,330	19,600	3,110	7,110	2,700	1,380	955	690	630	364
27	460	690	1,230	12,500	2,580	9,200	2,580	1,330	910	752	592	349
28	575	610	1,160	6,500	3,810	11,300	2,440	1,330	865	730	538	337
29	592	575	1,540	3,810		9,600	2,900	1,330	820	690	558	331
30	575	505	2,180	3,180		5,340	3,110	1,430	798	650	522	*331
31	540	-----	2,000	2,900	-----	4,300	-----	1,380	-----	592	490	-----
Total	16,226	16,070	64,240	280,700	66,420	143,180	117,720	67,660	42,388	25,538	26,809	11,514
Mean	523	536	2,072	9,055	2,372	4,619	3,924	2,183	1,413	824	865	384
Cfsm	0.325	0.333	1.29	5.62	1.47	2.87	2.44	1.36	0.878	0.512	0.537	0.258
In.	0.37	0.37	1.49	6.48	1.53	5.31	2.72	1.57	0.98	0.59	0.62	0.27

Calendar year 1953: Max 15,300 Min 445 Mean 2,412 Cfsm 1.50 In. 20.35
Water year 1953-54: Max 30,100 Min 331 Mean 2,407 Cfsm 1.50 In. 20.30

* Discharge measurement made on this day.

Note.--Discharge computed from once-daily wire-weight-gage readings Nov. 22 to Dec. 15, Jan. 23-29.

Oostanaula River near Rome, Ga.

Location.--Lat 34°18', long 85°08', on left bank $1\frac{1}{4}$ miles upstream from Dry Creek, $4\frac{1}{2}$ miles north of Rome, Floyd County, $4\frac{1}{2}$ miles upstream from confluence with Etowah River, and $6\frac{1}{2}$ miles downstream from Armuchee Creek.

Drainage area.--2,120 sq mi, approximately.

Records available.--October 1939 to September 1954 in reports of Geological Survey. Gage-height records collected at site $4\frac{1}{4}$ miles downstream since 1890 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 561.70 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. February 1937 to May 1939 staff gage, and Oct. 1, 1939, to Dec. 7, 1950, water-stage recorder, at site $3\frac{1}{4}$ miles downstream at same datum. February 1937 to May 1939 auxiliary staff gage and since Oct. 1, 1939, auxiliary water-stage recorder, at Fifth Avenue Bridge $4\frac{1}{4}$ miles downstream. Staff gage at site of auxiliary gage used as base gage for records published as Coosa River at Rome, Jan. 1, 1897, to Dec. 31, 1903.

Average discharge.--15 years (1939-54), 3,481 cfs.

Extremes.--Maximum discharge during year, 28,900 cfs Jan. 23 (gage height, 30.07 ft); maximum gage height, 30.30 ft Jan. 23 (backwater from Etowah River); minimum daily discharge, 428 cfs Sept. 13, 20.

1939-54: Maximum discharge, 47,000 cfs Jan. 23, 1947; maximum gage height, 35.13 ft Jan. 22, 1947; minimum daily discharge, that of Sept. 13, 20, 1954.
Flood of Apr. 1, 1886, reached a stage of 40.3 ft at site of present auxiliary gage.

Remarks.--Records good.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	830	628	662	2,510	3,650	8,680	10,300	3,860	1,590	1,000	750	631
2	716	620	683	2,140	3,350	10,100	12,500	3,280	1,770	1,030	*870	600
3	728	645	668	1,890	3,250	9,240	13,000	3,390	3,680	1,300	874	618
4	705	669	742	*1,720	2,960	6,900	10,600	5,000	7,200	1,580	768	573
5	660	632	848	1,680	2,840	5,400	6,400	5,290	4,520	1,100	734	560
6	671	626	1,050	1,580	2,680	4,810	4,700	4,850	2,880	1,130	712	450
7	662	621	921	1,460	2,720	3,890	4,180	3,580	2,250	1,310	696	521
8	629	545	1,050	1,380	2,350	3,440	4,020	3,070	1,940	1,100	728	559
9	616	535	2,810	1,370	2,300	3,110	6,030	2,840	1,780	964	970	558
10	604	634	6,510	1,340	2,260	2,900	5,790	*2,620	1,650	1,220	3,530	595
11	600	615	8,760	1,510	2,920	2,680	4,250	2,310	1,570	1,280	4,250	578
12	600	605	6,480	2,080	2,390	2,560	3,500	2,190	1,510	1,080	2,400	476
13	582	631	5,300	2,310	2,300	2,580	3,160	2,220	1,420	1,020	1,190	*428
14	628	616	5,700	1,950	2,090	4,900	2,940	3,730	1,360	895	820	542
15	610	534	5,770	2,560	*1,770	7,740	2,650	4,340	1,320	883	772	533
16	683	*540	4,760	17,200	2,030	8,640	3,130	3,710	1,560	931	728	547
17	655	613	3,080	24,300	2,110	7,000	5,930	2,990	2,050	866	768	481
18	600	629	2,250	25,000	3,050	4,160	7,520	2,750	2,380	845	822	551
19	560	656	1,790	24,800	3,140	3,620	6,900	2,970	2,430	845	907	498
20	613	666	1,540	26,000	2,670	4,070	5,330	2,960	2,180	723	756	428
21	613	669	1,520	27,000	3,320	4,430	3,640	2,620	*1,770	771	866	580
22	590	646	1,810	28,800	4,520	3,890	3,110	2,390	1,500	818	772	521
23	590	820	2,290	28,600	3,680	3,350	2,860	2,110	1,360	1,020	772	542
24	643	*1,140	2,430	26,700	3,350	3,470	2,920	1,930	1,290	1,110	769	556
25	535	1,090	2,200	24,500	3,890	4,080	3,280	1,860	1,310	1,050	772	542
26	520	937	1,850	24,200	4,130	8,420	3,050	1,720	1,220	1,020	774	517
27	605	870	1,760	24,100	3,400	12,400	3,110	1,670	1,180	978	750	432
28	598	803	1,500	21,800	4,520	14,600	3,120	1,710	1,080	943	723	501
29	721	728	1,820	10,800	-	*14,000	3,850	1,640	1,100	920	660	485
30	713	660	2,510	4,680	-	11,200	4,330	1,640	1,180	850	620	496
31	705	-	2,830	4,290	-	7,100	-	1,690	-	806	692	-
Total	19,785	20,622	83,874	370,250	83,840	193,560	156,300	89,930	60,210	31,388	32,215	15,910
Mean	638	687	2,706	11,940	2,994	6,244	5,210	2,901	2,007	1,013	1,039	530
Cfs/m	0.301	0.324	1.28	5.63	1.41	2.95	2.46	1.37	0.947	0.478	0.490	0.250
In.	0.35	0.36	1.48	6.49	1.47	3.40	2.74	1.58	1.06	0.55	0.56	0.28
Calendar year 1953: Max	18,400	Min	520	Mean	3,298	Cfs/m	1.56	In.	21.12			
Water year 1953-54: Max	28,800	Min	428	Mean	3,172	Cfs/m	1.50	In.	20.32			

* Discharge measurement made on this day.

Etowah River near Dawsonville, Ga.

Location.--Lat 34°23', long 84°04', on left bank half a mile upstream from Palmer Creek, 1 mile downstream from Russell Creek, 4 miles southeast of Dawsonville, Dawson County, and 7½ miles upstream from Shoal Creek.

Drainage area.--103 sq mi.

Records available.--March 1940 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 1,050 ft (by barometer).

Average discharge.--14 years, 250 cfs.

Extremes.--Maximum discharge during year, 4,150 cfs Jan. 16 (gage height, 14.6 ft); minimum daily, 52 cfs Sept. 29.

1940-54: Maximum discharge, 4,780 cfs Jan. 7, 1946 (gage height, 15.8 ft); minimum daily, that of Sept. 29, 1954.

Remarks.--Records good. Diurnal fluctuation during periods of low flow caused by mills above station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 9

Dec. 10 to Sept. 30

0.9 66

1.5 175

0.6 46

2.0 295

1.1 96

2.0 295

1.0 88

11.0 2,730

1.5 181

13.2 3,530

Note.--Same as following table above 2.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	103	73	73	198	285	354	529	234	199	108	88	88
2	96	70	73	185	278	264	373	232	252	112	83	66
3	93	*69	73	190	271	288	321	273	223	124	81	65
4	88	67	230	177	261	269	298	276	234	112	78	63
5	88	67	179	170	254	252	283	238	192	115	75	60
6	86	69	160	172	245	240	288	*225	177	126	73	58
7	85	69	225	157	238	234	285	221	170	108	82	*57
8	82	67	245	150	234	227	275	218	163	104	76	56
9	82	67	758	148	232	225	264	210	159	108	172	58
10	82	67	796	150	*229	221	254	207	155	133	105	63
11	80	67	295	172	229	216	254	203	152	112	84	62
12	80	67	477	155	223	214	249	199	148	107	82	57
13	79	67	373	144	214	232	245	229	146	101	81	55
14	79	67	490	144	214	334	252	266	144	98	81	56
15	90	66	321	372	214	249	243	236	*148	99	82	55
16	85	66	245	3,510	214	234	281	221	234	94	77	55
17	79	66	210	993	240	225	334	207	174	94	73	56
18	76	66	190	490	214	218	271	205	168	89	72	64
19	74	66	172	386	207	321	254	210	159	96	81	61
20	74	72	168	334	334	373	243	201	148	92	80	59
21	74	107	227	763	386	283	238	194	137	88	128	70
22	73	116	300	*1,660	271	259	236	190	135	133	101	67
23	73	195	318	919	247	*257	238	183	133	108	84	60
24	73	103	238	568	240	276	252	181	148	99	82	58
25	72	105	212	464	236	278	360	177	131	94	87	57
26	70	93	194	412	225	321	254	177	126	91	87	57
27	79	83	179	399	221	516	240	172	120	99	81	55
28	103	80	181	360	283	516	234	170	116	99	82	53
29	82	76	271	354	-	360	243	205	113	*92	87	52
30	76	76	*252	313	-----	318	243	181	112	95	78	54
31	73	-----	218	298	-----	386	-----	170	-----	88	73	-----
Total	2,527	2,389	8,243	14,885	6,939	8,940	8,334	6,509	4,816	3,218	2,676	1,777
Mean	81.5	79.6	266	480	228	288	278	210	161	104	86.3	59.2
Cfs/m	0.791	0.773	2.58	4.66	2.41	2.80	2.70	2.04	1.56	1.01	0.838	0.575
In.	0.91	0.86	2.97	5.37	2.51	3.23	3.01	2.35	1.74	1.16	0.97	0.64

Calendar year 1953: Max 1,540 Min 66 Mean 217 Cfs/m 2.11 In. 28.62

Water year 1953-54: Max 3,510 Min 52 Mean 195 Cfs/m 1.89 In. 25.72

Peak discharge (base, 1,800 cfs).--Dec. 9 (10 p.m.) 1,840 cfs (7.9 ft); Jan. 16 (5 p.m.) 4,150 cfs (14.6 ft); Jan. 22 (6 p.m.) 2,250 cfs (9.3 ft).

* Discharge measurement made on this day.

Etowah River at Canton, Ga.

Location.--Lat 34°14', long 84°30', on left bank 100 ft downstream from bridge on State Highways 5 spur and 140 at Canton, Cherokee County, three-quarters of a mile upstream from Canton Creek, and 1½ miles downstream from Hickory Log Creek.

Drainage area.--605 sq mi.

Records available.--March 1892 to December 1905 (prior to 1895, gage heights only), March 1937 to September 1954. Gage-height records collected at same site since 1891 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 844.55 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. March 1892 to December 1905 staff gage at site 100 ft upstream at datum 2.0 ft higher. Mar. 16, 1937, to Jan. 17, 1939, wire-weight gage at site 100 ft upstream at present datum.

Average discharge.--17 years (1937-54), 1,090 cfs.

Extremes.--Maximum discharge during year, 15,500 cfs Jan. 17 (gage height, 21.7 ft); minimum, 178 cfs Sept. 29, 30, 1896-1905, 1937-54. Maximum discharge, 29,800 cfs Jan. 7, 1946 (gage height, 26.7 ft), from rating curve extended above 18,000 cfs on basis of slope-area determination of peak flow; minimum, that of Sept. 29, 30, 1954. Maximum stage known since 1891, that of Jan. 7, 1946.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1-27)

1.0	172	15.0	7,720
2.0	462	20.0	12,400
5.0	1,700	21.2	14,500
10.0	4,420		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	499	404	411	1,130	1,340	1,610	3,340	1,210	774	482	352	295
2	465	398	408	1,050	1,300	1,340	2,450	1,130	990	482	382	286
3	428	388	408	*970	1,250	1,250	1,900	1,300	970	516	352	274
4	398	385	774	970	1,210	1,300	1,660	1,750	1,130	516	322	268
5	388	385	1,130	890	1,170	1,170	1,520	1,380	930	499	322	259
6	379	385	812	870	1,130	1,130	1,480	1,170	812	499	292	244
7	367	382	1,010	851	1,090	1,090	1,520	1,090	774	499	292	235
8	358	379	870	812	1,050	*1,050	1,520	1,050	755	499	322	232
9	352	376	1,420	774	1,050	1,010	2,000	1,010	717	482	698	232
10	352	376	3,940	774	1,010	1,010	1,340	1,010	698	930	1,610	259
11	349	376	1,900	774	1,010	970	1,300	970	698	624	1,090	256
12	337	376	1,520	831	1,090	970	1,300	970	831	*516	414	250
13	334	373	2,100	793	970	970	1,210	*1,010	755	482	382	229
14	334	370	2,150	736	950	1,520	1,210	1,340	698	448	382	223
15	352	370	2,000	870	930	1,250	1,250	1,250	717	441	352	*223
16	370	370	1,380	8,800	950	1,090	1,480	1,090	736	445	352	220
17	364	367	1,130	14,500	1,090	1,010	1,850	1,010	850	431	352	223
18	340	361	970	4,880	1,050	1,010	1,660	1,010	1,130	404	352	226
19	334	361	890	2,200	950	1,090	*1,300	1,130	793	395	448	229
20	334	373	850	1,800	1,340	1,850	1,210	1,010	717	385	482	217
21	331	445	870	2,790	2,550	1,480	1,170	970	660	379	414	211
22	328	534	1,340	6,110	1,560	1,250	1,130	930	624	588	352	223
23	325	850	1,560	7,020	1,250	1,210	1,170	890	624	588	*382	238
24	325	879	1,300	3,100	1,170	1,340	1,520	850	624	482	392	214
25	322	552	1,090	2,400	1,170	1,480	1,800	850	624	438	385	199
26	316	534	970	*2,050	1,090	1,610	1,660	831	570	411	382	193
27	364	482	910	1,900	1,050	1,950	1,300	812	552	398	358	190
28	499	448	850	1,800	1,090	3,700	1,210	812	534	414	354	187
29	499	424	1,130	1,610	-----	2,450	1,340	831	499	414	352	179
30	448	414	1,500	1,480	-----	1,850	1,300	870	482	382	355	178
31	414	-----	1,340	1,380	-----	1,800	-----	*793	-----	352	328	-----
Total	11,605	12,917	38,993	76,895	32,860	43,810	46,100	32,329	22,268	14,821	13,584	6,891
Mean	374	431	1,258	2,480	1,174	1,413	1,537	1,043	742	478	438	230
Cfsm	0.618	0.712	2.08	4.10	1.94	2.34	2.54	1.72	1.23	0.790	0.724	0.380
In.	0.71	0.79	2.40	4.73	2.02	2.70	2.83	1.98	1.37	0.91	0.85	0.42

Calendar year 1953: Max 7,720 Min 300 Mean 1,038 Cfsm 1.72 In. 23.28

Water year 1953-54: Max 14,500 Min 178 Mean 967 Cfsm 1.60 In. 21.69

Peak discharge (base, 6,500 cfs).--Jan. 17 (3 a.m.) 15,500 cfs (21.7 ft); Jan. 23 (2 a.m.) 8,210 cfs (15.7 ft).

* Discharge measurement made on this day.

Note.--Discharge computed from once-daily wire-weight-gage readings Mar. 30 to May 13, July 28 to Aug. 23.

Little River near Roswell, Ga.

Location.--Lat 34°07', long 84°23', at downstream end of old bridge pier 500 ft upstream from bridge on State Highway 140, 1 mile downstream from Cooper Sandy Creek, and 7 miles north of Roswell, Fulton County.

Drainage area.--60.5 sq mi.

Records available.--March 1947 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 897.8 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department). Prior to July 25, 1949, wire-weight gage at same site and datum.

Average discharge.--7 years, 83.2 cfs.

Extremes.--Maximum discharge during year, 2,030 cfs Jan. 16 (gage height, 10.6 ft); minimum daily, 3.1 cfs Sept. 29, 30.
1947-54: Maximum discharge, 3,200 cfs Nov. 28, 1948 (gage height, 14.0 ft, from graph based on gage readings); minimum daily, that of Sept. 29, 30, 1954.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Dec. 9)

Oct. 1 to Dec. 14				Dec. 15 to Sept. 30			
0.5	17	2.0	145	-0.3	3.1	2.0	157
1.0	49	3.0	270	-1.2	4.9	3.0	270
Note.--Same as following table above 3.0 ft.				-1.1	7.2	4.0	430
				0.0	10	6.0	830
				.5	36	8.9	1,550
				1.0	73		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
1	31	21	25	78	*62	*90	334	58	40	17	9.8	12		
2	29	21	25	71	61	71	125	53	48	17	*12	11		
3	27	20	30	72	60	69	95	101	69	17	*7.2	10		
4	24	20	162	66	59	63	81	97	61	15	7.0	9.5		
5	23	20	61	63	56	61	73	64	43	17	6.3	8.5		
6	22	22	55	60	54	59	71	56	37	16	6.3	7.5		
7	21	21	51	57	53	57	69	54	*35	16	7.9	6.7		
8	21	21	40	56	52	56	75	59	34	20	7.0	*6.5		
9	21	21	88	54	52	56	68	50	32	20	76	7.2		
10	21	21	99	54	51	54	63	47	31	25	51	7.5		
11	20	21	54	57	61	54	63	*46	29	19	17	6.5		
12	19	21	110	52	56	53	60	46	31	18	13	5.6		
13	18	21	88	50	51	55	62	102	30	15	*12	5.1		
14	19	21	240	51	51	74	67	100	44	14	11	5.4		
15	23	21	113	74	50	56	62	72	44	14	9.5	5.1		
16	23	21	86	1,540	59	52	99	63	41	13	8.5	5.6		
17	21	21	74	546	70	51	123	54	56	13	7.2	8.2		
18	21	21	66	125	55	51	79	56	85	13	82	8.5		
19	21	22	63	99	52	83	68	59	50	13	188	6.0		
20	20	25	59	86	194	87	61	56	33	11	51	4.9		
21	19	32	76	193	133	67	57	49	28	9.2	40	4.5		
22	19	48	95	377	82	59	56	46	26	12	30	5.1		
23	20	41	86	248	70	65	54	44	27	14	23	4.5		
24	19	29	71	117	68	77	56	42	29	11	50	4.0		
25	18	34	67	99	62	75	66	41	24	8.8	29	4.0		
26	19	28	62	88	58	134	67	40	22	8.5	16	3.8		
27	22	26	58	84	55	285	56	40	20	42	16	3.8		
28	*23	25	63	75	92	338	52	40	19	16	16	3.6		
29	23	25	136	71	-	142	86	44	17	13	18	3.1		
30	21	*26	*117	66	-----	109	63	39	*17	12	15	3.1		
31	21	-----	91	64	-----	*147	-----	37	-----	13	*13	-----		
Total	669	738	2,513	4,795	1,879	2,750	2,412	1,755	1,102	482.5	857.7	186.8		
Mean	21.6	24.6	81.1	155	67.1	88.7	80.4	56.6	36.7	15.6	27.7	6.23		
Cfsm	0.357	0.407	1.34	2.56	1.11	1.47	1.33	0.936	0.607	0.258	0.458	0.103		
In.	0.41	0.45	1.54	2.95	1.16	1.70	1.48	1.08	0.68	0.30	0.53	0.11		
Calendar year 1953: Max	830			Min	10			Mean	67.8			Cfsm	1.12	
Water year 1953-54: Max	1,540			Min	3.1			Mean	55.2			Cfsm	0.912	

Peak discharge (base, 900 cfs).--Jan. 16 (4 p.m.) 2,030 cfs (10.6 ft).

* Discharge measurement made on this day.

Etowah River at Allatoona Dam above Cartersville, Ga.

Location.--Lat 34°10', long 84°44', on right bank three quarters of a mile downstream from Allatoona Dam, 2 miles upstream from Nashville, Chattanooga & St. Louis Railway bridge, and 3 miles east of Cartersville, Bartow County.

Drainage area.--1,110 sq mi, approximately.

Records available.--September 1938 to September 1954. Prior to October 1950, published as "above Cartersville."

Gage.--Water-stage recorder. Datum of gage is 686.92 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). Prior to Dec. 19, 1938, staff gage at same site and datum.

Average discharge.--16 years, 1,741 cfs (adjusted for storage since 1950).

Extremes.--Maximum discharge during year, 8,420 cfs Jan. 29 (gage height, 7.27 ft); minimum daily, 222 cfs Jan. 24.
1938-54: Maximum discharge, 40,400 cfs Jan. 8, 1946 (gage height, 20.8 ft), from rating curve extended above 26,000 cfs; minimum daily, 208 cfs May 3, 1953.

Remarks.--Records good. Flow regulated by Allatoona Reservoir since December 1949 (see p. 241).

Cooperation.--Gage-height record, 21 discharge measurements, and computations of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

Revisions (water years).--WSP 1032: 1944.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.1	171	2.0	1,940
1.2	268	3.0	3,510
1.3	390	5.2	6,000
1.5	760		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	273	268	1,650	1,030	5,680	240	478	1,330	2,400	1,980	251	957
2	262	1,940	1,620	574	4,540	241	3,590	279	1,390	858	784	1,160
3	257	1,900	1,790	240	4,350	324	1,880	2,990	607	279	896	1,130
4	248	1,960	1,390	1,960	5,160	506	268	3,280	312	268	910	585
5	1,180	2,580	279	2,320	5,220	230	4,920	2,540	301	279	847	268
6	1,280	1,890	268	2,440	4,950	235	4,980	2,060	296	1,170	945	1,060
7	1,150	*268	1,340	3,020	224	224	4,310	2,710	1,010	898	566	1,590
8	1,300	*258	1,130	2,910	5,060	1,070	1,990	927	1,610	864	257	1,520
9	1,530	*2,150	1,790	2,540	5,170	1,490	2,680	279	892	2,050	918	1,370
10	249	1,840	1,360	240	5,120	2,320	1,320	2,580	983	268	945	1,210
11	235	1,820	1,420	2,860	5,250	*2,210	268	2,060	504	268	574	268
12	1,610	1,950	279	2,990	5,260	2,390	2,930	1,760	385	1,060	337	268
13	1,690	2,080	263	3,080	4,830	*235	3,040	2,490	279	546	290	1,460
14	2,090	268	1,500	2,840	224	235	3,090	2,200	2,030	1,080	290	1,750
15	2,230	268	1,460	2,480	5,220	1,910	*2,860	*282	2,210	801	257	1,700
16	1,260	1,790	1,850	310	5,340	655	1,730	279	2,060	*684	1,080	1,530
17	240	1,760	*1,600	235	5,480	329	383	*2,960	1,570	268	1,530	1,550
18	240	1,810	1,570	526	5,390	1,680	290	2,450	*2,620	257	*1,300	1,010
19	1,850	2,120	*1,050	257	5,070	239	2,970	2,200	*301	932	806	224
20	1,700	1,960	279	246	235	237	2,930	2,030	273	1,050	1,150	2,000
21	1,800	246	3,230	290	224	235	2,490	1,480	2,210	608	301	1,220
22	1,840	246	3,740	290	489	2,540	2,810	224	1,860	929	279	1,280
23	2,220	1,350	3,460	246	1,690	2,500	1,640	285	1,590	845	816	1,340
24	257	1,850	3,480	222	1,850	2,720	280	2,070	1,310	257	574	*1,300
25	285	1,620	2,600	1,890	1,480	2,740	301	2,820	1,340	246	782	901
26	1,780	257	2,760	3,200	1,090	2,600	3,210	2,330	290	574	1,030	*266
27	1,850	1,430	240	3,120	235	268	2,780	3,200	239	386	1,210	1,450
28	1,940	268	2,780	*4,760	232	257	1,660	1,970	2,700	393	359	1,520
29	1,920	263	2,800	*5,970	-----	453	3,400	2,900	2,800	674	290	1,480
30	1,940	1,640	2,720	5,480	-----	268	2,130	290	2,450	562	1,120	1,530
31	268	-----	3,010	235	-----	434	-----	2,280	-----	246	750	-----
Total	36,974	40,050	54,688	58,821	95,043	32,015	67,618	54,925	38,822	21,540	23,048	34,897
Mean	1,193	1,335	1,764	1,897	3,394	1,033	2,254	1,772	1,294	695	743	1,163
(t)	-655	-694	+182	+2,090	-1,574	+1,171	+44	-133	-239	-68	-216	-882

Adjusted for change in contents in Allatoona Reservoir

Mean	538	641	1,946	3,987	1,820	2,204	2,296	1,639	1,055	627	527	281
Cfsm	0.485	0.577	1.75	3.59	1.64	1.99	2.07	1.48	0.950	0.565	0.475	0.253
In.	0.56	0.64	2.02	4.14	1.71	2.29	2.31	1.71	1.06	0.65	0.55	0.28
Observed												
Adjusted												
Calendar year 1953:	Max	5,360	Min	208	Mean	1,564	Mean	1,628	Cfsm	1.46	In.	19.89
Water year 1953-54:	Max	5,970	Min	222	Mean	1,530	Mean	1,465	Cfsm	1.32	In.	17.92

* Discharge measurement made on this day.

† Change in contents, equivalent in cubic feet per second, in Allatoona Reservoir; furnished by Corps of Engineers.

Etowah River near Kingston, Ga.

Location.--Lat 34°12', long 84°59', on downstream side of center pier of highway bridge, half a mile upstream from Two Run Creek, 1½ miles upstream from Connesena Creek, and 2½ miles southwest of Kingston, Bartow County.

Drainage area.--1,630 sq mi, approximately.

Records available.--July 1928 to December 1931, November 1936 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 609.97 ft above mean sea level (Dixie Construction Co. benchmark).

Average discharge.--20 years (1928-31, 1937-54), 2,358 cfs (unadjusted).

Extremes.--Maximum discharge during year, 13,600 cfs Jan. 16 (gage height, 12.68 ft); minimum daily, 380 cfs Sept. 12.

1928-31, 1936-54: Maximum discharge, 42,700 cfs Apr. 9, 1938 (gage height, 27.7 ft); minimum, 201 cfs Oct. 19, 1931 (gage height, 2.76 ft).

Maximum stage known, about 31 ft Dec. 11, 1919, from information by local resident (discharge, 52,000 cfs).

Remarks.--Flow regulated by Allatoona Reservoir (see p. 241) and powerplant.

Cooperation.--Gage-height record, 19 discharge measurements and computations of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Jan. 28 to May 4)

3.0	328	6.0	2,800
4.0	1,040	9.0	7,050
5.0	1,780	11.4	11,000

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	610	482	1,860	2,190	3,840	1,620	2,640	1,870	2,840	2,700	453	1,030
2	497	1,460	1,950	1,280	5,960	1,230	2,940	1,060	2,100	1,270	953	1,220
3	482	2,100	1,910	859	4,120	1,130	3,710	2,630	1,030	648	1,080	1,220
4	480	2,070	1,480	1,690	5,460	1,120	1,960	4,760	1,070	489	1,160	911
5	1,080	2,340	1,110	2,390	5,420	1,010	3,520	3,490	741	483	1,180	437
6	1,270	*2,730	622	2,450	5,580	844	5,310	2,800	652	1,180	1,130	799
7	1,440	908	1,370	2,960	2,420	800	5,310	2,790	1,190	1,130	824	1,620
8	1,140	*443	1,630	3,150	3,440	1,400	3,470	2,430	1,740	993	557	1,780
9	1,910	2,050	2,210	2,700	5,480	1,980	2,750	870	1,310	1,490	1,020	1,600
10	880	1,960	2,720	1,500	5,460	2,250	1,910	1,960	1,230	1,350	1,100	1,300
11	426	1,870	1,920	2,020	5,620	*2,700	1,340	2,790	872	468	841	692
12	1,330	2,030	1,140	2,940	5,570	*2,480	2,400	2,410	674	1,070	578	380
13	1,870	2,110	858	3,040	5,440	1,560	3,180	2,200	611	885	490	1,250
14	1,890	723	2,040	2,980	2,280	755	*3,210	2,750	1,850	1,110	453	1,450
15	2,320	476	2,200	2,750	3,600	1,740	*3,580	1,830	2,520	1,420	440	1,970
16	1,850	1,660	2,110	10,900	5,470	1,700	3,120	*910	2,380	*1,140	996	1,510
17	608	2,000	2,120	8,390	5,650	745	1,580	*2,490	*2,040	842	*1,680	1,750
18	433	2,050	*1,700	3,100	5,810	1,820	1,090	3,010	*2,320	*520	1,580	1,140
19	1,360	2,250	1,700	1,570	5,680	1,040	2,680	2,750	1,770	1,050	*1,130	792
20	1,880	2,200	*664	1,310	2,460	859	3,410	2,380	615	1,390	1,350	1,160
21	1,850	1,490	2,210	2,270	1,140	829	3,120	2,040	1,440	927	840	1,910
22	1,830	555	3,910	5,400	992	2,010	2,730	1,020	2,250	1,060	490	1,200
23	2,340	1,860	4,250	4,620	1,890	2,700	2,630	704	2,020	1,200	852	1,410
24	1,280	1,830	3,850	2,000	2,140	2,790	1,280	2,080	1,610	750	852	1,470
25	489	2,090	3,030	1,960	2,450	3,220	1,030	2,410	1,620	534	879	1,090
26	1,160	730	2,840	4,380	1,890	3,100	2,650	2,940	847	790	1,090	*767
27	2,200	1,390	1,540	*4,030	1,210	1,960	3,450	3,020	515	1,280	1,250	945
28	2,000	835	2,060	4,530	1,050	2,490	2,680	2,470	1,980	753	719	1,770
29	2,160	476	3,200	*6,370	-	1,720	2,940	1,050	3,130	919	453	1,530
30	1,990	1,570	3,490	6,390	-----	1,210	2,650	1,630	2,150	908	1,460	1,600
31	1,350	-	3,360	2,780	-----	1,280	-----	1,750	-----	559	1,190	-----
Total	42,385	46,778	67,064	105,499	107,722	52,075	64,250	68,294	47,117	31,108	29,070	37,903
Mean	1,367	1,559	2,163	3,403	3,847	1,680	2,808	2,203	1,571	1,003	938	1,263
(†)	-655	-694	+182	+2,090	-1,574	+1,171	+44	-133	-239	-68	-216	-882

Adjusted for change in contents in Allatoona Reservoir

Mean	712	865	2,345	5,493	2,273	2,851	2,852	2,070	1,332	935	722	361
Cfsm	0.437	0.531	1.44	3.37	1.39	1.75	1.75	1.27	0.817	0.574	0.443	0.234
In.	0.50	0.59	1.66	3.88	1.45	2.02	1.95	1.46	0.91	0.66	0.51	0.26

	Observed						Adjusted					
Calendar year 1953:	Max	9,400	Min	396	Mean	2,169	Max	2,231	Cfsm	1.37	In.	18.58
Water year 1953-54:	Max	10,900	Min	380	Mean	1,971	Max	1,906	Cfsm	1.17	In.	15.85

* Discharge measurements made on this day.

† Change in contents, equivalent in cubic feet per second, in Allatoona Reservoir; furnished by Corps of Engineers.

Note.--No gage-height record Nov. 8 to Dec. 16, Dec. 19, 20; discharge estimated on basis of records for station near Euharlee.

Etowah River at Rome, Ga.

Location.--Lat 34°15', long 85°09', on downstream side of center pier of Southern Railway Bridge in Rome, Floyd County, 2 miles upstream from confluence with Oostanaula River.

Drainage area.--1,810 sq mi, approximately.

Records available.--July to December 1903, August 1904 to June 1921 (published as "near Rome"), May 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 561.70 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. July 1 to Dec. 31, 1903, staff gage at Second Avenue Bridge 1 mile downstream at different datum. Aug. 17, 1904, to June 30, 1921, staff gage at Freemans Ferry 5 miles upstream at different datum. Since May 15, 1939, auxiliary water-stage recorder at Second Avenue bridge 1 mile downstream.

Average discharge.--15 years (1939-54), 2,573 cfs (unadjusted).

Extremes.--Maximum discharge during year, 15,000 cfs Jan. 16; maximum gage height, 26.52 ft Jan. 22; minimum daily discharge, 484 cfs Sept. 12.

1904-21, 1939-54. Maximum discharge, 55,000 cfs Dec. 11, 1919 (gage height, over 28 ft, at former site at Freemans Ferry), computed from data at upstream stations; minimum daily, 360 cfs Oct. 10, 24, 1904.

Maximum stage known, that of Dec. 11, 1919. Flood of Apr. 9, 1938, reached a stage of 37.5 ft (discharge, 46,500 cfs), from gage reading and discharge measurement by Corps of Engineers.

Remarks.--Records good except those for period of no gage-height record, and those for indefinite stage-discharge-fall relation, which are fair. Flow regulated by Allatoona Reservoir since 1949 (see p. 241).

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	935	585	1,970	3,150	2,300	2,250	3,380	2,590	2,870	2,860	548	954
2	592	658	1,930	1,620	6,480	1,700	2,610	1,750	2,870	2,120	*525	1,130
3	570	2,300	1,990	1,190	4,590	1,410	5,040	1,640	2,120	1,160	1,060	1,380
4	548	2,300	2,120	*1,190	5,590	996	2,830	4,920	1,490	603	1,090	1,310
5	717	2,290	1,760	2,520	5,940	925	2,350	4,120	741	604	1,090	790
6	1,320	3,010	763	2,920	5,900	1,060	5,730	3,220	755	604	1,100	546
7	1,640	1,860	691	2,130	4,230	1,070	5,640	2,790	959	1,430	1,200	1,320
8	1,320	554	1,660	3,500	2,140	1,060	5,070	3,130	1,430	1,140	773	1,880
9	1,820	651	2,030	3,140	6,010	1,930	2,930	1,420	1,920	1,080	526	1,750
10	1,710	2,560	3,510	2,720	5,920	2,290	3,130	*1,240	1,310	2,310	1,340	1,600
11	532	1,920	2,160	1,010	5,920	2,840	1,970	3,420	1,280	598	1,190	1,420
12	772	2,310	1,930	3,290	5,890	2,810	1,630	2,520	883	598	775	484
13	1,840	2,240	1,430	5,350	5,820	2,560	2,790	2,390	756	1,370	578	*509
14	1,910	2,120	1,300	3,440	4,610	782	3,750	3,230	848	842	525	1,610
15	2,640	577	2,490	3,180	*5,810	1,010	3,690	2,910	2,610	1,690	517	1,840
16	2,290	*591	2,190	12,200	5,840	2,440	2,060	1,080	2,490	1,340	531	1,830
17	1,500	2,120	1,890	11,000	6,090	1,130	3,040	1,550	2,610	1,040	1,500	1,760
18	570	2,150	1,840	4,790	6,060	1,290	1,640	3,320	2,600	606	1,760	1,800
19	603	2,260	2,140	e4,500	5,940	2,230	2,000	3,010	2,900	565	1,480	1,230
20	2,200	2,460	al,600	e3,500	4,760	968	3,810	2,700	825	1,280	1,180	502
21	2,120	2,130	al,100	3,430	1,320	986	3,480	2,530	*731	1,290	1,520	2,240
22	2,180	671	3,840	8,000	1,160	1,400	3,040	1,740	2,530	890	606	1,410
23	2,240	692	4,400	6,430	1,330	3,120	3,160	843	2,190	1,260	525	1,480
24	2,420	1,720	4,070	e5,800	2,520	3,120	2,130	1,260	1,990	1,170	932	1,480
25	547	2,120	3,480	e3,500	2,540	3,570	1,200	2,630	1,740	605	820	1,510
26	568	1,820	2,860	e3,500	2,310	3,760	1,590	3,360	1,750	549	977	1,120
27	2,340	637	2,880	e5,000	1,840	3,680	4,010	2,750	659	1,420	1,210	496
28	2,190	1,780	1,210	e5,800	1,230	3,450	3,220	3,360	839	842	1,360	1,590
29	2,220	584	3,490	6,300	-----	*2,300	2,530	2,170	3,140	700	587	1,670
30	2,290	616	3,750	6,600	-----	1,840	3,560	767	2,800	918	1,380	1,760
31	2,280	-----	3,150	4,990	-----	1,610	982	-----	-----	858	1,610	-----
Total	47,424	48,286	71,684	133,670	120,090	61,587	92,990	75,342	52,634	34,232	30,815	40,401
Mean	1,530	1,610	2,312	4,312	4,289	1,987	3,100	2,430	1,754	1,104	994	1,547
(t)	-655	-694	+182	+2,090	-1,574	+1,171	+44	-133	-239	-68	-216	-682

Adjusted for change in contents in Allatoona Reservoir

Mean Cfsm In.	875 0.483 0.56	916 0.506 0.56	2,494 1.38 1.59	6,402 3.54 4.08	2,715 1.50 1.56	3,158 1.74 2.01	3,144 1.74 1.94	2,297 1.27 1.46	1,515 0.837 0.93	1,036 0.572 0.66	778 0.430 0.50	465 0.257 0.29
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	Observed				Adjusted			
Calendar year 1954:	Max	9,060	Min	465	Mean	2,350	Mean	2,412
Water year 1953-54:	Max	12,200	Min	484	Mean	2,217	Mean	2,152
							Cfsm	1.33
							In.	18.08
							Cfsm	1.19
							In.	16.14

* Discharge measurement made on this day.

† Change in contents, equivalent in cubic feet per second, in Allatoona Reservoir; furnished by Corps of Engineers.

a No gage-height record; discharge estimated on basis of records for station near Kingston and Coosa River near Rome.

e Stage-discharge relation indefinite; discharge estimated as for footnote "a".

MOBILE RIVER BASIN

Coosa River near Rome, Ga.

Location.--Lat 34°12', long 85°16', on left bank attached to downstream face of abutment of Mayo Bar lock and dam, 1½ miles upstream from Webb Creek, 6 miles southwest of Rome, Floyd County, 7½ miles downstream from confluence of Oostanaula and Etowah Rivers, and at mile 279.

Drainage area.--4,040 sq mi, approximately.

Records available.--January 1897 to December 1903 (published as "at Rome"), June 1928 to December 1931, March 1937 to September 1954. Gage-height records collected at same site since 1922 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 553.05 ft above mean sea level (levels by Corps of Engineers). Jan. 1, 1897, to Dec. 31, 1903, staff gage at site 7½ miles upstream at datum 22.74 ft higher.

Average discharge.--20 years (1928-31, 1937-54), 6,237 cfs (unadjusted).

Extremes.--Maximum discharge during year, 37,200 cfs Jan. 23 (gage height, 29.5 ft); minimum daily, 1,040 cfs Sept. 13, 27.

1897-1903, 1928-31, 1937-54: Maximum discharge, 65,000 cfs Jan. 22, 1947 (gage height, 37.0 ft); minimum, 870 cfs Oct. 18-22, 1931 (gage height, -0.55 ft).
Maximum stage known, 40.3 ft Apr. 1, 1886 (site and datum at Rome).

Remarks.--Records good. Flow regulated by Allatoona Reservoir since December 1949 (see p. 241).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Rate of change in stage used as a factor Jan. 16, 29, 30)

-0.3	1,010	10.0	11,100
0.0	1,220	29.2	36,500
1.0	1,980		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,980	1,410	2,570	6,150	5,650	10,500	13,100	6,650	4,350	3,650	1,410	1,670
2	1,600	1,300	2,570	4,150	9,680	12,200	15,400	5,250	4,750	3,290	1,480	1,740
3	1,520	2,840	2,570	5,390	8,580	11,300	17,500	4,750	5,950	2,480	2,060	1,940
4	1,440	2,840	2,930	2,930	8,150	8,910	14,100	9,350	8,800	2,500	*1,980	1,900
5	1,440	2,750	2,660	*4,350	8,580	7,050	8,800	10,400	6,150	1,860	1,900	1,440
6	2,140	3,380	1,980	4,550	8,360	6,050	10,400	8,150	3,950	1,820	1,820	1,080
7	2,300	2,750	1,780	4,550	7,650	5,250	9,900	6,450	3,200	2,750	1,860	1,740
8	2,140	1,300	2,750	4,950	3,950	4,750	8,800	6,350	3,470	2,390	1,520	2,220
9	2,390	1,180	5,650	4,550	7,750	5,150	8,150	4,450	3,850	2,220	1,520	2,220
10	2,480	2,930	9,900	4,250	7,850	5,350	9,020	3,650	3,020	3,470	4,350	2,140
11	1,370	2,660	11,000	2,570	7,850	5,850	6,450	*5,450	3,110	2,060	5,650	1,980
12	1,300	2,570	9,460	5,250	7,850	5,650	4,750	4,850	2,480	1,780	3,580	1,150
13	2,480	2,750	6,750	5,750	7,850	5,650	6,550	4,650	2,300	2,480	1,980	1,040
14	2,570	2,750	7,350	5,450	7,250	5,750	6,550	6,950	2,140	1,900	1,520	*2,060
15	3,020	1,300	8,250	5,650	3,330	8,580	6,550	7,250	3,750	2,390	1,440	2,300
16	3,020	1,180	7,350	28,800	*7,650	11,100	6,550	5,150	4,150	2,390	1,370	2,390
17	2,300	2,570	5,850	33,000	7,950	8,910	8,580	4,350	5,150	2,060	2,060	2,140
18	1,370	2,660	4,650	32,000	8,910	5,750	9,020	6,150	5,650	1,560	2,660	2,220
19	1,220	2,750	4,050	29,800	9,350	5,950	8,360	6,050	5,550	1,520	2,480	1,820
20	2,660	3,020	3,200	29,500	8,150	5,250	8,690	5,750	3,200	2,140	1,980	1,080
21	2,570	2,840	2,660	31,100	4,750	5,650	7,250	5,350	2,300	2,220	2,480	2,480
22	2,570	1,440	5,650	35,000	5,950	5,150	6,150	4,450	*4,050	1,820	1,560	1,940
23	2,660	1,600	6,750	36,500	5,350	6,550	6,050	3,200	3,560	2,300	1,520	1,980
24	3,020	2,840	6,650	33,500	6,050	6,550	5,250	3,020	3,290	2,390	1,940	2,060
25	1,300	3,200	6,250	30,600	6,750	7,450	4,450	4,450	3,020	1,780	1,670	1,980
26	1,180	2,840	5,150	29,400	6,650	11,500	4,250	5,050	3,020	1,710	1,820	1,630
27	2,570	1,630	4,950	29,200	5,650	15,900	4,950	4,450	1,940	2,480	1,980	1,040
28	3,110	2,480	2,660	27,800	5,850	19,300	6,450	5,150	1,820	1,980	2,140	1,940
29	2,840	1,480	5,450	18,700	-	17,800	6,150	4,150	3,950	1,740	1,440	2,140
30	2,930	1,350	6,350	11,500	-----	*14,700	7,850	2,660	4,050	1,900	1,350	2,140
31	2,930	-----	6,750	10,100	-----	9,350	-----	2,660	-----	1,820	2,480	-----
Total	68,420	68,570	162,540	514,980	199,390	264,650	246,020	166,640	115,970	68,650	64,960	55,640
Mean	2,207	2,286	5,243	16,610	7,121	8,537	8,201	5,375	3,866	2,215	2,095	1,855
(†)	-655	-694	+182	+2,090	-1,574	+1,171	+44	-133	-239	-68	-216	-882

Adjusted for change in contents in Allatoona Reservoir

Mean Cfsam In.	1,552 0.384 0.44	1,592 0.394 0.44	5,425 1.34 1.54	18,700 4.63 5.34	5,547 1.37 1.43	9,708 2.40 2.77	8,245 2.04 2.28	5,242 1.30 1.50	3,627 0.898 1.00	2,147 0.551 0.61	1,879 0.465 0.54	973 0.241 0.27
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	Observed				Adjusted			
Calendar year 1953	Max	24,600	Min	1,180	Mean	5,681	Mean	5,943
Water year 1953-54	Max	36,500	Min	1,040	Mean	5,470	Mean	5,405
							Cfsam	1.47
							In.	19.96
							Cfsam	1.34
							In.	18.16

* Discharge measurement made on this day.

† Change in contents, equivalent in cubic feet per second, in Allatoona Reservoir; furnished by Corps of Engineers.

Cedar Creek near Cedartown, Ga.

Location.--Lat 34°04', long 85°19', on left bank 700 ft downstream from bridge on State Highway 161, 4½ miles upstream from Lake Creek, and 4½ miles northwest of Cedartown, Polk County.

Drainage area.--109 sq mi.

Records available.--October 1942 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 720 ft (by barometer).

Average discharge.--12 years, 162 cfs.

Extremes.--Maximum discharge during year, 7,410 cfs Jan. 16 (gage height, 13.1 ft), from rating curve extended above 4,500 cfs on basis of slope-conveyance studies; minimum daily, 28 cfs Sept. 7.

1942-54: Maximum discharge, 12,500 cfs Nov. 28, 1948 (gage height, 16.4 ft), from rating curve extended above 4,500 cfs on basis of slope-conveyance studies; minimum daily, that of Sept. 7, 1954.

Remarks.--Records fair. Diurnal fluctuation and moderate regulation at low flow caused by powerplants above station.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Dec. 9,
July 2 to Sept. 30)

0.6	29	3.0	536
1.8	46	5.0	1,250
1.0	68	7.0	2,200
1.3	120	9.0	3,480
2.0	290	10.5	4,680

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56	55	61	193	164	280	320	103	76	53	44	30
2	56	54	58	169	156	219	236	92	133	55	46	30
3	56	56	62	156	149	195	195	585	90	55	46	31
4	54	54	221	138	138	164	167	390	79	55	*42	31
5	54	54	116	*130	128	143	143	229	68	55	42	31
6	*53	54	99	118	120	133	133	169	63	54	37	31
7	51	54	110	107	114	123	123	141	62	53	39	28
8	50	52	94	101	107	116	114	136	58	53	43	31
9	49	54	902	96	103	110	110	114	57	61	44	38
10	51	54	577	94	99	105	99	101	57	58	43	34
11	50	53	280	99	99	101	96	*92	57	55	42	34
12	49	53	384	92	96	97	92	89	53	55	42	32
13	49	52	320	85	89	96	89	107	57	48	43	35
14	50	51	396	81	87	125	87	193	57	56	37	*34
15	56	51	300	92	85	96	82	180	56	211	38	36
16	53	51	231	4,610	*89	87	154	120	120	71	40	36
17	53	50	182	1,260	125	82	180	103	87	56	37	36
18	52	50	151	536	94	81	114	94	128	54	41	36
19	53	50	130	384	87	94	96	92	71	53	172	36
20	52	55	123	310	146	103	85	85	63	53	226	38
21	52	62	167	648	169	87	81	81	61	50	146	38
22	54	82	259	2,080	123	81	81	76	*58	51	48	40
23	55	101	290	928	105	79	78	74	56	63	42	37
24	54	72	214	506	268	79	87	72	54	71	39	34
25	55	75	177	372	221	79	107	71	54	52	38	32
26	56	68	156	310	175	116	99	69	54	47	35	34
27	60	63	136	290	146	255	94	67	53	47	33	35
28	57	63	136	261	288	320	84	66	55	46	30	35
29	57	61	270	221	234	120	66	53	46	46	31	35
30	57	60	290	206	-----	*206	138	66	52	46	31	35
31	56	-----	238	185	-----	190	-----	63	-----	47	31	-----
Total	1,860	1,764	7,130	14,858	3,770	4,276	3,684	3,986	2,040	1,830	1,648	1,023
Mean	53.5	58.8	230	479	135	138	123	129	68.0	59.0	53.2	34.1
Cfsm	0.491	0.539	2.11	4.39	1.24	1.27	1.13	1.18	0.624	0.541	0.488	0.313
In.	0.57	0.60	2.43	5.06	1.29	1.46	1.26	1.36	0.70	0.62	0.56	0.35
Calendar year 1953: Max	2,560	Min	44	Mean	153	Cfsm	1.40	In.	19.09			
Water year 1953-54: Max	4,610	Min	28	Mean	131	Cfsm	1.20	In.	16.26			

Peak discharge (base, 2,000 cfs).--Dec. 9 (6 p.m.) 2,000 cfs (6.7 ft); Jan. 16 (5 p.m.) 7,410 cfs (13.1 ft); Jan. 22 (6 p.m.) 3,480 cfs (9.0 ft).

* Discharge measurement made on this day.

Chattooga River at Summerville, Ga.

Location.--Lat 34°28', long 85°20', on left bank 600 ft downstream from bridge on U. S. Highway 27, 1 mile southeast of Summerville, Chattooga County, and 4 miles upstream from Raccoon Creek.

Drainage area.--193 sq mi.

Records available.--March 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 613.47 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department). Prior to Nov. 12, 1937, staff gage at same site and datum.

Average discharge.--17 years, 349 cfs.

Extremes.--Maximum discharge during year, 10,300 cfs Jan. 16 (gage height, 17.2 ft); minimum daily, 50 cfs Oct. 15.

1937-54: Maximum discharge, 24,500 cfs Mar. 29, 1951 (gage height, 21.0 ft); minimum daily, 38 cfs Oct. 17, 1937, Nov. 9, 12, 1939.

Remarks.--Records good. Low and medium flow regulated by powerplant at Trion, 6 miles above station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 14				Dec. 15 to Sept. 30			
2.0	46	3.0	190	2.0	52	8.0	1,400
2.5	111	3.7	332	2.5	118	11.0	2,400
				3.0	200	13.0	3,290
				4.0	395	14.0	4,030
				5.5	722	15.6	6,500

Note.--Same as following table above 3.7 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	70	73	176	302	588	1,370	254	145	84	80	64
2	76	75	70	164	282	395	722	236	163	92	76	64
3	72	77	76	160	264	374	555	282	955	95	*75	64
4	73	77	104	152	254	322	458	292	789	93	75	64
5	*89	75	96	*150	236	292	395	254	332	90	74	64
6	90	75	84	147	218	264	353	236	264	92	74	63
7	76	72	85	139	209	245	322	207	227	89	76	63
8	76	72	80	134	200	218	342	193	204	97	75	63
9	73	73	242	131	197	218	555	183	186	102	74	63
10	54	75	374	140	197	211	342	163	178	106	71	65
11	70	76	153	200	186	198	302	*185	173	92	68	64
12	73	75	136	198	178	193	282	158	164	89	68	63
13	90	79	374	176	168	322	254	178	153	89	70	64
14	90	86	406	171	166	1,340	254	254	158	86	74	*62
15	50	72	322	519	163	588	236	245	155	84	75	62
16	80	59	218	6,440	*148	416	236	218	132	82	74	62
17	77	*73	183	4,150	173	353	245	205	137	81	75	62
18	73	75	164	1,080	161	312	218	218	178	88	75	62
19	76	79	155	722	153	322	218	218	154	89	90	63
20	79	73	144	566	152	353	211	197	131	86	84	62
21	76	70	164	1,250	155	292	181	188	140	82	75	68
22	76	87	171	3,280	184	273	195	186	*136	84	72	66
23	70	93	163	3,560	152	254	369	163	118	105	69	63
24	63	84	153	1,340	183	264	173	181	110	114	74	63
25	65	84	147	842	183	302	204	140	104	95	70	62
26	77	79	139	654	183	610	183	144	95	88	69	62
27	80	80	136	566	178	698	193	145	104	88	71	62
28	76	70	147	468	596	746	254	134	129	81	72	62
29	73	70	213	406	-	588	406	181	100	80	70	62
30	72	72	213	364	-----	*490	512	163	76	77	70	62
31	70	-----	186	332	-----	524	-----	144	-----	79	68	-----
Total	2,311	2,277	5,553	28,777	5,781	12,583	10,140	6,145	6,088	2,782	2,283	1,895
Mean	74.5	75.9	179	928	206	406	338	198	203	89.7	73.6	63.2
Cfsm	0.386	0.393	0.927	4.81	1.07	2.10	1.75	1.03	1.05	0.465	0.381	0.327
In.	0.44	0.44	1.07	5.54	1.11	2.42	1.95	1.19	1.17	0.54	0.44	0.36

Calendar year 1953: Max 6,380 Min 50 Mean 339 Cfsm 1.76 In. 23.82
 Water year 1953-54: Max 6,440 Min 50 Mean 237 Cfsm 1.23 In. 16.67

Peak discharge (base, 3,000 cfs).--Jan. 16 (8 p.m.) 10,300 cfs (17.2 ft); Jan. 23 (1 a.m.) 5,940 cfs (15.3 ft).

* Discharge measurement made on this day.

Chattooga River at Gaylesville, Ala.

Location--Lat 34°16', long 85°34', in SW $\frac{1}{4}$ sec. 11, T. 9 S., R. 10 E., on left bank at downstream side of bridge on county road to Cedar Bluff, 0.2 mile southwest of Gaylesville and 9 miles upstream from Little River.

Drainage area--377 sq mi.

Records available--June 1937 to September 1954.

Gage--Water-stage recorder. Datum of gage is 549.56 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). June 5, 1937, to Sept. 26, 1944, staff gage, and Sept. 27, 1944, to Dec. 14, 1948, wire-weight gage, at same site and datum.

Average discharge--17 years, 675 cfs.

Extremes--Maximum discharge during year, 9,700 cfs Jan. 17 (gage height, 19.57 ft); minimum daily, 100 cfs Sept. 14, 29.
1937-54: Maximum discharge, 33,700 cfs Mar. 30, 1951 (gage height, 25.24 ft), from rating curve extended above 18,000 cfs; minimum daily, 74 cfs Oct. 21, 1940.

Remarks--Records good. Some regulation at low flow by powerplant 27 miles above station.

Revisions (water years)--WSP 1052: 1938, 1943-44.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Backwater from return of overbank flow Jan. 18, 19, '24, 25; shifting-control method used Feb. 6-27)

4.1	100	15.0	3,500
5.0	248	17.0	4,950
6.0	452	19.0	8,100
9.0	1,290	20.0	10,900

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	165	144	146	362	641	1,390	2,090	615	293	162	140	118
2	164	144	146	342	602	872	1,550	500	302	170	141	118
3	159	144	152	322	563	760	1,110	488	776	169	135	112
4	159	*144	211	312	524	680	930	589	1,800	169	132	112
5	157	144	199	302	476	589	816	488	680	167	130	109
6	176	143	177	284	452	537	844	428	500	165	130	109
7	164	144	165	266	417	500	680	406	417	162	133	*108
8	*152	144	160	257	395	464	628	384	373	169	132	114
9	151	143	618	248	384	440	844	342	332	196	130	110
10	148	143	900	293	373	417	680	332	312	223	130	110
11	130	148	428	537	362	406	576	322	302	181	128	109
12	146	146	602	488	352	384	524	312	293	162	126	108
13	146	146	788	395	332	417	488	322	275	157	122	103
14	167	149	*844	362	312	1,484	464	537	266	156	124	100
15	159	157	760	1,030	312	1,260	440	512	266	151	127	106
16	126	149	512	6,750	312	760	476	428	257	146	132	106
17	148	124	406	8,850	*332	628	512	384	257	146	209	108
18	146	146	342	6,700	312	550	440	384	384	151	169	115
19	146	146	312	1,900	293	589	417	440	275	167	162	108
20	146	148	293	1,290	302	706	395	384	239	151	164	106
21	146	151	332	2,050	322	576	362	342	228	146	164	114
22	146	159	384	4,080	302	500	352	322	230	159	138	124
23	146	184	342	5,720	293	476	342	302	*213	157	130	108
24	144	172	312	4,800	322	*488	332	284	204	186	127	115
25	136	176	293	2,000	332	524	352	284	201	179	126	108
26	143	162	284	1,450	332	1,420	332	*266	196	157	126	108
27	159	151	266	1,290	322	1,730	322	266	191	*177	124	106
28	157	149	275	1,110	1,120	2,090	352	266	189	151	126	106
29	149	146	440	900	1,390	1,390	*1,260	266	199	146	130	100
30	148	144	476	788	-----	1,110	816	322	191	143	127	*102
31	146	-----	417	706	-----	1,050	-----	266	-----	140	121	-----
Total	4,675	4,490	11,982	56,184	11,393	25,187	19,726	11,783	10,641	5,071	4,235	3,280
Mean	151	150	387	1,812	407	812	658	380	355	164	137	109
Cfs/m	0.401	0.398	1.03	4.81	1.08	2.15	1.75	1.01	0.942	0.435	0.363	0.289
In.	0.46	0.44	1.18	5.54	1.12	2.48	1.95	1.16	1.05	0.50	0.42	0.32

Calendar year 1953: Max 8,100 Min 124 Mean 685 Cfs/m 1.82 In. 24.66
Water year 1953-54: Max 8,850 Min 100 Mean 462 Cfs/m 1.23 In. 16.62

Peak discharge (base, 5,000 cfs)--Jan. 17 (8 p.m.) 9,700 cfs (19.57 ft); Jan. 24 (4 a.m.) 6,150 cfs (17.92 ft).

* Discharge measurement made on this day.

Coosa River at Leesburg, Ala.

Location.--Lat 34°11', long 85°45', in NW¼ sec. 12, T. 10 S., R. 8 E., near center of channel on downstream side of bridge on U. S. Highway 411, 1 mile east of Leesburg and 4 miles downstream from Yellow Creek.

Drainage area.--5,270 sq mi, approximately.

Records available.--June 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 517.77 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to June 7, 1941, staff gage and June 8, 1941, to Sept. 30, 1952, wire-weight gage, at same site and datum.

Average discharge.--17 years, 8,324 cfs.

Extremes.--Maximum discharge during year, 45,700 cfs Jan. 24 (gage height, 28.8 ft); minimum daily, 1,260 cfs Sept. 7, 14.

1937-54: Maximum discharge, 73,200 cfs Feb. 14, 1946, Jan. 24, 1947 (gage height, 35.1 ft, from graph based on gage readings); minimum observed, 1,130 cfs Oct. 24-27, 1941.

Remarks.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Allatoona Reservoir since December 1949 (see p. 241) and by hydroelectric plant on Etowah River.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.7	1,260	12.0	16,100
2.0	2,280	18.0	26,300
4.0	4,320	24.0	36,500
8.0	9,750	29.0	46,100

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,200	2,900	1,640	8,160	10,500	13,900	17,500	9,450	3,750	3,970	1,960	2,360
2	2,200	1,760	2,700	6,760	9,450	15,000	19,800	7,740	5,700	3,860	1,640	1,920
3	1,640	1,720	2,900	5,050	11,100	14,700	19,800	6,350	7,460	3,200	1,720	1,920
4	1,720	2,900	3,100	4,320	8,600	13,200	19,300	8,440	12,900	2,700	2,200	2,040
5	1,680	3,000	3,310	4,440	10,000	10,400	15,100	11,900	10,500	2,520	2,120	2,000
6	1,800	3,100	3,000	5,310	10,000	8,580	12,300	11,100	6,620	2,120	2,120	1,560
7	2,280	3,420	2,360	5,310	9,750	7,460	12,400	8,860	4,800	2,200	2,040	*1,260
8	*2,520	2,610	2,200	5,440	7,320	6,620	11,600	7,740	4,200	3,000	2,000	1,840
9	2,360	1,600	4,680	5,570	6,760	6,350	10,500	6,900	4,320	2,700	1,720	2,440
10	2,610	1,600	13,400	5,310	9,000	6,620	11,100	5,050	4,200	2,700	1,920	2,360
11	2,520	3,000	12,700	5,570	9,000	6,760	9,750	5,180	3,640	3,420	4,920	2,200
12	1,720	2,800	12,900	5,180	9,150	6,900	7,600	6,090	3,420	2,280	5,050	2,040
13	1,720	2,800	*11,500	*6,900	9,000	6,900	7,180	5,570	3,000	2,200	3,310	1,330
14	2,700	2,900	10,500	7,040	8,860	9,300	8,020	6,760	3,000	2,520	2,200	1,260
15	2,800	2,700	11,100	6,300	6,620	10,700	8,020	8,720	3,100	2,200	1,720	2,120
16	3,310	1,680	10,200	32,100	5,830	12,100	8,160	7,880	4,440	2,700	1,600	2,520
17	3,100	1,480	8,440	43,100	*8,860	12,100	9,900	5,830	4,560	2,610	1,680	2,360
18	2,360	2,610	6,760	43,900	9,300	9,300	10,400	5,960	6,350	2,280	3,000	2,360
19	1,640	2,900	5,440	43,100	10,200	7,600	10,400	7,040	6,090	a2,000	2,800	2,200
20	1,600	3,000	4,920	40,600	10,000	7,740	10,200	6,900	5,310	a1,900	2,700	1,840
21	2,800	3,200	3,970	39,500	8,020	7,320	9,600	6,480	3,530	2,360	2,520	1,400
22	2,800	2,800	4,800	41,900	6,480	7,040	8,160	5,830	3,420	2,360	2,610	2,520
23	2,800	1,840	7,320	45,000	6,760	7,150	7,320	4,680	*4,320	2,200	1,840	2,120
24	3,000	2,000	8,020	45,400	7,180	*8,020	6,900	3,750	3,860	2,610	1,760	2,120
25	2,900	3,200	7,600	44,800	8,300	8,580	6,090	4,200	3,640	2,610	2,040	2,200
26	1,680	3,530	6,760	42,700	8,300	12,400	5,570	5,050	3,420	a2,100	1,880	2,120
27	1,560	2,800	6,090	40,000	7,740	18,300	6,350	5,440	3,000	*2,040	2,040	1,800
28	2,800	2,000	5,050	37,900	9,600	25,300	*8,020	5,310	2,280	2,610	2,200	1,300
29	3,000	2,520	5,570	35,300	-	24,800	8,500	5,310	2,610	2,200	2,280	2,040
30	3,100	1,800	8,160	29,700	-----	21,700	9,750	4,080	4,320	2,000	1,640	*2,520
31	3,100	-----	8,440	18,800	-----	16,400	-----	3,200	-----	2,120	1,680	-----
Total	74,226	76,170	205,530	712,460	242,680	349,270	315,090	202,790	141,760	78,290	70,910	59,830
Mean	2,394	2,539	6,630	22,960	8,667	11,270	10,500	6,542	4,725	2,525	2,267	1,994
Cfs/m	0.454	0.482	1.26	4.36	1.64	2.14	1.99	1.24	0.897	0.479	0.434	0.378
In.	0.52	0.54	1.45	5.03	1.71	2.46	2.22	1.43	1.00	0.55	0.50	0.42
Calendar year 1953: Max	37,700				Min 1,480	Mean 7,892	Cfs/m 1.50	In. 20.33				
Water year 1953-54: Max	45,400				Min 1,260	Mean 8,929	Cfs/m 1.31	In. 17.85				

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for station at Gadsden.

Terrapin Creek near Piedmont, Ala.

Location.--Lat 33°57', long 85°34', in SE $\frac{1}{4}$ sec. 27, T. 12 S., R. 10 E., on left bank at downstream side of bridge on State Highway 74, 500 ft upstream from Southern Railway bridge, half a mile upstream from Ladiga Creek, and 3 miles northeast of Piedmont.

Drainage area.--115 sq mi.

Records available.--June 1944 to December 1954 (discontinued).

Gage.--Water-stage recorder. Datum of gage is 649.79 ft above mean sea level, datum of 1929.

Average discharge.--10 years, 163 cfs.

Extremes.--1953-54: Maximum discharge during water year, 12,000 cfs Jan. 16 (gage height, 11.54 ft); minimum, 1.8 cfs Sept. 29.

1954: Maximum discharge during period October to December, 652 cfs Dec. 29 (gage height, 3.23 ft); minimum, 0.9 cfs Oct. 18, 20.

1944-54: Maximum discharge, 21,000 cfs Nov. 28, 1948 (gage height, 13.3 ft), from rating curve extended above 10,400 cfs on basis of slope-conveyance studies; minimum, that of Oct. 18, 20, 1954.

Remarks.--Records fair.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Ján.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	11	13	130	110	331	248	288	51	13	13	6.5
2	14	11	12	104	104	229	189	210	223	18	11	6.1
3	13	11	13	90	99	201	158	470	132	24	9.1	5.7
4	11	*11	156	77	93	158	140	678	110	21	7.0	5.2
5	10	11	65	68	86	140	122	248	65	17	5.7	4.8
6	11	11	35	64	81	127	115	178	54	14	5.2	4.2
7	11	11	38	57	77	115	108	142	48	12	5.7	4.0
8	*11	11	29	54	73	104	99	135	44	11	7.0	3.4
9	11	11	1,180	51	72	99	95	110	41	11	8.7	*3.4
10	11	13	547	53	70	95	86	97	39	20	7.4	3.7
11	10	13	115	61	72	90	82	88	38	14	6.1	6.1
12	9.7	13	153	55	68	86	86	81	37	13	5.2	4.5
13	9.1	14	*135	*49	61	82	81	104	36	11	4.2	3.7
14	9.7	14	232	48	80	115	77	140	38	9.1	3.7	3.4
15	11	13	148	89	80	90	73	110	119	16	3.4	2.8
16	11	14	79	6,910	70	77	273	90	61	34	3.7	3.1
17	9.7	13	53	700	145	75	328	79	82	18	3.4	3.1
18	9.7	13	39	355	*90	72	189	75	75	16	3.4	2.8
19	9.1	13	33	248	77	93	140	79	54	15	11	2.8
20	8.7	16	57	192	138	120	110	72	42	16	21	2.6
21	8.2	27	88	633	195	90	97	68	38	14	131	3.1
22	7.4	35	314	1,880	135	61	88	33	18	37	3.1	3.1
23	7.4	90	307	724	110	79	86	61	31	130	23	2.8
24	7.8	29	172	376	332	82	226	57	*27	120	17	2.6
25	7.4	27	118	271	284	*81	403	54	25	35	14	2.8
26	7.4	28	88	210	192	120	304	53	22	*23	12	2.6
27	8.7	20	73	210	148	368	294	*53	20	18	11	2.6
28	9.7	16	72	198	347	461	189	50	18	16	10	2.0
29	12	14	252	164	268	*686	51	16	13	13	8.7	2.0
30	13	13	304	148	-----	201	528	50	15	11	8.2	*2.8
31	12	-----	189	130	-----	172	-----	45	-----	9.7	7.4	-----
Total	316.7	547	5,109	14,399	3,449	4,500	5,700	4,078	1,634	728.8	424.2	108.3
Mean	10.2	18.2	165	464	123	145	190	132	54.5	23.5	13.7	3.61
Cfs/m	0.089	0.158	1.43	4.03	1.07	1.26	1.65	1.15	0.474	0.204	0.119	0.031
In.	0.10	0.18	1.65	4.66	1.12	1.46	1.84	1.32	0.53	0.24	0.14	0.04

Calendar year 1953: Max 3,550 Min 3.1 Mean 146 Cfs/m 1.27 In. 17.23

Water year 1953-54: Max 6,910 Min 2.0 Mean 112 Cfs/m 0.974 In. 13.28

Peak discharge (base, 4,000 cfs).--Jan. 16 (11:30 a.m.) 12,000 cfs (11.54 ft).

* Discharge measurement made on this day.

Discharge, in cubic feet per second, 1954

Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.
1	4.5	4.5	20	9	1.6	7.8	26	17	1.1	26	25	25	2.0	13	26
2	4.8	4.8	16	10	1.5	8.2	*36	18	.9	21	167	28	2.0	12	24
3	4.8	*4.2	14	11	1.3	8.2	29	19	1.1	15	67	27	2.0	15	23
4	3.7	5.7	14	12	1.5	8.7	23	20	.9	14	42	28	2.3	21	23
5	2.8	10	14	13	1.5	9.1	28	21	1.5	13	35	29	2.6	48	297
6	2.8	14	43	14	1.3	10	38	22	1.6	13	30	30	3.1	32	188
7	2.8	11	36	15	1.5	12	31	23	1.5	13	28	31	4.2	-	75
8	2.0	8.2	23	16	1.3	16	25	24	1.6	13	26				
Total	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	68.1	412.4	1,473
Mean	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2.20	13.7	47.5
Cubic feet per second per square mile	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.019	0.119	0.413
Runoff in inches	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.02	0.13	0.48

Calendar year 1953: Max 6,910 Min 0.9 Mean 101 Cfs/m 0.878 In. 11.98

Peak discharge (base, 4,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Coosa River at Gadsden, Ala.

Location.--Lat 34°01', long 86°00', in NE¼ sec. 10, T. 12 S., R. 6 E., near midstream on pier of Etowah County Memorial Bridge on U. S. Highway 241 in Gadsden, 450 ft downstream from Louisville & Nashville Railroad bridge and 1½ miles upstream from Big Wills Creek.

Drainage area.--5,800 sq mi, approximately.

Records available.--October 1926 to September 1954. Gage-height records collected at same site since 1890 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 485.97 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Oct. 1, 1926, staff or chain gage on Louisville & Nashville Railroad bridge 450 ft upstream at datum 1.15 ft higher.

Average discharge.--28 years, 9,301 cfs.

Extremes.--Maximum discharge during year, 51,000 cfs Jan. 24 (gage height, 24.3 ft in gage well, 24.5 ft from outside gage); minimum daily, 1.480 cfs Sept. 8.
1926-54: Maximum discharge, 76,900 cfs Apr. 11 1936 (gage height, 31.13 ft); minimum, 1,170 cfs Oct. 27, 1941 (gage height, 0.36 ft).
Maximum stage known, 37.9 ft Apr. 6, 1886, from floodmarks established by Corps of Engineers. Flood of July 15, 1916, reached a stage of 32.7 ft.

Remarks.--Records good. Flow regulated by Allatoona Reservoir since December 1949 (see p. 241) and by hydroelectric plant on Etowah River.

Revisions.--WSP 682: Drainage area.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Backwater from tributary inflow Jan. 16-18)

0.6	1,430	10.0	15,700
1.4	2,280	15.0	25,800
2.0	2,990	20.0	38,200
4.0	5,620	24.5	51,800
7.0	10,300		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,050	3,230	2,060	9,500	19,000	14,900	19,400	10,800	3,470	4,380	2,280	1,960
2	2,510	2,870	2,120	8,860	10,500	16,600	20,600	9,660	4,510	4,120	2,170	2,450
3	2,390	1,980	2,990	7,100	11,000	16,600	21,400	7,900	6,500	3,990	1,900	2,060
4	2,060	2,120	3,470	5,620	11,200	15,700	21,600	7,420	11,800	5,350	1,960	2,120
5	1,960	3,110	3,600	4,760	10,300	13,400	19,600	10,800	12,900	2,990	2,390	2,230
6	1,900	3,230	3,600	5,060	10,600	11,000	14,900	12,400	9,820	2,750	2,340	2,120
7	*2,060	3,350	3,230	5,760	10,300	9,180	13,400	11,000	6,500	2,390	2,340	1,740
8	2,510	3,470	2,690	5,620	9,820	8,060	13,400	9,020	4,780	2,690	2,280	1,480
9	2,690	2,690	5,060	5,760	7,100	7,100	12,900	8,060	4,510	3,350	2,230	2,060
10	2,570	1,850	11,800	6,200	7,900	6,950	11,700	6,800	4,640	3,110	1,960	2,630
11	2,870	2,060	14,900	7,100	9,340	7,100	11,800	5,340	4,250	3,230	2,450	2,510
12	2,570	3,110	*15,300	*6,350	9,500	7,420	10,100	5,760	3,990	3,350	4,920	2,390
13	1,850	2,990	15,100	6,500	9,340	7,420	7,900	6,200	3,600	2,570	4,780	2,120
14	2,010	3,050	13,400	7,580	9,340	9,340	8,060	6,050	3,350	2,510	3,350	1,540
15	2,870	3,110	13,100	8,700	9,020	11,500	8,540	7,740	3,230	2,690	2,390	1,540
16	3,110	2,750	12,400	31,000	6,350	12,200	8,860	9,020	3,730	2,570	1,960	2,280
17	3,350	1,900	10,800	41,000	*7,740	13,100	9,980	7,580	4,640	2,930	1,800	2,590
18	3,110	1,900	8,860	47,000	9,500	12,200	11,200	6,050	5,060	2,810	2,700	2,570
19	2,450	2,930	7,100	48,800	9,980	9,660	11,500	6,650	6,650	2,510	3,230	2,570
20	1,850	3,110	5,900	47,000	10,800	8,860	10,800	7,260	6,200	2,170	3,110	2,390
21	2,010	3,230	5,340	46,700	10,800	8,380	10,800	6,950	4,920	2,170	2,930	2,060
22	2,930	3,470	4,640	48,200	8,220	8,060	9,660	6,500	3,730	2,750	2,870	1,740
23	2,990	2,930	6,200	49,700	7,260	*7,580	8,380	5,750	3,860	2,750	2,750	2,530
24	3,050	2,230	8,380	50,700	8,220	8,060	7,580	4,640	4,250	2,750	2,000	2,280
25	3,230	2,570	8,540	50,400	9,500	8,700	7,100	3,990	3,990	3,050	2,010	2,280
26	2,870	3,470	8,060	48,800	9,820	11,300	6,650	*4,640	3,730	2,810	2,250	2,390
27	1,900	3,600	6,950	47,300	9,340	17,800	6,200	5,340	3,600	2,390	2,120	2,230
28	1,800	2,930	6,500	44,900	12,000	25,600	7,580	5,480	3,110	*2,340	2,230	1,960
29	2,990	2,450	6,500	41,600	-	28,000	8,380	5,220	2,510	2,810	2,450	*1,640
30	3,110	2,690	8,060	38,200	-----	22,500	9,820	5,200	3,230	2,450	2,340	2,280
31	3,230	-----	9,660	30,700	-----	22,400	-----	4,120	-----	2,230	1,850	-----
Total	79,950	84,360	236,310	812,490	275,790	390,670	349,190	219,750	151,050	88,960	77,690	64,940
Mean	2,579	2,812	7,623	26,210	9,778	12,600	11,640	7,089	5,035	2,870	2,506	2,165
Cfs/m	0.445	0.485	1.31	4.52	1.69	2.17	2.01	1.22	0.868	0.495	0.432	0.373
In.	0.51	0.54	1.52	5.21	1.76	2.51	2.24	1.41	0.97	0.57	0.50	0.42
Calendar year 1953: Max	44,600	Min	1,750	Mean	8,931	Cfs/m	1.54	In.	20.91			
Water year 1953-54: Max	50,700	Min	1,480	Mean	7,751	Cfs/m	1.34	In.	18.16			

* Discharge measurement made on this day.

Big Wills Creek near Crudup, Ala.

Location.--Lat 34°06', long 86°02', in SE $\frac{1}{4}$ sec. 6, T. 11 S., R. 6 E., at midstream on upstream handrail of highway bridge, 1 mile upstream from Fisher Creek, 2 miles west of Crudup, and 4 miles downstream from Little Duck Creek.

Drainage area.--189 sq mi.

Records available.--October 1943 to September 1954.

Gage.--Wire-weight gage read twice daily. Altitude of gage is 650 ft (from topographic map).

Average discharge.--11 years, 325 cfs.

Extremes.--Maximum discharge during year, 5,180 cfs Jan. 16 (gage height, 11.1 ft, from graph based on gage readings); minimum observed, 35 cfs Sept. 29 (gage height, 1.60 ft).

1943-54: Maximum discharge, 14,800 cfs Mar. 29, 1951 (gage height, 14.5 ft, from floodmarks); minimum observed, 30 cfs Dec. 6, 1943.

Remarks.--Records fair except those for periods of doubtful gage-height record, which are poor.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Jan. 16					Jan. 17 to Sept. 30			
1.6	42	6.0	1,020		1.6	35	5.0	194
2.0	77	8.0	1,870		2.0	72	4.0	409
2.5	138	9.0	2,500		2.5	124	6.0	1,020
3.0	210	10.0	3,500					
4.0	424	11.0	5,000					

Note.--Same as preceding table above 6.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	50	50	138	311	670	790	268	108	d69	54	43
2	54	49	49	125	289	610	985	248	113	d67	50	41
3	54	*49	54	118	289	492	760	248	380	d66	50	40
4	54	49	94	118	268	383	610	248	580	d65	48	40
5	54	49	82	118	248	311	492	229	383	d63	48	39
6	54	48	67	112	229	268	358	220	229	d62	48	d39
7	*50	48	54	106	211	248	334	220	170	61	48	d37
8	54	48	58	112	202	248	464	194	156	67	48	*d37
9	54	48	257	112	186	248	640	156	136	97	47	d37
10	50	48	330	160	178	229	383	149	130	87	48	d37
11	54	48	308	308	170	248	311	142	124	71	48	d37
12	50	48	*286	*227	163	248	289	149	118	59	47	d37
13	50	48	308	186	156	331	268	142	118	64	47	37
14	50	48	352	172	149	880	248	142	108	61	43	39
15	49	48	330	474	142	640	248	142	108	58	43	37
16	50	48	286	3,750	*142	464	248	136	102	56	43	38
17	50	48	265	4,500	*156	409	311	124	102	52	43	39
18	50	48	218	1,940	142	383	229	124	102	52	48	39
19	49	46	165	790	142	358	211	124	97	52	77	38
20	49	46	138	521	149	492	194	118	97	49	65	37
21	49	48	132	850	170	334	178	118	92	46	56	48
22	49	67	125	2,080	156	268	156	113	*92	113	50	44
23	49	72	118	3,260	156	248	163	108	87	87	48	40
24	49	87	112	2,260	358	*248	178	108	87	77	47	39
25	49	67	106	880	464	268	194	102	82	67	45	38
26	47	62	100	640	464	550	289	97	82	61	48	39
27	44	54	106	550	436	850	186	*37	82	*58	50	37
28	48	50	112	521	610	1,160	178	97	77	56	47	37
29	48	50	144	492	-	1,020	*186	102	d75	53	45	35
30	50	49	186	464	-----	580	268	102	d72	52	45	37
31	50	-----	172	334	-----	492	-----	108	-----	53	43	-----
Total	1,567	1,548	5,164	26,418	6,736	14,178	10,349	4,675	4,289	2,001	1,517	1,161
Mean	50.5	51.6	167	852	241	457	345	151	143	64.5	48.9	38.7
Cfsm	0.267	0.275	0.884	4.51	1.28	2.42	1.83	0.799	0.757	0.341	0.259	0.205
In.	0.31	0.30	1.02	5.20	1.33	2.79	2.04	0.92	0.84	0.39	0.30	0.23
Calendar year 1953: Max	4,660				Min 44	Mean 304	Cfsm 1.61	In. 21.80				
Water year 1953-54: Max	4,500				Min 35	Mean 218	Cfsm 1.15	In. 15.67				

Peak discharge (base, 3,600 cfs)--Jan. 16 (10 p.m.) 5,180 cfs (11.1 ft).

* Discharge measurement made on this day.

d Doubtful gage-height record; discharge estimated on basis of 1 discharge measurement and records for stations on nearby streams.

Big Canoe Creek near Gadsden, Ala.

Location.--Lat 33°54', long 86°07', in SW $\frac{1}{4}$ sec. 15, T. 13 S., R. 5 E., near left bank on downstream side of pier of bridge on U. S. Highway 411 (formerly U. S. Highway 11), 400 ft downstream from Rock Creek, 5 miles upstream from mouth, and 10 miles southwest of Gadsden.

Drainage area.--238 sq mi.

Records available.--January 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 490.56 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Sept. 20, 1939, staff gage at datum 2.24 ft higher. Sept. 20, 1939, to Mar. 15, 1944, staff gage, and Mar. 16, 1944, to Dec. 13, 1948, wire-weight gage, at present datum. Auxiliary gages used in earlier years have been discontinued.

Average discharge.--15 years (1939-54), 429 cfs.

Extremes.--Maximum discharge during year, 8,130 cfs Jan. 16 (gage height, 17.1 ft); minimum, 11 cfs Sept. 11-17.

1938-54: Maximum discharge, 37,900 cfs Dec. 29, 1942 (gage height, 29.1 ft, from high-water mark), from rating curve extended above 18,000 cfs on basis of runoff for stations on nearby streams; minimum daily since Oct. 1, 1945, 10 cfs Oct. 10, 22, Nov. 1, 1948; minimum not determined prior to Oct. 1, 1945.

Remarks.--Records good above 50 cfs and fair below except those for period of backwater from Coosa River, which are poor.

Rating table, water year 1953-54, except period of backwater from Coosa River (gage height, in feet, and discharge, in cubic feet per second)

2.1	12	4.0	320
2.3	18	5.0	645
2.5	28	7.0	1,260
2.7	44	10.0	2,440
3.0	80	13.0	4,050
3.5	180	16.0	6,800

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	19	26	288	314	1,300	705	207	55	24	34	14
2	25	19	25	241	279	690	518	161	116	23	33	14
3	22	*18	30	220	258	502	372	149	323	23	27	13
4	21	19	86	197	238	440	320	214	434	23	17	13
5	20	20	173	175	217	349	282	227	139	23	15	13
6	20	19	120	161	199	310	261	168	114	22	15	*12
7	*19	19	80	147	182	276	247	147	86	21	16	12
8	19	18	82	134	170	252	230	134	76	21	17	12
9	19	18	964	126	158	233	230	132	66	21	18	12
10	19	18	1,750	259	156	220	199	110	59	53	18	12
11	19	18	906	1,020	156	204	178	107	54	38	18	11
12	19	19	*1,110	*550	180	192	168	96	50	29	16	11
13	20	20	1,190	507	168	285	156	93	50	23	15	11
14	19	20	820	250	143	962	145	98	58	23	15	11
15	18	21	764	610	134	451	138	110	52	23	14	11
16	18	22	417	6,780	*182	270	178	118	51	21	16	11
17	18	22	285	c4,900	598	225	349	101	59	30	22	11
18	18	23	230	c2,500	330	209	230	88	77	19	38	12
19	18	23	194	c1,200	230	261	163	79	64	25	20	12
20	18	23	170	c800	518	383	147	74	49	74	29	12
21	17	23	168	c1,500	904	258	134	67	43	20	117	13
22	18	29	182	c2,800	444	*202	124	62	*40	29	91	14
23	16	36	180	c2,800	333	182	120	58	37	35	41	14
24	17	41	154	c1,800	1,020	180	116	54	36	45	27	16
25	17	49	130	*c1,200	1,260	182	376	*54	33	47	23	16
26	17	39	120	c800	518	1,050	294	51	31	42	22	14
27	18	34	114	c640	393	1,640	*194	50	29	34	31	13
28	20	30	152	c600	1,050	2,350	161	49	29	41	26	12
29	21	28	820	c520	-	1,720	204	49	27	*39	17	*12
30	20	27	690	c420	-----	848	261	55	25	36	16	12
31	20	-----	403	c370	-----	598	-----	65	-----	35	14	-----
Total	593	734	12,535	34,315	10,732	17,224	7,200	3,233	2,422	888	838	376
Mean	19.1	24.5	404	1,110	383	556	240	104	80.7	28.6	27.0	12.5
Cfs/m	0.080	0.103	1.70	4.66	1.61	2.34	1.01	0.437	0.339	0.120	0.113	0.053
In.	0.09	0.11	1.96	5.36	1.68	2.69	1.13	0.51	0.38	0.14	0.13	0.06
Calendar year 1953: Max	7,160				Min 16		Mean 409	Cfs/m 1.72	In. 23.30			
Water year 1953-54: Max	6,780				Min 11		Mean 250	Cfs/m 1.05	In. 14.24			

Peak discharge (base, 4,000 cfs).--Jan. 16 (10 a.m.) 8,130 cfs (17.1 ft).

* Discharge measurement made on this day.

c Backwater from Coosa River; discharge estimated on basis of 1 discharge measurement and records for stations on nearby streams.

Choccolocco Creek near Jenifer, Ala.

Location.--Lat 33°34', long 85°56', on line between secs. 5 and 8, T. 17 S., R. 7 E., on left bank near upstream side of left abutment of Louisville & Nashville Railroad bridge, three-quarters of a mile upstream from Salt Creek and 1½ miles north of Jenifer.

Drainage area.--275 sq mi.

Records available.--August 1903 to February 1908, May 1929 to March 1932, May 1935 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 554.15 ft above mean sea level, adjustment of 1903. Prior to July 25, 1942, staff gage at same site and datum.

Average discharge.--25 years (1903-7, 1929-31, 1935-54), 394 cfs.

Extremes.--Maximum discharge during year, 7,950 cfs Jan. 17 (gage height, 10.6 ft); minimum daily, 56 cfs Sept. 21, 23, 24, 30, 1903-3, 1929-32, 1935-54. Maximum discharge, 21,900 cfs Feb. 4, 1936 (gage height, 17.2 ft); minimum daily, 30 cfs Oct. 10, 1931.

Revisions.--Figures of maximum discharge for the water years 1906 and 1930 have been revised to 14,600 cfs Mar. 20, 1906 (gage height, 14.2 ft) and 14,900 cfs Mar. 7, 1930, superseding figure and undetermined discharge published in WSP 204 and 697, respectively.

Remarks.--Records fair. Some diurnal fluctuation caused by milldams above station. An average of about 12 cfs diverted from Coldwater Spring for municipal water supply for city of Anniston.

Revisions (water years).--WSP 782: Drainage area. WSP 952: 1904(M) WSP 1204: 1936-39, 1946(P), 1949.

Rating tables, water year 1953-54 (gage height, in feet, and discharge in cubic feet per second)

(Shifting-control method used Apr. 1-10, July 1-21, Sept. 11-30)

Oct. 1 to Jan. 16 July 1 to Sept. 30			Jan. 17 to Mar. 31			Apr. 1 to June 30		
1.5	53	3.5 600	2.3	207	6.0	2,320	2.1	86
1.9	104	4.0 880	3.0	425	8.0	4,380	2.5	181
2.4	206	6.0 2,320	4.0	880	10.0	7,050	3.0	360
3.0	390						3.5	590

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92	101	112	446	450	705	360	530	170	101	90	*79
2	90	102	112	348	400	572	340	344	328	101	90	75
3	88	102	121	293	350	472	301	332	530	100	94	76
4	88	102	216	260	320	414	286	558	332	104	86	75
5	90	*102	235	232	300	366	260	468	222	106	81	75
6	*90	101	194	222	280	334	236	332	175	107	79	67
7	92	102	156	204	270	308	239	278	153	111	92	67
8	89	102	152	196	250	293	222	257	150	111	83	68
9	92	101	658	189	240	276	212	239	146	118	82	70
10	94	101	*910	184	230	273	203	209	138	109	85	68
11	95	102	900	189	220	255	187	200	140	104	83	61
12	92	102	500	184	250	253	178	187	138	96	79	61
13	92	104	450	178	230	244	190	206	136	95	76	61
14	100	106	400	*169	215	258	175	215	133	96	92	61
15	96	106	400	192	210	258	178	212	146	109	76	62
16	94	102	400	2,340	233	233	322	206	161	95	73	56
17	96	109	400	5,930	334	215	580	190	277	95	76	58
18	96	111	300	3,480	290	215	520	161	232	106	86	60
19	94	109	238	1,090	*247	239	348	190	167	101	112	61
20	96	125	196	630	290	267	275	187	148	94	86	57
21	96	123	189	1,310	317	268	232	175	128	89	106	56
22	96	156	227	2,500	305	236	206	173	124	112	162	59
23	100	156	376	2,700	276	220	190	173	124	112	101	56
24	100	164	462	2,000	568	220	206	167	*124	137	86	56
25	100	156	348	900	655	*225	267	161	121	145	82	61
26	98	134	284	700	544	264	271	159	119	118	78	60
27	101	128	240	600	404	418	*290	156	117	107	75	58
28	101	121	216	550	568	805	236	*153	119	102	75	57
29	101	118	260	550	-	580	432	153	104	*95	75	*57
30	101	116	450	600	-----	480	*550	148	104	90	73	56
31	101	-----	578	500	-----	414	-----	143	-----	89	76	-----
Total	2,952	3,464	10,680	29,866	9,246	10,665	8,482	7,279	5,206	3,255	2,690	1,896
Water year 1953-54: Max	95.2	115	345	963	330	344	283	235	174	105	86.8	63.2
Cfsm	0.346	0.418	1.25	3.50	1.20	1.25	1.03	0.855	0.633	0.382	0.316	0.230
In.	0.40	0.47	1.44	4.04	1.25	1.44	1.15	0.98	0.70	0.44	0.36	0.26

Calendar year 1953: Max 7,610 Min 75 Mean 383 Cfsm 1.39 In. 18.88
 Water year 1953-54: Max 5,930 Min 56 Mean 262 Cfsm 0.953 In. 12.93

Peak discharge (base, 2,000 cfs).--Jan. 17 (3 p.m.) 7,950 cfs (10.6 ft); Jan. 22 (time unknown) 3,070 cfs (6.8 ft).

* Discharge measurement made on this day.

Note.--No gage-height record Dec. 11-18, Jan. 22 to Feb. 12; discharge estimated on basis of recorded range in stage, weather records, and records for stations on nearby streams.

MOBILE RIVER BASIN

Coosa River near Cropwell, Ala.

Location.--Lat 33°30', long 86°14', in SE $\frac{1}{4}$ sec. 33, T. 17 S., R. 4 E., near left bank on downstream side of bridge on State Highway 48, 2 miles downstream from Poorhouse Branch and 4 miles southeast of Cropwell.

Drainage area.--7,690 sq mi, approximately.

Records available.--January 1892 to December 1899 (gage heights only), March 1942 to September 1954. Published as "at lock 5" 1892-99.

Gage.--Wire-weight gage read twice daily. Datum of gage is 420.68 ft above mean sea level, datum of 1929, supplementary adjustment of 1943 (levels by Corps of Engineers). January 1892 to December 1899 staff gage at site half a mile upstream at different datum. March 1942 to July 1945 staff gage at present site and datum.

Average discharge.--12 years (1942-54), 13,410 cfs.

Extremes.--Maximum discharge during year, 70,500 cfs Jan. 17, 18 (gage height, 15.5 ft, from graph based on gage readings); minimum daily, 1,950 cfs Sept. 9, 10, 16.
1942-54: Maximum discharge, 126,000 cfs Mar. 30, 1951 (gage height, 23.7 ft, from graph based on gage readings); minimum daily, 1,720 cfs Oct. 1-5, 9, 11, 1947.

Remarks.--Records good above and fair below 5,000 cfs. Since December 1949, flow regulated by Allatoona Reservoir (see p. 241) and by hydroelectric plant on Etowah River.

Revisions (water years).--WSP 1032: 1943-44. WSP 1082: 1943, 1946.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Dec. 9, and
July 16 to Sept. 30)

1.7	1,800	7.0	22,900
2.4	4,000	10.0	38,500
3.0	6,080	13.0	55,000
4.0	9,800	16.0	74,000

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,330	3,840	3,340	11,800	30,900	21,100	25,800	13,100	5,360	3,840	2,550	2,550
2	4,000	3,500	2,860	11,000	18,800	21,500	22,400	12,200	5,720	5,360	2,700	2,400
3	3,020	3,180	2,860	9,800	12,200	21,100	25,400	10,600	6,800	5,360	2,550	2,550
4	2,860	2,700	4,000	7,900	13,500	20,100	25,400	9,420	9,040	4,670	2,400	2,550
5	2,700	2,400	4,670	6,800	12,600	18,300	23,900	9,800	13,100	4,330	2,250	2,700
6	*2,400	3,500	4,670	6,440	11,800	14,800	20,600	13,500	13,100	3,670	2,550	2,550
7	2,250	3,670	4,670	5,440	12,200	16,500	13,900	9,420	3,670	2,860	2,550	2,550
8	2,250	3,670	4,160	7,160	11,800	11,000	15,700	11,800	7,160	3,180	2,860	2,400
9	2,700	4,000	5,720	6,800	10,600	9,420	15,200	9,600	6,080	3,670	2,700	1,950
10	2,860	3,500	*16,100	7,160	7,900	8,280	13,900	9,040	5,720	4,160	2,700	1,950
11	3,020	2,550	18,800	8,280	10,200	8,660	13,500	7,160	5,500	4,160	2,400	2,700
12	3,340	2,860	20,100	9,420	11,000	8,660	13,100	6,440	5,360	4,000	2,550	2,860
13	3,180	3,670	20,600	7,520	10,600	9,040	10,600	7,160	5,010	3,840	5,360	2,860
14	2,550	3,670	19,200	*8,280	10,600	9,800	9,040	7,160	4,670	3,340	5,070	2,550
15	2,250	3,670	17,000	9,040	10,200	12,600	9,420	7,160	4,000	3,500	3,840	2,250
16	3,020	3,340	15,700	38,800	9,800	13,900	10,200	9,420	4,670	3,020	3,020	1,950
17	3,500	2,700	13,900	67,700	8,280	14,300	12,200	9,420	5,360	2,860	2,550	2,250
18	3,670	2,400	11,800	68,400	10,600	15,200	12,600	7,900	6,080	3,500	2,550	2,860
19	3,500	3,500	9,040	82,200	*11,000	13,100	13,100	6,800	6,440	3,180	2,550	2,860
20	3,180	4,000	7,900	57,400	12,600	*11,000	12,600	7,900	7,160	3,020	3,500	3,020
21	2,550	4,330	7,160	57,400	14,300	10,600	12,200	7,900	6,800	2,860	3,670	3,020
22	2,100	4,330	7,160	64,600	13,100	9,800	11,900	7,900	6,080	2,700	3,840	2,550
23	3,020	4,330	7,520	67,000	9,800	9,420	10,600	7,160	4,670	3,340	3,500	2,550
24	3,340	3,670	8,660	63,400	11,000	8,660	9,800	*6,440	4,670	3,340	3,340	2,550
25	3,340	3,340	9,420	61,000	13,100	9,000	8,660	5,360	5,010	3,500	2,700	2,700
26	3,500	3,670	9,800	57,400	13,500	10,600	8,660	5,010	5,010	3,500	2,400	2,700
27	3,670	4,160	8,660	55,600	12,200	17,900	8,280	5,720	4,670	3,500	3,400	2,860
28	2,700	4,330	8,280	54,400	17,400	32,500	7,900	6,440	4,670	2,860	2,550	2,550
29	2,250	3,340	9,420	51,200	35,000	10,200	6,440	4,160	*2,860	2,700	*2,550	2,550
30	3,180	3,020	10,600	47,300	-----	35,200	12,600	6,440	5,340	3,340	2,860	2,250
31	3,670	-----	11,400	38,000	-----	30,900	-----	6,080	-----	3,020	2,700	-----
Total	93,900	104,840	305,170	1,035,640	351,580	486,640	424,260	260,570	184,830	111,150	92,110	76,290
Mean	3,029	3,495	9,844	33,410	12,560	15,700	14,140	8,405	6,161	3,585	2,971	2,543
Cfsm	0.394	0.454	1.28	4.34	1.63	2.04	1.84	1.09	0.801	0.466	0.386	0.331
In.	0.45	0.51	1.48	5.01	1.70	2.35	2.05	1.26	0.89	0.54	0.45	0.37

Calendar year 1953: Max 69,800 Min 2,100 Mean 11,860 Cfsm 1.54 In. 20.93
Water year 1953-54: Max 68,400 Min 1,950 Mean 9,663 Cfsm 1.26 In. 17.06

* Discharge measurement made on this day.

Kelly Creek near Vincent, Ala.

Location.--Lat 33°26'50", long 86°23'15", in SW $\frac{1}{4}$ sec. 24, T. 18 S., R. 2 E., on downstream side of left pier of bridge on State Highway 25, 1 $\frac{1}{2}$ miles downstream from Little Creek, 4 $\frac{1}{4}$ miles north of Vincent, and 5 miles upstream from mouth.

Drainage area.--195 sq mi, approximately.

Records available.--November 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 404.09 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 7,190 cfs Jan. 17 (gage height, 17.88 ft); minimum, 1.6 cfs Sept. 29.
1951-54: Maximum discharge, 9,970 cfs Jan. 10, 1953 (gage height, 20.5 ft); minimum, that of Sept. 29, 1954.

Remarks.--Records good except those for period of backwater from Coosa River, which are fair.

Rating table, water year 1953-54, except period of backwater from Coosa River (gage height, in feet, and discharge, in cubic feet per second)

(Shifting-control method used July 28 to Sept. 30)

0.4	1.4	2.5	139
.6	2.8	3.0	242
.9	6.4	6.0	1,000
1.2	13	10.0	2,430
1.4	20	14.0	4,300
1.7	38	17.0	6,400
2.1	75		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.7	4.4	6.6	515	307	1,410	374	775	37	7.1	6.3	3.9
2	8.0	*3.9	6.1	420	274	858	307	515	37	7.1	6.0	5.8
3	6.4	3.9	12	362	255	694	263	397	82	28	5.8	*3.5
4	5.6	3.9	58	285	223	528	225	386	89	30	5.4	3.3
5	*5.4	3.9	50	252	198	420	200	270	45	16	6.4	3.3
6	5.4	4.0	35	217	177	374	196	208	56	13	7.3	2.7
7	5.0	4.3	53	185	165	518	185	171	51	11	6.6	2.7
8	5.0	4.3	41	165	147	285	169	155	28	20	6.4	2.4
9	4.5	4.3	*1,440	149	139	257	153	128	25	34	6.9	2.4
10	4.5	4.2	1,980	155	135	256	155	109	22	24	8.4	2.4
11	4.3	4.4	694	*283	145	217	124	94	22	16	12	2.4
12	4.2	4.3	1,310	221	169	200	120	88	22	11	10.0	2.4
13	4.2	4.3	1,030	175	131	190	106	88	20	9.7	8.2	2.5
14	4.0	4.3	1,090	165	116	238	102	111	19	8.4	6.9	2.7
15	4.0	4.4	830	236	*111	192	104	94	20	44	6.4	2.5
16	3.9	4.3	552	4,750	157	149	206	81	27	105	6.0	2.5
17	3.9	4.4	397	6,240	432	135	307	71	72	169	5.7	2.7
18	3.9	4.3	296	2,205	250	130	167	64	42	42	30	2.6
19	4.0	4.3	242	c1,000	200	159	124	62	51	24	45	2.6
20	4.0	4.9	217	c750	803	215	104	57	24	15	29	2.4
21	4.0	4.6	281	c980	1,180	159	94	50	*20	12	13	2.9
22	4.0	7.6	503	c2,100	694	*135	86	47	18	11	10.0	2.7
23	3.9	6.8	590	c1,900	515	126	82	43	16	11	9.1	2.4
24	3.9	11	420	*1,000	802	130	247	*41	15	48	7.7	2.2
25	3.8	12	340	*c820	694	120	215	58	15	48	7.1	2.2
26	3.8	9.7	283	c630	552	183	*165	37	14	24	6.3	2.2
27	5.3	8.4	236	c640	443	560	223	36	12	16	5.7	*2.0
28	4.8	8.2	261	c660	1,730	1,180	163	37	11	12	5.3	1.8
29	4.2	7.5	858	552	-	721	1,370	44	9.3	10.2	5.0	1.7
30	4.2	6.9	942	443	-----	552	1,520	43	8.0	*8.0	4.8	1.7
31	4.0	-----	694	362	-----	432	-----	44	-----	6.9	4.2	-----
Total	145.8	167.7	15,747.7	28,812	11,144	11,503	7,834	4,384	849.3	841.4	302.9	77.5
Mean	4.70	5.59	508	929	398	371	261	141	28.3	27.1	9.77	2.58
Cfsm	0.024	0.029	2.61	4.76	2.04	1.90	1.34	0.723	0.145	0.139	0.050	0.013
In.	0.03	0.03	3.00	5.49	2.13	2.19	1.49	0.84	0.16	0.16	0.06	0.01

Calendar year 1953: Max 9,580 Min 3.7 Mean 376 Cfsm 1.93 In. 26.19
Water year 1953-54: Max 6,240 Min 1.7 Mean 224 Cfsm 1.15 In. 15.59

Peak discharge (base, 5,000 cfs).--Jan. 17 (6 a.m.) 7,190 cfs (17.88 ft).

* Discharge measurement made on this day.

c Backwater from Coosa River; discharge estimated on basis of 1 discharge measurement and records for stations on nearby streams.

MOBILE RIVER BASIN

Talladega Creek near Talladega, Ala.

Location.--Lat 33°23'20", long 86°06'45", in SW¹ sec. 10, T. 19 S., R. 5 E., near right bank on downstream side of pier of highway bridge, half a mile upstream from Weisinger Branch, 2 miles upstream from U. S. Highway 241, 2½ miles downstream from Dry Creek, and 3¼ miles south of Talladega.

Drainage area.--110 sq mi.

Records available.--September 1952 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 500 ft (by barometer).

Extremes.--Maximum discharge during year, 950 cfs Jan. 22 (gage height, 4.58 ft); minimum daily, 1.4 cfs Sept. 25.

1952-54: Maximum discharge, 3,750 cfs Apr. 12, 1953 (gage height, 9.03 ft), from rating curve extended above 1,800 cfs by logarithmic plotting; minimum daily, that of Sept. 25, 1954.

Remarks.--Records good except those for period of no gage-height record, which are fair. Diurnal fluctuation at low flow caused by diversion of an average of 2.5 cfs for municipal water supply for city of Talladega.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.5	0.8	1.6	60
.6	2.3	2.0	114
.7	4.5	2.5	214
.9	11	3.0	350
1.2	26	4.0	700

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	13	19	122	72	236	116	140	21	8.8	5.0	3.1
2	21	13	19	100	70	171	100	120	37	8.1	5.6	*3.5
3	19	13	21	90	66	147	92	150	128	11	6.5	3.1
4	17	13	151	80	62	124	85	120	69	9.2	5.6	2.5
5	*17	*14	80	72	59	112	80	100	41	8.5	4.5	2.9
6	17	15	51	63	56	103	75	90	32	7.1	4.2	2.9
7	15	16	58	58	52	94	72	85	29	6.5	4.7	2.6
8	15	16	45	54	52	88	68	80	24	5.6	4.5	3.5
9	14	15	245	51	50	83	63	75	23	6.1	4.5	2.3
10	14	16	*300	50	50	79	58	70	23	5.9	4.5	1.9
11	14	15	116	61	54	75	57	65	22	7.1	4.5	2.1
12	14	16	269	53	68	72	56	62	20	5.9	4.2	2.1
13	14	15	145	50	52	69	52	66	21	5.3	4.0	2.5
14	13	16	205	*46	49	72	53	70	25	5.6	11	2.3
15	14	16	142	47	48	64	70	60	25	42	6.6	2.5
16	14	16	100	613	52	58	215	55	50	28	4.0	2.3
17	13	15	76	300	120	56	268	50	45	14	3.5	2.5
18	14	15	61	176	*84	58	151	45	35	11	4.5	2.5
19	12	15	52	136	71	*89	116	41	30	9.6	4.2	2.3
20	12	19	49	112	97	139	97	38	26	8.8	3.7	2.1
21	13	31	121	124	140	94	81	36	*24	7.1	3.5	2.5
22	12	29	155	587	104	80	74	33	22	7.1	3.3	2.5
23	11	64	191	380	91	76	68	31	22	60	3.1	1.8
24	11	30	122	224	390	72	79	30	20	40	11	1.6
25	9.9	30	95	167	255	70	76	*30	18	20	5.6	1.4
26	11	29	79	136	171	98	*72	27	16	13	3.5	1.6
27	13	23	67	122	136	288	83	25	13	10	3.3	1.9
28	16	21	62	106	309	400	70	24	13	8	3.5	*2.6
29	15	19	132	92	-	214	193	24	11	7	3.7	1.6
30	13	20	212	85	-----	167	160	24	9.2	*5.9	5.0	1.9
31	13	-----	163	79	-----	138	-----	23	-----	5.9	3.5	-----
Total	443.9	598	3,603	4,436	2,880	3,682	2,900	1,899	894.2	398.1	148.8	71.1
Mean	14.3	19.9	116	143	103	119	96.7	60.9	29.6	12.8	4.80	2.37
Cfsm	0.130	0.181	1.05	1.30	0.936	1.08	0.879	0.554	0.271	0.116	0.044	0.022
In.	0.15	0.20	1.22	1.50	0.97	1.24	0.98	0.64	0.30	0.13	0.05	0.02

Calendar year 1953: Max 2,230 Min 8.6 Mean 152 Cfsm 1.38 In. 18.73
 Water year 1953-54: Max 613 Min 1.4 Mean 60.1 Cfsm 0.546 In. 7.40

Peak discharge (base, 2,000 cfs).--No peak above base.

* discharge measurement made on this day.

Note.--No gage-height record Apr. 30 to May 24, June 11-20, July 23-29; discharge estimated on basis of records for stations on nearby streams.

Coosa River at Childersburg, Ala.

Location.--Lat 33°17', long 86°22', in NE¼ sec. 18, T. 20 S., R. 3 E., on downstream side of second masonry pier from right bank of Central of Georgia Railway bridge, 700 ft upstream from bridge on State Highway 91, half a mile downstream from Tallasseehathee Creek, and 1 mile northwest of Childersburg.

Drainage area.--8,390 sq mi, approximately.

Records available.--February 1914 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 382.45 ft above mean sea level, datum of 1929, supplementary adjustment of 1943 (levels by Alabama Power Co.). Prior to Oct. 1, 1915, at datum 0.10 ft lower.

Average discharge.--37 years (1917-54), 13,820 cfs.

Extremes.--Maximum discharge during year, 72,200 cfs Jan. 18 (gage height, 18.45 ft); minimum, 2,010 cfs Sept. 17 (gage height, 1.30 ft).
1914-54: Maximum discharge, 146,000 cfs Mar. 30, 31, 1951 (gage height, 30.1 ft); minimum, 1,300 cfs in September 1925.

Remarks.--Records good. Since December 1949, flow regulated by Allatoona Reservoir (see p. 241) and by hydroelectric plant on Etowah River.

Cooperation.--Records collected by Alabama Power Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Aug. 1 to Sept. 30)

1.2	2,010	12.0	40,000
2.0	3,800	19.0	75,400
5.0	12,100		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,550	4,160	3,510	13,400	33,600	23,300	26,400	14,000	6,080	3,610	3,120	2,690
2	4,770	4,160	3,550	12,700	22,100	22,500	23,600	13,700	5,680	5,030	3,010	2,610
3	4,040	4,160	3,100	11,800	14,400	22,100	24,400	12,400	6,750	5,810	2,960	2,540
4	3,630	3,540	4,040	10,300	14,000	20,900	24,400	11,200	9,120	5,550	2,740	2,670
5	3,510	2,920	4,900	8,560	14,000	19,400	24,000	10,600	11,600	4,770	2,580	2,830
6	3,220	3,170	5,160	7,720	13,000	16,800	22,100	12,700	14,000	4,280	2,610	2,740
7	3,030	4,040	5,160	7,440	13,000	14,400	17,500	14,400	11,500	4,040	2,980	2,800
8	2,890	4,160	4,770	8,000	12,700	12,400	16,100	13,000	8,560	3,800	3,050	2,690
9	2,980	4,400	6,750	8,000	12,100	11,200	15,700	11,200	6,580	3,660	3,030	2,430
10	3,380	4,280	16,400	8,000	9,700	10,300	15,000	9,990	6,080	4,280	2,990	2,200
11	3,580	3,470	18,600	8,560	9,990	9,990	14,000	9,120	6,080	4,400	2,780	2,430
12	3,580	2,870	20,500	10,300	11,500	9,990	13,700	7,580	5,940	4,040	2,610	2,940
13	3,780	3,150	21,700	9,410	11,500	9,990	12,100	7,440	5,420	4,280	1,610	3,050
14	3,380	4,040	20,900	8,840	11,500	10,300	10,300	8,000	5,160	3,920	5,810	2,890
15	2,890	4,040	*19,000	9,700	11,500	12,400	9,990	8,000	5,030	3,800	4,770	2,650
16	3,050	4,040	16,800	29,200	11,200	13,700	11,500	9,120	5,030	3,800	*3,680	2,240
17	3,800	4,040	15,000	66,300	10,300	14,400	13,000	10,300	5,030	3,800	2,980	2,050
18	4,160	3,510	13,000	71,200	10,900	14,700	13,400	9,410	6,210	3,700	2,760	2,610
19	4,280	2,920	11,200	83,900	11,800	14,000	13,700	8,000	6,750	3,920	2,780	3,120
20	3,800	3,050	9,410	57,800	13,000	12,400	13,400	8,000	7,720	3,800	2,960	3,120
21	3,280	3,920	8,560	55,200	16,400	11,500	13,000	8,560	7,720	3,510	3,800	3,190
22	2,830	4,280	8,840	62,900	15,400	10,900	12,700	8,560	*6,880	3,220	3,920	2,980
23	2,940	4,520	9,410	68,600	12,100	10,300	11,800	8,000	5,420	3,440	3,780	2,650
24	3,750	4,520	9,410	64,900	12,100	9,700	10,900	7,440	4,900	4,400	3,610	2,450
25	3,800	3,600	10,900	*61,400	15,000	9,990	10,300	6,620	5,420	4,160	3,350	2,650
26	4,040	3,310	10,900	57,600	15,000	*11,200	9,990	5,680	5,420	4,040	2,870	2,670
27	4,400	3,800	10,300	54,700	14,000	16,000	9,410	5,680	5,030	4,040	2,650	2,850
28	3,560	4,520	9,410	53,700	17,200	28,400	8,840	6,620	4,770	3,700	2,690	2,870
29	2,870	4,280	10,300	50,700	-	34,500	11,500	7,020	4,520	3,350	2,690	2,670
30	2,940	3,700	12,400	46,800	-	34,500	15,000	7,020	3,800	3,350	2,830	2,650
31	3,920	-	12,700	41,900	-	30,900	-	6,880	-	3,610	3,080	-
Total	111,630	114,770	336,380	1,049,730	368,990	503,060	447,730	286,240	198,700	125,090	99,490	81,930
Mean	3,601	3,826	10,850	33,860	13,890	16,230	14,920	9,234	6,623	4,035	3,209	2,731
Cfs/m	0.429	0.456	1.29	4.04	1.66	1.93	1.78	1.10	0.789	0.481	0.382	0.326
In.	0.49	0.51	1.49	4.65	1.72	2.23	1.98	1.27	0.88	0.55	0.44	0.36

Calendar year 1953: Max 82,900 Min 2,720 Mean 12,900 Cfs/m 1.54 In. 20.88
Water year 1953-54: Max 71,200 Min 2,050 Mean 10,260 Cfs/m 1.22 In. 16.57

* Discharge measurement made on this day.

Yellowleaf Creek near Wilsonville, Ala.

Location.--Lat 33°18', long 86°33', in NW¼ sec. 9, T. 20 S., R. 1 E., on upstream side of right pier of highway bridge, 3¼ miles south of State Highway 91, 4 miles upstream from Muddy Prong, and 6 miles northwest of Wilsonville.

Drainage area.--97 sq mi, approximately.

Records available.--December 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 430.56 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 1,050 cfs Jan. 17 (gage height, 11.3 ft); minimum daily, 0.1 cfs Sept. 6-16.

1950-54: Maximum discharge, 19,300 cfs Mar. 29, 1951 (gage height, 23.85 ft), from rating curve extended above 5,700 cfs on basis of velocity-area study; no flow July 31, Aug. 1, 3-6, 1952.

Remarks.--Records good above 30 cfs, fair between 10 and 30 cfs, and poor below 10 cfs.

Rating table, water year 1953-54, except period of indefinite stage-discharge relation (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 5, Oct. 26 to Dec. 8, Mar. 31 to Apr. 28, May 2-25)

2.9	0	3.5	13
3.0	.6	3.9	36
3.1	1.7	4.5	84
3.2	3.3	7.0	378
3.3	5.6	12.0	1,170

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a1.9	1.8	2.6	233	119	776	204	233	15	1.3	0.5	0.5
2	a1.6	*2.1	2.4	192	107	540	160	170	51	7.4	.5	.4
3	a1.4	2.3	4.6	165	101	378	138	132	87	11	.8	*.3
4	a1.3	2.0	13	143	91	264	118	154	56	5.9	1.0	.3
5	*1.2	1.3	16	123	82	209	102	106	31	4.3	1.2	.3
6	1.2	1.1	13	117	74	176	90	78	22	3.3	2.4	.1
7	1.2	1.1	16	89	66	154	81	64	16	2.4	2.6	.1
8	1.1	1.2	14	77	60	133	72	64	13	2.6	1.6	.1
9	1.1	1.2	*368	71	56	120	64	53	11	2.6	1.6	.1
10	1.1	1.3	570	71	55	106	56	43	8.3	2.1	2.3	.1
11	1.1	1.7	233	*108	54	98	51	37	7.6	1.7	2.8	.1
12	1.1	1.8	435	92	63	88	46	35	8.3	1.8	2.9	.1
13	1.1	1.2	392	71	50	81	42	33	7.6	1.8	2.4	.1
14	1.1	1.1	435	66	44	103	39	35	6.3	1.8	1.8	.1
15	1.0	1.1	392	83	*43	80	37	40	5.1	2.4	1.3	.1
16	1.0	1.1	257	792	44	59	52	34	4.6	4.3	1.0	.1
17	1.0	1.1	182	1,030	84	54	165	29	6.4	2.6	.9	.2
18	1.0	1.1	138	744	68	52	84	23	10.0	1.7	1.1	.3
19	1.0	1.1	109	435	54	83	56	a19	5.9	1.4	2.3	.4
20	1.0	1.4	94	302	356	121	46	a18	4.3	1.4	2.9	.4
21	1.0	1.6	112	406	616	82	40	a16	*4.3	1.2	3.5	.7
22	1.0	2.4	245	712	364	*64	35	a14	4.1	1.0	2.4	3.1
23	1.0	3.3	296	680	245	58	32	13	4.1	1.0	2.0	3.3
24	1.0	4.9	209	495	392	58	88	*12	3.9	1.3	1.7	2.0
25	1.1	5.6	165	350	392	55	a170	11	3.5	1.8	1.4	1.2
26	1.3	4.9	138	270	296	88	*125	9.4	2.8	1.7	1.3	.9
27	2.0	3.7	113	233	227	331	82	9.0	2.0	1.4	1.2	*.4
28	2.4	3.5	115	221	686	646	74	16	1.7	1.3	1.0	.3
29	2.4	3.3	290	182	-	465	406	35	1.4	1.1	.8	.3
30	2.0	3.3	378	154	-	378	486	26	1.3	*.8	.7	.5
31	1.8	-----	302	133	-----	270	-----	19	-----	*.6	.5	-----
Total	40.5	64.6	6,049.6	8,840	4,889	6,174	3,233	1,630.4	405.5	98.6	50.4	16.9
Mean	1.31	2.15	195	285	175	199	108	52.6	13.5	3.18	1.63	0.56
Cfsm	0.014	0.022	2.01	2.94	1.80	2.05	1.11	0.542	0.139	0.033	0.017	0.0058
In.	0.02	0.02	2.32	3.39	1.87	2.37	1.24	0.63	0.16	0.04	0.02	0.006
Calendar year 1953: Max			3,030		Min 1.0	Mean 200	Cfsm 2.06	In. 27.99				
Water year 1953-54: Max			1,030		Min 0.1	Mean 86.3	Cfsm 0.890	In. 12.09				

Peak discharge (base, 1,500 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and records for stations on nearby streams.

Note.--Stage-discharge relation indefinite Oct. 6-25; discharge estimated on basis of records for stations on nearby streams.

Hatchet Creek near Rockford, Ala.

Location.--Lat 32°57', long 86°13', in NW¼ sec. 31, T. 23 N., R. 19 E., near left bank on downstream side of pier of highway bridge, 1 mile downstream from State Highway 11, 1½ miles downstream from Socapatoy Creek, and 4 miles north of Rockford.

Drainage area.--225 sq mi.

Records available.--October 1944 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 450 ft (from topographic map). Prior to Dec. 9, 1944, wire-weight gage at same site and datum.

Average discharge.--10 years, 381 cfs.

Extremes.--Maximum discharge during year, 2,870 cfs Apr. 16 (gage height, 8.1 ft); minimum, 10 cfs Sept. 21-30; minimum gage height, -0.53 ft Sept. 22-30.
1944-54: Maximum discharge, 22,800 cfs Jan. 6, 1946 (gage height, 24.9 ft); minimum, that of Sept. 21-30, 1954.

Remarks.--Records good except those above 2,000 cfs, which are fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 9

Dec. 10 to Sept. 30

0.3	64	-0.6	7	0.8	158
.9	142	-.5	11	2.0	436
1.5	252	-.2	30	4.0	1,080
3.0	670	.2	69	6.0	1,870
5.0	1,420				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	136	84	96	352	252	565	369	450	150	51	44	19
2	130	82	96	306	246	422	344	356	195	56	38	17
3	122	81	188	286	239	*369	308	356	369	56	33	16
4	111	82	1,050	263	228	332	286	408	263	54	31	15
5	*105	88	328	250	222	303	268	*296	175	53	29	15
6	109	90	238	235	218	284	268	261	151	50	31	13
7	106	86	222	220	212	266	*261	239	138	43	54	13
8	99	87	175	214	205	254	243	*122	243	39	34	13
9	98	87	926	208	205	248	239	228	116	47	31	15
10	97	86	1,080	205	203	239	226	216	112	142	35	18
11	94	86	464	216	212	233	222	205	177	69	28	14
12	92	86	809	203	218	228	218	208	156	52	23	13
13	90	86	625	191	205	224	208	259	171	*46	19	13
14	86	86	818	189	197	231	305	263	127	43	29	12
15	87	86	550	195	197	212	331	226	112	235	36	12
16	87	87	395	612	205	199	1,460	205	187	110	26	11
17	86	86	320	580	356	197	821	195	109	82	21	12
18	84	86	270	369	268	197	464	187	146	64	74	12
19	81	87	246	308	237	*711	356	228	136	62	85	12
20	81	115	233	279	369	513	306	189	112	61	81	11
21	*78	128	*395	398	436	332	275	175	96	49	148	10
22	70	189	565	1,010	320	275	254	168	89	63	69	10
23	75	*214	700	852	282	259	243	158	82	203	*42	10
24	75	144	450	535	792	252	492	155	110	166	35	10
25	73	145	356	422	640	241	478	150	88	105	29	10
26	74	124	301	356	436	356	344	146	77	77	26	10
27	95	111	266	*382	355	*1,250	303	143	70	63	24	10
28	94	99	279	369	647	*1,400	286	144	63	51	24	10
29	86	96	436	306	-	700	1,080	143	58	47	25	10
30	84	94	520	286	-----	535	685	141	52	42	22	10
31	82	-----	408	268	-----	450	-----	134	-----	38	19	-----
Total	2,971	3,088	13,805	10,845	8,603	12,277	11,954	6,875	4,009	2,319	1,245	376
Mean	92.6	103	445	350	307	396	398	222	134	74.8	40.2	12.5
Cfsm	0.412	0.459	1.98	1.56	1.36	1.76	1.77	0.987	0.596	0.332	0.179	0.058
In.	0.47	0.51	2.28	1.79	1.42	2.03	1.98	1.14	0.66	0.38	0.21	0.06

Calendar year 1953: Max 5,240 Min 65 Mean 493 Cfsm 2.19 In. 29.74

Water year 1953-54: Max 1,460 Min 10 Mean 214 Cfsm 0.951 In. 12.93

Peak discharge (base, 3,500 cfs).--No peak above base.

* Discharge measurement made on this day.

MOBILE RIVER BASIN

Weogufka Creek near Weogufka, Ala.

Location.--Lat 32°59', long 86°18', in NE $\frac{1}{4}$ sec. 18, T. 23 N., R. 18 E., near right bank on downstream side of pier of highway bridge, 2 miles south of Weogufka and 6 miles upstream from Phinikochika Creek.

Drainage area.--74 sq mi, approximately.

Records available.--December 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 593.08 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 838 cfs Mar. 27 (gage height, 7.20 ft); no flow Sept. 29, 30.

1950-54: Maximum discharge, 24,200 cfs Mar. 29, 1951 (gage height, 16.8 ft); no flow Sept. 29, 30, 1954.

Remarks.--Records good except those below 10 cfs, which are fair, and those for periods of doubtful gage height record, which are poor.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Jan. 22				Jan. 23 to Sept. 30			
2.3	5.0	3.5	96	1.7	0	2.7	30
2.5	13	4.0	158	1.8	1.2	3.0	54
2.7	24	5.0	318	2.0	4.2	3.5	103
3.0	46	6.0	514	2.3	9.6	4.5	232
				2.5	18	6.0	514

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	10	17	76	69	170	95	76	24	7.5	4.2	2.4
2	18	10	16	71	68	120	85	63	35	7.5	3.9	2.3
3	16	9.9	38	63	66	*102	79	66	59	7.7	3.3	2.3
4	14	9.9	202	58	61	88	75	73	48	7.5	3.2	2.1
5	*14	11	67	55	59	79	69	*54	27	7.2	3.0	2.1
6	14	12	52	50	58	75	68	48	22	6.8	5.6	2.0
7	13	12	52	46	56	70	*67	44	20	6.3	6.6	2.0
8	13	12	35	44	52	68	65	43	*18	5.8	4.2	2.0
9	12	12	384	44	54	67	60	40	15	6.0	5.0	1.8
10	12	12	390	44	53	65	58	39	48	7.4	6.7	1.8
11	11	13	106	50	57	63	57	36	72	7.0	4.2	1.8
12	10	13	336	43	55	61	55	37	25	6.0	3.3	1.7
13	9.9	13	173	39	50	59	50	39	22	*5.3	3.2	1.5
14	9.9	12	274	38	50	58	64	43	16	4.7	3.2	1.4
15	9.5	13	154	41	50	52	68	40	27	7.8	3.2	1.3
16	9.9	13	98	296	59	50	444	37	84	16	3.0	1.2
17	9.5	13	73	124	144	49	214	33	26	9.6	2.9	1.1
18	9.0	13	60	81	72	50	107	32	28	7.9	3.2	1.0
19	9.0	13	53	68	61	145	83	45	24	8.1	5.8	.9
20	8.6	28	52	61	146	*125	69	34	18	7.4	5.5	.8
21	*7.9	35	*103	125	146	79	63	29	14	6.5	5.0	.7
22	7.9	43	170	481	89	67	58	27	13	6.2	4.4	.6
23	7.5	*50	150	232	76	63	54	25	12	36	*2.9	.5
24	9.0	29	89	140	291	61	55	24	61	35	2.7	.4
25	8.6	25	71	111	163	59	59	22	21	14	2.6	.3
26	7.2	22	61	95	116	143	*52	22	14	8.9	2.6	.2
27	9.0	19	58	*126	95	412	54	21	11	7.5	2.6	.1
28	11	16	62	120	297	485	55	22	9.8	6.5	2.6	.1
29	11	16	145	89	-	176	284	22	9.1	5.8	2.6	0
30	9.5	16	150	84	-----	139	131	21	8.1	5.0	2.4	0
31	9.9	-----	100	76	-----	114	-----	20	-----	4.5	2.4	-----
Total	338.8	525.8	3,791	3,071	2,613	3,414	2,797	1,177	831.0	355.6	116.0	36.4
Mean	10.9	17.5	122	99.1	93.3	110	93.2	38.0	27.7	11.5	3.74	1.21
Cfsm	0.147	0.236	1.65	1.34	1.26	1.49	1.26	0.514	0.374	0.155	0.051	0.016
In.	0.17	0.26	1.91	1.54	1.31	1.72	1.41	0.59	0.42	0.18	0.06	0.02

Calendar year 1953: Max 1,950 Min 3.4 Mean 144 Cfsm 1.95 In. 26.49
 Water year 1953-54: Max 485 Min 0 Mean 52.2 Cfsm .705 In. 9.59

Peak discharge (base, 2,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Note.--Doubtful gage-height record Sept. 13-30; discharge estimated on basis of weather records and records for stations on nearby streams.

Sofkahatchee Creek near Wetumpka, Ala.

Location.--Lat 32°41', long 86°07', in NW¼ sec. 36, T. 20 N., R. 19 E., near right bank on upstream side of pier of bridge on county highway, 2 miles west of Central and 11 miles northeast of Wetumpka.

Drainage area.--5.1 sq mi, approximately.

Records available.--October 1953 to September 1954.

Gage.--Water-stage recorder. Concrete control since Oct. 24, 1953. Altitude of gage is 440 ft (by barometer).

Extremes.--Maximum discharge during year, 258 cfs June 2 (gage height, 3.28 ft); minimum daily, 0.02 cfs Sept. 25.

Maximum stage since Oct. 4, 1951, 6.35 ft Apr. 30, 1953 (discharge, 802 cfs).

Remarks.--Records good except those below 0.5 cfs, which are fair, and those for periods June 27 to July 14, July 29 to Aug. 6, Aug. 30 to Sept. 6, and for period of no gage-height record, which are poor.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 27 to July 14, July 29 to Aug. 6)

Oct. 1-23

Oct. 24 to Sept. 30

0.2	0.8	0.4	0.02	0.9	4.6
.3	2.1	.5	.22	1.1	10
.4	4.0	.6	.76	1.4	24
		.7	1.7	1.6	37
		.8	3.0		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*3.8	1.7	2.0	6.2	*4.3	9.7	6.4	5.9	2.6	1.7	0.76	0.06
2	3.5	*1.7	2.0	5.7	4.3	7.9	5.9	5.2	1.4	2.0	.69	.06
3	3.4	1.6	12	5.5	4.3	6.7	5.7	9.0	*8.5	1.9	.69	.06
4	3.2	1.7	*3.3	5.0	4.3	5.9	5.2	6.2	4.1	1.8	.69	.08
5	3.0	1.9	7.9	5.5	4.1	5.5	5.2	5.2	3.5	2.6	.69	.06
6	3.0	1.8	8.5	4.8	4.1	5.2	5.2	4.6	3.0	3.2	*.62	.10
7	2.8	1.8	5.9	4.6	4.0	5.0	*4.8	4.3	2.7	2.7	.62	.04
8	2.8	1.8	5.0	4.6	4.0	5.0	4.6	4.1	2.7	3.8	.62	.15
9	2.8	1.8	15	4.5	4.0	4.8	4.3	4.1	2.6	3.5	.62	.22
10	2.8	1.8	9.7	4.6	4.0	4.8	4.3	4.1	2.4	1.4	.55	.12
11	a2.6	1.8	7.0	4.3	4.0	4.6	4.3	4.1	2.4	.84	.38	.08
12	a2.5	1.8	24	*4.3	3.8	4.6	4.1	4.1	3.6	.76	.34	.03
13	a2.4	1.9	21	4.1	3.8	6.2	4.1	6.6	2.8	.62	.30	.03
14	a2.3	1.9	22	4.1	3.8	5.7	4.1	*5.0	2.3	.92	.30	.03
15	a2.2	1.9	12	4.4	3.8	4.8	4.1	4.3	2.0	4.1	.30	.03
16	a2.1	1.9	8.8	8.6	4.3	4.5	25	4.1	2.0	1.6	.30	.10
17	a2.0	1.9	7.9	5.2	4.1	*4.6	8.2	3.8	2.0	1.4	.34	.30
18	a1.9	1.9	*5.9	4.8	4.0	4.6	5.9	3.8	2.4	2.0	.72	.26
19	a1.8	1.9	5.5	4.6	4.0	*14	5.2	3.8	2.1	1.4	.62	.12
20	a1.8	2.7	5.7	4.6	17	8.8	4.8	3.5	1.9	1.1	.58	.04
21	a1.8	2.1	7.3	5.3	8.5	6.7	4.5	3.3	1.7	1.0	.58	.04
22	a1.7	3.9	13	8.4	6.4	5.9	4.3	3.3	1.6	*1.2	.34	*.03
23	a1.7	2.6	9.4	6.4	5.7	5.9	*4.7	3.2	1.4	2.9	.30	.03
24	1.7	2.5	7.6	4.9	*12	5.5	37	3.0	1.4	1.8	.22	.03
25	1.6	2.7	6.4	5.5	8.5	5.2	9.7	2.7	*1.4	1.3	.18	.02
26	1.6	2.3	5.9	5.2	7.0	9.4	7.3	2.8	1.3	1.4	.15	.03
27	*2.4	2.3	5.2	5.2	6.4	15	6.2	2.8	1.2	1.2	*.12	.03
28	1.8	2.1	5.9	4.8	20	13	5.5	2.8	1.7	1.0	.12	.03
29	1.7	2.3	9.1	4.6	--	9.4	13	3.0	1.4	.76	.12	.03
30	1.7	*2.1	8.2	4.8	-----	8.5	7.6	2.7	1.4	.69	.12	.03
31	1.7	-----	6.7	4.5	-----	7.6	-----	2.6	-----	.69	.08	-----
Total	72.2	62.1	304.6	160.6	168.5	215.0	221.2	128.0	84.1	53.08	12.66	2.27
Mean	2.33	2.07	9.83	5.18	6.02	6.94	7.37	4.13	2.80	1.71	0.408	0.076
Cfsm	0.457	0.406	1.93	1.02	1.18	1.36	1.45	0.810	0.549	0.335	0.080	0.015
In.	0.53	0.45	2.22	1.17	1.23	1.57	1.61	0.93	0.61	0.39	0.09	0.02

Calendar year 1953: Max - Min - Mean - Cfsm - In. -
Water year 1953-54: Max 37 Min 0.02 Mean 4.07 Cfsm 0.798 In. 10.82

Peak discharge (base, 400 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage, weather records, and records for stations on nearby streams.

Coosa River at Jordan Dam, near Wetumpka, Ala.

Location.--Lat 32°37', long 86°15', in S½ sec. 22, T. 19 N., R. 18 E., on right bank half a mile downstream from Jordan Dam, 4 miles upstream from Corn Creek, 5½ miles northwest of Wetumpka, and 12 miles upstream from confluence with Tallapoosa River.

Drainage area.--10,200 sq mi, approximately.

Records available.--July 1912 to September 1914, December 1925 to September 1954. Prior to October 1936, published as "at lock 18, near Wetumpka."

Gage.--Water-stage recorder. Datum of gage is 141.6 ft above mean sea level (levels by Alabama Power Co.). July 1912 to September 1914 staff gage at site a quarter of a mile upstream at different datum.

Average discharge.--30 years (1912-14, 1926-54), 16,150 cfs.

Extremes.--Maximum discharge during year, 80,000 cfs Jan. 22 (gage height, 21.8 ft); minimum daily, 120 cfs Sept. 18.

1912-14, 1925-54: Maximum discharge, 298,000 cfs Apr. 8, 1938 (gage height, 46.4 ft), computed on basis of powerplant records and flow over spillway; minimum daily, 54 cfs Oct. 15, 1938.

Remarks.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by several upstream reservoirs (see p. 241) and hydroelectric plants.

Cooperation.--Records collected by Alabama Power Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

2.1	116	6.0	2,700
2.4	152	7.0	4,400
2.8	264	9.0	9,540
3.4	528	11.0	17,000
4.0	862	16.0	43,500
5.0	1,560	21.0	74,700

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,070	2,840	4,530	16,000	42,000	28,700	32,900	18,800	9,370	3,480	3,990	1,760
2	6,320	3,840	3,470	14,700	31,400	28,800	28,100	12,000	7,860	3,170	3,910	3,100
3	4,290	4,430	8,130	13,400	23,800	27,200	27,400	17,500	7,000	6,030	2,770	3,600
4	2,670	5,600	11,000	13,100	18,400	26,000	28,600	15,600	8,480	5,240	1,450	135
5	2,990	3,850	6,490	9,170	19,200	24,700	26,600	13,400	11,400	3,990	2,070	2,030
6	3,710	2,930	3,850	6,980	18,900	22,400	26,900	17,400	9,880	4,260	1,740	4,460
7	2,730	3,280	7,590	6,530	15,100	20,900	24,500	15,600	11,500	5,470	121	5,080
8	4,090	2,550	6,310	10,200	15,600	17,000	20,800	14,200	11,700	3,540	3,220	2,520
9	4,300	4,240	12,600	7,440	14,300	17,600	20,700	7,640	9,920	4,540	4,800	2,170
10	3,860	4,630	20,900	10,700	14,900	18,400	19,600	12,000	9,820	4,560	3,450	4,390
11	*2,460	4,320	21,200	13,200	12,900	19,200	20,300	11,600	9,140	3,660	4,850	140
12	3,460	4,580	24,300	9,890	14,300	18,800	17,100	10,900	6,410	4,070	5,730	2,410
13	4,310	3,420	28,900	12,200	12,100	11,500	16,700	8,120	4,870	5,450	5,930	3,830
14	3,950	3,580	29,400	10,900	10,500	9,260	14,500	8,900	6,700	3,710	3,720	3,200
15	1,870	3,150	27,100	10,200	11,200	13,300	14,500	8,730	5,250	5,470	3,600	1,580
16	4,950	4,390	23,400	19,800	13,000	16,100	18,000	a4,780	5,070	3,050	5,820	1,260
17	3,060	4,460	22,300	44,300	15,600	15,900	20,300	a10,500	6,050	3,960	4,840	2,720
18	2,580	3,780	21,000	74,600	14,700	16,200	20,300	a15,400	7,140	4,360	3,660	120
19	5,050	3,910	19,600	*67,700	12,800	18,500	17,000	a11,100	7,880	5,940	4,320	2,030
20	5,450	3,460	17,000	61,200	14,400	18,700	16,600	8,800	6,860	4,270	3,040	4,180
21	3,520	a3,410	16,700	57,200	20,500	16,300	16,600	10,200	8,120	2,280	122	5,160
22	4,080	a2,630	15,900	68,000	17,700	*16,700	17,000	6,200	6,660	2,130	2,160	2,770
23	2,630	a5,600	17,000	72,800	16,500	13,100	16,300	4,900	5,410	2,360	5,910	3,900
24	3,350	a5,120	17,000	71,600	20,300	12,500	13,000	9,530	4,200	4,370	4,680	4,330
25	2,840	a4,550	15,700	63,300	20,000	11,900	7,430	9,310	7,160	3,700	2,780	*229
26	4,200	5,780	15,700	61,100	19,200	12,900	11,200	7,100	5,820	4,820	3,800	1,870
27	5,120	6,250	10,600	58,800	17,000	16,400	11,600	5,760	4,830	5,290	2,860	4,310
28	5,130	3,470	12,000	54,700	19,600	18,900	12,800	9,300	*4,720	4,780	1,48	2,750
29	3,610	3,040	13,200	54,900	32,600	14,000	5,730	4,540	4,290	4,290	2,430	2,350
30	1,670	4,420	14,800	51,200	-----	39,600	16,800	5,450	3,360	2,720	3,740	857
31	3,410	-----	17,000	48,000	-----	38,600	-----	5,830	-----	3,700	1,620	-----
Total	118,730	122,620	484,930	1,093,810	495,900	618,660	568,130	322,480	217,120	128,660	103,281	79,241
Mean	3,830	4,087	15,640	35,280	17,710	19,960	18,940	10,400	7,237	4,150	3,332	2,641
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-

Calendar year 1953: Max 96,500 Min 1,670 Mean 16,480 Cfsm 1.62 In. 21.93
 Water year 1953-54: Max 74,600 Min 120 Mean 11,930 Cfsm 1.17 In. 15.87

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Jordan Dam hydroelectric plant.

Tallapoosa River near Heflin, Ala.

Location.--Lat 33°37', long 85°31', in NE $\frac{1}{4}$ sec. 19, T. 16 S., R. 11 E., on right bank on downstream side of pier of highway bridge, 2 $\frac{1}{4}$ miles upstream from Cane Creek and 4 miles southeast of Heflin.

Drainage area.--444 sq mi.

Records available.--July 1952 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 830 ft (by barometer).

Extremes.--Maximum discharge during year, 7,020 cfs Jan. 18 (gage height, 19.00 ft); minimum, 14 cfs Sept. 30 (gage height, 1.43 ft).
1952-54: Maximum discharge, 8,110 cfs Jan. 10, 1953 (gage height, 20.4 ft); minimum, that of Sept. 30, 1954.

Remarks.--Records good except those for periods of no gage-height record, which are poor.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

1.4	12	4.0	483
1.7	36	8.0	1,860
2.1	86	14.0	4,450
3.0	242	19.0	7,020

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	151	114	148	576	570	1,100	660	483	242	88	72	(*)
2	134	111	146	483	520	900	600	412	642	92	76	
3	126	107	179	426	480	750	560	513	608	89	71	
4	119	*109	724	399	450	850	520	*1,830	544	88	68	
5	115	109	692	360	430	580	490	943	386	89	62	
6	109	112	426	348	410	530	470	576	292	82	59	
7	109	111	360	324	390	500	450	468	252	76	60	
8	103	114	302	302	380	490	430	454	232	76	57	
9	*107	107	685	302	370	460	420	426	219	131	55	
10	111	111	1,720	302	360	430	410	399	196	129	58	
11	101	115	758	313	360	410	400	373	191	109	54	
12	104	112	708	324	360	400	390	348	182	88	51	
13	103	114	741	*313	350	400	380	360	183	78	49	
14	98	112	*875	281	350	430	380	576	189	79	49	
15	98	114	858	302	350	460	370	658	240	420	42	
16	98	114	560	3,380	400	410	700	528	281	395	39	
17	100	115	426	5,670	600	380	1,200	426	386	232	59	
18	96	119	348	6,720	*560	400	1,000	386	528	194	57	
19	101	114	313	1,790	440	450	800	373	302	146	55	
20	98	151	302	841	412	600	630	360	240	120	200	
21	104	165	348	1,450	600	540	500	324	209	104	500	
22	107	187	498	*2,890	540	480	450	313	187	106	300	
23	100	313	741	*3,110	500	440	400	292	167	624	150	
24	101	292	576	1,330	600	420	500	271	*153	399	110	
25	98	227	440	943	800	*399	700	261	142	232	80	
26	98	214	373	800	650	483	630	252	136	*155	70	
27	101	183	336	700	580	807	570	*240	122	119	60	
28	120	167	336	650	800	1,720	680	238	112	107	52	
29	126	151	576	900	-	1,150	800	240	107	96	48	
30	127	148	909	750	-----	800	*592	240	104	96	45	
31	119	-----	724	630	-----	750	-----	221	-----	80	43	(*)
Total	3,382	4,312	17,128	38,109	13,612	18,809	17,082	13,784	7,775	4,919	2,751	900
Mean	109	144	553	1,229	486	607	569	445	259	159	88.7	30.0
Cfsm	0.245	0.324	1.25	2.77	1.09	1.37	1.28	1.00	0.583	0.358	0.200	0.068
In.	0.28	0.36	1.43	3.19	1.14	1.57	1.43	1.15	0.65	0.41	0.23	0.08

Calendar year 1953: Max 7,930 Min 50 Mean 627 Cfsm 1.41 In. 19.16
Water year 1953-54: Max 6,720 Min - Mean 391 Cfsm 0.881 In. 11.93

Peak discharge (base, 3,500 cfs).--Jan. 18 (6 a.m.) 7,020 cfs (19.00 ft); Jan. 23 (8 a.m.) 3,730 cfs (12.44 ft).

* Discharge measurement made on this day.

Note.--No gage-height record Jan. 26 to Feb. 17, Feb. 21 to Mar. 24, Mar. 30 to Apr. 29, Aug. 19 to Sept. 30; discharge estimated on basis of records for stations on same and nearby streams.

Little Tallapoosa River at Carrollton, Ga.

Location.--Lat 33°36', long 85°05', on left bank at city water-pumping plant 200 ft downstream from bridge on U. S. Highway 27 at Carrollton, Carroll County, 1 mile upstream from Central of Georgia Railroad, and 3½ miles upstream from Buck Creek.

Drainage area.--89 sq mi, approximately.

Records available.--March 1937 to September 1954.

Gage.--Staff gage read twice daily. Datum of gage is 971.25 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--17 years, 134 cfs.

Extremes.--Maximum discharge during year, 1,620 cfs Jan. 17 (gage height, 10.6 ft, from graph based on gage readings); minimum daily, 0.5 cfs Sept. 24, 25.
1937-54: Maximum discharge observed, 6,010 cfs Nov. 29, 1948 (gage height, 19.3 ft); minimum daily, that of Sept. 24, 25, 1954.
Flood of Feb. 1, 1936, reached a stage of 18.15 ft, from floodmark (discharge, 5,450 cfs).

Remarks.--Records fair except those for period of indefinite stage-discharge relation, which are poor.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	61	23	37	120	109	280	132	104	39	14	16	2.5
2	52	23	37	99	104	294	120	79	39	14	10	*2.5
3	45	23	39	89	99	183	109	79	70	19	7.5	1.2
4	41	23	167	89	99	132	99	109	84	16	5.0	1.0
5	37	23	145	79	94	120	99	99	65	15	*8.0	.8
6	*35	25	159	*79	89	109	89	74	47	15	5.0	.8
7	35	25	109	70	89	104	89	65	39	13	5.0	1.0
8	31	25	89	70	89	99	89	58	35	14	4.6	1.8
9	30	26	94	70	84	94	99	58	31	50	5.2	9.6
10	30	25	104	70	79	94	89	54	33	27	8.4	13
11	30	25	114	79	84	94	89	52	30	16	8.7	13
12	28	26	175	70	84	89	79	*47	28	14	5.4	14
13	28	26	175	70	79	89	79	58	26	15	*4.2	12
14	26	27	280	61	79	109	89	94	37	12	2.5	4.4
15	26	26	254	70	79	114	89	99	31	23	3.6	2.3
16	26	27	192	324	84	104	132	89	33	26	4.0	2.3
17	26	27	120	1,300	126	94	192	70	35	18	2.9	*1.6
18	26	*28	99	785	*120	84	230	61	35	18	*2.1	2.5
19	24	30	79	308	109	104	120	61	31	16	7.5	1.8
20	24	33	79	175	126	145	99	56	28	14	14	1.1
21	24	47	89	210	192	152	79	52	25	11	16	1.2
22	23	61	99	530	183	114	70	47	23	12	14	1.1
23	23	74	109	560	126	104	70	43	*23	16	7.8	.8
24	23	61	109	340	126	99	79	41	21	31	6.0	.5
25	23	61	99	210	120	94	109	39	19	19	4.6	.5
26	22	52	79	152	120	109	145	37	19	13	4.0	.8
27	22	45	79	145	104	167	104	37	18	11	4.0	1.6
28	22	41	70	167	167	340	79	37	17	9.3	4.0	2.9
29	23	37	137	175	-	378	120	37	16	7.8	4.0	2.7
30	23	35	132	132	-	230	132	50	15	8.1	4.0	2.1
31	22	-	145	120	-	*145	-	41	-	11	3.8	-
Total	909	1,032	3,694	6,818	3,043	4,467	3,199	1,927	992	516.2	199.8	102.8
Mean	29.3	34.4	119	220	109	144	107	62.2	33.1	16.7	6.45	3.45
Cfs/m	0.329	0.387	1.34	2.47	1.22	1.62	1.20	0.699	0.372	0.188	0.072	0.039
In.	0.36	0.43	1.53	2.85	1.27	1.87	1.34	0.81	0.42	0.22	0.08	0.04

Calendar year 1953: Max 2,330 Min 17 Mean 143 Cfs/m 1.61 In. 21.82

Water year 1953-54: Max 1,300 Min 0.5 Mean 73.6 Cfs/m 0.827 In. 11.24

Peak discharge (base, 1,500 cfs).--Jan. 17 (1 p.m.) 1,620 cfs (10.6 ft).

* Discharge measurement made on this day.

Note.--Stage-discharge relation affected by water-pumping plant operation Aug. 1 to Sept. 30; discharge estimated on basis of 5 discharge measurements, observer's notes, and records for stations on nearby streams.

Tallapoosa River at Wadley, Ala.

Location.--Lat 33°08', long 85°34', in sec. 12, T. 22 S., R. 10 E., on right bank at Wadley, a quarter of a mile upstream from bridge on State Highway 63 and three-quarters of a mile downstream from Beaverdam Creek.

Drainage area.--1,660 sq mi, approximately.

Records available.--September 1923 to September 1954.

Gage.--Staff gage read twice daily. Datum of gage is 601.33 ft above mean sea level, datum of 1929 (levels by Alabama Power Co.).

Average discharge.--31 years, 2,446 cfs.

Extremes.--Maximum discharge during year, 9,260 cfs Jan. 18 (gage height, 9.30 ft, from graph based on gage readings); minimum daily, 54 cfs Sept. 30.
1923-54: Maximum discharge observed, 52,800 cfs Feb. 5, 1936 (gage height, 27.9 ft); minimum daily, that of Sept. 30, 1954.

Remarks.--Records fair. Some diurnal fluctuation during extreme low flow caused by small mills above station.

Cooperation.--Records collected by Alabama Power Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Jan. 18

Jan. 19 to Sept. 30

2.9	414	2.3	51	3.0	455
4.0	1,720	2.4	81	7.0	5,520
7.0	5,520	2.7	212		
10.0	10,500				

Note.--Same as preceding table above 7.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,180	551	627	2,200	*1,840	3,650	2,200	2,200	1,040	383	261	236
2	1,060	543	627	1,840	1,600	3,280	2,080	1,840	1,360	383	268	157
3	880	543	627	1,600	1,600	2,680	1,960	1,960	2,320	689	242	149
4	771	519	3,040	1,480	1,540	2,200	1,720	3,780	2,080	423	218	153
5	699	567	2,920	1,420	1,480	1,960	1,720	4,040	2,200	320	202	153
6	627	497	2,200	1,420	1,420	1,840	1,600	2,320	2,320	320	202	137
7	603	497	1,720	1,300	1,420	1,720	1,600	1,720	1,110	364	236	133
8	579	543	1,420	1,240	1,560	1,600	1,540	1,720	907	289	261	113
9	615	519	1,720	1,180	1,360	1,600	1,480	1,480	837	837	218	157
10	555	497	3,780	1,120	1,560	1,540	1,480	1,420	795	650	192	192
11	567	508	3,280	1,180	1,560	1,480	1,420	1,360	907	728	182	157
12	567	531	2,680	1,180	1,560	1,480	1,420	1,300	823	500	192	133
13	508	531	2,920	1,180	1,560	1,420	1,360	1,300	754	355	177	113
14	531	519	*3,520	1,180	1,560	1,480	1,360	1,420	767	320	149	101
15	519	531	3,280	1,120	1,500	1,540	1,360	1,720	907	907	149	85
16	543	519	2,680	3,170	1,500	1,480	3,120	1,720	977	795	153	93
17	519	519	1,960	8,560	2,200	1,420	5,240	1,540	1,040	907	187	93
18	497	519	1,720	9,080	1,960	1,360	3,910	1,360	1,180	689	182	81
19	508	519	1,420	8,900	1,720	1,600	2,680	1,360	1,240	741	433	78
20	508	591	1,300	3,780	1,600	1,960	2,080	1,300	907	524	1,180	89
21	497	747	1,360	2,800	1,960	1,960	1,720	1,240	754	403	1,480	93
22	497	819	1,600	6,160	2,520	1,720	1,600	1,110	663	337	907	78
23	486	1,000	2,200	7,280	1,960	1,600	1,480	1,040	*624	650	536	81
24	497	1,060	2,080	5,580	2,200	1,540	2,920	1,040	572	2,200	328	89
25	475	1,480	1,840	3,520	3,160	*1,480	2,560	977	524	1,040	254	75
26	464	940	1,600	2,800	2,680	1,720	2,440	977	466	676	242	75
27	519	831	1,420	2,320	2,080	2,440	2,200	907	433	500	212	66
28	603	747	1,360	2,200	2,440	5,380	2,200	977	423	413	192	66
29	519	711	1,540	2,520	-	4,560	4,040	907	403	346	197	57
30	531	711	2,200	2,080	-----	3,400	2,680	1,110	355	320	197	54
31	497	-----	2,680	1,960	-----	2,680	-----	977	-----	268	167	-----
Total	18,421	19,589	63,393	92,950	49,300	65,770	65,170	48,122	29,688	18,277	9,996	3,337
Mean	594	653	2,045	2,998	1,761	2,122	2,172	1,552	990	590	322	111
Cfsm	0.358	0.393	1.23	1.81	1.06	1.28	1.31	0.935	0.596	0.355	0.194	0.067
In.	0.41	0.44	1.42	2.08	1.10	1.47	1.46	1.08	0.67	0.41	0.22	0.07

Calendar year 1953: Max 23,300 Min 284 Mean 2,558 Cfsm 1.54 In. 20.91
Water year 1953-54: Max 9,080 Min 54 Mean 1,526 Cfsm 0.799 In. 10.83

Peak discharge (base, 20,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Hillabee Creek near Hackneyville, Ala.

Location.--Lat 33°04', long 85°53', in SW¼ sec. 17, T. 24 N., R. 22 E., near center of channel on downstream side of pier of highway bridge, 1 mile downstream from Eritachopco Creek, 3 miles east of Hackneyville, and 4 miles upstream from Hackney Creek.

Drainage area.--185 sq mi.

Records available.--June 1952 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 557.92 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 3,300 cfs Apr. 29 (gage height, 13.9 ft); minimum, 11 cfs Sept. 29, 30.

1952-54: Maximum discharge, 5,850 cfs Jan 8, 1953 (gage height, 16.9 ft); minimum, that of Sept. 29, 30, 1954.

Remarks.--Records good above 100 cfs and fair below.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Nov. 20 to Dec. 3)

3.2	6.4	5.0	245
3.4	19	7.0	715
3.8	56	10.0	1,680
4.4	138	12.0	2,450

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	119	68	72	265	197	440	325	540	140	a56	44	31
2	112	67	70	245	197	345	285	428	152	a83	43	30
3	103	64	107	235	193	*315	275	788	335	174	38	28
4	94	64	1,010	216	185	275	255	855	216	a80	37	27
5	90	64	325	202	181	261	245	*428	159	a66	36	27
6	89	64	239	192	176	245	253	355	144	a60	37	26
7	89	67	227	181	171	233	*243	325	136	a56	45	25
8	88	67	175	178	169	225	229	345	*130	a52	39	25
9	*83	68	747	173	169	219	217	285	122	a80	39	90
10	79	68	740	173	168	212	208	275	149	112	39	36
11	78	67	345	180	183	208	204	261	192	a68	38	31
12	75	66	640	168	223	206	199	255	151	a60	36	30
13	74	64	476	159	173	202	214	253	204	*56	33	28
14	72	64	665	157	169	216	221	265	130	56	45	24
15	72	66	415	168	168	188	208	247	138	628	37	21
16	72	64	305	616	202	183	945	235	171	130	36	21
17	72	64	249	365	407	180	602	216	180	107	97	20
18	70	64	216	285	225	181	355	223	210	83	139	19
19	69	64	199	247	199	458	295	235	154	79	280	18
20	68	61	192	225	340	345	253	206	122	70	196	18
21	*66	128	*305	355	378	253	231	199	107	62	177	17
22	62	151	428	715	275	225	229	188	104	56	67	18
23	61	*178	440	516	241	218	225	181	96	178	*47	19
24	60	96	305	365	686	208	1,260	173	104	141	43	18
25	58	106	265	305	465	206	640	169	a90	81	39	16
26	58	89	233	285	345	335	490	168	a82	68	36	14
27	63	80	210	*275	295	1,050	345	168	a76	60	34	13
28	86	78	217	263	578	1,070	506	162	a70	56	32	12
29	73	74	378	231	-	555	2,290	161	a64	48	39	11
30	70	73	390	221	-	440	800	156	a58	46	35	11
31	72	-	315	210	-	365	-	141	-	44	32	-
Total	2,397	2,378	10,895	8,370	7,358	10,070	13,047	8,696	4,186	2,996	1,915	724
Mean	77.3	79.3	351	270	263	281	435	281	140	96.6	61.8	24.1
Cfsm	0.418	0.429	1.90	1.46	1.42	1.76	2.35	1.52	0.757	0.522	0.334	0.130
In.	0.48	0.48	2.19	1.68	1.48	2.02	2.62	1.75	0.84	0.60	0.38	0.15

Calendar year 1953: Max 4,570 Min 48 Mean 401 Cfsm 2.17 In. 29.44
Water year 1953-54: Max 2,290 Min 11 Mean 200 Cfsm 1.08 In. 14.67

Peak discharge (base, 4,500 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for stations on nearby streams.

Tallapoosa River below Tallassee, Ala.

Location.--Lat 32°31', long 85°53', in E½ sec. 30, T. 18 N., R. 22 E., on left bank 1½ miles downstream from Benjamin Fitzpatrick Highway Bridge and Thurlow Dam at Tallassee and 3½ miles upstream from Uphapee Creek.

Drainage area.--3,320 sq mi, approximately.

Records available.--July 1928 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 162.03 ft above mean sea level (levels by Alabama Power Co.).

Average discharge.--26 years, 4,765 cfs (unadjusted).

Extremes.--Maximum daily discharge during year, 9,600 cfs Dec. 28; maximum gage height, 15.2 ft Dec. 5 (backwater from tributary inflow); minimum daily discharge, 60 cfs Oct. 18.

1928-54: Maximum discharge, 115,000 cfs Mar. 15, 1929 (gage height, 51.35 ft, from floodmarks), computed on basis of powerplant records and flow over spillway; minimum daily, 10 cfs June 3, 1930, May 17, 1931.

Remarks.--Records fair. Flow regulated by Lake Martin (see p. 241) and hydroelectric plants above station.

Cooperation.--Records collected by Alabama Power Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,680	66	6,610	8,360	4,300	4,060	3,030	2,680	5,020	3,860	98	2,450
2	2,500	5,320	6,310	8,040	5,140	4,110	2,320	456	4,280	2,760	5,110	3,740
3	458	5,650	4,480	2,260	4,750	3,510	1,630	2,750	3,870	80	5,650	1,790
4	219	5,940	7,750	6,500	3,600	3,680	1,970	1,160	1,800	80	5,450	2,930
5	4,140	6,760	5,720	8,930	2,090	3,760	2,990	1,170	1,300	80	5,670	101
6	5,670	6,940	2,040	6,720	1,750	1,970	2,060	1,600	1,430	860	5,890	87
7	5,730	280	5,680	6,830	1,120	1,800	2,430	1,530	2,370	1,520	3,320	5,690
8	4,920	163	6,130	3,710	4,190	2,810	2,080	176	2,750	1,110	175	6,130
9	2,350	6,080	6,060	757	2,760	2,270	1,720	273	3,820	1,510	4,570	6,270
10	*536	6,400	4,950	905	2,480	900	1,060	1,980	4,850	80	3,940	5,530
11	72	5,320	6,000	6,320	1,460	1,080	650	2,800	2,790	100	2,280	2,630
12	5,560	5,840	6,370	6,840	765	654	3,110	3,920	576	2,710	3,730	122
13	6,030	5,460	4,960	5,890	463	1,130	2,020	2,760	96	2,270	3,110	5,650
14	5,720	323	7,120	6,090	443	1,130	3,030	1,500	4,110	2,010	470	6,210
15	6,200	66	6,230	4,570	1,250	1,890	4,020	642	5,460	2,040	293	3,590
16	5,250	5,170	6,620	4,940	708	3,170	3,780	650	5,550	2,530	3,480	3,610
17	76	5,630	6,170	5,080	1,580	1,960	3,250	2,930	4,280	80	3,990	3,110
18	60	5,740	6,070	5,290	2,000	1,530	1,270	3,920	4,820	80	4,100	2,490
19	6,020	6,050	6,000	5,700	1,470	3,310	2,290	3,770	94	2,480	4,310	103
20	6,430	5,820	3,270	4,850	946	2,670	2,530	3,270	64	3,730	3,880	4,210
21	6,360	97	4,730	*5,500	2,760	421	2,700	1,280	4,280	4,240	2,990	3,340
22	5,980	89	6,420	5,730	3,390	1,890	2,670	415	4,300	3,750	273	2,090
23	6,010	4,510	8,650	5,510	2,600	2,970	1,990	314	3,380	5,320	3,970	1,170
24	336	4,980	8,780	4,370	1,490	*1,340	730	5,190	4,130	80	5,300	435
25	67	6,040	8,260	5,990	2,900	904	69	4,720	2,780	98	4,920	2,650
26	5,450	930	9,140	5,480	1,980	1,630	1,290	2,900	1,690	*2,830	5,530	99
27	5,700	3,780	9,290	4,490	1,080	4,080	2,610	2,860	80	3,670	4,800	2,270
28	5,430	580	9,600	4,760	2,060	2,900	2,430	1,840	4,710	2,780	3,260	3,000
29	5,730	389	8,910	5,670	-	3,000	1,670	79	*3,880	3,380	110	3,230
30	5,770	5,890	8,720	3,410	-----	4,450	1,490	332	4,370	4,090	5,090	4,640
31	256	-	7,870	2,920	-----	2,950	-----	1,980	-----	796	5,940	-----
Total	118,710	116,283	204,920	162,412	61,335	73,939	64,889	61,827	92,910	61,004	111,699	89,367
Mean	3,829	3,876	6,610	5,239	2,191	2,385	2,163	1,994	3,097	1,968	3,603	2,979
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-
Calendar year 1953: Max	34,800	Min	60	Mean	5,687	Cfsm	1.71	In.	23.25			
Water year 1953-54: Max	9,600	Min	60	Mean	3,341	Cfsm	1.01	In.	13.66			

* Discharge measurement made on this day.

Uphapee Creek near Tuskegee, Ala.

Location.--Lat 32°28', long 85°42', on east line of sec. 12, T. 17 N., R. 23 E., on left bank at downstream side of bridge on State Highway 81, 1 mile upstream from Red Creek, 1½ miles upstream from bridge of Western Railway of Alabama, and 4 miles north of Tuskegee.

Drainage area.--331 sq mi.

Records available.--October 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 223.65 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Average discharge.--15 years, 450 cfs.

Extremes.--Maximum discharge during year, 12,400 cfs Dec. 5 (gage height, 20.4 ft); minimum daily, 0.8 cfs Sept. 14.

1939-54: Maximum discharge, 29,600 cfs Mar. 21, 1943 (gage height, 27.33 ft); minimum daily, that of Sept. 14, 1954.

Flood of March 1929 reached a stage about 2 ft higher than that of Mar. 21, 1943.

Remarks.--Records good above 50 cfs, fair between 5 and 50 cfs, and poor below 5 cfs. Occasional diurnal fluctuation at low flow caused by small plants above station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 11, 17-22, Dec. 24 to Feb. 20, and Feb. 23 to Mar. 14)

Oct. 1 to Mar. 14				Mar. 15 to Sept. 30			
2.6	48	6.0	905	1.9	0.4	3.5	173
3.0	102	9.0	2,470	2.0	2.0	4.0	275
3.5	187	13.0	5,400	2.1	5.3	5.0	531
4.0	295	19.0	11,000	2.3	16	7.0	1,270
5.0	565			2.5	32	9.0	2,470
				3.0	92		

Note.--Same as preceding table above 9.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	380	60	135	1,100	295	885	448	118	30	9.0	24	2.3
2	306	60	130	809	272	791	395	98	36	9.5	22	1.6
3	248	58	341	690	272	596	344	102	34	13	18	1.6
4	203	54	*6,560	642	254	*519	332	155	29	11	17	1.2
5	170	63	11,000	596	250	475	308	153	25	10	16	1.2
6	152	81	6,410	565	265	434	286	*113	23	10	14	1.2
7	136	88	5,240	519	261	420	273	92	*23	7.5	14	1.2
8	128	81	3,690	519	250	393	*262	79	23	10	13	1.4
9	116	70	1,980	490	239	420	245	69	21	11	11	1.4
10	102	61	1,680	461	230	393	224	63	27	13	10	2.0
11	92	60	1,400	461	228	367	212	60	76	8.0	9.5	1.4
12	87	55	1,820	434	226	342	208	55	60	*7.0	9.0	1.4
13	81	54	1,870	406	209	342	186	64	42	7.0	7.0	1.0
14	74	50	2,470	393	207	820	173	104	31	19	7.0	1.8
15	70	50	2,040	393	207	1,560	181	128	25	50	7.0	1.2
16	67	50	1,560	447	209	808	192	98	38	82	7.5	2.0
17	64	50	1,010	475	254	344	214	85	33	78	5.3	2.6
18	60	*53	791	406	259	308	192	79	34	49	7.0	3.5
19	60	50	706	367	226	478	153	141	23	39	7.5	2.3
20	58	64	674	367	490	844	138	110	22	32	16	1.8
21	55	96	1,040	354	1,870	703	130	78	20	28	38	1.8
22	*55	131	*1,300	434	1,820	434	122	60	17	51	15	1.4
23	54	183	1,560	658	809	369	119	52	16	63	16	1.0
24	53	174	1,350	475	925	344	114	46	17	60	*12	1.2
25	49	138	1,010	380	1,400	320	122	41	16	48	10	1.4
26	48	178	809	342	1,260	320	120	37	15	145	8.5	1.8
27	87	163	723	330	740	490	128	35	14	189	7.5	2.6
28	77	150	658	*330	827	1,220	108	35	13	108	5.3	1.8
29	75	138	848	308	-	1,640	130	32	10	63	4.9	*1.0
30	68	133	1,220	295	-----	940	125	31	10	42	4.9	2.9
31	63	-----	1,300	318	-----	560	-----	30	-----	32	3.5	-----
Total	3,318	2,696	63,303	14,762	14,754	18,899	6,186	2,443	803	1,284.0	367.4	50.0
Mean	107	89.9	2,042	476	527	610	206	78.8	26.8	41.4	11.9	1.67
Cfsm	0.323	0.272	6.17	1.44	1.59	1.84	0.622	0.238	0.081	0.125	0.036	0.0050
In.	0.37	0.30	7.11	1.66	1.66	2.12	0.70	0.27	0.09	0.14	0.04	0.006
Calendar year 1953: Max			11,000		Min 11		Mean 754	Cfsm 2.28		In. 30.89		
Water year 1953-54: Max			11,000		Min 0.8		Mean 353	Cfsm 1.07		In. 14.47		

Peak discharge (base, 5,000 cfs).--Dec. 5 (2 p.m.) 12,400 cfs (20.4 ft).

* Discharge measurement made on this day.

Reservoirs in Mobile River basin

Allatoona Reservoir.--Lat 34°09'50", long 84°43'40", at forebay of dam on Etowah River, 2½ miles upstream from Nashville, Chattanooga, and St. Louis Railway Bridge, 6 miles upstream from Pumpkinvine Creek, and 4 miles east of Cartersville, Ga. Drainage area, 1,110 sq mi. Records available, December 1943 to September 1954. Water-stage recorder. Datum of gage is at mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). Maximum contents during year, 341,800 acre-ft Jan. 26 (elevation, 837.76 ft); minimum, 172,600 acre-ft Jan. 15 (elevation, 818.75 ft). Maximum contents during period 1949-54, 485,000 acre-ft Mar. 25, 1952 (elevation, 848.93 ft); minimum, 149,300 acre-ft Jan. 12, 1951 (elevation, 815.01 ft).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 835.0 ft) is equipped with 9 taintor gates 40 ft wide by 25 ft high, and 2 taintor gates 20 ft wide by 25 ft high. There are 4 sluices 5 ft 8 in. wide by 10 ft high and 1 sluice 48 in. in diameter. Storage began Dec. 27, 1949; water in reservoir first reached minimum pool elevation Feb. 5, 1950. Total capacity at elevation 860.0 ft (top of gates) is 670,000 acre-ft, of which 587,200 acre-ft is controlled storage above elevation 800.0 ft (minimum pool). Reservoir is used for flood control and power. Records furnished by Corps of Engineers.

Lake Martin.--Lat 32°41', long 85°55', in sec. 36, T. 20 N., R. 21 E., at forebay of Martin Dam on Tallapoosa River, 5 miles upstream from Sougahatchee Creek and 10 miles north of Tallassee, Ala. Drainage area, 3,000 sq mi (approximately). Records available, October 1927 to September 1954. Remote indicating gage, referenced to wire-weight gage. Datum of gage is at mean sea level (levels by Alabama Power Co., adjustment unknown). Maximum daily contents during year, 1,540,000 acre-ft May 17 (elevation, 487.85 ft); minimum daily, 1,046,000 acre-ft Sept. 30 (elevation, 473.09 ft). Maximum daily contents since Oct. 1, 1940, 1,630,000 acre-ft Apr. 27, 1944 (elevation, 490.26 ft); minimum daily, 555,000 acre-ft June 29, 1941 (elevation, 452.12).

Reservoir 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 wide and 16 ft 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 (top of gates) is 1,622,000 acre-ft, of which 1,375,000 acre-ft is controlled storage above elevation 430.00 ft (minimum pool). Reservoir is used for power development. Capacity curve and gage-height record furnished by Alabama Power Co.

Coosa River Reservoirs on Coosa River, used for power development, are the following: Lay Lake, 11 miles northeast of Clanton, Ala., completed 1914, usable capacity, 48,000 acre-ft; Mitchell Lake, 11 miles southeast of Clanton, completed in 1923, usable capacity, 54,000 acre-ft; Lake Jordan, 5 miles northwest of Wetumpka, completed in 1929, usable capacity, 84,000 acre-ft. Capacity curves and gage-height record furnished by Alabama Power Co.

Monthly elevation and change in contents, water year October 1953 to September 1954

Date	Allatoona Reservoir			Lake Martin			Coosa River Reservoirs
	Elevation (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)	Elevation (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	830.39	265,500	-	-	-	-	-
Oct. 31.....	825.82	225,200	-40,300	480.15	1,266,300	-153,400	-4,100
Nov. 30.....	820.41	183,900	-41,300	475.70	1,123,000	-143,300	+1,900
Dec. 31.....	821.98	195,100	+11,200	475.50	1,117,100	-5,900	-23,900
Calendar year 1953.	-	-	+44,700	-	-	+55,300	-39,800
Jan. 31.....	836.14	323,700	+128,600	475.70	1,123,000	+5,900	+75,600
Feb. 28.....	827.14	236,300	-87,400	478.35	1,206,800	+83,800	-15,500
Mar. 31.....	834.70	308,300	+72,000	482.40	1,343,700	+136,900	+10,000
Apr. 30.....	834.95	310,900	+2,600	486.40	1,486,700	+143,000	-47,800
May 31.....	834.16	302,700	-8,200	487.55	1,529,200	+42,500	-1,100
June 30.....	832.76	288,500	-14,200	485.40	1,450,200	-79,000	-5,100
July 31.....	832.34	284,300	-4,200	483.60	1,392,600	-57,600	-2,700
Aug. 31.....	830.97	271,000	-13,300	478.60	1,214,900	-177,900	+2,200
Sept. 30.....	825.01	218,500	-52,500	472.95	1,401,300	-173,600	+2,200
Water year 1953-54.	-	-	-47,000	-	-	-378,400	-8,300

† Elevation at 12 p.m.

Alabama River near Montgomery, Ala.

Location.--Lat 32°24'42", long 86°24'32", in NW¼ sec. 31, T. 17 N., R. 17 E., in pier, near midstream, of bridge on U. S. Highway 31, 4 miles upstream from Autauga Creek and 6 miles northwest of Montgomery.

Drainage area.--15,100 sq mi, approximately.

Records available.--January 1899 to December 1903 (gage heights only), October 1927 to September 1954. Published as "at Montgomery" 1899-1903. Gage-height records collected at Montgomery since December 1890 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 97.90 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark). January 1899 to December 1903 staff gage at site 9.3 miles upstream at different datum. Since Mar. 27, 1951, U. S. Weather Bureau staff gage used as an auxiliary gage.

Average discharge.--27 years (1927-54), 23,730 cfs.

Extremes.--Maximum discharge during year, 79,000 cfs Jan. 25 (gage height, 28.5 ft); minimum daily, 2,700 cfs Sept. 26; minimum gage height, -2.2 ft Sept. 26.

1927-54: Maximum discharge, 253,000 cfs Mar. 17, 1929 (gage height, 59.6 ft); minimum, 2,180 cfs Nov. 24, 1941; minimum daily, 2,420 cfs Nov. 24, 1941; minimum gage height, that of Sept. 26, 1954.

Maximum stage known, 62.7 ft Apr. 1, 1886, from floodmarks. Flood of Mar. 30, 1888, reached a stage of 60.6 ft, from floodmarks (discharge, 274,000 cfs, from rating curve extended above 240,000 cfs). Elevation of floodmarks of both floods referred to U. S. Weather Bureau gage 9.3 miles upstream and transferred to present site by gage-height relation curve.

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

Flood regulated by Allatoona Reservoir, Lake Martin and Coosa River Reservoirs (see preceding page)

Cooperation.--Records collected by Alabama Power Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Revisions (water years).--WSP 1142: 1939.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

-1.8	2,660	9.0	23,200
0.0	4,500	19.0	51,600
3.0	9,200	28.0	77,600

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16,200	7,100	7,380	28,000	53,900	29,600	46,500	19,300	7,400	7,910	6,900	7,000
2	14,300	4,670	10,600	26,000	46,800	36,100	38,600	17,900	12,900	8,090	5,540	7,200
3	11,200	6,350	10,400	24,000	35,500	34,400	32,200	15,900	11,900	7,000	5,530	6,400
4	7,660	10,000	20,700	20,000	28,200	32,200	31,000	19,600	11,000	7,910	7,000	6,100
5	5,100	11,000	31,900	16,000	23,800	29,600	30,200	15,700	12,300	6,120	7,060	4,500
6	5,900	10,200	42,400	17,000	22,700	27,700	29,400	17,400	11,900	5,000	7,230	4,900
7	9,200	10,000	43,900	15,000	21,400	24,900	29,100	18,400	12,700	5,130	7,230	5,100
8	9,800	7,420	38,600	15,000	18,100	22,200	26,000	16,200	13,400	6,900	5,540	6,000
9	11,000	4,680	33,000	16,000	19,800	20,900	24,000	13,600	13,400	5,720	6,120	7,700
10	9,800	7,080	35,800	11,000	19,100	20,100	22,400	9,800	13,000	6,420	6,420	8,600
11	6,600	10,400	35,000	14,000	18,600	20,600	22,200	13,200	13,600	6,120	7,400	8,600
12	*4,400	11,000	35,500	15,200	17,400	20,100	22,600	14,100	13,000	5,000	8,630	4,500
13	8,100	10,000	43,300	17,400	15,700	18,400	14,800	9,110	5,810	8,820	5,820	5,800
14	9,800	10,000	47,900	18,100	13,200	14,600	18,800	11,300	8,750	7,910	8,450	6,400
15	9,600	8,000	48,800	16,700	13,200	15,700	18,400	13,000	8,090	6,740	6,140	8,300
16	8,450	4,600	43,600	19,800	14,300	23,200	19,800	9,370	10,000	7,740	5,120	6,700
17	10,600	6,700	37,500	27,700	16,400	24,900	25,200	8,110	10,600	6,130	7,230	5,500
18	6,910	9,600	32,000	55,700	17,100	22,900	24,900	13,400	11,400	6,270	8,450	5,500
19	4,410	9,600	29,000	63,000	16,400	21,600	22,700	16,900	11,900	5,580	7,740	4,600
20	7,270	10,000	28,000	*71,000	17,400	25,200	19,600	14,100	10,400	6,560	9,630	4,900
21	11,000	9,800	24,000	69,000	21,400	24,900	19,600	13,000	7,910	7,230	6,350	5,700
22	10,400	7,600	23,000	67,600	25,700	*20,900	19,800	12,000	10,200	6,740	4,610	7,700
23	10,400	4,710	28,000	73,600	25,200	18,000	20,100	8,600	10,600	6,740	5,350	6,100
24	9,010	8,060	30,200	77,600	24,300	17,000	18,400	7,700	9,200	7,350	7,570	6,800
25	7,510	11,000	29,100	78,200	26,000	15,700	13,400	12,000	8,450	7,360	8,630	5,130
26	4,810	10,600	27,400	75,300	26,000	15,700	10,600	13,000	9,800	5,000	7,910	2,700
27	6,740	10,000	24,900	72,500	24,900	15,700	13,000	12,000	8,090	7,060	9,210	4,580
28	10,200	8,820	21,400	68,700	24,000	23,200	15,700	10,000	6,740	1,910	7,740	4,870
29	10,600	6,850	24,000	64,900	-	31,600	16,400	11,000	6,790	7,570	5,220	5,400
30	9,400	5,060	25,000	63,200	-----	43,300	17,100	7,900	*8,270	7,400	5,530	5,680
31	7,910	---	28,000	58,800	-----	48,500	-----	6,400	-----	6,580	6,000	---
Total	272,080	250,900	940,280	*1,282	646,500	759,400	685,500	406,780	309,700	207,100	216,100	177,930
Mean	8,777	8,363	30,330	*41,350	23,090	24,500	22,850	13,120	10,320	6,681	6,971	5,331
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-

Calendar year 1953: Max 110,000 Min 4,400 Mean 26,020 Cfsm 1.72 In. 23.39
 Water year 1953-54: Max 78,200 Min 2,700 Mean 16,860 Cfsm 1.12 In. 15.16

* Discharge measurement made on this day.

† Expressed in thousands.

Note.--No gage-height record Oct. 7-12, Nov. 12-18, Dec. 18-23, Dec. 29 to Jan. 11, Mar. 23, 24, May 22 to June 2, Aug. 31 to Sept. 26; discharge estimated on basis of daily readings of U. S. Weather Bureau gage 9.3 miles upstream and records for stations upstream and downstream.

Catoma Creek near Montgomery, Ala.

Location.--Lat 32°18'25", long 86°18'00", in center sec. 6, T. 15 N., R. 18 E., on right bank on downstream side of bridge on State Highway 9, 5 miles south of Montgomery.

Drainage area.--283 sq mi.

Records available.--June 1952 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 151.02 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 10,700 cfs Dec. 5 (gage height, 23.03 ft); no flow for many days.

1952-54: Maximum discharge, that of Dec. 5, 1953; no flow for many days in some years.

Flood of Nov. 28, 1948, reached a stage of 27.5 ft (discharge, about 32,000 cfs on basis of partial discharge measurement).

Remarks.--Records good above 30 cfs, fair between 10 and 30 cfs, poor below 10 cfs and for period of backwater from return of overbank flow and for periods of no gage-height record.

Rating tables, water year 1953-54, except period of backwater from return of overbank flow (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 5				Dec. 6 to Sept. 30			
1.0	1.9	11.0	1,670	0.63	0	1.2	16
1.1	5.7	15.0	2,940	.8	.1	1.6	53
1.4	24	18.0	4,180	.9	.8	2.5	132
2.0	73	20.0	5,870	1.0	3.8	4.0	291
4.0	291	22.0	8,720				
7.0	770						

Note.--Same as preceding table above 4.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	236	8.7	15	910	72	1,420	254	28	5.4	1.2	0.3	
2	82	7.2	13	550	65	910	180	27	5.4	1.0	.2	
3	51	7.2	88	242	58	451	118	28	4.8	.8	.2	
4	38	6.2	2,750	180	53	185	104	23	4.2	.7	.2	
5	30	4.8	8,270	150	50	*132	99	18	3.8	.7	.1	
6	26	5.7	7,510	132	44	105	92	15	2.9	.6	.1	
7	21	4.8	c4,200	110	42	90	75	*13	2.9	.4	.1	
8	23	6.7	c4,600	99	40	79	65	12	2.9	.3	.1	
9	22	9.8	c2,600	85	38	70	*62	12	*2.9	.3	.1	
10	20	6.2	c1,400	77	36	64	57	10	3.3	.4	.2	
11	17	7.7	c840	75	36	61	47	10	3.8	.3	.1	
12	15	7.2	1,910	72	36	55	42	9.6	3.3	.2	.1	
13	13	5.7	2,770	71	35	58	39	9.0	2.9	.2	.1	
14	13	5.3	2,980	63	34	618	36	12	2.5	.1	0	
15	10	5.3	2,590	56	33	2,180	33	12	2.2	.7	0	
16	8.5	5.3	*1,400	60	33	3,190	35	12	1.9	*1.2	0	
17	7.5	8.2	525	64	33	1,120	44	12	1.6	1.4	0	
18	6.5	8.2	220	77	34	200	50	12	1.4	19	0	
19	6.0	8.7	160	63	37	699	43	12	23	30	1.0	
20	5.6	9.8	136	56	492	1,450	32	10	27	25	*.3	
21	5.3	9.8	190	53	1,550	910	29	7.8	27	13	.1	
22	5.0	12	542	114	970	446	26	7.8	14	7.2	.1	
23	4.8	19	970	266	698	190	24	9.0	9.0	3.3	0	
24	5.3	*54	790	346	807	132	30	7.8	6.0	2.9	0	
25	5.3	47	542	190	1,400	106	398	6.6	4.8	1.9	0	
26	5.3	36	260	118	910	100	430	6.0	3.8	1.6	0	
27	6.2	40	190	96	498	247	187	6.0	1.6	1.4	0	
28	7.7	27	155	84	864	1,450	76	5.4	1.2	.8	0	
29	5.3	20	389	*74	-----	1,820	68	8.0	1.2	.6	0	
30	8.2	16	610	70	-----	1,940	39	6.0	1.2	.4	0	
31	9.8	-----	1,150	71	-----	1,040	-----	5.4	-----	.4	0	
Total	721.3	421.5	50,945	4,714	8,998	21,518	2,794	370.4	177.9	118.0	3.4	0
Mean	23.3	14.0	1,643	152	321	694	93.1	11.9	5.93	3.81	0.11	0
Cfs/m	0.082	0.049	5.81	0.537	1.13	2.45	0.329	0.042	0.021	0.013	0.00039	0
In.	0.09	0.06	6.69	0.62	1.18	2.63	0.37	0.05	0.02	0.02	0.0004	0

Calendar year 1953: Max 8,270 Min 0.2 Mean 537 Cfs/m 1.90 In. 25.74

Water year 1953-54: Max 8,270 Min 0 Mean 249 Cfs/m 0.880 In. 11.93

Peak discharge (base, 5,000 cfs).--Dec. 5 (8 p.m.) 10,700 cfs (23.03 ft).

* Discharge measurement or observation of no flow made on this day.

c Backwater from return of overbank flow.

Note.--No gage-height record Oct. 16-22, Apr. 7, 8, May 6, Sept. 16-27; discharge estimated on basis of weather records and records for nearby streams.

Autauga Creek at Prattville, Ala.

Location.--Lat 32°27'30", long 86°28'30", in N½ sec. 17, T. 17 N., R. 16 E., on left bank 25 ft upstream from Bridge Street Bridge in Prattville, 500 ft downstream from dam, and 5 miles upstream from mouth.

Drainage area.--119 sq mi.

Records available.--January 1939 to September 1954.

Gage.--Water-stage recorder in concrete channel. Datum of gage is 164.38 ft above mean sea level, datum of 1929, supplementary adjustment of 1943. Prior to Sept. 27, 1944, staff or recording gages at several sites within 3 miles downstream of present site at various datums.

Average discharge.--15 years, 191 cfs.

Extremes.--Maximum discharge during year, 581 cfs Apr. 16 (gage height, 2.06 ft); minimum daily, 33 cfs Aug. 15, Sept. 29.

1939-54: Maximum discharge, 21,800 cfs Aug. 16, 17, 1939 (gage height, 18.35 ft, present datum, prior to major channel improvement); minimum recorded, 3 cfs June 1, 1941; minimum daily, that of Aug. 15, Sept. 29, 1954.

Flood of Dec. 9, 1919, reached a stage of 18.8 ft, present datum, from floodmarks (discharge, 23,000 cfs, from rating curve extended above 15,000 cfs).

Remarks.--Records fair except those for periods of doubtful or no gage-height record, which are poor. Extensive diurnal fluctuation and some regulation caused by small powerplant 500 ft above station.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Feb. 16 to Mar. 20)

0.4	33	1.0	170
.6	68	1.5	337
.8	115	2.0	581

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	110	86	105	190	137	182	142	118	64	44	46	46
2	88	83	102	170	120	200	128	102	62	46	57	39
3	95	81	124	160	134	188	128	100	72	39	43	46
4	90	79	284	150	105	155	126	100	83	35	51	35
5	86	86	337	150	120	*142	123	92	75	44	53	44
6	81	90	278	140	123	137	128	86	70	57	51	35
7	81	90	230	140	126	137	126	*83	68	49	44	41
8	79	86	200	130	118	139	128	81	60	49	36	39
9	81	83	320	130	110	137	123	79	*58	58	55	44
10	81	83	470	130	120	139	120	86	55	64	46	49
11	81	83	360	130	115	137	123	83	57	57	44	36
12	81	81	360	120	120	139	126	92	46	58	44	35
13	81	81	490	120	139	148	*112	108	75	51	35	40
14	81	81	380	120	137	206	100	153	108	46	51	39
15	81	83	290	140	123	156	83	148	66	103	33	41
16	83	86	*225	200	112	137	241	115	55	*90	46	40
17	83	86	200	180	131	137	307	95	70	72	43	40
18	79	86	167	160	148	134	228	86	145	60	53	42
19	81	86	156	150	142	203	182	83	173	62	62	42
20	79	123	159	140	228	234	118	83	112	64	*62	41
21	77	164	188	190	285	219	102	75	77	57	43	40
22	77	194	231	250	271	179	95	77	62	55	41	40
23	75	200	284	220	159	145	95	77	62	60	53	40
24	75	*179	222	190	188	142	100	75	62	70	46	38
25	72	170	194	170	209	139	120	72	58	60	47	38
26	*75	148	164	160	216	167	115	75	46	68	49	38
27	81	126	150	150	216	222	100	79	47	62	49	39
28	100	112	153	140	219	285	98	83	57	58	39	*39
29	95	108	188	*131	--	257	120	92	49	53	47	33
30	88	102	251	139	-----	241	139	100	36	53	55	49
31	86	-----	220	142	-----	176	-----	83	-----	46	47	-----
Total	2,583	3,226	7,442	4,832	4,371	5,357	3,976	2,861	2,130	1,790	1,471	1,208
Mean	83.3	108	240	156	156	175	133	92.3	71.0	57.7	47.5	40.3
Cfsm	0.700	0.908	2.02	1.31	1.31	1.45	1.12	0.776	0.597	0.485	0.399	0.339
In.	0.81	1.01	2.33	1.51	1.37	1.67	1.24	0.89	0.67	0.56	0.46	0.38

Calendar year 1953: Max 1,050 Min 57 Mean 186 Cfsm 1.56 In. 21.28
Water year 1953-54: Max 490 Min 33 Mean 115 Cfsm 0.950 In. 12.90

* Discharge measurement made on this day.

Note.--Doubtful or no gage-height record Dec. 7-15, Dec. 31 to Jan. 28, Aug. 15, Sept. 4, 6, 11-28; discharge estimated on basis of recorded range in stage or fragmentary gage-height record, weather records, and records for stations on nearby streams.

Big Swamp Creek near Lowndesboro, Ala.

Location.--Lat 32°16', long 86°42', in NE¼ sec. 19, T. 15 N., R. 14 E., at downstream side of left bank pier of bridge on U. S. Highway 80, 1 mile downstream from Panther Creek, 5 miles west of Lowndesboro, and 12 miles upstream from mouth.

Drainage area.--242 sq mi.

Records available.--December 1937 to April 1938, October 1940 to September 1954.

Gage.--Water-stage recorder. Wooden control since Aug. 8, 1951. Datum of gage is 127.95 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to July 12, 1944, staff gage, and July 12, 1944, to June 22, 1949, wire-weight gage, at same site and datum.

Average discharge.--14 years (1940-54), 332 cfs.

Extremes.--Maximum discharge during year, 4,200 cfs Dec. 6 (gage height, 16.11 ft); no flow for many days.
1937-38, 1940-54: Maximum discharge, 37,000 cfs Nov. 27, 1948 (gage height, 21.3 ft, from floodmark), from rating curve extended above 25,000 cfs; no flow at times.

Remarks.--Records good above 20 cfs, fair between 5 and 20 cfs, and poor below 5 cfs.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 4-21, June 28 to July 29)

1.2	0	4.0	131
1.3	.1	7.0	373
1.4	.4	11.0	819
1.5	1.1	14.0	1,350
1.6	2.2	14.5	1,540
1.7	4.3	15.0	1,960
1.9	10	15.5	2,670
2.5	36	16.0	3,880

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	668	0.4	5.0	606	53	1,100	388	32	0.6	0.1		
2	96	.6	2.8	506	51	1,200	131	17	.4	0		
3	30	1.1	14	277	42	1,180	77	13	.4	0		
4	20	.5	946	166	36	485	56	9.4	.4	0		
5	14	.7	3,090	124	32	*156	45	7.0	.5	0		
6	7.9	1.3	3,590	96	29	100	49	5.0	.3	.1		
7	6.7	1.2	2,130	75	27	72	73	*4.0	.2	.2		
8	4.5	.9	1,540	57	25	59	40	3.6	.5	.2		
9	4.0	.9	1,480	48	22	51	*87	2.7	*.6	.1		
10	2.7	1.1	1,390	45	22	45	77	2.3	.5	.1		
11	2.3	1.3	930	46	21	42	36	2.3	.3	.1		
12	2.1	.7	1,020	44	21	38	26	2.1	.2	.1		
13	1.8	.6	1,520	38	21	84	22	2.5	.1	0		
14	2.0	.6	2,870	32	19	1,050	18	3.2	.1	0		
15	2.1	.8	2,070	29	18	1,270	16	3.0	0	.1		
16	1.6	1.0	1,610	34	18	1,960	643	3.8	0	*.1		
17	1.6	1.1	1,180	50	23	1,200	1,320	3.8	.44	.1		
18	1.0	1.2	488	50	31	337	569	2.8	.11	.5		
19	1.0	1.3	170	38	34	491	100	2.5	4.3	.8		
20	*.8	3.6	120	34	511	1,180	38	1.8	1.3	.6		
21	.8	9.7	346	34	1,650	1,050	24	1.3	.1	.3		
22	.6	15	672	168	1,820	763	19	1.0	0	.1		
23	.6	49	*916	285	1,610	285	15	.9	0	.1		
24	.6	*36	832	328	1,160	131	30	.6	0	0		
25	.5	24	767	201	715	89	156	.4	0	0		
26	.5	24	466	114	594	81	110	.3	0	0		
27	.8	32	213	85	550	261	117	.3	0	0		
28	1.0	26	148	72	743	1,040	80	.4	0	0		(*)
29	.8	16	331	*59		1,200	29	.9	.3	0		
30	.5	10	583	49		1,820	31	.5	.2	0		
31	.4		618	47		1,240		.4		0		
Total	877.2	262.6	32,167.8	3,837	9,898	20,060	4,422	130.8	66.3	3.6	0	0
Mean	28.3	8.75	1,038	124	354	647	147	4.22	2.21	0.12	0	0
Cfs/m	0.117	0.036	4.29	0.512	1.46	2.67	0.607	0.017	0.0091	0.00050	0	0
In.	0.13	0.04	4.94	0.59	1.52	3.08	0.68	0.02	0.009	0.0006	0	0

Calendar year 1953: Max 6,870 Min 0 Mean 405 Cfs/m 1.67 In. 22.70
Water year 1953-54: Max 3,590 Min 0 Mean 197 Cfs/m 0.814 In. 11.02

Peak discharge (base, 6,000 cfs).--No peak above base.

* Discharge measurement or observation of no flow made on this day.

Note.--No gage-height record June 22-27, July 30 to Sept. 30; water below the intake and point of zero flow.

MOBILE RIVER BASIN

Mulberry River at Jones, Ala.

Location.--Lat 32°35', long 86°54', in E½ sec. 31, T. 19 N., R. 12 E., on right bank near downstream side of highway bridge, 0.4 mile west of Jones, 6 miles upstream from Buck Creek, and 11 miles upstream from mouth.

Drainage area.--205 sq mi.

Records available.--October 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 165.23 ft above mean sea level, datum of 1929, supplementary adjustment of 1943. Prior to June 2, 1939, staff gage at site 50 ft upstream at same datum.

Average discharge.--16 years, 340 cfs.

Extremes.--Maximum discharge during year, 3,030 cfs Apr. 16 (gage height, 6.56 ft); minimum daily, 29 cfs Sept. 6, 26-28.

1938-54: Maximum discharge, 32,800 cfs Aug. 16, 1939 (gage height, 30.4 ft); minimum daily, that of Sept. 6, 26-28, 1954.

Maximum stage known, 33.6 ft in April 1938, from information by local residents (discharge, 48,000 cfs, from rating curve extended above 30,000 cfs).

Remarks.--Records fair. Occasional slight diurnal fluctuation at low flow.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

0.6	26	2.0	285
1.8	47	3.0	655
1.0	72	4.0	1,190
1.5	159	5.0	1,820

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	79	78	100	309	195	678	392	234	*102	47	42	32
2	79	78	99	285	183	*457	348	234	205	53	42	31
3	79	78	179	271	191	414	327	*208	203	149	44	32
4	78	79	800	247	170	348	297	231	177	106	49	30
5	78	79	348	239	161	318	*277	193	122	79	54	30
6	78	80	315	231	159	300	386	172	100	71	48	29
7	76	80	339	205	155	277	309	161	91	63	47	30
8	73	80	210	193	147	257	277	159	86	57	47	36
9	69	80	890	188	147	249	260	153	82	55	45	39
10	69	80	1,310	198	153	236	226	151	78	63	43	44
11	68	79	497	213	157	228	218	155	78	58	43	34
12	68	80	1,370	183	161	226	208	174	76	51	42	32
13	68	80	800	168	143	215	193	181	75	48	39	30
14	67	82	800	163	141	205	179	208	73	*49	38	30
15	67	82	545	174	143	186	174	181	71	51	44	30
16	67	80	420	445	151	174	1,480	161	97	58	44	30
17	67	*80	345	336	239	170	1,680	149	145	67	44	34
18	66	82	*291	239	186	174	610	139	113	76	53	39
19	66	80	263	223	157	728	481	139	89	73	*44	39
20	*66	133	265	215	635	712	369	139	79	57	46	35
21	71	174	318	268	775	369	345	130	72	52	46	*32
22	75	208	537	545	369	294	312	120	69	51	45	32
23	75	279	700	420	308	268	285	118	64	78	40	32
24	72	139	382	321	678	257	268	113	66	60	42	30
25	73	126	321	285	525	244	279	109	68	52	37	30
26	73	116	288	*268	403	357	274	106	59	51	36	29
27	115	102	263	260	342	863	234	113	55	49	32	29
28	106	100	303	234	900	1,370	218	118	52	46	37	29
29	86	100	493	210	-	655	453	120	48	43	35	30
30	79	102	481	226	-----	610	545	118	48	42	34	30
31	78	-----	369	228	-----	493	-----	109	-----	39	32	-----
Total	2,329	3,096	14,641	7,990	8,062	12,332	11,924	4,856	2,743	1,894	1,314	969
Mean	75.1	103	472	258	288	398	397	157	91.4	61.1	42.4	32.3
Cfsm	0.366	0.502	2.30	1.26	1.40	1.94	1.94	0.766	0.446	0.298	0.207	0.158
In.	0.42	0.56	2.66	1.45	1.46	2.24	2.16	0.88	0.50	0.34	0.24	0.18
Calendar year 1953: Max			3,300	Min	47	Mean	343	Cfsm	1.67	In.	22.73	
Water year 1953-54: Max			1,680	Min	29	Mean	198	Cfsm	0.966	In.	13.09	

Peak discharge (base, 4,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Alabama River at Selma, Ala.

Location.--Lat 32°24', long 87°01', in T. 17 N., R. 10 E., in first pier from right bank of Edmund Pettus Bridge on U. S. Highway 80 in Selma, 1 mile upstream from Valley Creek.

Drainage area.--17,100 sq mi, approximately.

Records available.--January 1899 to January 1900 (gage heights only), February 1900 to December 1913, June 1928 to September 1954. Gage-height records since December 1890 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 61.80 ft above mean sea level, datum of 1929. Prior to Mar. 22, 1906, staff gage, Mar. 22, 1906, to June 21, 1928, chain gage, June 22, 1928, to Apr. 11, 1938, water-stage recorder, and Apr. 12, 1938, to May 20, 1940, wire-weight gage, all at site 300 ft upstream at present datum.

Average discharge.--39 years (1900-1913, 1928-54), 26,330 cfs.

Extremes.--Maximum discharge during year, 76,100 cfs Jan. 25 (gage height, 29.7 ft); minimum, 2,900 cfs Sept. 28 (gage height, -1.38 ft); minimum daily, 3,510 cfs Sept. 28.

1899-1913, 1928-54: Maximum discharge, 204,000 cfs Mar. 19, 1929; maximum gage height, 56.0 ft Dec. 3, 1948; minimum discharge observed, 2,660 cfs Nov. 1, 1904 (gage height, -2.20 ft).

Maximum stage known, 57.0 ft Apr. 8, 1886, from floodmarks established by Corps of Engineers (discharge, 221,000 cfs).

Remarks.--Records good. Flow regulated by Allatoona Reservoir, Lake Martin, and Coosa River reservoirs (see p. 241).

Revisions.--WSP 662: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Backwater from tributary inflow Dec. 10-14, Jan. 17-19, Mar. 28-30)

Oct. 1 to Jan. 25				Jan. 26 to Sept. 30			
0.0	4,450	20.0	48,500	-1.0	3,280	6.0	14,800
3.0	8,680	30.0	77,000	2.0	7,580	10.0	23,400
10.0	23,400						

Note.--Same as preceding table above 10.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24,800	8,680	5,880	32,200	58,200	32,000	50,800	19,600	8,060	8,860	7,740	6,200
2	18,900	7,640	7,320	32,000	53,400	*36,800	47,500	21,600	*8,860	8,700	7,740	7,100
3	15,400	8,600	11,000	30,200	46,800	39,800	40,800	15,300	12,600	8,860	6,950	7,420
4	12,600	6,020	15,400	27,300	37,200	37,800	35,200	*18,500	13,200	8,220	6,500	7,100
5	9,040	10,000	29,800	22,900	30,000	35,000	33,200	20,700	12,600	8,700	7,580	7,100
6	8,300	11,600	40,500	20,000	25,700	32,200	*32,000	17,800	13,400	7,420	7,740	5,150
7	6,160	11,000	49,000	19,300	24,300	30,000	31,800	18,900	13,200	5,900	8,060	5,750
8	8,860	10,600	48,000	17,400	22,200	27,100	30,500	19,600	13,600	5,750	7,740	5,600
9	9,600	8,140	44,500	16,700	19,800	24,100	27,800	17,800	14,400	6,950	6,950	6,800
10	10,400	5,600	41,100	16,700	20,700	22,700	25,900	15,000	14,400	6,650	6,650	8,220
11	9,600	6,440	40,400	14,400	20,200	22,200	24,500	12,400	14,200	6,650	6,950	8,860
12	7,320	10,400	41,800	16,500	19,600	22,500	23,900	14,600	14,600	6,800	7,420	8,540
13	5,360	10,800	45,100	17,100	18,500	22,000	22,000	15,600	13,800	5,600	9,020	6,950
14	6,020	10,600	51,300	18,900	16,800	21,500	21,300	16,600	10,700	5,900	9,350	5,150
15	9,800	10,000	56,700	19,600	14,800	20,000	20,000	14,200	8,220	*8,060	9,350	6,500
16	10,200	7,960	54,900	18,700	14,400	22,500	22,900	14,200	8,860	7,900	7,740	8,380
17	9,400	*5,600	*48,200	20,400	15,600	28,500	29,000	11,600	10,700	8,380	*5,900	7,900
18	10,800	6,440	41,500	30,600	17,600	28,200	30,800	9,860	11,600	7,260	7,420	6,500
19	8,140	9,400	35,800	53,000	18,500	26,400	28,800	14,600	12,600	6,950	8,860	5,750
20	*5,480	10,400	31,800	66,200	18,700	28,800	25,000	17,600	13,000	6,650	8,700	5,150
21	7,000	11,000	28,500	68,300	23,900	31,200	21,800	15,600	11,800	7,260	8,860	5,000
22	11,000	11,000	27,100	66,500	28,200	29,200	21,500	14,400	9,520	7,740	8,540	6,500
23	11,000	9,220	29,200	67,700	30,500	24,300	21,600	13,200	10,500	7,740	8,220	6,200
24	10,600	8,300	32,500	72,200	29,800	21,300	21,600	9,860	11,300	7,740	5,450	6,950
25	9,600	8,140	33,800	75,500	30,500	19,300	19,800	8,860	10,500	8,060	6,860	6,200
26	7,960	11,800	32,500	*75,600	31,000	18,700	16,000	12,800	9,690	8,540	8,860	6,050
27	5,600	11,800	30,200	73,400	30,000	18,300	13,800	14,000	10,400	6,350	8,860	*3,630
28	6,580	10,800	27,300	70,700	29,800	21,300	14,800	12,200	9,180	6,950	9,180	3,510
29	10,400	9,600	25,200	66,800	---	29,000	17,000	11,300	7,900	8,860	8,380	5,000
30	11,600	7,800	27,500	64,200	---	36,000	18,500	12,000	7,580	8,860	6,500	5,300
31	10,000	---	29,800	61,900	---	46,500	---	9,520	---	8,860	5,450	---
Total	305,120	270,380	1,063,610	1,273,310	746,700	859,000	789,700	464,000	340,970	233,120	237,290	192,480
Mean	9,843	9,013	34,310	41,070	26,670	27,710	26,320	14,970	11,370	7,520	7,655	6,416
Cfsm	---	---	---	---	---	---	---	---	---	---	---	---
In.	---	---	---	---	---	---	---	---	---	---	---	---

Calendar year 1953: Max 111,000 Min 5,120 Mean 28,590 Cfsm 1.67 In. 22.70
Water year 1953-54: Max 75,800 Min 3,510 Mean 18,560 Cfsm 1.09 In. 14.74

* Discharge measurement made on this day.

† Expressed in thousands.

Note.--Discharge computed from graph based on once-daily wire-weight-gage readings Mar. 15 to Apr. 6, July 28 to Aug. 16, Aug. 22 to Sept. 26.

MOBILE RIVER BASIN

Cahaba River near Acton, Ala.

Location.--Lat 33°22', long 86°49', in SE $\frac{1}{4}$ sec. 23, T. 19 S., R. 3 W., on right bank at downstream side of bridge on U. S. Highway 31, half a mile upstream from Patton Creek, 1 mile northwest of Acton, and 16 miles south of Birmingham.

Drainage area.--229 sq mi.

Records available.--October 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 375.00 ft above mean sea level, adjustment of 1912. Prior to Feb. 25, 1939, wire-weight gage at same site and datum.

Average discharge.--16 years, 338 cfs.

Extremes.--Maximum discharge during year, 7,300 cfs Jan. 16 (gage height, 23.6 ft); no flow Oct. 16, 29-31, Sept. 1-29.

1938-54: Maximum discharge, 25,500 cfs Dec. 28, 1942; maximum gage height, 44.23 ft Dec. 29, 1942; no flow Oct. 16, 29-31, 1953, Sept. 1-29, 1954.

Remarks.--Records good above 10 cfs, and fair below. An average of 53 cfs is diverted above station by Birmingham Water Works Co., and is not included in records. Approximately 5 cfs from this diversion is returned to river below station. Flow partly regulated by Furdy Lake (capacity, 17,400 acre-ft) on Little Cahaba River.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.6	0	2.9	140
1.7	1.6	4.0	435
1.8	4.4	8.0	1,710
1.9	8.7	13.0	3,200
2.1	22	18.0	4,800
2.4	55	22.0	6,500

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	7.8	2.0	420	371	1,190	467	678	*35	2.8	1.4	0
2	2.0	4.2	1.0	341	319	810	389	451	53	7.2	1.6	0
3	1.8	1.2	9.4	280	265	644	310	*365	116	5.9	7.3	0
4	2.0	3	38	210	252	499	265	420	79	5.1	3.4	0
5	2.0	1.0	*38	184	*239	389	*228	316	65	10.5	4.4	0
6	1.8	.5	79	151	200	338	196	254	40	*5.5	9.2	0
7	1.6	.3	41	107	176	294	172	203	22	2.5	4.4	0
8	1.4	.5	23	94	151	*249	153	162	13.5	2.3	3.1	0
9	1.0	.6	1,400	85	126	210	134	130	8.2	13.5	7.2	0
10	.6	10.6	1,590	128	111	210	118	102	8.3	13.9	6.8	0
11	.8	10.6	467	483	109	184	111	79	23	9.4	4.0	0
12	.5	4.8	1,250	451	118	167	94	69	15	3.7	2.3	0
13	.2	2.0	.958	330	104	200	82	61	7.7	2.3	2.0	*0
14	.2	2.8	1,120	272	88	316	77	61	5.9	1.8	1.6	0
15	.1	2.0	859	397	82	233	75	62	4.7	4.4	1.4	0
16	0	1.8	515	6,110	100	164	179	61	5.1	7.2	*1.2	0
17	.2	1.8	333	4,550	172	136	267	43	5.1	7.2	1.0	0
18	1.0	2.0	246	1,440	164	120	188	34	5.5	20	1.2	0
19	1.2	1.6	191	958	132	126	134	41	8.7	15	1.6	0
20	1.2	2.3	160	694	333	144	109	29	7.2	4.7	.8	0
21	1.2	2.5	153	1,090	612	134	85	24	4.4	2.8	9.5	0
22	.8	16	179	2,090	435	111	69	21	3.4	1.8	26	0
23	.5	7.0	179	1,860	319	97	63	14.5	3.1	1.6	12.5	0
24	1.8	3.1	147	1,190	661	100	339	10.5	2.3	1.6	5.5	0
25	1.8	4.4	132	859	678	100	305	9.3	3.4	13	3.1	0
26	*.6	2.5	128	694	499	179	239	21	4.4	23	1.4	0
27	.3	2.0	115	661	369	760	184	16	3.1	9.8	1.0	0
28	.1	2.3	134	678	1,090	*1,620	153	89	5.1	4.0	.8	0
29	0	2.3	467	563	-	1,020	1,210	88	6.8	2.0	1.0	0
30	0	2.0	793	499	---	727	1,190	75	5.4	1.6	1.0	.3
31	0	---	595	435	---	547	---	48	---	1.6	.5	---
Total	29.0	102.8	12,342.4	28,304	8,295	12,018	7,585	4,037.3	567.3	207.7	128.2	0.3
Mean	0.94	3.43	398	913	296	388	253	130	18.9	6.70	4.14	0.01
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-

Calendar year 1953: Max 7,620 Min 0 Mean 337 Cfsm 1.47 In. 19.98
 Water year 1953-54: Max 6,110 Min 0 Mean 202 Cfsm 0.882 In. 11.99

Peak discharge (base, 4,500 cfs).--Jan. 16 (9 p.m.) 7,300 cfs (23.6 ft).

* Discharge measurement or observation of no flow made on this day.

Cahaba River at Centerville, Ala.

Location.--Lat 32°56', long 87°08', in E $\frac{1}{2}$ sec. 26, T. 23 N., R. 9 E., on left bank below bridge on U. S. Highway 88, a quarter of a mile west of Centerville, half a mile upstream from Gulf, Mobile and Ohio Railroad bridge, and 2 $\frac{1}{2}$ miles upstream from Sandy Creek.

Drainage area.--1,030 sq mi, approximately.

Records available.--August 1901 to February 1908, May 1929 to March 1932, May 1935 to September 1954. Gage-height records collected at same site since January 1917 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 180.74 ft above mean sea level, datum of 1929, supplementary adjustment of 1944. Prior to Jan. 31, 1939, wire-weight, chain, or staff gages at same site and at same datum since May 1929. Prior to May 1929, at datum 1.15 ft lower.

Average discharge.--27 years (1901-7, 1929-31, 1935-54), 1,617 cfs.

Extremes.--Maximum discharge during year, 13,800 cfs Jan. 17; maximum gage height, 21.1 ft Jan. 17; minimum discharge, 118 cfs Sept. 13, 28, 29.

1901-8, 1929-32, 1935-54: Maximum discharge, 83,600 cfs Mar. 29, 1951; maximum gage height, 36.63 ft Apr. 8, 1938; minimum discharge observed, 90 cfs Oct. 24-29, 1904 (gage height, -0.35 ft, present datum).

Remarks.--Records good. Some diversion above station (see Remarks for station near Acton).

Revisions (water years).--WSP 682: 1901-8, 1929, WSP 872: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Rate of change in stage used as a factor Dec. 9, 10,
Jan. 16-18, 22-24, Mar. 27, 29)

Oct. 1 to Dec. 9

Dec. 10 to Sept. 30

2.5	150	2.2	105	6.0	1,970
3.0	347	2.6	228	10.0	4,280
4.0	800	3.0	390	16.0	8,400
6.0	1,850	4.0	885	21.0	13,500
10.0	4,280				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	213	186	198	1,970	*1,530	3,920	1,860	2,360	404	180	161	141
2	209	186	194	1,640	1,390	2,900	1,580	1,580	394	190	155	135
3	209	186	253	1,420	1,310	2,300	1,420	1,230	408	261	161	132
4	202	186	850	1,230	1,140	1,970	1,260	1,480	615	221	161	132
5	194	186	776	1,090	1,090	1,640	1,120	1,340	495	214	158	132
6	186	186	925	985	1,010	1,480	1,010	1,080	394	221	171	132
7	182	186	1,000	885	935	1,340	935	910	346	190	171	129
8	182	186	776	785	860	1,200	885	835	312	210	164	152
9	179	186	4,640	735	810	1,120	835	760	284	246	164	132
10	179	182	6,480	760	785	1,060	760	660	273	224	167	129
11	175	179	4,340	1,230	760	1,060	710	615	261	254	158	127
12	175	179	5,670	1,580	735	1,010	710	565	254	221	146	121
13	182	182	5,600	1,340	710	960	660	550	277	196	158	118
14	179	186	4,480	1,140	685	1,230	610	570	250	187	164	121
15	186	182	3,920	1,120	660	1,300	600	585	239	183	187	121
16	190	186	2,800	8,640	660	960	1,090	535	239	265	174	121
17	182	186	2,140	13,200	885	885	2,410	490	372	515	155	124
18	179	186	1,480	8,080	935	860	1,420	455	333	505	167	127
19	182	186	1,260	3,800	810	885	1,040	435	265	284	183	129
20	179	241	1,120	2,630	1,550	1,170	835	412	239	265	183	132
21	175	241	1,040	2,740	3,200	960	*735	399	*221	232	269	132
22	175	331	1,580	6,270	2,190	860	650	377	221	214	214	132
23	175	333	1,750	6,380	1,700	795	610	364	214	228	235	127
24	175	347	1,230	4,270	2,740	735	760	*550	210	300	196	124
25	175	306	1,060	3,140	3,080	735	1,170	329	207	228	183	132
26	172	265	960	2,520	*2,410	*935	1,140	321	207	*200	171	127
27	190	229	885	2,300	1,970	2,550	860	317	196	190	167	124
28	190	217	*885	2,460	2,520	6,370	760	338	200	177	155	118
29	186	202	1,580	2,140	-	4,150	1,400	346	193	163	164	118
30	*182	*198	2,740	1,920	-	2,860	3,560	595	180	*177	*155	*124
31	182	-	2,520	1,750	-	2,300	-	505	-	167	146	-
Total	5,721	6,478	65,132	90,150	39,060	52,490	33,405	21,668	8,703	7,328	5,363	3,825
Mean	185	216	2,101	2,908	1,395	1,693	1,114	699	290	236	173	128
Cfsm	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-

Calendar year 1953: Max 20,400

Min 172

Mean 1,601

Cfsm 1.55

In. 21.11

Water year 1953-54: Max 13,200

Min 118

Mean 950

Cfsm 0.903

In. 12.25

* Peak discharge (base, 20,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Note.--Discharge computed from graph based on once-daily wire-weight-gage readings Dec. 8-27, July 25, 29.

Cahaba River at Sprott, Ala.

Location.--Lat 32°40', long 87°14', NE¼ sec. 35, T. 20 N., R. 8 E., near right bank on downstream side of pier of bridge on State Highway 43, half a mile upstream from Goose Creek, 1 mile west of Sprott, and 5½ miles northeast of Marion.

Drainage area.--1,380 sq mi, approximately.

Records available.--October 1938 to September 1944 (fragmentary), October 1944 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 129.51 ft above mean sea level, datum of 1929, supplementary adjustment of 1943 (levels by Corps of Engineers). Prior to May 10, 1947, staff or wire-weight gages at present site and datum.

Average discharge.--10 years (1944-54), 2,146 cfs.

Extremes.--Maximum discharge during year, 11,600 cfs Jan. 18 (gage height, 14.9 ft); minimum, 191 cfs Sept. 14 (gage height, 4.34 ft).

1938-54: Maximum discharge, 85,200 cfs Aug. 16, 1939 (gage height, 27.5 ft); minimum observed since Oct. 1, 1944, that of Sept. 14, 1954.

Flood of Apr. 9, 1938, reached a stage of 28.55 ft, from floodmark (discharge, 95,000 cfs).

Remarks.--Records good. For diversion above station see Remarks for station near Acton.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Aug. 16 to Sept. 30)

Oct. 1 to Jan. 18

Jan. 19 to Sept. 30

4.6	216	11.0	6,900	4.4	170	7.0	2,700
5.2	660	15.0	11,800	4.7	368	13.0	9,100
7.0	2,540			5.5	1,070		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	343	271	343	2,650	2,130	*3,960	2,640	3,500	*617	272	260	222
2	343	277	330	2,160	1,960	3,850	2,240	2,240	600	279	254	217
3	323	277	393	1,890	1,800	2,930	2,020	*1,690	592	292	247	222
4	317	277	925	1,680	1,690	2,530	1,800	1,640	668	358	254	222
5	303	284	1,410	1,460	1,530	2,130	*1,580	1,600	775	336	254	212
6	297	284	1,780	1,360	1,480	1,910	1,430	1,480	608	300	247	212
7	290	277	1,890	1,250	1,580	1,740	1,330	1,240	515	300	266	217
8	284	277	1,460	1,120	1,280	1,580	1,270	1,100	467	285	266	212
9	277	277	3,190	1,020	1,220	1,480	1,200	1,040	435	292	260	212
10	277	277	8,000	965	1,180	1,360	1,130	920	412	343	260	212
11	277	277	7,450	1,150	1,170	1,360	1,040	860	396	307	260	206
12	277	277	6,020	1,680	1,170	1,360	1,050	813	396	343	247	206
13	277	277	7,890	1,680	1,100	1,300	990	775	420	300	247	201
14	277	277	6,240	1,460	1,070	1,370	920	775	420	*279	254	195
15	277	284	5,470	1,360	1,060	1,580	870	784	373	266	260	196
16	277	*277	4,040	2,980	1,000	1,360	1,580	775	396	336	265	206
17	277	277	*2,870	8,440	1,140	1,190	2,930	703	451	608	279	212
18	277	277	2,110	10,900	1,310	1,170	2,580	676	558	685	272	212
19	*277	277	1,780	9,100	1,270	1,480	1,800	626	459	583	*272	206
20	277	343	1,570	4,080	1,480	1,690	1,350	600	389	389	254	206
21	271	408	1,460	3,290	3,390	1,580	1,160	574	358	373	260	*201
22	265	492	1,690	5,000	3,280	1,260	1,020	532	351	336	322	201
23	259	652	2,320	7,000	2,470	1,170	940	515	343	314	285	201
24	246	616	2,060	6,500	2,700	1,090	900	507	329	314	285	196
25	240	509	1,570	*4,540	4,080	1,070	1,130	475	322	412	272	196
26	240	454	1,360	3,500	3,390	1,270	1,680	451	307	343	247	201
27	265	408	1,240	2,930	2,700	2,080	1,480	459	300	307	241	201
28	277	357	1,240	2,930	2,470	5,990	1,220	467	285	307	235	201
29	277	343	1,680	2,820	-	6,700	1,480	499	285	285	228	201
30	271	343	2,760	2,470	-	4,770	2,930	558	272	292	228	201
31	265	-	3,190	2,360	-	3,390	-	685	-	266	228	-
Total	8,700	10,205	85,931	101,695	51,900	67,800	45,700	29,759	13,099	10,702	8,029	6,207
Mean	281	340	2,772	3,280	1,854	2,187	1,523	960	437	345	259	207
Cfs/m	0.204	0.246	2.01	2.38	1.34	1.58	1.10	0.696	0.317	0.250	0.188	0.150
In.	0.23	0.28	2.32	2.74	1.40	1.83	1.23	0.80	0.35	0.29	0.22	0.17

Calendar year 1953: Max 17,200 Min 240 Mean 2,039 Cfs/m 1.48 In. 20.07

Water year 1953-54: Max 10,900 Min 196 Mean 1,205 Cfs/m 0.873 In. 11.86

Peak discharge (base, 15,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Cahaba River near Marion Junction, Ala.

Location.--Lat 32°27', long 87°11', on line between secs. 16 and 21, T. 17 N., R. 9 E., on right bank at downstream side of bridge on U. S. Highway 80, half a mile upstream from Southern Railway bridge, 3 miles downstream from Oakmulgee Creek, 3½ miles east of Marion Junction, and 20 miles upstream from mouth.

Drainage area.--1,780 sq mi, approximately.

Records available.--January 1939 to September 1954 (discontinued).

Gage.--Water-stage recorder. Datum of gage is 86.72 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Since Oct. 1, 1940, auxiliary wire-weight gage at Beloit, 12 miles downstream.

Average discharge.--15 years, 2,642 cfs.

Extremes.--Maximum discharge during year, 10,600 cfs Jan. 19 (gage height, 18.4 ft); minimum observed, 224 cfs Sept. 16 (gage height, 0.80 ft).
1939-54: Maximum discharge, 83,400 cfs Aug. 16, 1939 (gage height, 42.95 ft); minimum observed, that of Sept. 16, 1954.

Remarks.--Records good. For diversion above station see Remarks for station near Acton.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Jan. 19				Jan. 20 to Sept. 30			
1.3	324	13.0	6,810	0.8	224	6.0	2,700
2.0	580	18.0	10,300	1.3	350	12.0	6,300
8.0	3,670			2.0	615	17.0	9,600

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	540	389	520	3,730	2,700	*4,200	4,020	4,560	*885	327	295	243
2	500	392	500	3,020	2,460	5,220	3,300	3,600	810	315	288	240
3	464	392	600	2,580	2,220	4,440	2,820	2,460	860	333	278	228
4	453	392	1,510	2,300	2,060	3,600	2,520	*2,060	885	423	275	227
5	435	414	1,860	2,080	1,910	3,060	2,220	2,110	1,010	471	275	232
6	424	410	2,460	1,860	1,810	2,700	*2,010	2,010	960	444	273	234
7	417	403	2,850	1,710	1,760	2,400	1,910	1,710	810	381	271	227
8	399	399	2,300	1,560	1,660	2,160	1,810	1,560	710	357	275	227
9	396	399	4,150	1,480	1,560	2,010	1,710	1,410	660	351	278	234
10	389	399	6,950	1,410	1,510	1,910	1,610	1,310	592	364	275	234
11	385	399	8,620	1,410	1,510	1,810	1,510	1,240	548	374	273	237
12	385	399	9,460	1,760	1,510	1,810	1,460	1,210	520	364	273	234
13	382	403	8,620	2,020	1,460	1,760	1,460	1,160	525	357	269	231
14	382	410	9,180	1,860	1,410	1,710	1,360	1,140	550	345	267	225
15	382	414	8,130	1,710	1,360	1,860	1,260	1,140	525	*333	267	225
16	375	*421	6,350	2,240	1,560	1,860	4,210	1,140	494	330	275	224
17	372	417	4,390	6,020	1,410	1,610	4,980	1,060	735	710	*280	225
18	378	421	*3,310	8,410	1,560	1,510	4,800	985	710	810	275	227
19	*365	424	2,630	10,100	1,660	1,960	3,720	910	760	985	280	234
20	365	500	2,300	9,180	2,160	2,640	2,640	885	660	660	288	235
21	361	600	2,140	4,560	3,240	2,520	2,010	885	548	498	282	232
22	365	700	2,520	4,820	4,440	2,160	1,710	810	466	440	285	232
23	361	880	3,190	6,480	3,600	1,810	1,560	760	448	395	342	231
24	358	900	3,190	7,500	3,720	1,660	1,410	760	415	360	303	231
25	358	900	2,740	*6,720	4,380	1,560	1,460	710	388	395	309	231
26	355	780	2,240	4,740	4,680	1,660	1,960	710	378	419	278	*227
27	392	680	1,920	3,900	3,900	3,000	2,010	660	370	360	275	225
28	392	620	1,860	3,540	3,840	5,760	1,710	710	357	330	269	225
29	403	560	2,240	3,540	7,640	1,910	1,910	710	351	306	261	231
30	396	540	3,070	3,180	7,320	2,700	735	339	300	255	227	
31	392	-----	4,030	2,940	5,280	-----	860	-----	300	252	-----	-----
Total	12,321	15,357	115,830	118,140	66,850	90,600	69,770	41,970	18,249	13,137	8,641	6,915
Mean	397	512	3,736	3,811	2,388	2,923	2,326	1,354	608	424	279	250
Cfsm	0.223	0.288	2.10	2.14	1.34	1.84	1.30	0.761	0.342	0.238	0.157	0.129
In.	0.26	0.32	2.42	2.47	1.40	1.89	1.46	0.88	0.38	0.27	0.18	0.14

Calendar year 1953: Max 15,700 Min 334 Cfsm 2,660 Cfsm 1.49 In. 20.29
water year 1953-54: Max 10,000 Min 224 Mean 1,583 Cfsm 0.889 In. 12.07

Peak discharge (base, 14,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Note.--Discharge for periods June 21 to July 14, Aug. 30 to Sept. 30, computed from once-daily wire-weight-gage readings by U. S. Weather Bureau.

MOBILE RIVER BASIN

Cedar Creek at Minter, Ala.

Location.--Lat 32°05', long 86°59', in SE $\frac{1}{4}$ sec. 20, T. 13 N., R. 11 E., on right bank on upstream side of bridge on county road, 0.2 mile downstream from Snake Creek, 0.5 mile east of Minter, and 4 miles upstream from Dry Cedar Creek.

Drainage area.--212 sq mi.

Records available.--June 1952 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 123.50 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 5,040 cfs Dec. 5 (gage height, 16.26 ft); minimum daily, 0.1 cfs Aug. 12, Sept. 15.
1952-54: Maximum discharge, 7,940 cfs May 3, 1953 (gage height, 19.4 ft); minimum daily, that of Aug. 12, Sept. 15, 1954.

Remarks.--Records good above 10 cfs, fair between 1.0 and 10 cfs, and poor below 1.0 cfs and for periods of no gage-height record.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 5

Dec. 6 to Sept. 30

0.8	15	8.0	1,390
1.2	42	11.0	2,280
2.0	123	14.0	3,520
3.0	259	16.0	4,800
5.0	654		

0.26	0.1	.8	15
.3	.6	1.1	36
4	2.2	2.0	133
.5	4.4	4.0	468
.6	7.1	8.0	1,390

Note.--Same as preceding table above 8.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	85	17	36	350	121	943	270	75	17	5.4	2.6	0.4
2	69	17	35	290	107	*352	230	89	*15	5.7	2.2	.3
3	59	17	109	250	101	250	200	68	14	6.0	2.0	.3
4	49	17	3,460	220	94	210	180	*54	13	37	1.6	.2
5	43	19	4,110	200	87	180	160	48	13	16	2.0	.2
6	38	22	1,480	180	83	160	*144	43	12	11	2.4	.6
7	35	24	1,460	160	82	150	136	40	11	7.1	1.3	.9
8	32	20	367	150	75	140	128	37	11	6.3	1.2	.3
9	30	18	423	140	75	133	125	34	9.9	49	1.6	.2
10	28	18	562	130	76	130	113	34	9.9	20	1.0	.6
11	27	17	383	120	75	128	106	40	9.2	15	.2	.6
12	25	16	2,450	110	72	123	102	45	8.8	9.9	.7	.7
13	24	16	1,980	110	65	342	94	50	19	8.5	.2	.4
14	22	16	1,610	110	64	3,270	88	48	32	6.8	.2	.3
15	21	15	*562	120	65	1,730	83	47	19	*6.3	.4	.1
16	20	15	352	120	70	370	1,190	41	12	13	.9	.7
17	19	*16	290	110	93	270	259	37	16	14	*.4	2.0
18	18	16	270	100	90	250	140	33	24	18	.7	1.6
19	18	17	280	100	122	682	103	32	22	18	.9	1.2
20	17	42	350	130	1,520	705	85	31	20	13	.6	.9
21	17	140	441	190	1,840	352	78	29	15	11	.4	2.3
22	17	272	771	210	396	270	83	25	12	7.4	.7	.9
23	*17	250	909	170	259	220	96	23	10	6.5	.7	.4
24	17	100	405	140	705	210	94	22	8.8	5.7	1.4	.3
25	17	106	510	130	524	230	147	20	7.4	7.0	1.0	*.2
26	16	87	300	*120	293	300	129	20	6.5	9.9	.6	.3
27	19	62	300	118	234	759	85	24	6.5	8.5	.4	.3
28	24	47	350	134	1,310	*2,540	70	32	5.7	7.1	.7	.4
29	26	41	622	123	-	684	64	33	5.1	6.0	2.4	1.4
30	19	38	505	118	-----	432	78	25	4.4	4.7	.7	1.6
31	18	-----	524	141	-----	336	-----	20	-----	3.7	.6	-----
Total	866	1,520	26,026	4,794	8,698	16,851	4,860	1,199	389.2	363.5	32.1	20.6
Mean	28.6	50.7	840	155	311	544	162	36.7	13.0	11.7	1.04	0.89
Cfsm	0.135	0.239	3.96	0.731	1.47	2.57	0.764	0.193	0.061	0.055	0.005	0.003
In.	0.16	0.27	4.57	0.84	1.53	2.96	0.85	0.21	0.07	0.06	0.006	0.004

Calendar year 1953: Max 6,040

Min 3.5

Mean 334

Cfsm 1.58

In. 21.38

Water year 1953-54: Max 4,110

Min 0.1

Mean 180

Cfsm 0.849

In. 11.53

Peak discharge (base, 3,500 cfs).--Dec. 5 (10 a.m.) 5,040 cfs (16.26 ft); Mar. 15 (1 a.m.) 4,240 cfs (15.16 ft).

* Discharge measurement made on this day.

Note.--No gage-height record Oct. 6-22, Dec. 17-20, 25-28, Jan. 1-25, Mar. 3-8, 17, 18, 22-26, Apr. 1-5; discharge estimated on basis of records for nearby streams.

Boguechitto Creek near Browns, Ala.

Location.--Lat 32°26', long 87°20', in NW $\frac{1}{4}$ sec. 24, T. 17 N., R. 7 E., on downstream side of bridge on U. S. Highway 80, $\frac{2}{3}$ third of a mile upstream from Southern Railway bridge, 2 miles east of Browns, and 2 $\frac{1}{2}$ miles downstream from Washington Creek.

Drainage area.--93 sq mi, approximately.

Records available.--February 1944 to June 1954 (discontinued).

Gage.--Water-stage recorder. Datum of gage is 129.39 ft above mean sea level, datum of 1929, supplementary adjustment of 1943 (levels by Corps of Engineers). Prior to Feb. 1, 1945, chain gage, and Feb. 1, 1945, to Dec. 10, 1949, wire-weight gage, at same site and datum.

Average discharge.--9 years (1944-53), 141 cfs.

Extremes.--Maximum discharge during period October 1953 to June 1954, 2,440 cfs Apr. 16 (gage height, 14.06 ft); minimum daily, 0.1 cfs Nov. 12-16.

1944-54: Maximum discharge, 14,200 cfs Mar. 29, 1951 (gage height, 19.0 ft); no flow for many days during 1951-53.

Flood of Dec. 28, 1942, reached a stage of 20.7 ft, from floodmarks.

Remarks.--Records good above 50 cfs, fair between 10 and 50 cfs, and poor below 10 cfs and for periods of no gage-height record.

Rating table, Oct. 1, 1953 to June 30, 1954 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 11 to Nov. 21)

0.37	0.1	2.0	41
.4	.3	3.0	98
.5	.9	4.0	172
.6	1.7	6.0	354
.8	4.1	9.0	755
1.1	9.9	12.0	1,510
1.5	22	13.0	1,650

Discharge, in cubic feet per second, October 1953 to June 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.5	1.0	8.8	108	40	*188	75	112	*9.7			
2	3.7	.8	9.9	75	36	98	57	82	*7.1			
3	3.7	.6	29	66	35	79	50	*65	7.1			
4	3.2	.4	354	61	33	75	44	56	6.8			
5	1.9	.8	148	56	31	61	*39	44	9.8			
6	1.5	.7	337	55	30	57	36	33	7.3			
7	1.0	.6	437	49	29	54	34	27	6.2			
8	.7	.5	125	44	29	52	33	23	5.5			
9	.7	.4	555	42	27	50	31	35	4.6			
10	.6	.3	1,310	42	28	50	29	25	3.8			
11	3.3	.2	568	47	29	50	26	24	3.1			
12	5.5	.1	828	46	31	48	25	29	2.6			
13	3.2	.1	746	40	29	47	25	31	2.1			
14	2.8	.1	542	37	26	52	23	36	1.8			
15	1.9	.1	296	39	27	52	24	31	1.6			
16	1.4	*.1	152	134	28	40	1,330	25	1.5			
17	1.2	.2	116	116	32	36	1,380	21	1.5			
18	1.3	.3	*92	64	35	36	199	17	2.4			
19	*4.5	.3	79	50	29	192	69	16	7.5			
20	7.9	1.9	75	46	236	420	47	14	5.8			
21	5.8	5.4	102	48	294	145	39	12	4.4			
22	2.7	12	357	150	95	71	31	12	3.5			
23	1.7	52	546	164	57	52	27	11	2.8			
24	1.3	39	179	82	380	46	25	10	2.2			
25	1.3	25	95	*61	213	42	28	9.6	1.8			
26	1.3	27	82	54	95	45	120	9.3	1.5			
27	2.4	20	66	51	69	471	85	9.3	1.3			
28	2.1	14	104	48	291	1,300	44	9.5	1.2			
29	1.8	12	314	41	-	355	163	11	1.1			
30	1.5	9.9	275	39	-	144	266	12	1.0			
31	1.1	-	156	44	-	102	-	12	-			
Total	76.5	225.8	9,021.7	1,999	2,314	4,490	4,402	863.7	118.7			
Mean	2.47	7.53	291	64.5	82.6	145	147	27.9	3.96			
Cfs/m	0.027	0.081	3.13	0.694	0.888	1.56	1.58	0.300	0.043			
In.	0.03	0.09	3.61	0.80	0.93	1.80	1.76	0.35	0.05			

Calendar year 1953: Max 2,120

Min 0

Mean 135

Cfs/m 1.45

In. 19.70

Water year 1953-54: Max -

Min -

Mean -

Cfs/m -

In. -

Peak discharge (base, 2,500 cfs).--No peak above base.

* Discharge measurement made on this day.

Note.--No gage-height record May 22-28, June 10-18, 21-30; discharge estimated on basis of weather records and records for nearby streams.

MOBILE RIVER BASIN

Alabama River near Millers Ferry, Ala.

Location.--Lat 32°07', long 87°24', in NW $\frac{1}{4}$ sec. 8, T. 13 N., R. 7 E., on downstream hand-rail near midspan of bridge on State Highway 28, just downstream from Prairie Creek, $2\frac{1}{2}$ miles northwest of Millers Ferry.

Drainage area.--20,700 sq mi, approximately.

Records available.--October 1937 to September 1954 (discontinued). Gage-height records collected at same site since 1931 are contained in reports of U. S. Weather Bureau.

Gage.--Wire-weight gage read twice daily. Datum of gage is 26.82 ft above mean sea level, datum of 1929, supplementary adjustment of 1943 (levels by Corps of Engineers). Prior to Oct. 2, 1939, staff gage at same site and datum. Auxiliary staff gage $9\frac{1}{2}$ miles downstream from base gage.

Average discharge.--17 years, 30,330 cfs.

Extremes.--Maximum discharge during year, 85,300 cfs Jan. 27 (gage height, 33.8 ft); minimum daily, 3,700 cfs Sept. 29.

1937-54: Maximum discharge, 237,000 cfs Apr. 14, 1938 (gage height, 56.6 ft); minimum daily, that of Sept. 29, 1954.

Flood in March 1929 reached a stage of 56.8 ft, from floodmarks (discharge, 238,000 cfs). Flood in April 1886 reached a stage of from 1 to 5 ft higher than that of March 1929.

Remarks.--Records fair. Flow regulated by Allatoona Reservoir, Lake Martin and Coosa River Reservoirs (see p. 241).

Cooperation.--Gage-height record and nine discharge measurements furnished by Corps of Engineers.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31,200	10,600	9,400	35,900	69,000	37,500	54,700	20,900	a11,000	*8,100	8,580	6,310
2	25,500	9,570	7,800	35,400	64,300	38,800	55,300	22,900	a9,400	8,740	8,100	6,450
3	20,300	8,000	8,740	34,700	55,000	44,400	49,200	24,200	*9,400	9,060	8,100	7,200
4	16,500	6,630	14,400	32,500	46,000	42,800	41,900	22,000	10,900	9,060	6,630	7,500
5	13,500	6,900	25,500	29,500	37,100	40,500	38,600	21,800	13,300	9,060	6,200	7,350
6	10,600	9,570	35,700	25,500	28,900	37,200	35,200	23,000	13,100	9,230	6,210	6,900
7	6,920	11,300	52,700	22,900	27,900	34,700	35,700	20,300	13,300	a9,600	7,800	a6,000
8	7,200	11,300	55,000	21,500	27,000	31,400	32,800	18,000	13,500	7,950	a8,000	a5,200
9	8,740	10,800	54,700	19,800	23,700	29,600	33,800	18,700	14,700	6,340	7,800	a5,400
10	9,910	9,570	61,600	18,800	21,800	26,200	30,800	19,200	15,300	7,200	6,770	a5,000
11	10,400	7,500	59,300	16,100	23,500	27,100	28,900	16,100	15,300	7,500	6,900	6,790
12	10,200	*7,200	62,600	16,700	21,500	26,800	27,500	13,800	14,200	7,350	6,490	a8,900
13	8,740	9,910	67,000	*18,400	20,700	26,600	24,600	15,000	14,400	7,500	7,800	9,400
14	6,210	11,100	62,300	19,600	19,600	26,400	23,600	16,300	15,800	6,490	9,060	*7,800
15	6,750	10,900	71,400	20,900	17,700	29,100	*22,600	16,300	11,800	5,870	9,570	5,120
16	9,400	10,400	69,400	21,500	16,300	26,400	30,800	16,600	9,000	7,950	9,570	5,930
17	10,400	8,370	64,300	22,400	*15,600	28,000	47,000	14,600	8,680	8,740	8,260	8,260
18	10,100	6,770	50,600	32,300	16,700	29,300	43,100	11,300	10,200	8,900	6,900	8,830
19	10,600	a6,900	39,900	50,300	18,800	30,700	36,700	8,590	11,800	8,580	7,350	7,200
20	8,370	7,660	39,400	69,000	21,100	34,000	32,800	a13,700	13,300	8,100	8,580	6,750
21	6,770	11,100	34,700	73,500	29,100	35,000	27,500	18,300	13,900	7,800	8,900	5,670
22	7,200	11,600	32,800	75,500	31,600	33,500	28,000	16,300	13,200	7,650	9,060	a5,200
23	10,200	12,000	34,500	75,800	33,500	30,900	25,400	a15,000	11,000	a8,200	8,420	5,430
24	11,100	11,600	35,200	78,600	35,000	27,700	25,600	14,500	11,200	a8,400	6,490	7,500
25	10,800	9,060	36,400	82,200	37,200	24,000	25,600	a11,000	12,100	8,580	6,310	7,500
26	10,100	8,150	36,200	a84,000	35,400	22,400	20,900	a9,600	10,400	a8,800	7,350	a6,000
27	9,080	11,800	34,700	85,000	35,400	24,700	18,400	a12,000	10,100	a9,200	8,740	5,610
28	6,260	12,500	32,300	82,800	38,500	24,400	14,500	a14,000	10,400	9,610	9,060	4,050
29	7,050	13,300	30,500	79,700	42,200	16,500	a13,000	10,400	8,900	9,230	a3,700	4,050
30	9,910	10,600	32,800	76,200	-----	44,300	17,500	a13,000	10,700	*8,420	8,420	*5,330
31	11,100	-----	32,500	73,100	-----	50,200	-----	a12,000	-----	8,900	7,500	-----
Total	341,090	292,660	1,284,340	1,430,1	867,900	1,015,8	943,400	502,990	359,780	253,780	244,150	195,280
Mean Cfs	11,000	9,755	41,430	46,130	31,000	32,770	31,450	16,230	11,990	8,186	7,876	6,509
In.	-	-	-	-	-	-	-	-	-	-	-	-

Calendar year 1953: Max 127,000 Min 5,730 Mean 33,520 Cfsm 1.62 In. 21.98
 Water year 1953-54: Max 85,000 Min 3,700 Mean 21,180 Cfsm 1.02 In. 13.89

* Discharge measurement made on this day.

† Expressed in thousands.

a Doubtful or no gage-height record; discharge estimated on basis of records for stations at Selma and Claiborne.

Flat Creek at Fountain, Ala.

Location.--Lat 31°37', long 87°25', in SE¼ sec. 36, T. 8 N., R. 6 E., on downstream side of midchannel pier of bridge on State Highway 11, three-quarters of a mile downstream from St. Louis-San Francisco Railway bridge, 1 mile northwest of Fountain, 2 miles upstream from Bradley Mill Creek, 8 miles upstream from mouth, and 8 miles northwest of Monroeville.

Drainage area.--253 sq mi.

Records available.--February 1944 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 45.48 ft above mean sea level, datum of 1929. Prior to July 21, 1944, wire-weight gage at same site and datum.

Average discharge.--10 years, 286 cfs.

Extremes.--Maximum discharge during year, 2,210 cfs Dec. 6 (gage height, 9.7 ft); minimum, 0.2 cfs Sept. 13, 14.

1944-54: Maximum discharge, 26,000 cfs Nov. 27, 1948 (gage height, 23.2 ft), from rating curve extended above 17,000 cfs; minimum, that of Sept. 13, 14, 1954.

Remarks.--Records good above 10 cfs and fair below except those after June 11, and those for periods of no gage-height record, which are poor.

Cooperation.--Seven discharge measurements furnished by Corps of Engineers.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 5 to Sept. 30)

0.6	0	1.4	67
.7	1.9	2.0	163
.8	6.1	3.0	350
.9	12	6.0	1,100
1.0	20	10.0	2,300

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	7.1	27	664	132	400	454	55	14	5.1	14	5.1
2	17	6.6	23	454	127	320	350	47	*14	5.1	8.9	3.6
3	12	6.1	147	360	115	270	290	41	13	5.6	8.9	3.0
4	11	6.6	1,670	*300	106	220	243	36	11	5.6	8.3	2.6
5	9.5	13	1,970	261	98	200	211	33	11	5.1	7.7	2.3
6	9.5	12	*2,150	229	93	190	189	31	10	6.1	6.6	1.9
7	9.5	11	1,760	203	88	170	173	29	11	*5.1	5.6	1.6
8	9.5	11	1,100	180	*81	160	163	27	12	5.6	4.2	1.3
9	10	12	532	165	78	150	154	25	14	5.6	3.8	.7
10	10	11	568	161	78	140	129	29	14	5.6	3.4	.7
11	9.5	10	592	153	77	130	115	27	17	7.7	3.0	.5
12	8.9	*10	1,400	141	74	120	*102	31	17	10	2.3	.3
13	8.3	10	1,940	*127	67	130	94	29	16	11	*1.9	.2
14	7.7	10	2,150	117	54	400	86	27	14	16	1.9	.2
15	6.1	10	1,820	114	64	*1,130	*78	28	14	13	1.9	*.3
16	*6.6	10	982	124	64	794	147	28	14	13	2.3	.3
17	6.6	11	476	122	*67	330	170	25	16	21	2.3	.3
18	6.6	11	360	114	77	243	110	22	16	23	1.9	.5
19	6.1	11	290	109	104	310	86	34	16	14	1.9	.3
20	5.6	48	290	102	594	690	74	31	19	14	1.6	.3
21	5.6	49	370	112	1,460	716	59	24	20	14	1.3	.3
22	5.6	139	616	182	1,370	400	220	19	11	11	1.3	.7
23	*5.6	252	1,160	270	616	290	120	17	11	11	1.6	.5
24	5.6	177	1,040	243	690	234	130	15	8.9	13	4.7	.5
25	5.6	107	544	180	982	209	110	15	8.3	62	5.1	.5
26	5.6	78	390	146	690	234	150	15	7.1	35	3.4	.7
27	14	49	320	134	500	610	85	16	6.6	22	3.4	.5
28	9.5	38	310	136	450	1,940	70	17	6.1	16	3.8	.5
29	8.3	32	454	132	-	2,030	70	15	5.6	14	4.2	.5
30	13	30	794	129	-----	1,610	*71	15	*5.1	11	4.2	.7
31	9.5	-----	873	129	-----	690	-----	15	-----	19	4.7	-----
Total	278.9	1,188.4	27,118	5,993	9,006	15,460	4,503	818	372.7	425.2	130.1	31.6
Mean	9.00	39.6	875	193	322	499	150	26.4	12.4	13.7	4.20	1.05
Cfsm	0.036	0.157	3.46	0.762	1.27	1.97	0.593	0.104	0.049	0.054	0.017	0.0042
In.	0.04	0.17	3.99	0.88	1.32	2.27	0.66	0.12	0.05	0.06	0.02	0.005

Calendar year 1953: Max 2,680 Min 4.2 Mean 311 Cfsm 1.23 In. 16.71

Water year 1953-54: Max 2,150 Min 0.2 Mean 179 Cfsm 0.708 In. 9.58

Peak discharge (base, 3,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Note.--No gage-height record Feb. 26 to Mar. 14, Apr. 17-29, and May 1 to June 1; discharge estimated on basis of recorded range in stage and records for Limestone Creek near Monroeville.

MOBILE RIVER BASIN

Limestone Creek near Monroeville, Ala.

Location.--Lat 31°34', long 87°21', in NE $\frac{1}{4}$ sec. 22, T. 7 N., R. 7 E., near left bank on downstream side of pier of bridge on State Highway 11, 3 miles northwest of Monroeville and 10 miles upstream from mouth.

Drainage area.--126 sq mi.

Records available.--December 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 104.88 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Extremes.--Maximum discharge during year, 4,300 cfs Dec. 4 (gage height, 9.5 ft); minimum, 12 cfs Sept. 5, 7-10, 12-15.

1951-54: Maximum discharge, that of Dec. 4, 1953; minimum, that of Sept. 5, 7-10, 12-15, 1954.

Flood of March 1929 reached a stage of about 22 ft, from information by local residents.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.5	12	4.0	460
.7	16	5.0	680
1.0	27	6.0	970
1.4	51	7.0	1,440
2.0	117	8.0	2,220
3.0	271	9.0	3,410

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	39	78	280	164	254	289	74	35	21	19	14
2	46	39	73	254	152	205	229	69	33	23	18	13
3	43	37	206	246	146	200	205	71	*34	23	19	13
4	40	39	*2,840	*229	137	184	189	62	33	23	22	13
5	38	58	1,000	221	134	177	174	59	32	28	19	12
6	38	64	970	213	131	174	166	57	32	32	18	13
7	40	46	1,000	197	129	166	171	56	30	*27	17	12
8	38	44	480	191	*125	160	158	53	30	56	17	12
9	37	44	432	188	126	159	144	51	30	114	18	12
10	36	42	638	189	127	154	136	55	31	43	16	12
11	36	42	450	186	127	152	130	53	28	36	15	13
12	34	42	1,220	171	121	146	*127	57	26	39	14	12
13	34	42	940	166	117	150	118	55	46	33	*14	12
14	33	42	910	166	117	205	110	53	33	28	14	12
15	33	42	655	171	118	*152	105	55	28	26	15	*12
16	34	43	422	183	117	137	133	55	26	26	15	15
17	33	43	365	166	120	131	144	49	31	48	15	26
18	32	43	318	154	113	133	109	47	52	36	14	21
19	32	43	298	153	130	227	98	60	46	30	14	18
20	33	150	308	153	800	572	91	57	34	27	14	16
21	33	204	540	202	1,190	229	80	49	32	24	22	15
22	32	241	460	346	365	177	164	44	32	22	21	15
23	*32	384	500	254	262	162	116	42	35	21	18	14
24	33	140	346	189	510	152	124	39	28	46	25	14
25	33	125	298	176	403	144	113	39	26	35	18	14
26	32	103	271	168	280	236	133	39	26	26	16	14
27	60	88	254	168	246	365	98	40	24	28	16	14
28	56	81	271	165	262	1,040	87	42	23	27	20	14
29	41	76	422	152	-	470	84	39	25	24	18	14
30	38	80	374	174	-----	336	*88	39	22	22	15	18
31	39	-----	374	205	-----	280	-----	37	-----	21	14	-----
Total	1,168	2,508	17,913	6,076	6,769	7,429	4,113	1,597	943	1,015	530	429
Mean	37.7	83.6	576	196	242	240	137	51.5	31.4	32.7	17.1	14.3
Cfs/m	0.299	0.663	4.59	1.56	1.92	1.90	1.09	0.409	0.249	0.260	0.136	0.113
In.	0.34	0.74	5.29	1.79	2.00	2.19	1.21	0.47	0.28	0.30	0.16	0.13
Calendar year 1953: Max	2,840			Min 27		Mean 184		Cfs/m 1.46		In. 19.86		
Water year 1953-54: Max	2,840			Min 12		Mean 138		Cfs/m 1.10		In. 14.90		

Peak discharge (base, 1,300 cfs).--Dec. 4 (9 a.m.) 4,300 cfs (9.5 ft); Dec. 6 (10 p.m.) 1,860 cfs (7.6 ft); Dec. 12 (3 p.m.) 2,040 cfs (7.8 ft); Feb. 20 (12 p.m.) 2,420 cfs (8.2 ft); Mar. 28 (9 a.m.) 1,440 cfs (7.0 ft).

* Discharge measurement made on this day.

Alabama River at Claiborne, Ala.

Location.--Lat 31°32', long 87°31', in sec. 25, T. 7 N., R. 5 E., near left bank on downstream side of pier of bridge on U. S. Highway 84 at Claiborne, half a mile downstream from Limestone Creek and 12 miles west of Monroeville.

Drainage area.--22,000 sq mi, approximately.

Records available.--April 1930 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 0.4 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Average discharge.--24 years, 32,190 cfs.

Extremes.--Maximum discharge during year, 81,300 cfs Jan. 27; maximum gage height, 34.9 ft Jan. 28; minimum discharge, 4,660 cfs Sept. 30 (gage height, 6.47 ft); minimum daily, 4,840 cfs Sept. 30.
1930-54: Maximum discharge, 227,000 cfs Apr. 16, 17, 1938; maximum gage height, 52.25 ft Apr. 17, 1938; minimum discharge, that of Sept. 30, 1954.

Remarks.--Records good. Flow regulated by Allatoona Reservoir, Lake Martin and Coosa River Reservoirs (see p. 241).

Cooperation.--Gage-height record and 14 discharge measurements furnished by Corps of Engineers.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32,100	11,100	11,200	36,100	71,400	38,700	52,900	19,800	12,400	8,720	8,240	7,680
2	28,900	10,600	9,800	37,400	67,000	40,700	54,800	21,800	*10,800	*8,060	8,160	6,710
3	24,200	10,100	9,260	37,300	62,000	41,500	52,600	23,900	9,760	8,660	7,840	6,400
4	19,900	9,240	15,900	35,800	55,000	43,100	47,400	23,900	9,520	8,740	7,520	6,990
5	16,600	7,990	24,200	33,500	45,700	42,200	41,800	21,800	11,800	8,910	7,150	7,370
6	14,100	7,150	35,800	30,000	38,300	40,000	39,000	21,600	12,800	8,910	6,780	7,450
7	11,600	9,060	47,700	26,700	32,900	37,500	36,800	21,400	13,100	8,910	7,070	7,380
8	9,050	10,800	53,400	24,800	29,200	35,200	35,800	20,400	13,300	8,230	7,520	6,500
9	7,360	11,200	54,800	22,800	27,100	32,500	34,500	20,500	13,400	7,450	7,840	5,540
10	8,490	10,900	59,500	21,200	24,300	29,800	32,400	20,300	13,800	6,710	7,760	5,710
11	9,800	9,390	59,300	20,800	22,900	27,600	30,000	18,800	14,200	6,770	7,300	6,750
12	10,600	7,910	64,900	19,100	22,300	26,500	28,300	16,500	14,300	6,850	6,780	7,830
13	10,400	*7,370	69,000	18,600	21,700	26,300	26,700	15,100	14,300	6,850	6,920	*9,180
14	9,130	9,180	70,500	*19,600	20,800	30,800	25,200	15,600	14,500	6,850	7,450	9,430
15	7,680	10,500	71,400	20,900	19,700	32,500	24,100	16,400	13,600	6,420	8,400	8,390
16	*7,300	10,900	70,500	22,500	18,200	30,300	*31,600	16,200	11,700	6,100	9,170	7,080
17	9,180	10,400	67,700	22,500	*16,900	27,800	46,300	15,300	10,400	7,210	9,260	6,850
18	10,300	9,320	60,700	25,300	16,600	29,800	46,000	14,700	9,960	7,920	8,310	7,830
19	10,400	7,910	52,300	35,000	18,100	33,300	40,600	13,100	10,600	8,320	7,080	8,080
20	10,700	7,920	45,400	52,500	24,200	37,200	36,400	12,200	12,000	8,160	7,070	7,600
21	9,800	9,440	40,500	65,000	31,200	37,900	32,700	14,900	12,800	7,840	7,990	7,230
22	8,060	11,400	38,300	70,400	34,700	37,100	29,300	16,300	13,000	7,380	8,480	6,500
23	7,920	12,500	38,800	71,700	35,100	35,100	26,900	15,700	12,100	7,300	8,740	5,680
24	10,100	12,700	39,700	75,400	38,000	31,400	25,800	14,900	11,000	7,680	8,570	*5,920
25	11,100	11,700	39,300	75,700	40,700	28,100	25,300	13,500	11,000	7,920	7,370	7,210
26	11,200	10,100	38,700	78,800	39,200	25,500	24,100	11,500	11,200	7,920	6,490	7,450
27	10,900	*9,980	37,200	80,400	38,400	26,800	21,800	10,300	10,900	8,180	7,060	7,380
28	9,660	11,900	36,000	89,500	38,300	36,700	18,900	12,300	10,600	8,400	8,320	6,930
29	*8,310	12,400	34,700	*79,500	-	43,700	17,500	13,700	10,500	7,450	8,650	5,920
30	7,840	12,000	34,400	76,600	-----	45,200	18,200	13,100	10,000	*7,150	9,080	4,840
31	9,720	-----	32,500	74,500	-----	48,500	-----	12,600	-----	*7,920	8,900	-----
Total	372,780	303,280	1,363,560	1,388,3	949,900	1,078.9	1,003.7	518,100	359,340	239,870	243,440	211,810
Mean	12,030	10,110	43,980	44,880	33,920	34,800	33,460	16,710	11,980	7,738	7,853	7,060
Cfs	-	-	-	-	-	-	-	-	-	-	-	-
In.	-	-	-	-	-	-	-	-	-	-	-	-
Calendar year 1953: Max	124,000	Min	6,000	Mean	34,620	Cfs	1.57	In.	21.36			
Water year 1953-54: Max	80,500	Min	4,840	Mean	22,010	Cfs	1.00	In.	13.58			

* Discharge measurement made on this day.

† Expressed in thousands.

Mackys Creek near Dennis, Miss.

Location.--Lat 34°32', long 88°20', in sec. 26, T. 6 S., R. 9 E., Chickasaw meridian, on left bank at downstream side of bridge on State Highway 4 at Narrows dam site, 6 miles southwest of Dennis and about 10 miles upstream from confluence with Browns Creek.

Drainage area.--66 sq mi, approximately.

Records available.--February 1938 to September 1954. Prior to January 1944, monthly discharge only.

Gage.--Water-stage recorder. Datum of gage is 333.47 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Oct. 15, 1948, staff gage at same site and datum.

Average discharge.--16 years, 110 cfs.

Extremes.--Maximum discharge during year not determined, occurred Jan. 22; minimum, 8.2 cfs Sept. 3, 4, 5 (gage height, 1.82 ft).

1938-54: Maximum discharge observed, 3,520 cfs Feb. 13, 1948 (gage height, 22.08 ft); minimum not determined.

Remarks.--Records fair except those for periods of no gage-height record, which are poor.

Cooperation.--Gage-height record and nine discharge measurements furnished by Corps of Engineers.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.8	7.0	4.0	340
2.0	20	5.0	400
2.2	40	7.0	560
2.5	88	10.0	890
3.0	208	12.0	1,220
3.5	296	14.0	1,700

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1	19	27	31	46	75	110	187	108	34	15	13	9.4	
2	18	26	31	44	72	94	92	98	*32	16	13	8.8	
3	19	27	49	44	68	175	79	357	86	16	24	8.8	
4	18	27	94	43	64	100	72	230	54	19	17	8.8	
5	18	26	43	43	60	90	67	117	37	18	13	8.8	
6	19	25	168	*43	59	84	65	94	32	16	12	8.8	
7	18	26	70	41	57	79	62	86	29	17	11	8.8	
8	19	27	44	41	54	79	90	83	28	16	12	8.8	
9	19	27	97	41	*57	75	80	70	31	19	11	8.8	
10	19	28	68	59	56	74	75	60	47	16	9.4	8.8	
11	19	28	46	79	74	74	150	56	30	16	*10	9.4	
12	17	28	59	54	67	72	200	54	28	16	9.4	9.4	
13	17	28	47	46	57	74	180	94	26	16	9.4	*9.4	
14	16	28	83	58	56	67	150	98	24	16	11	9.4	
15	16	29	59	216	56	59	200	79	24	13	11	*9.4	
16	18	29	46	418	69	56	280	62	24	13	10	9.4	
17	19	29	41	218	128	57	320	51	61	13	10	9.4	
18	19	*29	37	106	75	59	260	53	51	27	9.4	11	
19	20	30	38	92	72	86	150	47	33	29	9.4	11	
20	20	31	41	92	680	88	85	*44	27	16	11	10	
21	20	31	53	440	459	*72	*77	40	25	17	18	16	
22	22	39	50	1,580	149	65	72	39	24	107	14	19	
23	22	46	41	500	119	65	68	38	27	29	12	16	
24	22	32	38	196	142	67	86	40	24	19	11	15	
25	22	31	39	137	102	79	72	37	21	16	14	14	
26	*24	31	39	115	90	128	59	*34	19	16	22	14	
27	27	31	39	135	81	84	51	40	19	15	12	14	
28	28	30	78	102	180	75	50	80	18	14	10	12	
29	27	31	104	92	-	68	60	70	17	14	13	11	
30	26	31	62	84	-----	65	130	50	*17	13	12	11	
31	27	-----	51	77	-----	162	-----	40	-----	13	9.4	-----	
Total	634	888	1,786	5,282	3,278	2,592	3,569	2,449	949	616	383.4	328.4	
Mean	20.5	29.6	57.6	170	117	83.6	119	79.0	31.6	19.9	12.4	10.9	
Cfsm	0.311	0.448	0.873	2.58	1.77	1.27	1.80	1.20	0.479	0.302	0.188	0.165	
In.	0.36	0.50	1.01	2.98	1.85	1.46	2.01	1.38	0.53	0.35	0.22	0.19	
Calendar year 1953: Max	2,120			Min	16		Mean	126	Cfsm	1.91	In.	25.91	
Water year 1953-54: Max	1,580				Min	8.8		Mean	62.3	Cfsm	0.944	In.	12.84

Peak discharge (base, 1,500 cfs)--Jan. 22 (time and discharge unknown).

* Discharge measurement made on this day.

Note.--No gage-height record Oct. 19-25, Jan. 21-23, Feb. 20, Apr. 8-20, 29, 30, May 27-30, Sept. 6-12; discharge estimated on basis of weather records and records for other stations in basin.

East Fork Tombigbee River near Fulton, Miss.

Location.--Lat 34°15'55", long 88°26'42", in SE $\frac{1}{4}$ sec. 27, T. 9 S., R. 8 E., Chickasaw meridian, on left bank at downstream side of bridge on U. S. Highway 78, 1,000 ft downstream from Twentymile-Fulton Canal, 2 miles west of Fulton, 6 $\frac{1}{2}$ miles upstream from Mantachie Creek Canal, and 13 $\frac{1}{2}$ miles downstream from Twentymile Creek Canal.

Drainage area.--605 sq mi.

Records available.--August 1928 to September 1954. Gage-height records collected at site 800 ft upstream 1909-12 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 242.70 ft above mean sea level, datum of 1929. Prior to Oct. 27, 1934, chain gage at bridge 200 ft upstream, and Oct. 27, 1934, to Aug. 22, 1939, wire-weight gage at present site, both at present datum.

Average discharge.--26 years, 907 cfs.

Extremes.--Maximum discharge during year, 11,400 cfs Jan. 23 (gage height, 17.38 ft); minimum, 16 cfs Sept. 14, 15 (gage height, 1.57 ft).
1928-54: Maximum discharge, 47,700 cfs Feb. 14, 1948 (gage height, 22.24 ft); minimum, 12 cfs Aug. 31 to Sept. 2, 1943; minimum gage height, 0.87 ft Aug. 12, 1930.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.5	14	14.0	1,360
2.0	32	15.0	1,810
3.0	74	15.5	2,360
4.0	141	16.0	3,900
7.0	424	17.0	9,000
10.0	729	18.0	15,000
12.0	969		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	64	88	246	604	1,210	1,000	654	153	a45	37	25
2	48	64	91	219	524	1,130	1,110	784	129	a45	35	21
3	48	66	125	201	*484	1,130	1,010	1,170	160	a45	*34	20
4	47	66	214	183	434	1,130	914	1,430	384	a50	39	19
5	47	66	264	165	404	999	729	1,790	214	51	48	18
6	47	66	344	*157	374	852	564	1,810	153	*50	39	a18
7	46	66	534	153	354	718	474	1,390	133	42	54	a18
8	47	66	294	145	334	614	444	1,060	114	39	35	*18
9	47	69	264	141	324	544	444	751	104	62	32	18
10	47	72	354	188	314	504	414	534	97	58	31	17
11	48	72	304	274	324	*474	544	404	111	43	30	17
12	48	74	246	312	334	444	1,050	344	97	40	28	17
13	48	74	224	264	324	424	*1,210	394	85	36	27	17
14	48	76	246	255	304	414	1,110	604	79	35	26	16
15	47	76	255	650	294	394	927	474	74	33	25	17
16	48	79	246	1,150	314	364	1,110	414	74	31	25	17
17	48	79	201	1,230	524	344	1,360	364	173	27	25	17
18	49	79	170	1,230	444	334	1,700	324	149	26	24	18
19	49	79	149	1,130	394	384	1,960	284	104	87	24	18
20	50	82	141	1,030	1,090	534	1,600	246	85	157	26	18
21	50	82	157	1,300	3,090	474	1,190	224	69	79	24	24
22	51	91	174	2,770	6,510	424	876	201	64	149	25	24
23	52	*97	178	9,450	3,660	404	644	183	60	237	36	42
24	52	122	157	6,330	2,200	394	544	170	58	128	29	38
25	52	111	141	3,620	1,600	384	464	*157	a60	74	26	28
26	*52	94	133	2,120	1,300	474	414	149	a60	58	31	25
27	56	91	133	1,600	1,070	514	374	141	a55	52	34	24
28	58	88	196	1,300	1,080	474	324	157	a55	47	36	23
29	64	88	314	1,080	-	454	474	201	a50	44	29	22
30	66	88	354	876	-----	434	729	201	a50	41	24	23
31	64	-----	284	729	-----	504	-----	192	-----	39	24	-----
Total	1,574	2,387	6,975	41,300	29,006	17,875	25,707	17,201	3,253	1,950	962	637
Mean	50.8	79.6	225	1,332	1,036	577	857	555	108	62.9	31.0	21.2
Cfs/m	0.084	0.132	0.372	2.20	1.71	0.954	1.42	0.917	0.179	0.104	0.051	0.035
In.	0.10	0.15	0.43	2.54	1.78	1.10	1.58	1.06	0.20	0.12	0.06	0.04
Calendar year 1953: Max	14,100	Min	34	Mean	911	Cfs/m	1.51	In.	20.43			
Water year 1953-54: Max	9,450	Min	16	Mean	408	Cfs/m	0.674	In.	9.16			

Peak discharge (base, 8,000 cfs).--Jan. 23 (2 p.m.) 11,400 cfs (17.38 ft).

* Discharge measurement made on this day.

a Doubtful or no gage-height record; discharge estimated on basis of records for nearby stations.

Bull Mountain Creek at Tremont, Miss.

Location.--Lat 34°14'20", long 88°16'15", in NE¼SW¼ sec. 5, T. 10 S., R. 10 E., Chickasaw meridian, near left bank on downstream side of bridge on U. S. Highway 78, 0.7 mile northwest of Tremont, 1 mile upstream from Johns Creek, 1½ miles upstream from Cypress Creek, ¾ miles upstream from Chubby Creek, and 8 miles southeast of Fulton.

Drainage area.--120 sq mi, approximately.

Records available.--October 1943 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 317.39 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to July 22, 1949, staff gage at same site and datum.

Average discharge.--11 years, 212 cfs.

Extremes.--Maximum discharge during year, 5,040 cfs Jan. 22 (gage height, 8.46 ft); minimum, 4.6 cfs Sept. 13 (gage height, 1.78 ft).
1943-54: Maximum discharge, 13,500 cfs Mar. 29, 1951 (gage height, 9.65 ft); minimum, that of Sept. 13, 1954.

Remarks.--Records good except those above 600 cfs, which are fair.

Cooperation.--Gage-height record and 11 discharge measurements furnished by Corps of Engineers.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Feb. 20

Feb. 21 to Sept. 30

2.2	16	6.5	440	1.8	5.0	6.0	408
2.5	34	6.8	600	2.0	10	6.5	530
3.0	68	7.0	840	2.5	36	6.8	700
4.6	153	7.5	1,960	3.0	74	7.0	930
5.0	253	8.0	3,400	4.0	168	7.4	1,700
6.0	353	8.5	5,200				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	24	34	78	153	309	333	132	*50	10	13	6.4
2	20	26	34	72	143	237	243	127	46	9.7	13	5.8
3	*20	25	49	67	138	273	196	309	76	11	11	5.8
4	20	26	158	64	130	243	174	309	142	18	10	5.6
5	20	24	93	60	120	207	157	207	71	16	10	5.6
6	20	24	77	*58	113	190	142	162	56	13	10	5.4
7	19	24	90	56	109	174	132	147	49	11	12	5.2
8	19	26	64	55	104	162	201	162	44	10	49	*5.0
9	19	26	98	55	*101	152	395	132	41	10	26	6.6
10	20	27	148	63	101	147	261	116	37	12	18	6.4
11	20	27	83	125	101	142	309	105	34	11	*14	5.6
12	20	28	79	102	125	137	408	99	32	9.7	13	5.2
13	19	29	86	83	102	127	333	109	30	10	12	5.0
14	18	29	91	84	96	120	267	137	30	9.7	11	5.0
15	18	30	112	248	95	110	231	132	29	8.2	10	*5.0
16	18	30	84	502	97	104	639	108	25	7.3	9.1	5.0
17	18	31	68	930	125	101	1,700	95	33	6.8	8.5	5.0
18	18	*31	60	459	*111	101	926	88	34	10	8.2	5.2
19	18	31	55	248	100	125	450	82	31	37	8.2	5.6
20	18	32	55	198	735	190	333	*76	25	40	10	6.0
21	18	33	60	512	1,550	*132	*261	74	22	27	20	7.0
22	18	36	69	3,490	574	117	219	68	21	168	14	16
23	18	41	63	3,200	345	113	196	65	20	90	9.7	20
24	18	42	55	1,190	438	112	179	61	18	40	8.8	11
25	18	35	53	511	357	114	207	*57	16	29	7.9	10
26	*18	34	53	347	279	184	162	56	14	24	7.9	9.1
27	19	34	52	293	237	152	142	53	14	21	23	8.5
28	29	33	72	248	333	142	127	95	13	19	10	8.2
29	24	33	178	210	-	132	179	82	11	16	8.8	7.6
30	24	33	120	190	-	127	157	65	*10	15	7.6	7.6
31	24	-----	91	173	-----	168	-----	57	-----	14	7.0	-----
Total	605	904	2,484	13,971	7,012	4,844	9,659	3,567	1,074	733.4	400.7	215.4
Mean	19.5	30.1	80.1	451	250	156	322	115	35.8	23.7	12.9	7.18
Cfsm	0.162	0.261	0.668	3.76	2.08	1.30	2.68	0.958	0.298	0.198	0.108	0.060
In.	0.19	0.28	0.77	4.33	2.17	1.50	2.99	1.11	0.33	0.23	0.12	0.07

Calendar year 1953: Max 3,610 Min 13 Mean 176 Cfsm 1.47 In. 19.86

Water year 1953-54: Max 3,490 Min 5.0 Mean 125 Cfsm 1.04 In. 14.09

Peak discharge (base, 4,000 cfs).--Jan. 22 (10 p.m.) 5,040 cfs (8.46 ft).

* Discharge measurement made on this day.

Bull Mountain Creek near Smithville, Miss.

Location.--Lat 34°05', long 88°24', in SE $\frac{1}{4}$ sec. 30, T. 11 S., R. 9 E., Chickasaw meridian, on right bank at downstream side of old bridge on State Highway 25, 0.8 mile upstream from Mississippi Railway bridge, 1.1 miles north of Smithville, and 3 $\frac{1}{2}$ miles upstream from mouth.

Drainage area.--335 sq mi.

Records available.--October 1940 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 234.81 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to July 5, 1944, staff gage, and July 5, 1944, to Oct. 14, 1948, wire-weight gage, at same site and datum.

Average discharge.--14 years, 524 cfs.

Extremes.--Maximum discharge during year, 8,800 cfs Jan. 23 (gage height, 12.76 ft); minimum, 19 cfs Sept. 10, 13, 14, 15 (gage height, 1.33 ft).
1940-54: Maximum discharge, 26,700 cfs Mar. 29, 1951 (gage height, 15.48 ft); minimum, 19 cfs Aug. 28 to Sept. 3, 1943 (occurred during period of doubtful gage-height record), Sept. 10, 13, 14, 15, 1954.

Remarks.--Records good.

Cooperation.--Gage-height record and nine discharge measurements furnished by Corps of Engineers.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Apr. 20-26, Aug. 18-22)

Oct. 1 to July 23

July 24 to Sept. 30

1.7	22	7.0	1,060	1.3	18
2.0	43	9.0	1,750	1.5	26
2.5	84	10.0	2,500	2.0	55
3.0	136	11.0	4,000	3.0	137
4.0	280	12.0	6,200	4.0	280
5.0	487	13.0	10,000		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	54	67	184	404	790	500	450	113	41	49	26
2	45	55	67	155	362	820	761	388	103	38	47	25
3	44	56	82	141	333	703	674	1,030	*106	39	50	24
4	44	56	115	133	315	703	487	1,060	147	39	43	23
5	44	56	224	127	297	632	404	1,030	239	36	40	22
6	43	55	183	*121	280	512	362	761	140	44	38	22
7	43	55	133	115	263	450	333	487	112	59	53	21
8	42	55	166	113	247	404	603	438	101	46	60	20
9	41	55	138	111	*239	372	1,000	415	94	40	60	20
10	41	56	179	120	239	352	820	333	89	46	56	20
11	42	57	263	160	239	333	674	288	83	37	*43	20
12	42	60	170	272	239	324	940	263	80	35	38	20
13	*42	60	147	231	255	306	1,000	263	75	32	36	20
14	42	60	166	201	231	288	940	297	70	30	34	19
15	42	61	169	320	216	263	660	324	67	28	33	*19
16	42	62	194	918	231	247	1,120	306	69	26	33	20
17	41	63	150	970	263	231	1,420	255	65	23	32	20
18	42	*64	123	1,060	*288	231	1,780	224	70	54	*32	20
19	42	64	108	1,310	263	297	2,500	*201	82	176	33	20
20	42	64	105	1,120	1,020	510	1,820	186	76	116	34	20
21	42	64	106	1,120	1,350	*415	*1,080	168	65	101	33	28
22	43	65	110	2,260	2,600	306	703	156	59	84	34	30
23	44	67	121	6,010	2,720	272	564	143	56	342	54	29
24	44	69	114	6,300	1,780	255	500	134	53	201	49	35
25	44	75	106	3,350	1,150	263	450	125	51	99	41	34
26	45	73	100	2,060	1,060	324	462	117	48	77	35	30
27	46	69	97	1,350	761	487	362	114	45	68	32	28
28	47	67	129	850	703	438	315	114	43	60	37	27
29	49	67	208	632	-	362	315	141	42	58	42	26
30	51	67	315	525	-----	333	487	155	*42	54	34	26
31	52	-----	247	450	-----	324	-----	125	-----	51	30	-----
Total	1,359	1,851	4,602	32,799	18,348	12,547	24,038	10,491	2,485	2,180	1,285	714
Mean	43.8	61.7	149	1,058	655	405	801	338	82.8	70.3	40.8	23.8
Cfs/m	0.131	0.184	0.442	3.16	1.96	1.21	2.39	1.01	0.247	0.210	0.122	0.071
In.	0.15	0.21	0.51	3.64	2.04	1.39	2.67	1.16	0.28	0.24	0.14	0.08

Calendar year 1953: Max 7,430 Min 31 Mean 489 Cfs/m 1.46 In. 19.81
Water year 1953-54: Max 6,300 Min 19 Mean 309 Cfs/m 0.922 In. 12.51

Peak discharge (base, 5,000 cfs).--Jan. 23 (9 p.m.) 8,800 cfs (12.76 ft).

* Discharge measurement made on this day.

MOBILE RIVER BASIN

East Fork Tombigbee River at Bigbee, Miss.

Location.--Lat 34°00'40", long 88°30'50", in SW¼NE¼ sec. 25, T. 12 S., R. 7 E., Chickasaw meridian, on downstream side of center pier of bridge on State Highway 6, 0.2 mile upstream from St. Louis-San Francisco Railway bridge, 0.5 mile southeast of Bigbee, 2 miles northwest of Amory, 3.7 miles upstream from confluence with West Fork, 8½ miles downstream from Bogueta Creek, and 15½ miles downstream from Bull Mountain Creek.

Drainage area.--1,194 sq mi.

Records available.--March 1945 to September 1946, October 1947 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 190.00 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Sept. 9, 1949, wire-weight gage at same site and datum. Water-stage recorder for station at Amory, 4.0 miles downstream, is used as an auxiliary gage for this station.

Average discharge.--8 years (1945-46, 1947-54), 2,217 cfs.

Extremes.--Maximum discharge during year, 15,100 cfs Jan. 25; maximum gage height, 15.49 ft Jan. 26; minimum, 29 cfs Sept. 15 (gage height, 1.10 ft).
1945-46, 1947-54: Maximum discharge, 52,800 cfs Feb. 15, 1948 (gage height, 24.92 ft, from graph based on gage readings), from rating curve extended above 26,000 cfs; minimum, that of Sept. 15, 1954.

Remarks.--Records fair. Same regulation at low flow by operation of gravel pit above station.

Cooperation.--Gage-height record and 10 discharge measurements furnished by Corps of Engineers.

Rating table, water years 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting control method used Oct. 1 to Jan. 16, May 12-28; fall used as a factor Jan. 16, 17, 21-23, 26, Feb. 20-22, Apr. 16, 17, May 3-5)

1.3	37	6.0	2,130
1.5	51	9.0	4,750
2.0	109	11.0	6,750
2.5	190	13.0	8,750
3.0	322	15.0	10,800
4.0	732		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	129	134	176	586	2,530	3,580	1,930	1,700	392	120	100	57
2	122	132	180	496	1,850	3,310	2,370	1,700	348	120	100	54
3	121	134	212	442	1,450	3,130	2,530	3,790	352	120	100	54
4	114	141	305	404	1,280	2,950	2,290	4,150	*568	120	95	52
5	110	147	375	375	1,140	2,770	2,050	3,450	570	110	95	48
6	107	143	514	358	1,030	2,530	1,730	3,310	470	110	95	45
7	104	145	519	*338	960	2,290	1,380	2,860	351	110	95	46
8	103	141	668	327	900	1,890	1,700	2,770	306	120	100	46
9	103	143	581	323	*840	1,590	2,450	2,690	273	140	120	45
10	107	143	535	334	812	1,380	2,010	2,490	257	160	100	45
11	108	143	621	496	812	1,280	1,730	1,770	236	140	*91	42
12	107	149	591	657	784	1,200	2,370	1,200	241	120	77	41
13	*111	151	482	759	812	1,100	2,770	1,000	290	100	73	39
14	113	153	456	652	812	1,030	2,860	1,030	236	95	67	41
15	113	151	491	950	758	960	2,690	1,280	212	90	63	*40
16	111	153	500	2,400	784	870	3,740	1,170	199	85	61	41
17	108	156	478	2,990	870	812	4,320	1,000	190	80	*80	40
18	107	*156	400	2,950	1,060	784	4,120	900	217	75	59	42
19	108	158	383	3,040	*1,060	870	4,750	*812	300	140	62	45
20	110	160	312	3,220	2,770	1,200	4,750	732	239	200	66	41
21	110	160	305	3,380	4,500	1,340	4,030	634	208	250	65	62
22	110	172	312	5,420	4,330	1,220	3,400	584	182	200	65	72
23	110	180	319	5,970	6,550	*1,000	*3,040	544	170	300	60	74
24	110	192	327	8,450	7,650	950	2,610	506	157	500	85	66
25	110	199	308	10,700	7,450	900	1,930	474	150	300	81	89
26	113	210	284	14,000	5,850	1,100	1,420	435	144	200	78	87
27	116	194	275	8,750	4,570	1,420	1,170	413	138	150	68	71
28	117	182	338	6,350	4,030	1,590	1,000	399	132	130	*73	65
29	119	178	533	4,570	-	1,340	960	395	128	120	80	63
30	122	174	652	3,670	-----	1,200	1,450	451	*123	110	87	57
31	132	-----	705	3,130	-----	1,140	-----	424	-----	110	60	-----
Total	3,485	4,774	13,135	96,487	68,244	48,686	75,370	45,023	7,559	4,725	2,491	1,610
Mean	112	159	424	3,112	2,437	1,571	2,512	1,452	252	152	80.4	53.7
Cfs/m	0.094	0.133	0.355	2.61	2.04	1.32	2.10	1.22	0.211	0.127	0.067	0.045
In.	0.11	0.15	0.41	3.01	2.13	1.52	2.35	1.40	0.24	0.15	0.08	0.05
Calendar year 1953: Max	21,100			Min 89			Mean 1,905	Cfs/m 1.60	In. 21.66			
Water year 1953-54: Max	14,000			Min 39			Mean 1,018	Cfs/m 0.853	In. 11.60			

Peak discharge (base, 12,000 cfs).--Jan. 25 (10 p.m.) 15,100 cfs (15.46 ft).

* Discharge measurement made on this day.

Note.--No gage-height record July 1 to Aug. 10; discharge estimated on basis of recorded range in stage, weather records, and records for other stations in basin.

Oldtown Creek at Tupelo, Miss.

Location.--lat 34°17'40", long 88°42'35", in SW 1/4 sec. 18, T. 9 S., R. 6 E., Chickasaw meridian, on left bank at downstream side of bridge on U. S. Highway 45; half a mile north of city limits of Tupelo, three-quarters of a mile upstream from Gulf, Mobile and Ohio Railroad bridge, and 4 miles upstream from Mud Creek.

Drainage area.--112 sq mi.

Records available.--February 1944 to September 1946, October 1951 to September 1954.

Gage.--Water-stage recorder. Feb. 9 to Aug. 2, 1944, chain gage, and Aug. 3, 1944, to Sept. 30, 1946, wire-weight gage, at site 2 1/4 miles downstream at different datum.

Average discharge.--5 years, 177 cfs.

Extremes.--Maximum discharge during year, 5,270 cfs Feb. 20 (gage height, 21.88 ft); no flow Nov. 5, 6, Aug. 30, 31, Sept. 15-20.
1944-46, 1951-54: Maximum discharge observed, 12,600 cfs Mar. 28, 1944 (gage height, 24.34 ft, site and datum then in use); no flow at times.
Flood of Jan. 3, 1951, reached a stage of 26.01 ft, present site and datum, from records of Corps of Engineers.

Remarks.--Records fair except those above 50 cfs and those for periods of no gage-height record, which are poor.

Cooperation.--Gage-height record and 12 discharge measurements furnished by Corps of Engineers.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 17 to Dec. 2, Mar. 16-19, 22-25, 29, 30)

Oct. 1 to Feb. 20				Feb. 21 to Sept. 30			
-0.3	0	3.0	161	-0.7	0	0.5	26
-0.2	.8	5.0	383	-0.6	.4	1.0	46
0.0	4.4	8.0	810	-0.5	.9	2.0	97
.5	14	12.0	1,640	-0.4	2.0	3.0	170
1.0	31	16.0	2,840	-0.2	5.6	5.0	383
1.5	52	20.0	4,320	0.0	10		
2.0	80						

Note.--Same as preceding table above 5.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.1	1.5	a4	25	104	304	a80	6.2	0.5	a0.5	0.1
2	.6	.1	1.3	a3	22	70	82	496	5.8	.5	a.5	.1
3	.6	.1	6.8	a3	21	277	a50	1,180	*18	.9	.3	.1
4	.6	.1	16	a3	19	80	a40	a220	12	.8	.3	.1
5	.6	0	8.4	*2.8	17	61	a35	a100	6.9	.6	.3	.1
6	1.0	0	279	2.4	16	54	a30	a50	6.6	.5	.3	.1
7	1.0	.1	20	2.4	15	46	a25	a40	6.2	.4	.2	.1
8	1.2	.1	8.6	2.2	14	45	125	a30	5.8	.5	.2	.1
9	1.3	.4	69	2.2	13	41	57	a25	5.6	.5	.2	.1
10	1.3	.6	14	30	13	38	a30	a20	5.2	.4	*.2	.1
11	1.3	.6	8.0	22	13	36	836	a25	a10	.4	.2	.1
12	1.0	.6	7.5	9.3	13	34	862	a40	a150	.3	.2	.1
13	.8	.6	6.7	5.7	12	32	120	a60	a50	.3	.2	.1
14	.8	.6	6.4	58	11	29	80	a30	a20	.3	.2	*.1
15	.8	.6	6.4	530	*11	26	68	a20	a5	.3	.2	a0
16	.8	.6	6.0	687	51	22	621	a16	a3	.3	.1	a0
17	.8	.6	5.8	56	81	20	182	a12	a2	.2	*.1	a0
18	.6	.6	4.8	a25	a20	19	a80	a10	a5	56	.2	a0
19	.6	*.6	4.4	a15	*29	56	a50	a9	a3	29	.2	a0
20	.6	.4	4.2	150	4,250	66	a40	a8	a2	a5	.3	a0
21	.8	.3	4.0	1,650	748	34	a30	*11	a1	a2	.4	.1
22	.8	2.1	4.2	3,880	154	*20	*26	10	a1	9.1	.2	.1
23	.8	1.7	4.0	438	100	19	29	9.3	a1	5.2	.1	.1
24	.9	1.7	3.9	125	123	20	27	*8.4	a1	a3	.1	.1
25	.8	1.5	3.7	73	80	26	25	7.5	a1	a2	.1	.1
26	1.0	1.5	3.5	56	65	38	a24	7.1	a.8	a2	.1	.1
27	*.6	1.3	3.5	84	57	26	a22	7.9	a.8	a2	.1	.1
28	.4	1.2	14	49	451	22	a20	18	a.8	a1	.1	.1
29	.3	1.2	18	37	-	20	338	13	*.6	a1	*.1	.1
30	.1	1.3	9.0	33	-----	19	a50	7.9	.5	a.8	0	.1
31	.1	-----	a5	30	-----	792	-----	6.9	-----	a.8	0	-----
Total	23.8	21.2	557.6	8,068.0	6,444	2,194	4,108	2,578.0	336.9	126.6	6.2	2.4
Mean	0.77	0.71	18.0	260	230	70.8	137	83.2	11.2	4.08	0.20	0.08
Cfsm	0.0069	0.0063	0.161	2.32	2.05	0.632	1.22	0.743	0.100	0.036	0.0018	0.00071
In.	0.008	0.007	0.19	2.68	2.14	0.73	1.36	0.86	0.11	0.04	0.002	0.0008
Calendar year 1953: Max	5,220				Min 0	Mean 195		Cfsm 1.74	In. 23.59			
Water year 1953-54: Max	4,250				Min 0	Mean 67.0		Cfsm 0.598	In. 8.13			

Peak discharge (base, 6,000 cfs).--No peak above base.

* Discharge measurement made on this day.

a Doubtful or no gage-height record; discharge estimated on basis of recorded range in stage, weather records, and records for other stations in basin.

MOBILE RIVER BASIN

Euclautubba Creek at Saltillo, Miss.

Location--Lat 34°22'20", long 88°42'00", in SW¼NW¼ sec. 20, T. 8 S., R. 6 E., Chickasaw meridian, on downstream side of right main pier of bridge on U. S. Highway 45 at Saltillo, a quarter of a mile downstream from Flat Creek and 2¼ miles upstream from mouth.

Drainage area--19.7 sq mi.

Records available--October 1951 to September 1954.

Gage--Water-stage recorder.

Extremes--Maximum discharge during year, 1,600 cfs Feb. 20 (gage height, 12.89 ft, from Floodmark); no flow at times.

1951-54: Maximum discharge, 3,480 cfs Mar. 22, 1953 (gage height, 13.48 ft); no flow at times.

Flood of Jan. 3, 1951, reached a stage of 13.65 ft, from records of Corps of Engineers.

Remarks--Records good except those below 10 cfs and above 500 cfs, which are fair.

Cooperation--Gage-height record and 12 discharge measurements furnished by Corps of Engineers.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Jan. 21, 22, Jan. 25 to Feb. 21, Mar. 31)

Oct. 1 to Apr. 11

Apr. 12 to Sept. 30

1.1	0	6.0	89	1.3	0	2.5	7.8
1.3	.2	7.0	125	1.5	.2	3.0	14
1.5	.7	8.0	169	1.7	.9	4.5	44
1.7	1.9	10.0	320	1.9	2.1		
2.0	4.6	11.0	436				
3.0	16	11.5	634				
4.5	44						

Note.--Same as preceding table above 4.5 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0.2	3.4	9.7	21	4.2	0.6	0		
2	(*)	0	0	.2	3.3	19	9.0	79	1.4	0		
3		0	.8	.2	3.2	42	6.7	96	*16	0	(*)	
4		0	4	.2	3.0	8.0	5.7	14	1.1	0		
5		0	2	.3	2.8	6.5	5.0	8.4	.5	0		
6		0	40	.3	2.8	5.4	4.4	6.4	.4	*0		
7		0	.4	*.3	2.6	4.8	3.9	5.8	.3	0		
8		0	.2	.3	2.5	4.4	6.5	5.4	.2	0		
9		0	19	.3	2.4	4.1	4.2	4.2	.1	0		
10		0	.6	7.9	2.2	3.9	3.7	3.7	.1	0	(*)	
11		0	.3	4.4	7.7	3.5	233	3.5	.1	0		
12		0	.3	.5	2.1	3.3	29	4.4	0	0		
13		0	.3	.4	1.6	3.0	8.3	9.2	0	0		
14		0	.5	24	2.0	2.6	5.9	5.1	0	0		(*)
15		0	.4	102	*2.1	2.3	5.1	4.2	0	0		
16		0	.3	62	7.9	2.1	285	3.7	0	0		
17		0	.2	4.0	4.5	2.3	50	3.2	0	0	(*)	
18		0	.2	1.8	2.5	2.5	10	2.9	.4	.7		
19		*0	.2	1.2	*5.3	9.9	7.6	2.6	0	.4		
20		0	.2	1.2	*574	4.4	6.0	2.7	0	0		
21		0	.4	319	22	2.8	5.3	*2.2	0	0		
22		0	.3	444	11	*2.5	*4.6	2.1	0	0		
23		.1	.2	20	12	2.5	4.2	1.9	0	0		
24		.1	.2	11	14	2.6	3.9	*1.6	0	0		
25		0	.2	8.0	7.4	4.6	3.6	1.4	0	0		
26		0	.2	9.2	5.0	4.7	3.4	1.3	0	0		
27	(*)	0	.2	12	10	3.2	3.1	1.8	0	0		
28		0	3.9	6.3	146	2.8	6.5	2.1	0	0		
29		0	1.7	5.2	---	2.6	20	1.7	0	0		
30		0	.5	4.7	---	2.5	4.9	1.4	0	0	(*)	
31		---	.3	3.8	---	241	---	.9	---	0	---	---
Total	0	0.2	78.0	1,054.9	863.5	415.5	769.5	287.0	21.2	1.1	0	0
Mean	0	0.01	2.52	34.0	30.8	13.4	25.6	9.26	0.71	0.04	0	0
Cfsm	0	0.00051	0.128	1.73	1.56	0.680	1.30	0.470	0.036	0.0020	0	0
In.	0	0.0004	0.15	1.99	1.63	0.78	1.45	0.54	0.04	0.002	0	0
Calendar year 1953: Max	951			Min	0	Mean	35.0	Cfsm	1.78	In.	24.12	
Water year 1953-54: Max	574			Min	0	Mean	9.56	Cfsm	0.465	In.	6.58	

Peak discharge (base, 2,000 cfs).--No peak above base.

* Discharge measurement or observation of no flow made on this day.

MOBILE RIVER BASIN

265

West Fork Tombigbee River near Nettleton, Miss.

Location.--Lat 34°03'32", long 88°37'40", in NW¼ sec. 12, T. 12 S., R. 6 E., Chickasaw meridian, on right bank at downstream side of bridge on U. S. Highway 45, 1.9 miles downstream from Tallabinnela Creek, 2 miles downstream from Tubbalubba Creek, and 2.1 miles south of Nettleton.

Drainage area.--617 sq mi.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 194.01 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark). Prior to Oct. 1, 1947, at datum 10.00 ft higher.

Average discharge.--15 years, 882 cfs.

Extremes.--Maximum discharge during year, 15,200 cfs Jan. 22 (gage height, 25.30 ft); minimum, 3.1 cfs Sept. 14, 15 (gage height, 5.78 ft).

1939-54: Maximum discharge, 56,300 cfs Feb. 14, 1948; maximum gage height, 31.18 ft Mar. 28, 1944, present datum; minimum discharge, 0.8 cfs Sept. 14, 15, 1942.

Flood of Dec. 24, 1926, reached a stage of 32.5 ft, present datum, from floodmark.

Remarks.--Records good except those above 500 cfs, which are fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 9-18, July 24 to Sept. 30)

Oct. 1 to Feb. 20				Feb. 21 to Sept. 30			
5.9	5.0	10.0	970	5.6	1.5	6.6	88
6.1	16	14.0	2,650	5.7	3.5	7.0	164
6.5	56	18.0	4,950	5.8	6.5	8.0	392
7.0	140	22.0	9,700	6.0	20	10.0	970
8.0	382	25.0	14,600	6.3	49		

Note.--Same as preceding table above 10.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.5	10	14	33	144	559	1,930	351	41	10	7.8	3.5
2	10	11	14	29	134	332	441	2,850	37	10	6.5	3.8
3	10	11	40	27	122	843	289	9,820	85	915	*7.2	4.1
4	10	12	184	22	104	404	221	2,100	117	382	6.5	4.1
5	9	12	45	22	96	284	184	650	50	79	6.2	3.8
6	8.0	11	558	22	86	245	162	428	39	39	5.9	3.8
7	8.0	11	268	20	78	212	144	300	33	27	6.2	3.3
8	8.0	12	57	18	69	193	403	250	30	36	7.2	*3.5
9	8.5	14	367	18	70	*182	310	217	29	22	6.2	4.7
10	9.0	13	207	94	69	171	153	182	27	16	5.3	4.7
11	9.0	14	64	275	69	162	442	151	25	14	5.3	4.7
12	9.0	15	51	92	80	149	1,840	138	22	13	5.3	3.5
13	*9.0	16	42	50	55	138	416	256	70	13	5.6	3.5
14	9.0	17	44	76	55	136	275	264	38	12	5.6	3.1
15	9.5	17	43	2,090	55	111	217	182	25	11	5.6	3.3
16	9.5	17	33	5,710	70	96	2,940	132	21	10	5.6	3.5
17	9.0	16	27	802	252	93	1,500	104	21	9.1	5.6	4.1
18	9.0	17	22	330	88	99	472	96	368	10	5.6	4.7
19	9.0	17	19	226	76	241	*321	88	78	252	6.5	5.0
20	9.0	18	22	184	11,400	332	237	80	39	42	7.9	4.7
21	10	17	25	5,200	6,450	157	195	77	27	22	21	13
22	9.5	18	28	13,700	850	118	171	69	22	41	12	27
23	9.5	27	23	5,160	532	111	153	66	22	44	7.2	12
24	9.0	*18	16	846	671	111	288	*61	22	19	5.9	6.5
25	9.0	14	18	538	441	115	166	57	19	20	5.6	4.7
26	9.5	14	16	396	321	293	104	54	16	16	5.6	4.4
27	12	13	16	436	268	232	94	57	15	14	13	4.1
28	16	12	110	*330	1,350	166	78	93	14	12	12	3.5
29	11	12	*195	245	-	134	1,390	75	*13	10	5.9	3.3
30	9.5	14	81	206	-----	124	630	57	11	9.8	4.7	3.8
31	10	-----	46	173	-----	896	-----	49	-----	9.1	4.1	-----
Total	296.0	440	2,695	37,370	24,055	7,439	16,166	19,154	1,376	2,139.0	220.6	161.7
Mean	9.55	14.7	86.9	1,205	859	240	539	618	45.9	69.0	7.12	5.39
Cfsm	0.015	0.024	0.141	1.95	1.39	0.369	0.874	1.00	0.074	0.112	0.012	0.0087
In.	0.02	0.03	0.16	2.25	1.45	0.45	0.97	1.15	0.08	0.13	0.01	0.01

Calendar year 1953: Max 25,900 Min 7.5 Mean 797 Cfsm 1.29 In. 17.53

Water year 1953-54: Max 13,700 Min 3.1 Mean 306 Cfsm 0.496 In. 6.71

Peak discharge (base, 15,000 cfs).--Jan. 22 (9 a.m.) 15,200 cfs (25.30 ft); Feb. 20 (2 p.m.) 15,000 cfs (25.23 ft).

* Discharge measurement made on this day.

Tombigbee River near Amory, Miss.

Location.--Lat 33°59'10", long 88°33'05", in NE $\frac{1}{4}$ sec. 3, T. 13 S., R. 7 E., Chickasaw meridian, near right bank on downstream side of bridge on State Highway 41, 0.3 mile downstream from confluence of West and East Forks of Tombigbee River and $3\frac{1}{2}$ miles west of Amory.

Drainage area.--1,941 sq mi.

Records available.--December 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 178.34 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Oct. 10, 1939, staff gage at site 1,500 ft upstream at same datum. Oct. 10, 1939, to Apr. 25, 1944, staff gage, and Apr. 26, 1944, to Oct. 16, 1948, wire-weight gage, at present site and datum. Water-stage recorder for station at Aberdeen, 20 miles downstream, is used as an auxiliary gage for this station.

Average discharge.--17 years, 2,985 cfs.

Extremes.--Maximum discharge during year, 23,600 cfs Jan. 22; maximum gage height, 22.12 ft Jan. 23; minimum discharge, 45 cfs Sept. 20 (gage height, 1.68 ft). 1937-54: Maximum discharge observed, 89,100 cfs Feb. 14, 1948 (gage height, 32.55 ft); minimum, that of Sept. 20, 1954; minimum gage height, 0.77 ft Sept. 1, 1943.

Remarks.--Records good except those for periods of no gage-height record, which are fair. Discharge above about 4,000 cfs computed using fall as a factor.

Cooperation.--Gage-height record and 11 discharge measurements furnished by Corps of Engineers.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	144	150	209	592	2,870	4,450	4,800	2,570	450	136	120	75
2	142	148	209	515	2,170	3,710	2,810	4,710	392	140	111	72
3	138	148	242	456	1,680	4,010	2,690	13,700	392	810	111	69
4	129	155	470	427	1,400	3,470	2,450	12,400	*525	934	109	63
5	125	155	442	399	1,260	3,050	2,210	5,240	930	265	104	62
6	123	152	925	385	1,140	2,810	1,910	4,310	578	186	104	58
7	121	150	902	*358	1,060	2,510	1,550	3,350	420	178	120	61
8	119	155	672	344	980	2,210	2,450	3,050	350	182	132	61
9	119	155	840	339	935	1,850	2,930	2,930	322	167	143	59
10	119	157	796	358	*914	1,670	2,210	2,690	4300	163	*125	56
11	119	161	639	669	914	1,550	2,090	2,090	a290	178	112	56
12	119	161	623	623	892	1,430	4,780	1,430	4300	156	104	54
13	*119	168	530	639	892	1,340	3,230	1,250	400	147	100	54
14	119	172	485	592	872	1,220	2,980	1,340	320	135	95	*52
15	121	179	515	2,660	833	1,130	2,930	1,490	260	127	92	52
16	117	179	515	9,240	852	1,010	6,930	1,310	240	122	89	52
17	117	184	500	4,860	1,170	910	7,580	1,100	260	116	*86	52
18	117	*184	427	3,140	1,170	865	4,350	935	a550	114	83	52
19	115	186	371	2,940	*1,140	1,130	4,390	*820	450	416	86	52
20	115	188	358	3,010	11,300	1,670	*4,740	740	4300	265	89	51
21	117	168	344	7,960	20,300	1,550	4,140	*665	a270	287	103	72
22	117	193	344	18,800	8,690	1,340	3,410	612	240	256	90	109
23	115	204	358	20,800	5,840	*1,130	3,050	578	220	364	86	93
24	115	221	371	11,700	7,900	1,040	3,050	525	200	495	98	62
25	119	216	344	12,700	8,480	1,040	2,330	495	190	347	103	90
26	119	238	322	14,400	6,280	1,490	1,610	465	a180	224	98	93
27	123	221	314	11,200	4,660	1,790	1,370	450	a170	172	92	83
28	131	211	399	7,040	5,880	1,910	1,100	480	a160	152	*104	77
29	138	207	724	5,420	-	1,610	2,240	480	*152	142	89	73
30	138	204	672	4,100	-----	1,400	2,510	510	145	128	95	72
31	144	-----	706	3,440	-----	1,730	-----	480	-----	127	86	-----
Total	3,833	5,392	15,568	150,126	102,174	58,045	94,820	73,195	9,646	7,631	3,159	2,007
Mean	124	180	502	4,943	3,649	1,872	3,161	2,361	322	246	102	66.9
Cfsm	0.064	0.093	0.259	2.50	1.88	0.964	1.63	1.22	0.166	0.127	0.053	0.034
In.	0.07	0.10	0.30	2.88	1.96	1.11	1.82	1.40	0.18	0.15	0.06	0.04

Calendar year 1953: Max 36,100

Min 107

Mean 3,050

Cfsm 1.57

In. 21.33

Water year 1953-54: Max 20,800

Min 51

Mean 1,440

Cfsm 0.742

In. 10.07

Peak discharge (base, 15,000 cfs).--Jan. 22 (12 p.m.) 23,600 cfs (22.06 ft); Feb. 21 (6 a.m.) 22,000 cfs (21.41 ft); May 3 (9 p.m.) 17,400 cfs (19.87 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for other stations in basin.

MOBILE RIVER BASIN

267

Tombigbee River at Aberdeen, Miss.

Location.--Lat 33°49'14", long 88°31'07", in N $\frac{1}{2}$ sec. 27, T. 14 S., R. 19 W., Huntsville meridian, on left bank at downstream side of bridge of U. S. Highway 45, 1.3 miles downstream from St. Louis-San Francisco Railway bridge, 1.5 miles east of Aberdeen, 2 miles downstream from Mattubby Creek, 6 miles downstream from Halfway Creek, 13 $\frac{1}{2}$ miles upstream from McKinley Creek, and at mile 384.6 (by U. S. Weather Bureau).

Drainage area.--2,210 sq mi, approximately.

Records available.--August 1928 to September 1954. Gage-height records collected at site 1.3 miles upstream since 1909 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 154.71 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark). Prior to Nov. 4, 1934, chain gage at site 1.3 miles upstream at present datum. Nov. 4, 1934, to Aug. 30, 1939, wire-weight gage at present site and datum. Water-stage recorder for station at Amory, 20 miles upstream, is used as an auxiliary gage for this station.

Average discharge.--26 years, 3,086 cfs.

Extremes.--Maximum discharge during year, 14,100 cfs Jan. 23; maximum gage height, 29.59 ft Jan. 24; minimum discharge, 73 cfs Sept. 12, 13 (gage height, 0.77 ft).
1928-54: Maximum discharge, 97,000 cfs Feb. 15, 1948 (gage height, 42.04 ft); minimum, 58 cfs Sept. 1, 2, 1943; minimum gage height, that of Sept. 12, 13, 1954.
Maximum stage known, 44.8 ft Apr. 20, 1892, former site, present datum.

Remarks.--Records good.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	158	164	224	730	3,160	5,140	3,570	2,120	501	164	140	87
2	154	170	224	594	2,390	3,990	3,280	3,390	460	158	*135	80
3	150	170	253	523	1,950	3,720	2,700	8,230	430	170	130	78
4	146	170	384	480	1,630	3,730	2,500	11,100	490	1,220	125	77
5	143	170	512	450	1,450	3,130	2,240	9,060	557	491	122	76
6	137	170	551	421	1,330	2,800	2,010	7,060	660	253	115	77
7	135	170	1,180	402	1,240	2,530	1,690	5,220	501	196	119	*75
8	135	170	758	384	1,150	2,270	1,930	3,560	412	183	133	76
9	134	170	730	375	1,090	*2,010	3,100	2,960	366	190	144	75
10	134	176	1,070	384	1,040	1,760	2,450	2,700	340	170	144	74
11	134	176	758	612	1,010	1,600	2,090	2,290	324	170	133	74
12	134	176	730	758	982	1,480	3,690	1,660	307	183	122	73
13	*134	183	646	730	982	1,390	*3,740	1,330	315	158	111	73
14	135	190	557	702	982	1,330	3,050	1,360	393	147	105	74
15	135	196	569	1,500	954	1,210	2,840	1,450	307	137	102	74
16	135	196	557	6,280	954	1,120	5,720	1,420	268	131	98	74
17	135	203	545	6,900	1,210	1,070	8,090	1,240	253	126	94	74
18	135	203	490	7,830	1,390	1,010	6,900	*1,070	275	132	*91	74
19	135	203	430	3,270	1,300	1,090	5,750	954	594	196	90	75
20	135	210	384	3,020	5,770	1,720	5,030	870	375	430	94	74
21	135	210	375	4,990	11,800	1,720	4,520	758	299	299	99	*77
22	136	217	375	10,400	11,300	1,540	3,750	688	268	307	111	90
23	136	217	375	14,000	9,500	1,300	3,120	633	238	291	100	116
24	136	*231	384	13,500	9,120	1,180	3,010	582	224	430	93	104
25	136	238	384	13,200	8,800	1,150	2,580	545	210	450	103	91
26	136	246	358	13,300	7,900	1,330	1,930	512	196	324	107	97
27	144	253	340	12,800	6,630	1,920	1,540	490	190	238	101	101
28	146	238	375	*11,100	5,600	2,560	1,300	490	183	196	98	91
29	151	231	*730	8,750	-	2,010	1,420	534	*176	170	100	85
30	156	224	814	6,780	-	1,630	2,650	557	170	158	98	85
31	157	-----	814	4,820	-----	1,450	-----	557	-----	148	96	-----
Total	4,344	5,941	16,876	149,965	102,614	61,890	98,170	75,390	10,282	8,016	3,451	2,449
Mean	140	198	544	4,838	3,665	1,996	3,272	2,432	343	259	111	81.6
Cfs/m	0.063	0.090	0.246	2.19	1.66	0.903	1.48	1.10	0.155	0.117	0.050	0.037
In.	0.07	0.10	0.28	2.52	1.73	1.04	1.65	1.27	0.17	0.13	0.06	0.04
Calendar year 1953: Max			26,500		Min 128		Mean 3,094		Cfs/m 1.40		In. 18.99	
Water year 1953-54: Max			14,000		Min 73		Mean 1,478		Cfs/m 0.669		In. 9.06	

* Discharge measurement made on this day.

Buttahatchee River below Hamilton, Ala.

Location.--Lat 34°06', long 87°58', on line between secs. 14 and 15, T. 11 S., R. 14 W., near right bank on downstream side of pier of bridge on U. S. Highway 78, half a mile downstream from Woods Creek and 2 miles south of Hamilton.

Drainage area.--276 sq mi.

Records available.--December 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 360.50 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Extremes.--Maximum discharge during year, 15,100 cfs Jan. 22 (gage height, 20.3 ft, from graph based on gage readings); minimum, 19 cfs Sept. 2-5, 15 (gage height, 0.78 ft). 1951-54: Maximum discharge, 24,200 cfs Mar. 29, 1951 (gage height, 26.3 ft); minimum, that of Sept. 2-5, 15, 1954.

Remarks.--Records fair except those for period of no gage-height record, which are poor. Occasional diurnal fluctuation at low flow.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Jan. 15		Jan. 16 to July 14		July 15 to Sept. 30	
1.0	35	1.1	36	6.0	2,290
1.3	65	1.6	94	10.0	5,150
1.8	143	2.2	215	17.0	11,400
2.6	340	3.0	470		
4.0	940	4.0	920		
				0.7	14
				.9	27
				1.3	69
				1.8	151
				2.5	320
				3.5	680

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*41	52	79	163	546	551	680	314	99	37	32	20
2	42	57	81	153	314	414	510	299	102	87	27	19
3	42	57	113	153	299	432	432	2,340	255	67	32	19
4	42	57	325	134	284	379	362	1,400	241	59	27	19
5	41	55	160	134	255	330	330	773	158	55	27	19
6	39	54	242	124	241	314	299	593	115	50	27	20
7	39	55	153	116	228	284	269	490	97	47	333	*20
8	38	58	107	118	203	269	432	414	99	40	122	20
9	38	*58	268	116	191	255	396	346	96	36	56	21
10	40	*59	255	143	180	241	299	299	78	36	44	20
11	40	59	153	184	228	228	346	241	73	a44	35	20
12	40	65	308	174	241	215	551	228	87	a69	34	20
13	41	65	218	153	203	203	432	241	64	a52	31	20
14	39	64	*255	200	191	191	362	284	65	a47	28	20
15	38	65	218	940	191	180	314	255	64	46	26	*19
16	38	68	163	7,140	330	169	5,640	215	104	43	30	20
17	41	68	134	2,000	396	189	2,850	180	191	47	27	22
18	40	69	107	*870	284	169	1,090	169	148	73	26	23
19	38	69	116	593	284	414	*870	158	104	155	28	22
20	37	72	116	1,100	621	396	680	148	70	63	31	21
21	40	74	143	6,100	636	299	551	138	60	62	45	561
22	39	86	163	10,800	470	255	451	128	57	514	34	188
23	40	100	134	3,940	*414	241	490	121	*55	108	26	57
24	44	89	116	1,540	396	*228	1,270	115	50	62	25	40
25	44	84	116	1,090	362	241	726	*108	50	57	24	36
26	42	84	107	1,400	314	314	510	102	46	44	26	34
27	51	81	107	773	330	551	414	128	43	40	33	34
28	54	79	294	593	621	551	362	255	43	*36	26	32
29	54	77	428	510	-	470	432	241	41	36	26	32
30	52	78	255	470	-----	414	362	203	37	35	24	46
31	52	-----	184	396	-----	470	-----	158	-----	32	22	-----
Total	1,306	2,058	5,618	42,318	9,453	9,857	22,732	11,084	2,772	2,177	1,334	1,444
Mean	42.1	66.6	191	1,365	338	317	757	358	92.4	70.2	43.0	48.1
Cfsm	0.153	0.249	0.656	4.95	1.22	1.15	2.74	1.30	0.335	0.254	0.156	0.174
In.	0.18	0.28	0.76	5.70	1.27	1.33	3.06	1.49	0.37	0.29	0.18	0.19

Calendar year 1953: Max 9,740 Min 36 Mean 452 Cfsm 1.64 In. 22.25
Water year 1953-54: Max 10,800 Min 19 Mean 307 Cfsm 1.11 In. 15.10

Peak discharge (base, 7,000 cfs).--Jan. 16 (7 a.m.) 11,100 cfs (16.7 ft); Jan. 22 (1 a.m.) 15,100 cfs (20.3 ft); Apr. 16 (2 p.m.) 8,920 cfs (14.5 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for station near Sulligent.

Buttahatchee River near Sulligent, Ala.

Location.--Lat 33°55', long 88°09', in NE¼ sec. 19, T. 13 S., R. 15 W., on downstream handrail of bridge on State Highway 19, 1 mile upstream from Bogue Creek, 1½ miles northwest of Sulligent, and 2 miles downstream from Beaver Creek.

Drainage area.--460 sq mi, approximately.

Records available.--March 1939 to September 1954.

Gage.--Wire-weight gage read twice daily. Datum of gage is 287.58 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Prior to June 1, 1942, staff gage at site 500 ft upstream at datum 1.00 ft higher. Since Nov. 3, 1948, supplementary wire-weight gage read twice daily on side channel at datum 10.00 ft lower.

Average discharge.--15 years, 745 cfs.

Extremes.--Maximum discharge during year, 12,700 cfs Jan. 23 (gage height, 14.5 ft, from graph based on gage readings); minimum, 32 cfs Sept. 15, 16 (gage height, 2.30 ft). 1939-54: Maximum discharge, 33,000 cfs Jan. 8, 1946; maximum gage height, 16.4 ft Jan. 7, 1950; minimum discharge observed, that of Sept. 15, 16, 1954.

Remarks.--Records fair. Discharge computed by summation of flow in main and side channels.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*77	88	114	339	783	1,080	970	671	230	70	60	40
2	76	88	108	305	709	846	941	632	198	87	57	38
3	76	88	153	265	658	720	781	1,460	302	119	54	35
4	83	88	603	251	647	662	704	2,750	682	126	53	35
5	77	88	466	235	593	671	647	1,980	382	108	51	34
6	76	88	305	235	556	630	590	1,320	258	87	50	*34
7	75	88	366	218	518	593	552	983	227	82	53	43
8	73	94	233	202	498	554	532	950	197	76	338	41
9	70	94	286	202	480	534	675	858	182	70	136	40
10	70	*95	720	204	480	516	602	668	167	70	82	38
11	73	94	474	204	480	497	682	592	152	68	61	38
12	73	95	383	204	497	479	998	534	138	82	55	35
13	73	101	415	303	480	462	864	531	132	105	57	34
14	73	101	*442	267	429	426	684	565	125	73	55	33
15	70	101	376	558	427	390	644	563	119	67	51	*32
16	69	107	307	2,560	449	371	1,220	472	113	66	48	33
17	69	107	301	8,540	783	354	6,210	419	133	58	47	35
18	70	108	250	3,590	635	354	5,480	384	162	88	48	35
19	70	114	188	*1,720	540	412	*2,030	366	218	100	51	35
20	70	159	180	1,260	799	508	1,390	331	139	142	52	35
21	70	152	222	1,610	1,300	680	1,110	313	119	76	51	141
22	70	153	271	6,180	938	576	936	296	112	343	55	798
23	70	146	375	10,900	*778	498	958	278	*123	373	56	220
24	67	147	256	5,410	729	*480	1,150	260	99	159	51	93
25	67	134	196	2,680	702	481	1,020	*245	93	99	47	69
26	68	127	179	1,820	628	538	994	230	87	82	46	65
27	74	127	187	1,450	572	761	950	230	82	73	46	61
28	88	121	252	1,260	655	1,160	810	312	82	*68	42	58
29	89	121	740	1,070	-	982	732	314	76	66	44	56
30	88	115	660	941	-----	797	804	351	76	62	46	52
31	88	-----	424	862	-----	734	-----	279	-----	60	42	-----
Total	2,302	3,329	10,417	55,846	17,753	18,726	36,540	20,127	5,185	3,183	1,985	2,336
Mean	74.3	111	336	1,801	634	604	1,218	649	173	103	64.0	77.9
Cfsm	0.162	0.241	0.730	3.92	1.38	1.31	2.65	1.41	0.376	0.224	0.139	0.169
In.	0.19	0.27	0.84	4.52	1.44	1.51	2.95	1.63	0.42	0.26	0.16	0.19

Calendar year 1953: Max 9,100 Min 65 Mean 692 Cfsm 1.50 In. 20.42

Water year 1953-54: Max 10,900 Min 32 Mean 487 Cfsm 1.06 In. 14.38

Peak discharge (base, 4,000 cfs).--Jan. 17 (10 a.m.) 9,880 cfs (14.4 ft); Jan. 23 (6 a.m.) 12,700 cfs (14.5 ft); Apr. 18 (2 a.m.) 11,100 cfs (14.4 ft).

* Discharge measurement made on this day.

Chookatonchee Creek near Egypt, Miss.

Location.--Lat 33°50'30", long 88°46'30", on line between secs. 27 and 22, T. 14 S., R. 5 E., Chickasaw meridian, near left bank on downstream side of pier of bridge on State Highway 8, 4½ miles southwest of Egypt and 11½ miles upstream from Houlika Creek.

Drainage area.--170 sq mi, approximately.

Records available.--October 1951 to September 1954.

Gage.--Water-stage recorder.

Extremes.--Maximum discharge during year, 4,930 cfs May 3 (gage height, 7.90 ft); no flow at times.

1951-54: Maximum discharge, 15,700 cfs Feb. 21, 1953 (gage height, 9.09 ft), from rating curve extended above 9,300 cfs; no flow at times.

Flood of Mar. 28, 1951, reached a stage of 10.47 ft, from records of Corps of Engineers.

Remarks.--Records poor.

Cooperation.--Gage-height record and 12 discharge measurements furnished by Corps of Engineers.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Mar. 19 to Apr. 15, Apr. 18 to May 1)

1.0	0	6.0	632
1.2	6	6.4	840
1.5	19	6.7	1,230
2.0	54	7.0	1,830
3.0	134	7.5	3,230
4.0	234	8.0	5,480
5.0	392		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	2.1	12	38	110	145	90	10	0	0	0
2		0	2.1	11	38	73	728	9.2	0	0	0	0
3		0	5.8	11	36	152	56	4,130	11	198	0	0
4		0	4.4	9.6	34	88	45	1,770	*16	145	0	0
5		0	8.8	*8.8	32	64	40	169	8.8	18	0	0
6		0	40	8.0	30	53	38	100	8.0	6.0	0	0
7		0	18	8.0	28	45	33	73	6.8	10	0	0
8		0	8.4	7.6	28	42	173	60	6.0	26	0	0
9		0	43	7.6	29	39	116	46	5.4	21	*0	0
10		0	23	18	27	38	60	40	4.8	2.0	0	0
11		0	12	43	27	38	89	25	4.2	0	0	0
12		0	11	18	26	36	194	20	3.9	0	0	0
13		0	9.6	14	23	32	84	43	6.2	0	0	0
14		0	12	23	24	25	63	40	5.6	0	0	0
15		0	12	353	*25	24	54	33	3.6	0	2.8	0
16		0	10	2,240	45	23	798	25	3.0	0	6.0	0
17		*1.2	8.8	777	*64	24	574	*23	2.7	0	4.8	0
18		1.2	7.6	91	33	25	130	28	2.7	2.1	*1.8	0
19		1.2	6.8	57	55	80	86	*20	2.4	11	3.3	0
20		1.5	7.2	49	*2,620	*80	*65	18	1.8	2.2	2.4	0
21		2.1	6.4	577	2,110	52	54	18	1.2	0	5.0	0
22		3.3	5.7	3,100	172	40	46	16	1.2	0	0	0
23		5.1	4.8	1,650	122	39	43	15	.9	2.6	*0	0
24		6.0	3.6	168	156	39	42	14	.6	0	0	0
25		2.7	2.1	106	102	40	42	14	.3	0	0	0
26	(*)	2.1	1.5	84	76	68	40	13	0	0	0	0
27		1.5	2.7	81	64	180	30	0	0	0	0	0
28		1.5	25	66	159	113	26	26	*0	0	0	0
29		1.5	40	54	-	74	47	16	0	0	0	2.0
30		2.1	16	51	-----	55	63	14	0	0	0	0
31		-----	13	44	-----	68	-----	11	-----	0	-----	-----
Total	0	33.0	413.0	9,747.6	6,223	1,859	3,474	7,647	126.3	444.1	26.1	2.0
Mean	0	1.10	13.3	314	222	60.0	116	247	4.21	14.3	0.84	3.37
Crsm	0	0.0065	0.078	1.85	1.31	0.353	0.682	1.45	0.025	0.084	0.0049	0.00041
In.	0	0.007	0.09	2.13	1.36	0.41	0.76	1.67	0.03	0.10	0.006	0.0004
Calendar year 1953: Max			10,300	Min	0	Mean	189	Crsm	1.11	In.	15.05	
Water year 1953-54: Max			4,130	Min	0	Mean	82.2	Crsm	0.484	In.	6.56	

Peak discharge (base, 5,000 cfs).--No peak above base.

* Discharge measurement or observation of no flow made on this day.

Chookatoncee Creek near West Point, Miss.

Location.--Lat 33°36', long 88°42', on line between secs. 7 and 18, T. 17 S., R. 6 E., Chickasaw meridian, near left bank on downstream side of bridge on State Highway 10, 3 miles west of West Point and 3½ miles upstream from mouth.

Drainage area.--514 sq mi.

Records available.--October 1943 to September 1946, October 1947 to September 1954. Prior to October 1950, published as Sakatonchee River near West Point.

Gage.--Water-stage recorder. Datum of gage is 170.10 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to July 8, 1944, chain gage, and July 8, 1944, to Aug. 2, 1943, wire-weight gage, at present site and datum.

Average discharge.--10 years (1943-46, 1947-54), 787 cfs.

Extremes.--Maximum discharge during year, 6,460 cfs May 5 (gage height, 16.46 ft); no flow at times. 1943-46, 1947-54: Maximum discharge, 45,800 cfs Mar. 29, 1951 (gage height, 23.55 ft); no flow at times.

Remarks.--Records fair.

Cooperation.--Gage-height record and 11 discharge measurements furnished by Corps of Engineers.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Jan. 30 to Feb. 17, Apr. 19-21)

0.05	0	10.0	890
.1	3.2	11.0	1,180
.5	31	13.0	2,450
1.0	63	15.0	4,150
3.0	196	16.0	5,390
7.0	542	17.0	8,000
9.0	750		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0		0	20	111	506	300	102	53	0		
2	1.3		0	15	99	398	300	399	29	0		
3	2.6		0	13	90	353	212	1,840	22	4.6		
4	2.6		0	11	81	425	164	3,130	*23	310		
5	2.6		26	*11	71	292	132	<u>5,510</u>	26	199		
6	2.6		18	11	65	204	111	5,390	19	70		
7	2.6		41	11	59	164	96	2,760	17	24		
8	1.9		26	<u>9.3</u>	53	139	113	652	15	65		
9	1.9		16	<u>9.3</u>	50	122	570	262	14	147		
10	1.3		39	11	*52	108	542	160	13	56		
11	0		30	25	53	99	398	122	11	27		
12	0		17	53	52	93	470	99	11	11		
13	0		17	34	47	87	452	96	48	4.7		
14	0		17	25	<u>44</u>	75	254	114	15	3.2		
15	*0		15	170	<u>46</u>	61	237	99	14	1.9		
16	0		15	1,520	52	52	2,000	81	10	1.3		
17	0		13	1,890	*119	49	2,450	*66	7.3	1.3		
18	0	(*)	10	2,310	142	49	2,660	55	5.2	44		
19	0		7.3	2,520	90	172	<u>1,270</u>	*49	3.9	65		
20	0		5.9	812	1,210	*313	*349	44	3.2	11		
21	0		8.0	794	3,130	244	189	34	2.6	8.6		
22	0		10	2,490	<u>4,670</u>	146	146	29	2.6	12		
23	0		10	3,390	<u>4,180</u>	108	114	26	2.6	66		
24	0		8.0	<u>4,560</u>	1,890	33	102	25	3.2	10		
25	0		5.9	<u>4,150</u>	783	87	105	24	2.6	5.9		
26	*0		5.9	1,640	<u>492</u>	96	90	23	1.3	3.2		
27	0		7.3	474	284	299	71	22	.6	3.2		
28	0		9.3	268	311	<u>845</u>	58	23	*0	1.3		
29	0		38	192	-	803	55	49	0	.6		
30	0		<u>64</u>	156	-----	488	82	104	0	0		
31	0		<u>33</u>	136	-----	260	-----	99	0	0		
Total	19.4	0	512.6	27,730.6	18,326	7,229	14,092	21,478	375.1	1,156.8	0	0
Mean	0.626	0	16.5	895	654	233	470	693	12.5	37.3	0	0
Cfs/m	0.0012	0	0.032	1.74	1.27	0.453	0.914	1.35	0.024	0.073	0	0
In.	0.001	0	0.04	2.01	1.33	0.52	1.02	1.55	0.03	0.08	0	0

Calendar year 1953: Max 16,500 Min 0 Mean 612 Cfs/m 1.19 In. 16.17
Water year 1953-54: Max 5,510 Min 0 Mean 249 Cfs/m 0.484 In. 6.58

Peak discharge (base, 12,000 cfs).--No peak above base.

* Discharge measurement or observation of no flow made on this day.

Tibbee Creek near Tibbee, Miss.

Location.--Lat 33°32'17", long 88°38'00", in SW $\frac{1}{4}$ sec. 4, T. 19 N., R. 16 E., Choctaw meridian, on right bank 10 ft downstream from bridge on old State Highway 25, 560 ft upstream from Gulf, Mobile and Ohio Railroad bridge, 0.7 mile north of Tibbee, $\frac{1}{2}$ miles upstream from Magee Creek, 5 miles south of West Point, and $\frac{9}{16}$ miles upstream from Catalpa Creek.

Drainage area.--928 sq mi.

Records available.--August 1928 to August 1930, November 1939 to September 1954. Prior to October 1950, published as Tibbee River near Tibbee.

Gage.--Water-stage recorder. Datum of gage is 154.07 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Aug. 7, 1928, to Aug. 31, 1930, chain gage at site 560 ft downstream at present datum. Nov. 5 to Dec. 6, 1939, wire-weight gage at present site and datum.

Average discharge.--15 years (1928-29, 1940-54), 1,184 cfs.

Extremes.--Maximum discharge during year, 8,620 cfs May 6 (gage height, 23.18 ft); no flow at times.

1928-30, 1939-54: Maximum discharge, 75,200 cfs Mar. 29, 1951 (gage height, 30.82 ft); no flow at times.

Maximum stage known, 31.5 ft in December 1926, from information by local residents.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 19, 20)

0.9	0	4.0	280
1.0	.6	6.0	630
1.1	2.2	10.0	1,530
1.2	4.6	15.0	2,950
1.4	12	21.0	6,300
1.8	31	23.0	8,300
2.2	58	24.0	10,300
3.0	146		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	.2	32	238	830	441	211	109	.6	0	
2		0	.2	22	185	*850	495	414	58	.6	0	
3		0	.8	17	158	610	382	1,830	37	1.6	0	
4		0	.3	13	134	710	295	4,410	29	184	0	
5		0	.3	11	115	590	*238	7,510	32	331	0	
6		0	17	9.4	99	407	198	8,460	27	125	0	
7		0	15	9.0	87	310	168	7,020	22	39	0	
8		0	40	8.2	76	252	160	4,010	20	19	0	
9		0	41	7.2	68	218	980	850	16	154	0	
10		0	85	12	67	192	1,630	*273	13	80	0	
11		0	61	59	67	172	1,100	198	12	40	0	
12		0	31	64	85	159	1,050	160	10	20	0	
13		0	24	49	59	146	1,030	141	24	11	0	
14		0	24	36	52	131	590	198	37	5.9	0	
15	(*)	0	21	73	51	107	365	178	13	3.6	0	
16		*0	17	1,310	57	88	1,660	142	11	2.0	0	
17		0	17	2,040	97	77	3,550	109	7.8	1.1	0	
18		0	13	2,220	211	74	4,200	87	5.6	*127	0	
19		0	9.8	2,450	172	270	3,350	74	4.4	51	0	
20		0	7.5	2,070	708	770	1,360	66	3.6	13	0	
21		0	*5.9	1,600	2,880	670	365	56	*2.9	16	0	.1
22		.2	6.5	2,660	6,160	390	245	49	2.7	9.0	0	
23		.1	9.0	4,100	7,190	252	192	43	2.2	73	0	
24		.1	9.0	5,480	5,810	192	176	39	2.9	32	0	
25		.2	7.8	*6,300	3,220	168	159	36	1.7	13	0	
26		.2	5.6	5,180	1,340	159	192	33	1.7	6.2	0	
27		.1	4.6	2,380	590	371	172	32	1.9	3.2	0	
28		.1	11	537	477	1,260	115	31	1.4	1.9	0	(*)
29		.1	27	325	-	1,700	114	38	1.1	.9	0	
30		.1	79	295	-----	1,380	185	81	.6	.3	*0	
31		---	52	325	-----	610	-----	132	-----	0	0	---
Total	0	1.2	642.5	59,693.8	30,433	14,095	25,157	36,911	510.5	1,352.8	0.1	0
Mean	0	0.04	20.7	1,280	1,087	455	839	1,191	17.0	43.6	0.003	0
Cfsm	0	0.000043	0.022	1.58	1.17	0.490	0.904	1.28	0.018	0.047	0.0000032	0
In.	0	0.000005	0.03	1.59	1.22	0.58	1.01	1.48	0.02	0.05	0.000004	0
Calendar year 1953: Max			22,800	Min	0	Mean	1,035	Cfsm	1.12	In.	15.14	
Water year 1953-54: Max			8,460	Min	0	Mean	408	Cfsm	0.440	In.	5.96	

Peak discharge (base, 10,000 cfs).--No peak above base.

* Discharge measurement or observation of no flow made on this day.

Tombigbee River at Columbus, Miss.

Location.--Lat 33°29'21", long 88°25'57", in NW¼ sec. 20, T. 18 S., R. 18 W., Huntsville meridian, on left bank at Columbus, 1,800 ft upstream from Gulf, Mobile and Ohio Railroad bridge, 1,200 ft downstream from bridge on U. S. Highway 45, 2.3 miles upstream from Luxapallia Creek, 6.7 miles downstream from Tibbee Creek, and at mile 334.0 (by U. S. Weather Bureau).

Drainage area.--4,490 sq mi, approximately.

Records available.--January 1900 to December 1912, August 1928 to September 1954. Gage heights during low stages for period 1900 to 1904 are believed to be in error. Gage-height records collected in this vicinity since 1890 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 128.91 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Prior to Nov. 7, 1934, staff or chain gage at various sites within a quarter of a mile of present site at datum 4.00 ft higher prior to Mar. 13, 1934, and at present datum thereafter. Since Mar. 3, 1941, auxiliary staff or wire-weight gage read twice daily 3.7 miles upstream from base gage.

Average discharge.--37 years (1900-1904, 1905-12, 1928-54), 6,068 cfs.

Extremes.--Maximum discharge during year, 26,100 cfs Jan. 26; maximum gage height, 21.65 ft Jan. 26; minimum discharge, 138 cfs Sept. 20 (gage height, 0.01 ft). 1900-1912, 1928-54: Maximum discharge, 148,000 cfs Jan. 7, 1949 (gage height, 39.32 ft); minimum, that of Sept. 20, 1954; minimum gage height observed, -0.1 ft, present datum, Oct. 9-12, 1911.

Flood of Apr. 8, 1892, reached an elevation of 173.0 ft above mean sea level, datum of 1929, supplementary adjustment of 1941, at site 1.100 ft upstream.

Remarks.--Records good.

Revisions (water years).--WSP 1234: 1892(M).

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	340	323	444	1,700	7,230	7,810	4,140	3,780	1,120	354	288	184
2	334	329	427	1,410	4,860	7,440	5,960	3,610	1,000	348	*276	179
3	326	334	437	1,170	5,800	6,180	4,980	9,590	875	345	261	171
4	312	337	575	1,060	3,170	6,140	4,430	16,100	801	484	255	166
5	304	334	850	975	2,830	5,490	3,810	17,400	875	1,370	246	160
6	299	334	1,120	900	2,580	4,760	3,360	18,600	1,180	850	239	156
7	291	334	1,270	850	2,350	4,100	2,990	18,100	1,120	535	235	*156
8	283	334	1,450	826	2,220	3,600	2,660	14,000	900	427	231	156
9	281	334	1,340	801	2,050	3,250	5,710	8,500	753	377	235	152
10	278	334	1,570	801	1,940	*2,870	5,140	5,120	684	444	295	152
11	278	337	1,760	900	1,850	2,600	5,150	4,160	639	386	348	150
12	278	343	1,600	1,210	1,780	2,460	*5,940	3,380	596	357	293	150
13	278	345	1,490	1,280	1,740	2,290	7,440	2,610	617	345	259	148
14	*281	354	1,340	1,260	1,730	2,130	6,460	2,310	730	331	237	145
15	278	359	1,300	1,360	1,700	2,040	5,460	2,410	684	331	225	141
16	278	365	1,240	8,800	1,660	1,890	9,100	2,430	555	312	221	140
17	276	374	1,180	12,500	1,880	1,740	14,300	2,260	516	291	212	140
18	273	380	1,150	12,200	2,410	1,590	14,900	*1,950	497	286	*206	140
19	271	383	1,060	10,900	2,580	2,020	14,300	1,730	555	357	206	140
20	273	392	875	10,800	4,270	3,470	13,100	1,530	801	497	206	140
21	271	389	801	13,700	11,400	3,920	11,600	1,390	684	639	208	*156
22	271	417	777	17,500	14,800	3,510	9,490	1,260	575	596	210	163
23	269	444	801	18,500	17,200	2,940	6,840	1,240	516	555	219	162
24	269	444	850	19,200	17,700	2,440	5,390	1,150	479	555	213	287
25	269	461	850	23,800	15,500	2,230	4,770	1,060	444	850	204	*389
26	273	461	801	26,000	12,200	2,170	4,170	1,000	427	730	204	291
27	291	461	753	*24,700	10,100	3,110	3,860	950	414	535	204	237
28	288	479	777	20,500	8,460	6,110	3,260	925	395	421	199	217
29	291	461	*900	16,900	-	6,390	2,790	925	*380	362	194	204
30	306	444	1,440	14,100	-	5,550	3,450	1,000	365	326	189	196
31	317	-	1,690	11,000	-	4,340	-	1,150	-	306	185	-
Total	8,927	11,420	32,978	277,403	161,790	116,580	193,140	151,620	20,177	14,902	7,199	5,368
Mean	288	361	1,064	8,948	5,778	3,761	6,438	4,891	675	481	232	179
Cfsm	0.046	0.085	0.237	1.99	1.29	0.838	1.43	1.09	0.150	0.107	0.052	0.040
In.	0.07	0.09	0.27	2.30	1.34	0.97	1.60	1.26	0.17	0.12	0.06	0.04
Calendar year 1953: Max	49,400				Min	251	Mean	5,696	Cfsm	1.27	In.	17.22
Water year 1953-54: Max	26,000				Min	140	Mean	2,744	Cfsm	0.611	In.	8.29

* Discharge measurement made on this day.

MOBILE RIVER BASIN

Luxapalila Creek near Fayette, Ala.

Location.--Lat 33°43', long 87°52', in SW $\frac{1}{4}$ sec. 26, T. 15 S., R. 13 W., near right bank on downstream side of pier of bridge on State Highway 18, 3 miles northwest of Fayette.

Drainage area.--127 sq mi.

Records available.--May 1945 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 322.33 ft above mean sea level, datum of 1929, supplementary adjustment of 1944 (levels by Corps of Engineers). Prior to Apr. 22, 1944, staff gage, and Apr. 22, 1944, to May 15, 1945, wire-weight gage, at same site and datum.

Average discharge.--9 years, 229 cfs.

Extremes.--Maximum discharge during year, 3,860 cfs Jan. 22, Apr. 16 (gage height, 10.2 ft); minimum, 24 cfs Sept. 15, 16, 20, 21 (gage height, -0.04 ft).
1945-54: Maximum discharge, 9,910 cfs Jan. 5, 1949 (gage height, 13.8 ft); minimum, that of Sept. 15, 16, 20, 21, 1954.

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

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Jan. 18-20)

Oct. 1 to Jan. 21				Jan. 22 to Sept. 30			
0.5	44	3.0	598	-0.1	19	2.0	349
.9	92	6.0	1,760	.4	65	5.0	1,460
1.7	238	8.0	2,610	1.0	144	8.0	2,770

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.							
1	47	54	61	104	144	188	240	140	58	33	33	27							
2	48	52	58	96	138	154	174	171	58	33	33	27							
3	48	52	157	92	132	177	149	1,340	100	53	32	27							
4	48	52	166	91	126	146	136	637	65	50	30	27							
5	47	51	79	92	119	135	125	312	58	45	30	*27							
6	45	50	92	85	114	128	118	220	56	41	28	29							
7	44	51	78	81	111	119	115	181	55	38	33	32							
8	44	52	68	81	107	114	108	162	55	36	32	32							
9	44	52	340	79	108	109	101	136	55	34	28	32							
10	44	*52	142	107	105	108	98	123	53	33	27	28							
11	45	53	101	118	108	105	183	112	52	35	27	27							
12	44	54	162	100	101	104	260	104	52	45	27	27							
13	44	54	113	92	101	108	149	112	52	40	27	27							
14	44	54	*144	104	101	100	129	118	49	37	28	26							
15	44	54	113	573	101	92	118	105	49	36	28	*26							
16	44	54	95	2,250	189	89	2,150	93	74	45	38	26							
17	44	54	86	518	176	88	754	84	80	58	31	27							
18	45	54	78	*305	129	88	375	78	177	67	43	27							
19	45	54	75	232	118	324	262	73	65	59	35	27							
20	46	55	79	232	383	208	*199	70	56	48	37	26							
21	47	54	121	1,720	230	144	172	68	54	42	36	133							
22	47	66	106	2,590	168	125	150	66	*53	52	34	52							
23	47	62	91	754	152	118	166	65	60	46	32	37							
24	47	58	82	449	*150	*115	240	64	50	40	31	36							
25	47	63	82	324	134	125	203	63	46	38	31	35							
26	48	57	78	262	121	201	660	*63	44	37	30	34							
27	61	56	78	251	118	500	214	63	41	36	30	35							
28	54	56	190	208	296	349	162	75	38	*36	30	35							
29	52	56	189	190	-	236	191	70	36	36	33	36							
30	52	58	133	174	-----	195	172	66	34	36	30	40							
31	53	-----	110	155	-----	182	-----	61	-----	35	28	----							
Total	1,459	1,644	3,547	12,509	4,080	4,974	8,273	5,095	1,775	1,300	972	1,027							
Mean	47.1	54.8	114	404	146	160	276	164	59.2	41.9	31.4	34.2							
Cfsm	0.371	0.431	0.898	3.18	1.15	1.26	2.17	1.29	0.466	0.330	0.247	0.269							
In.	0.43	0.48	1.04	3.66	1.19	1.46	2.42	1.49	0.52	0.38	0.28	0.30							
Calendar year 1953: Max	3,290			Min	38			Mean	189			Cfsm	1.49			In.	20.17		
Water year 1953-54: Max	2,590			Min	26			Mean	128			Cfsm	1.01			In.	13.65		

Peak discharge (base, 2,500 cfs).--Jan. 16 (9 a.m.) 3,430 cfs (9.8 ft); Jan. 22 (6 a.m.) 3,860 cfs (10.2 ft); Apr. 16 (1 p.m.) 3,860 cfs (10.2 ft).

* Discharge measurement made on this day.

Note.--No gage-height record May 17-25, June 26 to July 2, July 6-11, 13-16, 20, 21, 24-27; discharge estimated on basis of records for nearby streams.

Luxapalila Creek at Steens, Miss.

Location.--Lat 33°34', long 88°19', in NE $\frac{1}{4}$ sec. 27, T. 17 S., R. 17 W., Huntsville meridian, on left bank at downstream side of highway bridge, a quarter of a mile southeast of Steens, 1 mile upstream from Yellow Creek, and 6 $\frac{1}{2}$ miles northeast of Columbus.

Drainage area.--309 sq mi.

Records available.--October 1943 to September 1947, October 1949 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 179.45 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to July 13, 1944, staff gage, and July 13, 1944, to Sept. 30, 1947, wire-weight gage, at same site and datum.

Average discharge.--9 years, 482 cfs.

Extremes.--Maximum discharge during year, 5,590 cfs Jan. 23 (gage height, 15.69 ft); minimum, 23 cfs Aug. 14 (gage height, 2.52 ft).

1943-47, 1949-54: Maximum discharge, 12,700 cfs Mar. 30, 1951 (gage height, 18.55 ft), from rating curve extended above 8,100 cfs on basis of records for station near Fayette, Ala.; minimum, that of Aug. 14, 1954.

Flood of Jan. 6, 1949, reached a stage of 19.2 ft (discharge, about 16,000 cfs).

Remarks.--Records good.

Cooperation.--Gage-height record and eight discharge measurements furnished by Corps of Engineers.

Revisions (water years).--WSP 1172: 1946(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Mar. 21-27, May 12 to June 14)

2.5	21	9.0	1,370
3.0	63	11.0	2,030
3.5	115	13.0	3,120
4.0	181	15.0	4,800
5.0	408	16.0	5,970
7.0	888		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	63	82	237	420	468	504	384	120	*43	34	28
2	57	63	82	194	384	396	564	324	110	43	33	25
3	56	64	112	175	360	348	444	648	130	51	32	25
4	56	64	207	158	336	372	360	1,940	160	49	31	25
5	56	63	420	154	305	324	324	1,220	*116	55	31	25
6	54	61	213	150	283	278	278	720	101	55	29	25
7	53	61	168	143	264	259	250	528	94	52	29	25
8	53	61	175	*138	248	241	246	408	90	48	27	27
9	51	62	185	133	234	230	241	348	85	46	28	31
10	50	61	528	152	*232	221	221	300	81	44	28	31
11	51	62	504	221	232	215	271	266	79	43	27	30
12	51	64	295	305	226	209	588	241	74	43	*24	28
13	51	66	348	217	217	203	720	230	80	48	24	28
14	*50	68	290	185	205	201	456	234	70	45	24	25
15	50	68	259	237	203	207	348	248	68	41	26	25
16	49	70	241	1,960	226	181	1,110	226	65	38	27	26
17	49	71	186	5,010	366	168	3,760	200	61	37	27	27
18	49	71	155	2,770	480	165	2,460	*179	74	65	*31	27
19	49	*71	139	1,100	324	250	1,270	167	106	69	35	28
20	49	72	136	816	348	720	816	157	112	67	40	28
21	49	72	142	1,600	*696	624	576	146	81	61	45	35
22	49	82	168	4,600	564	480	444	*138	73	51	49	40
23	49	89	192	5,350	408	*420	468	131	68	53	39	68
24	49	106	159	2,980	348	384	480	126	63	57	35	56
25	48	96	142	1,480	348	372	492	122	60	49	35	43
26	48	88	134	994	300	444	468	118	55	43	33	38
27	54	86	131	768	269	648	744	117	50	40	31	35
28	58	85	170	720	276	1,220	432	118	48	39	31	35
29	65	81	348	624	-	936	360	134	48	37	31	36
30	65	81	504	540	-----	672	396	144	45	35	31	38
31	62	-----	324	480	-----	540	-----	132	-----	35	30	-----
Total	1,638	2,170	7,139	34,581	9,102	12,396	20,091	10,394	2,466	1,482	977	961
Mean	52.9	72.3	230	1,116	325	400	670	335	82.2	47.8	31.5	32.0
Cfs/m	0.171	0.234	0.744	3.61	1.05	1.29	2.17	1.09	0.266	0.155	0.102	0.104
In.	0.20	0.26	0.86	4.16	1.10	1.48	2.42	1.25	0.30	0.19	0.12	0.12

Calendar year 1953: Max 6,100 Min 41 Mean 426 Cfs/m 1.38 In. 18.71
Water year 1953-54: Max 5,350 Min 24 Mean 283 Cfs/m 0.916 In. 12.46

Peak discharge (base, 5,000 cfs).--Jan. 17 (5 p.m.) 5,470 cfs (15.57 ft); Jan. 23 (1:50 p.m.) 5,590 cfs (15.69 ft).

* Discharge measurement made on this day.

Tombigbee River near Cochrane, Ala.

Location.--Lat 33°05', long 88°14', in sec. 7, T. 24 N., R. 2 W., near left bank on downstream side of pier of bridge on State Highway 17, 200 ft upstream from Alabama, Tennessee and Northern Railroad bridge, 1½ miles northeast of Cochrane, 2½ miles downstream from Boguchitto Creek, and 7 miles southwest of Aliceville.

Drainage area.--5,990 sq mi, approximately.

Records available.--January 1939 to September 1954. Gage-height records collected at same site November 1909 to September 1924 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 89.85 ft above mean sea level, datum of 1929, supplementary adjustment of 1946. Auxiliary staff gage read twice daily at Vienna Ferry, 12 miles downstream at datum 7.5 ft lower.

Average discharge.--15 years, 8,101 cfs.

Extremes.--Maximum discharge during year, 30,200 cfs Jan. 28; maximum gage height, 25.2 ft Jan. 28; minimum discharge, 165 cfs Sept. 21 (gage height, 2.34 ft).

1939-54: Maximum discharge, 163,000 cfs Jan. 9, 1949; maximum gage height, 46.9 ft Jan. 9, 1949; minimum discharge, that of Sept. 21, 1954.

Maximum stage known, 50.2 ft in April 1892, present datum, from reports of U. S. Weather Bureau.

Remarks.--Records good except those for periods of doubtful gage-height record at auxiliary gage, which are fair, and those for period of no gage-height record, which are poor.

Cooperation.--Gage-height record and nine discharge measurements furnished by Corps of Engineers.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	520	455	*649	2,820	14,200	9,460	6,120	4,950	1,540	535	450	250
2	520	470	644	2,620	8,400	9,120	6,840	d5,100	1,550	530	400	237
3	510	475	671	2,300	6,480	8,310	7,370	d6,600	1,400	545	396	247
4	495	480	800	1,940	5,500	7,590	6,310	d15,000	1,260	545	364	244
5	470	495	920	1,720	4,720	7,450	5,680	d19,000	1,150	671	351	228
6	455	480	1,320	1,560	4,230	6,770	4,900	20,100	1,260	1,290	331	222
7	425	475	1,640	1,440	3,870	5,870	4,450	20,400	1,520	1,150	327	219
8	420	475	1,940	1,360	3,420	5,070	4,020	20,100	1,480	830	323	*207
9	410	470	2,160	1,320	3,250	4,660	3,670	d17,000	1,220	676	319	201
10	400	465	2,160	1,360	3,050	4,120	5,660	49,500	1,080	588	319	198
11	400	465	2,500	1,440	2,940	3,850	6,440	d6,000	980	649	335	201
12	396	475	2,900	1,680	2,870	3,530	*7,260	5,250	950	578	445	192
13	396	480	2,690	2,160	2,790	3,460	8,950	4,330	890	520	405	189
14	396	485	2,500	2,260	2,800	3,350	9,550	3,630	890	495	355	189
15	386	495	2,300	2,210	2,700	3,240	8,310	3,320	980	475	323	186
16	386	505	2,210	7,860	2,700	3,020	13,000	3,390	980	490	307	186
17	386	525	2,100	15,800	2,700	2,800	20,100	3,320	850	520	295	186
18	396	535	1,980	17,300	3,130	2,600	22,100	3,140	770	450	307	186
19	386	535	1,720	*17,700	3,900	2,600	22,700	2,800	742	440	299	186
20	*391	550	1,520	15,400	4,000	3,790	21,100	*2,600	770	a510	311	186
21	396	550	1,360	16,200	8,050	5,660	18,200	2,300	980	a720	303	172
22	396	572	1,260	21,000	13,500	5,790	15,100	2,080	950	a900	299	204
23	396	583	1,260	23,900	16,500	5,040	11,100	1,940	830	a840	287	207
24	391	605	1,290	25,700	*18,500	4,230	8,460	1,760	742	a780	295	216
25	391	649	1,320	26,600	18,700	3,680	7,090	1,680	682	a820	295	261
26	391	676	1,320	28,100	17,300	3,430	6,300	1,560	649	a940	279	500
27	405	676	1,260	29,700	13,900	3,960	5,380	1,480	632	a860	268	435
28	415	676	1,220	29,200	11,200	7,910	5,080	1,400	610	a730	264	327
29	415	671	1,320	26,700	-	9,980	4,290	1,360	*578	a600	264	303
30	420	666	1,710	22,300	-----	9,020	4,020	1,360	556	*505	258	295
31	435	-----	2,500	20,500	-----	7,560	-----	1,480	-----	480	258	-----
Total	12,985	16,104	51,144	372,150	205,300	186,920	279,550	193,930	29,561	20,662	10,032	7,060
Mean	419	537	1,650	12,000	7,332	5,385	9,318	6,256	985	667	324	235
Cfsm	0.070	0.090	0.275	2.00	1.22	0.899	1.56	1.04	0.164	0.111	0.054	0.039
In.	0.08	0.10	0.32	2.31	1.27	1.04	1.74	1.20	0.18	0.13	0.06	0.04
Calendar year 1953:	Max	51,600	Min	380	Mean	7,414	Cfsm	1.24	In.	16.80		
Water year 1953-54:	Max	29,700	Min	172	Mean	5,741	Cfsm	0.825	In.	8.47		

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for station at Gainesville.

d Doubtful gage-height record at auxiliary gage; discharge estimated on basis of records for station at Gainesville.

Sipsey River at Fayette, Ala.

Location.--Lat 33°40', long 87°49', in SW $\frac{1}{4}$ sec. 8, T. 16 S., R. 12 W., on downstream side of left bank pier of highway bridge, 1 mile southeast of Fayette and $1\frac{1}{2}$ miles downstream from Southern Railroad bridge.

Drainage area.--275 sq mi.

Records available.--February 1939 to September 1954.

Gage.--Water-stage recorder. Datumm of gage is 296.72 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Prior to Feb. 2, 1945, chain gage, Feb. 2, 1945, to June 8, 1949, wire-weight gage, and June 9, 1949, to Oct. 17, 1951, water-stage recorder, at site 300 ft downstream at same datum.

Average discharge.--15 years, 408 cfs.

Extremes.--Maximum discharge during year, 7,200 cfs Jan. 23 (gage height, 18.38 ft); minimum, 7.0 cfs Sept. 15.

1939-54: Maximum discharge, 20,500 cfs Jan. 7, 1950, Mar. 29, 1951, from rating curve extended above 14,000 cfs; maximum gage height, 21.75 ft Jan. 8, 1946; minimum discharge observed, that of Sept. 15, 1954.

Remarks.--Records fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Jan. 22

Jan. 23 to Sept. 30

6.1	17	13.0	1,400	5.8	7.4	10.0	687
6.5	37	15.0	2,170	6.0	13	13.0	1,440
6.8	62	16.0	2,820	6.4	36	15.0	2,440
7.5	172	17.0	4,020	6.8	74	17.0	4,310
9.0	477			7.6	190	18.2	6,600

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	30	36	140	330	750	624	424	72	20	14	10
2	24	28	38	120	288	561	645	351	63	20	12	10
3	26	28	73	102	268	488	519	666	61	26	11	9.8
4	25	29	232	88	248	466	435	1,370	94	57	11	9.6
5	24	28	177	80	228	372	372	1,580	107	63	11	*9.8
6	24	27	137	75	210	330	330	903	74	38	10	14
7	26	29	114	68	194	298	288	561	60	29	11	11
8	24	30	77	64	182	268	264	435	51	26	12	8.8
9	22	29	206	68	173	248	240	362	48	27	25	11
10	24	28	393	74	167	228	218	288	45	28	51	11
11	22	*27	226	118	168	216	232	240	40	26	21	11
12	20	30	172	120	160	203	414	204	42	25	16	9.3
13	19	40	158	102	156	195	372	192	35	24	13	8.1
14	19	35	152	91	142	210	268	199	31	23	12	7.6
15	21	30	*163	276	139	187	230	203	30	24	12	*7.4
16	21	32	134	2,210	178	157	858	183	29	19	13	8.4
17	23	32	96	1,940	351	144	1,660	156	29	19	30	8.8
18	22	32	74	3,840	309	140	2,120	138	50	18	36	9.8
19	20	34	66	*2,140	222	330	1,900	126	91	147	40	11
20	22	36	59	793	320	815	*793	120	60	80	23	8.8
21	28	40	69	1,520	687	540	519	106	43	42	22	9.6
22	22	45	88	2,960	582	362	424	102	*39	27	22	122
23	22	53	87	6,800	435	298	382	94	36	22	19	136
24	22	50	74	4,870	*393	268	498	82	32	22	22	48
25	22	48	64	2,800	372	*250	666	78	30	22	17	31
26	22	46	60	1,130	309	340	603	*75	29	23	13	19
27	26	43	58	750	268	645	1,110	74	27	*21	12	15
28	30	42	91	624	362	1,210	624	78	25	18	13	11
29	30	40	252	508	-	1,210	498	100	23	16	15	11
30	28	35	288	435	-----	771	540	98	22	16	13	9.8
31	32	-----	196	382	-----	603	-----	86	-----	17	12	-----
Total	736	1,057	4,110	35,088	7,841	13,103	18,646	9,674	1,418	986	544	607.6
Mean	23.7	35.2	133	1,132	280	423	622	312	47.3	31.8	17.5	20.3
Cfsm	0.086	0.128	0.484	4.12	1.02	1.54	2.26	1.13	0.172	0.116	0.064	0.074
In.	0.10	0.14	0.56	4.75	1.06	1.77	2.52	1.31	0.19	0.13	0.07	0.08

Calendar year 1953: Max 8,350 Min 19 Mean 404 Cfsm 1.47 In. 19.95

Water year 1953-54: Max 6,600 Min 7.4 Mean 257 Cfsm 0.935 In. 12.68

Peak discharge (base, 2,500 cfs).--Jan. 18 (9 a.m.) 4,400 cfs (17.20 ft); Jan. 23 (4:30 p.m.) 7,200 cfs (18.38 ft).

* Discharge measurement made on this day.

Sipsey River near Elrod, Ala.

Location.--Lat 33°15', long 87°46', in NE¼ sec. 3, T. 21 S., R. 12 W., on left bank at downstream side of bridge on U. S. Highway 82, a quarter of a mile upstream from Gulf, Mobile and Ohio Railroad bridge, 1 mile east of Elrod, and 2 miles downstream from Box Creek.

Drainage area.--515 sq mi.

Records available.--August 1928 to March 1932, October 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 197.81 ft above mean sea level, datum of 1929, supplementary adjustment of 1944. Prior to Mar. 31, 1932, chain gage at railroad bridge a quarter of a mile downstream at datum 1.93 ft higher.

Average discharge.--18 years (1928-31, 1939-54), 762 cfs.

Extremes.--Maximum discharge during year, 6,400 cfs Jan. 26 (gage height, 14.95 ft); minimum, 12 cfs Sept. 20 (gage height, 2.53 ft).
1928-32, 1939-54: Maximum discharge, 21,000 cfs Jan. 9, 1950, Mar. 31, 1951 (gage height, 18.1 ft); minimum, that of Sept. 20, 1954.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 8-22)

Oct. 1 to Jan. 26

Jan. 27 to Sept. 30

3.2	32	12.0	1,190	2.5	11	11.0	940
4.0	76	13.0	1,770	3.0	31	12.0	1,260
7.0	303	14.0	3,090	4.0	82	13.0	1,830
9.0	525	15.0	6,600	6.0	234	14.0	3,090
11.0	890			9.0	560	15.0	6,600

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	50	92	436	1,760	720	965	915	158	46	33	*21
2	48	52	89	413	1,500	652	1,050	940	150	44	29	21
3	46	53	92	350	1,260	635	1,180	940	135	43	29	20
4	46	56	124	285	1,050	669	1,260	965	121	41	29	19
5	44	54	163	251	865	720	1,180	915	110	42	27	18
6	44	52	227	227	703	760	1,050	865	110	44	25	17
7	42	50	285	212	575	780	965	865	135	66	25	16
8	*42	50	276	197	495	720	840	915	128	75	24	15
9	39	50	267	189	447	652	720	1,020	107	65	24	15
10	38	50	294	197	413	560	620	1,120	94	53	22	16
11	40	54	340	267	391	495	547	1,180	88	45	21	19
12	38	*57	472	294	370	447	550	1,080	85	45	21	17
13	38	56	539	285	350	435	590	840	79	43	30	17
14	38	55	539	267	340	471	590	635	75	43	35	19
15	36	56	511	259	330	447	605	521	74	39	29	*17
16	34	65	*413	460	330	402	760	447	70	40	25	15
17	34	68	340	682	340	370	1,050	391	68	45	23	15
18	33	66	294	719	370	340	1,150	350	69	41	23	14
19	33	65	251	821	435	330	1,260	300	66	39	29	13
20	32	70	212	*941	498	391	1,340	261	65	35	31	13
21	34	75	204	2,180	560	471	*1,500	234	82	37	39	19
22	34	81	204	4,200	575	547	1,620	216	*97	104	48	25
23	35	92	212	3,450	605	605	1,760	194	85	91	40	23
24	36	100	212	2,990	669	652	1,830	162	74	65	32	23
25	38	106	212	3,300	*740	*686	1,690	170	66	52	30	60
26	38	106	197	6,000	800	669	1,440	158	59	43	29	107
27	44	103	182	5,000	800	669	1,220	*150	56	*41	27	75
28	48	100	193	3,880	780	760	1,020	150	52	48	28	52
29	47	96	294	2,890	-	800	915	158	50	*45	26	41
30	46	92	402	2,430	-----	820	915	162	49	41	25	35
31	46	-----	456	2,040	-----	890	-----	162	-----	38	22	-----
Total	1,241	2,080	8,568	46,112	18,348	18,545	32,192	17,401	2,657	1,539	880	797
Mean	40.0	69.3	276	1,487	655	598	1,073	561	88.5	49.6	28.4	26.6
Cfsm	0.078	0.135	0.536	2.89	1.27	1.16	2.08	1.09	0.172	0.096	0.055	0.052
In.	0.09	0.15	0.62	3.33	1.32	1.34	2.32	1.26	0.19	0.11	0.06	0.06

Calendar year 1953: Max 8,600 Min 32 Mean 723 Cfsm 1.40 In. 19.08
Water year 1953-54: Max 6,000 Min 13 Mean 412 Cfsm 0.800 In. 10.85

Peak discharge (base, 4,500 cfs).--Jan. 26 (10 a.m.) 6,400 cfs (14.95 ft).

* Discharge measurement made on this day.

Sipsey River near Pleasant Ridge, Ala.

Location.--Lat 33°02', long 88°07', in S½ sec. 20, T. 24 N., R. 1 W., on downstream hand-rail of bridge on State Highway 40, 450 ft downstream from Hughes Creek, 2½ miles northwest of Pleasant Ridge, 6 miles upstream from mouth, and 6 miles south of Aliceville.

Drainage area.--766 sq mi.

Records available.--February 1939 to September 1954 (incomplete October 1939 to September 1943).

Gage.--Wire-weight gage read twice daily. Datum of gage is 105.13 ft above mean sea level, datum of 1929, supplementary adjustment of 1946. Prior to Dec. 21, 1942, staff gage at site 300 ft upstream at present datum. Auxiliary staff gage read twice daily on Tombigbee River at Vienna Ferry, 2 miles upstream from Sipsey River.

Average discharge.--11 years (1943-54), 1,185 cfs.

Extremes.--Maximum discharge during year, 5,630 cfs Jan. 29 (gage height, 15.30 ft, from graph based on gage readings); minimum daily, 17 cfs Sept. 13.
1939-54: Maximum discharge, 21,900 cfs Apr. 2, 1951, minimum daily determined, that of Sept. 13, 1954.

Remarks.--Records fair.

Cooperation.--Gage-height record and nine discharge measurements furnished by Corps of Engineers.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 3 to Dec. 4, June 15 to July 15;
fall used as a factor Jan. 27, 28)

1.5	14	4.0	430
1.8	33	8.0	2,020
2.2	71	12.0	3,800
3.0	188	15.0	5,450

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	60	*108	680	3,900	1,240	1,160	1,400	207	62	47	30
2	71	59	102	680	3,170	1,200	1,160	1,400	207	61	46	32
3	70	59	106	640	2,890	1,160	1,160	1,400	179	63	44	28
4	68	62	137	600	2,350	1,080	1,080	1,320	179	79	41	24
5	64	64	207	525	2,020	960	1,240	1,400	179	67	35	28
6	64	64	260	430	1,760	960	1,320	1,320	145	62	37	25
7	60	66	332	385	1,520	960	1,360	1,200	137	57	37	*24
8	58	64	345	345	1,280	960	1,440	1,120	130	54	36	24
9	55	62	400	320	1,080	960	1,360	1,080	145	62	34	22
10	57	62	490	370	880	960	1,280	1,040	145	61	32	21
11	55	64	720	640	720	920	1,120	1,040	130	77	32	18
12	53	62	1,040	720	640	840	960	1,120	115	69	30	19
13	54	66	1,080	640	600	720	*880	1,200	108	61	28	*17
14	54	67	1,040	560	560	680	1,040	1,280	108	55	27	18
15	52	71	920	640	525	680	1,200	1,240	95	55	27	19
16	51	72	840	2,440	525	680	1,640	1,040	102	54	33	19
17	51	71	760	2,860	525	600	2,020	800	95	130	39	19
18	50	75	600	2,770	560	560	2,180	*640	89	89	36	20
19	48	82	490	*1,890	525	580	1,850	525	89	62	32	21
20	*46	83	400	1,440	640	560	1,760	430	81	56	30	19
21	46	83	358	1,360	760	600	1,480	385	82	55	54	19
22	46	95	345	1,680	840	560	1,440	332	79	55	35	22
23	46	102	345	1,850	840	640	1,520	308	82	55	39	25
24	46	130	320	2,180	*860	680	1,560	283	77	43	25	23
25	46	122	320	3,350	1,040	760	1,680	260	89	115	46	23
26	46	122	308	4,000	1,000	840	1,760	238	83	89	45	24
27	50	122	283	3,690	1,000	1,820	1,890	227	83	63	39	24
28	52	115	308	4,170	1,120	1,480	1,890	207	79	56	33	55
29	54	110	430	5,570	-	1,560	1,760	207	*70	48	35	39
30	56	110	600	5,350	-----	1,350	1,560	198	54	*46	32	68
31	60	-----	680	4,610	-----	1,240	-----	170	-----	49	30	-----
Total	1,709	2,446	14,676	57,365	34,030	28,280	43,750	24,810	3,453	2,060	1,135	821
Mean	55.1	81.5	473	1,850	1,215	912	1,458	800	115	66.5	36.6	27.4
Cfsm	0.072	0.106	0.617	2.42	1.59	1.19	1.90	1.04	0.150	0.087	0.048	0.036
In.	0.08	0.12	0.71	2.79	1.65	1.37	2.12	1.20	0.17	0.10	0.06	0.04

Calendar year 1953: Max 7,820 Min 46 Mean 1,057 Cfsm 1.38 In. 18.73
Water year 1953-54: Max 5,570 Min 17 Mean 588 Cfsm 0.768 In. 10.41

Peak discharge (base, 4,500 cfs).--Jan. 29 (6 p.m.) 5,630 cfs (15.30 ft).

* Discharge measurement made on this day.

Noxubee River near Brooksville, Miss.

Location.--Lat 33°13'30", long 88°42'10", in center of sec. 19, T. 16 N., R. 16 E., Choctaw meridian, on right bank at downstream side of highway bridge, a quarter of a mile downstream from Shotbag Creek, 3½ miles upstream from Lynn Creek, 4½ miles downstream from Octoc Creek, 5½ miles upstream from Yellow Creek, and 7 miles west of Brooksville.

Drainage area.--440 sq mi, approximately.

Records available.--July 1940 to June 1942, January 1944 to September 1954.

Gage.--Water-stage recorder. Prior to May 18, 1945, staff gage, and May 18, 1945, to July 22, 1949, wire-weight gage, at same site and datum.

Average discharge.--11 years (1940-41, 1944-54), 624 cfs.

Extremes.--Maximum discharge during year not determined, occurred May 6, 7, or 8; no flow for many days.

1940-42, 1944-54: Maximum discharge, 55,000 cfs Mar. 29, 1951 (gage height, 23.88 ft), from rating curve extended above 14,000 cfs by logarithmic plotting; no flow at times during 1952-54.

Remarks.--Records good except those for periods of no gage-height record, which are poor.

Cooperation.--Gage-height record and 11 discharge measurements furnished by Corps of Engineers.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.27	0	4.0	249
.3	.1	8.0	760
.5	5.5	12.0	1,380
.7	11	16.0	2,250
1.0	26	17.0	2,550
2.0	77	18.0	3,500

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0	89	676	249	529	180	58	12	17	0
2		0	0	66	594	281	362	500	51	10	16	0
3	4	0	2.6	56	412	303	292	1,000	46	14	14	0
4		0	11	*50	281	264	249	2,000	39	16	12	.4
5		0	9.2	46	214	270	214	2,500	*30	17	11	1.1
6		3.5	0	83	42	204	276	182	2,700	30	16	.9
7		0	62	38	191	229	150	2,600	37	31	8	2.2
8		0	30	34	164	196	224	3,000	34	64	7	2.5
9		3	0	28	32	142	173	409	2,000	30	73	*6.2
10		0	62	34	*125	150	995	1,000	28	78	5.3	1.4
11		0	38	68	109	137	1,500	500	26	72	4.7	1.2
12		0	98	52	88	125	2,250	350	26	85	4.1	.8
13		0	76	70	71	117	2,410	250	25	76	3.8	.5
14		0	62	75	68	109	1,950	200	22	65	5.1	.4
15		.4	76	94	66	91	946	180	20	57	2.5	.1
16		1	.5	62	1,190	*65	80	975	190	18	51	2.3
17		*.1	54	1,250	65	73	1,780	*209	18	62	1.9	0
18		0	50	875	63	70	1,700	*173	22	46	1.4	0
19		.5	0	44	845	62	101	*1,840	146	28	53	1.4
20		0	39	542	136	*186	2,000	137	31	75	1.2	0
21		.2	0	36	477	330	350	1,220	117	24	56	2.7
22		*.1	0	34	1,220	676	477	412	94	22	46	1.5
23		0	.2	34	1,180	830	303	350	83	22	46	.8
24		0	.1	33	1,220	662	209	300	74	33	50	.7
25		0	.1	31	1,220	438	168	400	68	28	42	.9
26		*0	.1	32	950	464	155	350	64	22	34	1.7
27		0	0	30	581	386	311	300	61	24	50	1.1
28		0	0	38	355	303	905	250	60	*20	26	.9
29		0	0	66	412	995	220	60	18	23	.9	0
30		0	0	57	581	-----	1,140	200	60	16	20	*.2
31		0	-----	89	662	-----	935	-----	66	-----	18	.1
Total	48.3	1.5	1,366.8	14,606	7,885	9,428	24,969	20,622	848	1,364	144.4	13.7
Mean	1.56	0.05	44.1	471	282	304	832	665	28.5	44.0	4.66	0.46
Cfsm	0.0035	0.00011	0.100	1.07	0.641	0.691	1.99	1.51	0.064	0.100	0.011	0.0010
In.	0.004	0.0001	0.12	1.23	0.67	0.80	2.11	1.74	0.07	0.12	0.01	0.001
Calendar year 1953: Max	6,560			Min	0		Mean	431	Cfsm	0.980	In.	13.29
Water year 1953-54: Max	3,000			Min	0		Mean	223	Cfsm	0.507	In.	6.88

Peak discharge (base, 3,000 cfs).--May 6, 7, or 8 (time and discharge unknown).

* Discharge measurement or observation of no flow made on this day.

Note.--No gage-height record Oct. 1-5, 7-21, 23-25, Oct. 27 to Nov. 3, Feb. 15, Apr. 23 to May 16, Aug. 6-8; discharge estimated on basis of weather records and records for station at Macon.

Noxubee River at Macon, Miss.

Location.--Lat 33°06'05", long 88°33'40", in NE¼ sec. 4, T. 14 N., R. 17 E., Choctaw meridian, on left bank at downstream side of bridge on U. S. Highway 45 at Macon, a quarter of a mile upstream from Cedar Creek, 1 mile downstream from Gulf, Mobile and Ohio Railroad bridge, 1½ miles downstream from Horse Hunters Creek, and 6¼ miles upstream from Running Water Creek.

Drainage area.--812 sq mi.

Records available.--August 1928 to May 1932, September 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 142.38 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to May 31, 1932, chain gage at site 40 ft downstream at different datum. Sept. 21, 1938, to Aug. 10, 1939, wire-weight gage at present site and datum.

Average discharge.--19 years (1928-31, 1938-54), 891 cfs.

Extremes.--Maximum discharge during year, 5,750 cfs May 8 (gage height, 24.53 ft); minimum, 25 cfs Sept. 1-5; minimum gage height, 6.08 ft Sept. 1.
1928-32, 1938-54: Maximum discharge, 52,000 cfs Mar. 30, 1951 (gage height, 32.97 ft); minimum, 22 cfs Aug. 25, 26, 1943 (gage height, 4.89 ft).

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Nov. 6-23)

Oct. 1 to May 3

May 4 to Sept. 30

6.1	37	12.0	1,230	6.0	20	12.0	1,200
6.5	72	15.0	1,950	6.3	43	15.0	1,940
7.0	137*	18.0	2,720	7.0	118	20.0	3,420
8.0	304	23.0	4,500	8.0	268	25.0	6,100
10.0	752			10.0	725		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	44	65	157	1,140	454	1,110	304	119	54	48	25
2	42	45	64	178	968	*399	728	370	117	51	45	23
3	42	46	71	149	800	431	536	1,500	106	48	43	25
4	42	47	93	126	584	465	454	2,780	96	46	43	25
5	42	43	189	114	442	410	*389	3,190	96	46	41	25
6	40	39	115	108	370	399	341	3,580	83	54	38	26
7	39	39	116	99	341	399	304	4,750	74	57	37	26
8	41	39	179	94	322	350	295	5,690	76	60	36	27
9	39	40	145	88	286	313	572	*5,390	81	65	36	41
10	39	43	131	124	268	266	800	*4,610	76	111	35	44
11	39	43	162	226	251	268	1,280	*2,340	73	121	34	34
12	39	43	189	226	234	251	1,900	*557	68	127	33	30
13	38	43	217	162	212	234	2,120	391	66	119	32	28
14	37	43	210	136	178	226	2,290	336	68	126	32	27
15	37	43	163	387	176	212	2,220	286	65	112	32	26
16	38	*43	155	3,290	174	189	3,220	305	61	112	31	27
17	38	46	144	3,080	176	173	4,120	346	59	174	33	27
18	38	47	124	2,220	179	165	3,640	286	61	99	44	27
19	37	47	112	1,280	168	184	2,730	242	60	*100	a35	28
20	38	47	105	1,020	242	277	2,240	218	63	102	a30	28
21	39	46	*100	1,780	379	389	2,100	202	*68	118	a30	28
22	*41	54	98	3,320	548	488	1,450	188	89	107	a35	27
23	41	58	95	3,390	848	572	704	181	74	90	a30	27
24	41	73	91	2,750	944	410	632	147	67	79	a30	30
25	41	65	84	*1,830	776	322	896	138	64	80	a30	29
26	40	57	83	1,500	560	379	632	131	73	81	a30	*28
27	41	56	83	1,420	560	896	488	124	68	72	a30	28
28	43	55	113	1,180	524	2,100	399	124	62	65	a30	28
29	55	57	226	848	-	1,950	360	144	61	62	a30	28
30	48	58	193	1,260	-	1,520	322	128	58	55	*26	28
31	44	-	171	1,380	-	1,420	-	118	-	52	26	-
Total	1,261	1,449	4,092	33,892	12,650	16,561	39,272	38,956	2,232	2,685	1,065	852
Mean	40.7	48.3	132	1,093	452	534	1,309	1,257	74.4	86.0	34.4	28.4
Cfsm	0.050	0.059	0.163	1.35	0.557	0.658	1.61	1.55	0.092	0.106	0.042	0.035
In.	0.06	0.07	0.19	1.55	0.58	0.76	1.80	1.78	0.10	0.12	0.05	0.04

Calendar year 1953: Max 10,100 Min 37 Mean 632 Cfsm 1.02 In. 13.91
Water year 1953-54: Max 5,690 Min 25 Mean 425 Cfsm 0.523 In. 7.10

Peak discharge (base, 5,000 cfs).--May 8 (3 p.m.) 5,750 (24.53 ft).

* Discharge measurement made on this day.

No gage-height record; discharge estimated on basis of recorded range in stage, weather records, and records for stations at Brooksville, Miss. and Gieger, Ala.

MOBILE RIVER BASIN

Noxubee River near Geiger, Ala.

Location.--Lat 32°55', long 88°18', in SE $\frac{1}{4}$ sec. 33, T. 23 N., R. 3 W., near left bank on downstream side of pier of bridge on State Highway 17, half a mile upstream from Woodards Creek, 1 mile upstream from Alabama, Tennessee and Northern Railroad bridge, and 4 miles north of Geiger.

Drainage area.--1,080 sq mi, approximately.

Records available.--March 1939 to September 1940, July 1944 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 86.08 ft above mean sea level, datum of 1929, supplementary adjustment of 1946. Prior to Sept. 30, 1940, staff gage at site of old highway bridge 1 mile downstream at datum 84.64 ft above mean sea level. July 26, 1944, to June 5, 1949, wire-weight gage at present site and datum. Auxiliary water-stage recorder on Tombigbee River at Gainesville, $\frac{1}{2}$ miles downstream from Noxubee River.

Average discharge.--11 years (1939-40, 1944-54), 1,596 cfs.

Extremes.--Maximum discharge during year, 8,550 cfs Apr. 17 (gage height, 29.46 ft); minimum, 13 cfs July 7 (gage height, 2.16 ft).
1939-40, 1944-54: Maximum discharge, 37,600 cfs Mar. 31, 1951 (gage height, 42.7 ft); minimum, that of July 7, 1954.

Remarks.--Records fair except those for period of no gage-height record, which are poor. Discharge includes flow of Noxubee cutoff channel at bridge on State Highway 17, 1 mile north of gage.

Cooperation.--Gage-height record and nine discharge measurements furnished by Corps of Engineers.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 31 to Dec. 11; fall used as a factor Jan. 25 to Feb. 1)

2.3	18	8.0	1,430
2.6	36	16.0	3,300
3.0	77	24.0	5,700
3.5	163	29.0	8,200
4.5	420		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	57	*53	369	2,170	750	1,740	495	183	53	58	27
2	57	52	52	302	1,650	875	1,430	485	185	52	54	27
3	48	58	288	1,310	630	1,020	680	173	47	48	25	
4	53	49	102	290	1,110	615	750	2,770	157	47	45	25
5	53	50	96	248	670	660	645	3,330	135	43	41	25
6	55	52	159	220	690	630	570	3,250	128	40	40	24
7	55	50	238	197	570	585	495	3,330	124	28	39	24
8	54	48	165	192	510	595	495	3,600	102	33	37	*24
9	53	48	192	179	480	540	a580	4,000	90	41	35	26
10	52	48	328	249	450	480	a800	4,200	90	44	33	27
11	52	48	270	705	420	435	a1,100	4,100	94	70	30	26
12	49	50	750	540	390	405	a1,600	3,200	91	165	28	37
13	48	52	465	420	363	381	a1,900	1,310	88	151	28	42
14	46	54	378	345	333	372	a2,200	705	77	151	27	35
15	46	55	372	589	295	351	2,660	615	75	153	27	33
16	45	57	315	2,390	272	325	4,950	525	73	163	27	32
17	45	59	255	3,400	780	300	8,080	495	72	208	27	32
18	45	57	240	3,530	275	268	7,900	555	66	290	27	30
19	44	57	220	*2,800	275	278	6,150	*495	63	201	27	30
20	43	60	199	1,820	330	328	4,280	435	62	135	28	30
21	*44	54	190	1,760	435	435	2,950	381	62	119	41	*26
22	44	60	179	3,890	585	570	2,440	339	85	119	36	*26
23	45	56	171	5,020	735	675	1,900	390	67	145	32	26
24	48	55	163	2,770	*1,020	780	1,540	288	75	130	29	22
25	48	58	157	3,750	1,200	645	1,140	250	77	105	29	22
26	49	65	149	2,630	1,050	540	1,200	230	70	85	31	22
27	48	69	139	2,060	810	1,380	960	213	65	85	31	23
28	51	63	173	2,100	780	3,180	720	199	72	87	32	24
29	49	58	354	1,800	-	3,300	600	194	*68	80	32	25
30	49	56	465	1,580	-----	2,530	540	197	56	*69	30	27
31	51	-----	450	2,250	-----	1,940	-----	216	-----	65	29	-----
Total	1,534	1,645	7,497	50,553	19,658	25,568	63,335	41,362	2,783	3,204	1,058	824
Mean	49.5	54.8	242	1,631	702	825	2,111	1,335	92.8	103	34.1	27.5
Cfs/m	0.046	0.051	0.224	1.51	0.650	0.764	1.95	1.24	0.086	0.095	0.032	0.025
In.	0.05	0.06	0.26	1.74	0.68	0.88	2.18	1.42	0.10	0.11	0.04	0.03
Calendar year 1953: Max	11,900			Min 43		Mean 1,229		Cfs/m 1.14		In. 15.46		
Water year 1953-54: Max	8,080			Min 22		Mean 600		Cfs/m 0.556		In. 7.55		

Peak discharge (base, 12,000 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of 1 discharge measurement, weather records, and records for nearby streams.

Tombigbee River at Gainesville, Ala.

Location.--Lat 32°49', long 88°09', in SE $\frac{1}{4}$ sec. 2, T. 21 N., R. 2 W., on downstream side of right bank pier of bridge on State Highway 39 at Gainesville, 2 miles downstream from Noxubee River.

Drainage area.--8,700 sq mi, approximately.

Records available.--October 1938 to September 1954. Gage-height records collected at same site since 1937 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 63.29 ft above mean sea level, datum of 1929, supplementary adjustment of 1946. Auxiliary water-stage recorder at Epes, 19 miles downstream from base gage.

Average discharge.--16 years, 11,440 cfs.

Extremes.--Maximum discharge during year, 35,800 cfs Apr. 18; maximum gage height, 30.5 ft Jan. 29; minimum daily discharge, 250 cfs Sept. 21, 22.
1938-54: Maximum discharge, 168,000 cfs Jan. 11, 1949; maximum gage height, 53.9 ft Jan. 11, 1949; minimum daily discharge, that of Sept. 21, 22, 1954.

Remarks.--Records good except those for period of indefinite stage-discharge relation, which are fair.

Cooperation.--Gage-height record and 20 discharge measurements furnished by Corps of Engineers.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	668	585	870	3,730	27,600	12,700	10,200	6,460	2,000	*705	*605	360
2	585	585	*848	3,730	19,500	11,600	9,180	7,060	2,080	680	*553	330
3	645	605	895	3,330	13,000	11,000	10,100	7,300	2,000	670	*526	350
4	625	605	1,020	2,930	9,980	9,620	8,830	15,800	1,820	680	490	350
5	605	625	1,150	2,550	8,330	9,340	7,860	23,600	1,640	705	470	320
6	605	625	1,460	2,190	7,150	8,860	7,040	25,400	1,570	1,130	450	310
7	585	625	1,990	1,990	6,220	7,740	6,580	26,300	1,710	1,640	442	*310
8	565	625	2,190	1,870	5,470	6,800	6,350	26,800	1,920	1,220	420	290
9	545	625	2,730	1,750	4,930	6,220	6,120	25,100	1,740	980	*395	280
10	545	605	2,930	2,030	4,590	5,800	6,240	21,000	1,570	840	*370	280
11	525	605	3,230	3,130	4,280	5,140	7,900	15,000	1,430	785	*350	280
12	525	605	5,390	2,930	4,060	4,810	9,460	11,600	1,310	862	*395	270
13	525	625	4,530	3,030	3,780	4,510	*11,300	8,040	1,250	812	*500	270
14	525	625	4,100	3,130	3,680	4,310	13,000	5,840	1,190	758	510	*270
15	525	645	3,750	3,130	3,480	4,050	13,000	5,360	1,220	705	460	260
16	521	668	3,530	15,000	3,480	3,900	20,500	5,140	1,310	730	430	260
17	517	668	3,330	22,100	3,480	3,610	33,100	4,810	1,250	840	420	260
18	513	690	2,930	25,200	3,580	3,380	35,500	4,480	1,100	895	430	260
19	509	712	2,550	*24,400	4,180	3,290	34,700	3,980	1,010	785	430	260
20	*505	735	2,240	21,300	4,710	3,780	33,200	*3,480	980	675	440	260
21	505	735	1,990	18,600	6,350	5,800	29,200	3,110	1,130	758	430	250
22	501	780	1,830	24,100	12,800	6,820	24,300	2,840	1,310	922	430	250
23	497	802	1,710	29,900	16,700	6,350	18,800	2,660	1,220	1,190	410	280
24	493	825	1,710	32,100	19,300	5,680	14,000	2,400	1,100	1,100	420	290
25	489	870	1,750	32,200	*21,200	5,040	11,400	2,320	1,010	1,040	420	310
26	489	895	1,710	32,800	20,900	4,770	10,300	2,160	950	1,100	400	490
27	493	920	1,680	33,200	18,000	8,940	9,040	2,000	895	1,310	380	670
28	501	920	1,710	33,800	14,900	16,800	8,380	1,920	840	*1,160	380	580
29	513	920	2,150	34,900	-	18,700	7,390	1,850	785	*950	380	460
30	517	895	2,730	34,300	-----	15,400	6,450	1,850	758	*758	370	420
31	545	-----	3,430	32,100	-----	12,400	-----	1,920	-----	*655	370	-----
Total	16,789	21,250	74,063	487,450	275,650	237,160	429,420	278,580	40,068	28,050	13,476	9,830
Mean	542	708	2,389	15,720	9,845	7,650	14,310	8,986	1,336	905	435	328
Cfs/m	0.062	0.081	0.275	1.81	1.13	0.879	1.64	1.03	0.154	0.104	0.050	0.038
In.	0.07	0.09	0.32	2.08	1.18	1.01	1.84	1.19	0.17	0.12	0.06	0.04
Calendar year 1953: Max	59,900	Min	489	Mean	10,750	Cfs/m	1.24	In.	16.78			
Water year 1953-54: Max	35,500	Min	250	Mean	5,238	Cfs/m	0.602	In.	8.17			

* Discharge measurement made on this day.

Note.--Stage-discharge relation indefinite Aug. 8 to Sept. 30; discharge estimated on basis of 7 discharge measurements and records for station near Cochrane.

Mulberry Fork near Garden City, Ala.

Location.--Lat 34°00', long 86°45', in NE $\frac{1}{4}$ sec. 16, T. 12 S., R. 2 W., near downstream side of left abutment of bridge on U. S. Highway 31, 1,000 ft downstream from Louisville & Nashville Railroad bridge, 1 mile southwest of Garden City, and 5 $\frac{1}{2}$ miles downstream from Mud Creek.

Drainage area.--365 sq mi.

Records available.--June 1928 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 380.54 ft above mean sea level, datum of 1929. Prior to Dec. 3, 1934, chain gage, and Dec. 4, 1934, to Jan. 4, 1939, wire-weight gage, at same site and datum.

Average discharge.--25 years (1929-54), 642 cfs.

Extremes.--Maximum discharge during year, 20,400 cfs Jan. 16 (gage height, 15.4 ft); minimum, 4.4 cfs Sept. 30 (gage height, 1.96 ft).
1928-54: Maximum discharge, 45,600 cfs Feb. 4, 1936 (gage height, 24.0 ft, from floodmark); minimum observed, 3 cfs Sept. 28-30, Oct. 1, 3-6, 1931 (gage height, 1.88 ft).

Remarks.--Records good except those for period of no gage-height record, which are fair.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

1.9	3.0	4.0	425
2.0	5.5	5.0	940
2.1	9.0	6.0	1,720
2.3	20	7.0	2,800
2.5	36	9.0	5,880
2.8	75	11.0	10,000
3.3	180	14.0	17,000

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	5.5	6.6	320	615	1,250	1,820	204	169	21	11	9.9
2	*12	5.5	*5.3	306	570	940	1,070	165	148	48	9.4	7.8
3	11	5.7	15	292	520	850	860	266	2,390	425	9.0	6.3
4	9.9	6.3	120	261	*461	690	740	484	395	162	8.2	6.0
5	9.4	6.3	75	250	409	600	a660	296	492	100	7.4	5.5
6	9.4	6.0	73	240	369	540	a600	240	353	57	7.0	5.5
7	8.6	5.5	111	210	331	479	a580	*204	278	37	10	6.3
8	7.8	5.5	63	195	303	434	*1,170	*219	222	28	9.0	5.5
9	7.0	6.0	958	186	289	393	920	180	178	*24	8.2	19
10	6.6	6.3	738	236	278	369	590	155	153	21	7.0	26
11	7.0	6.3	258	474	314	*342	506	134	130	18	6.0	13
12	7.0	6.0	1,990	373	349	317	497	122	117	17	5.7	8.6
13	7.0	5.7	850	314	258	1,760	421	119	107	15	*5.5	6.3
14	7.0	5.7	1,410	310	237	1,390	377	683	102	14	5.7	*6.0
15	6.3	5.7	850	2,130	228	740	342	497	84	18	8.2	6.0
16	6.3	6.0	605	15,100	306	555	575	373	98	16	7.0	5.7
17	6.6	6.0	443	3,910	665	474	710	306	378	15	7.4	5.7
18	6.3	6.0	349	2,330	369	430	448	264	532	12	160	5.7
19	6.0	6.0	303	1,680	320	825	381	237	158	68	47	5.5
20	6.0	7.4	268	1,330	986	792	328	210	103	26	38	5.5
21	6.0	8.2	278	5,170	850	555	286	180	78	15	24	13
22	5.7	10	300	10,500	585	470	264	155	66	71	19	10
23	5.5	10	250	3,910	497	430	240	144	116	248	14	6.3
24	5.5	11	210	2,380	850	401	250	128	60	92	12	4.9
25	5.5	16	189	1,770	660	389	261	115	48	45	10	4.6
26	5.7	12	183	1,410	575	635	275	107	42	30	9.0	5.7
27	7.8	9.0	172	1,370	497	1,860	210	96	35	22	7.8	5.5
28	*7.4	8.2	231	1,070	2,260	1,720	180	766	31	19	8.6	4.9
29	6.0	7.8	484	910	-	1,180	250	665	26	16	13	4.9
30	5.5	6.6	405	792	-	1,000	275	*357	23	14	14	4.6
31	5.5	-----	*361	690	-----	975	-----	226	-----	12	12	-----
Total	228.3	218.2	12,554.9	60,419	14,951	23,785	16,106	8,299	8,311	1,726	520.1	230.2
Mean	7.36	7.27	405	1,949	534	767	537	268	277	55.7	16.8	7.67
Cfs/m	0.020	0.020	1.11	5.34	1.46	2.10	1.47	0.734	0.759	0.153	0.046	0.021
In.	0.02	0.02	1.28	6.16	1.52	2.42	1.64	0.85	0.85	0.18	0.05	0.02

Calendar year 1953: Max 10,500 Min 5.5 Mean 596 Cfs/m 1.63 In. 22.18

Water year 1953-54: Max 15,100 Min 4.6 Mean 404 Cfs/m 1.11 In. 15.01

Peak discharge (base, 13,000 cfs).--Jan. 16 (8:30 a.m.) 20,400 cfs (15.4 ft); Jan. 22 (9:30 a.m.) 16,000 cfs (13.6 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of weather records and records for stations on nearby streams.

Sipsey Fork near Falls City, Ala.

Location.--Lat 34°03', long 87°16', in NE $\frac{1}{4}$ sec. 33, T. 11 S., R. 7 W., near midstream on downstream side of pier of highway bridge, $1\frac{1}{4}$ miles downstream from Clifty Fork, $1\frac{1}{2}$ miles north of Falls City, and $2\frac{1}{2}$ miles upstream from Clear Creek.

Drainage area.--375 sq mi.

Records available.--October 1943 to December 1954 (discontinued).

Gage.--Water-stage recorder. Altitude of gage is 360 ft (by barometer).

Average discharge.--11 years, 640 cfs.

Extremes.--1953-54: Maximum discharge during water year, 17,500 cfs Jan. 22 (gage height, 16.6 ft); minimum, 3.4 cfs Sept. 15, 16 (gage height, 1.49 ft).

1954: Maximum discharge during period October to December, 13,000 cfs Dec. 29 (gage height, 14.5 ft); minimum daily, 9.5 cfs Oct. 11-13.

1943-54: Maximum discharge, 48,400 cfs Jan. 8, 1946 (gage height, 29.6 ft), from rating curve extended above 16,000 cfs; minimum, that of Sept. 15, 16, 1954.

Remarks.--Records good except those for periods of no gage-height record, which are poor.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	16	*29	127	339	750	1,120	330	84	23	14	7.8
2	21	16	29	106	302	638	1,150	290	91	21	12	6.6
3	20	16	47	96	*290	575	875	563	356	18	10	5.8
4	20	18	140	84	268	478	682	1,600	308	18	9.0	5.2
5	20	19	105	81	242	411	555	*1,060	185	18	8.2	4.7
6	20	18	91	75	218	381	460	728	127	16	6.6	4.6
7	20	18	84	69	198	348	*400	555	100	17	9.4	4.4
8	19	18	63	65	179	330	363	460	88	*17	18	5.8
9	19	18	262	62	175	305	354	366	78	17	20	5.4
10	19	18	288	67	175	*290	308	298	71	16	*18	4.2
11	18	19	151	85	209	282	238	248	63	17	16	4.0
12	20	19	175	88	230	265	478	216	58	17	14	3.8
13	18	19	152	81	207	248	439	245	58	16	12	3.6
14	16	19	179	83	185	235	381	411	54	16	12	3.6
15	16	20	183	595	181	200	345	615	55	14	12	*3.5
16	16	20	145	9,730	198	175	2,320	460	57	14	11	3.5
17	15	20	103	3,400	252	169	4,250	360	59	12	10	3.5
18	15	20	81	1,330	242	165	1,800	298	58	23	12	3.6
19	15	20	69	800	223	263	1,180	255	79	40	13	3.6
20	15	21	62	555	295	446	625	218	72	23	12	3.8
21	15	24	74	3,720	495	366	615	185	60	20	14	130
22	15	27	86	14,700	456	310	495	161	55	20	15	55
23	15	30	86	6,020	397	292	418	145	52	18	14	35
24	14	30	77	2,420	460	282	1,550	131	48	17	12	26
25	14	31	69	1,560	439	272	1,030	116	44	18	11	20
26	14	32	62	1,120	390	354	775	107	40	26	9.4	18
27	*16	33	59	850	345	718	595	99	36	36	8.2	16
28	18	31	71	660	495	950	460	105	34	23	7.8	14
29	16	30	172	555	-	750	425	*113	30	20	8.2	14
30	16	30	*248	460	-----	638	408	109	26	18	9.8	a13
31	16	-----	167	394	-----	575	-----	98	-----	16	9.4	-----
Total	533	670	3,609	50,038	8,085	12,461	25,354	10,945	2,524	655	368	432
Mean	17.2	22.3	116	1,614	289	402	845	353	84.1	21.1	11.9	14.4
Cfs/m	0.046	0.059	0.309	4.30	0.771	1.07	2.25	0.941	0.224	0.056	0.032	0.038
In.	0.05	0.07	0.36	4.96	0.80	1.24	2.51	1.09	0.25	0.06	0.04	0.04
Calendar year 1953: Max	14,900	Min	11	Mean	513	Cfs/m	1.37	In.	18.58			
Water year 1953-54: Max	14,700	Min	3.5	Mean	317	Cfs/m	0.845	In.	11.47			

Peak discharge (base, 11,000 cfs).--Jan. 16 (12 m.) 13,200 cfs (14.6 ft); Jan. 22 (1 p.m.) 17,500 cfs (16.6 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Clear Creek at Falls City.

Discharge, in cubic feet per second, 1954

Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.
1	a12	16	84	9	a14	28	62	17	9.8	*116	72	25	9.8	28	57
2	a12	16	63	10	a12	28	63	18	9.4	92	129	26	9.8	28	53
3	a12	17	54	11	a9.5	28	74	19	9.8	60	126	27	10	30	51
4	a 11	22	46	12	a9.5	25	75	20	9.8	50	110	28	12	36	161
5	a 11	36	50	13	a9.5	23	77	21	9.8	42	88	29	14	123	9,670
6	a 11	35	59	14	*10	23	75	22	9.4	36	75	30	16	129	4,230
7	a 11	33	58	15	10	23	*72	23	9.4	33	68	31	16	-	1,150
8	a13	29	60	16	10	79	65	24	9.8	31	62				
Total													342.3	1,295	17,159
Mean													11.0	43.2	554
Cubic feet per second per square mile													0.029	0.115	1.48
Runoff in inches													0.03	0.13	1.70
Calendar year 1954: Max	14,700	Min	3.5	Mean	355	Cfs/m	0.947	In.	12.85						

Peak discharge (base, 11,000 cfs).--Dec. 29 (4 p.m.) 13,000 cfs (14.5 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Clear Creek at Falls City.

MOBILE RIVER BASIN

Sipsey Fork near Jasper, Ala.

Location.--Lat 33°54'40", long 87°05'00", in SE $\frac{1}{4}$ sec. 17, T. 13 S., R. 5 W., near left bank on downstream side of bridge on State Highway 69, 200 ft downstream from Mill Creek, a third of a mile upstream from Boyd Creek, $\frac{3}{4}$ miles downstream from Ryan Creek, 11 miles upstream from mouth, and 13.7 miles northeast of Jasper.

Drainage area.--976 sq mi.

Records available.--July 1952 to September 1954.

Gage.--Water-stage recorder. Datum of gage 253.77 ft above mean sea level, datum of 1929, supplementary adjustment of 1944. Prior to Sept. 23, 1953, wire-weight gage at same site and datum.

Extremes.--Maximum discharge during year, 34,000 cfs Jan. 22 (gage height, 45.0 ft); minimum, 9.0 cfs Sept. 20 (gage height, 0.54 ft).
1952-54: Maximum discharge, that of Jan. 22, 1954; minimum, that of Sept. 20, 1954.

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

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

(Backwater from return of overbank flow Jan. 17, 18, 23, 24)

Oct. 1 to Dec. 9

Dec. 10 to Sept. 30

0.7	31	0.5	7	7.0	1,760
.8	36	.6	12	14.0	4,560
.9	47	.7	21	21.0	8,560
1.2	107	.9	48	30.0	16,300
2.0	349	1.2	106	40.0	27,300
5.0	1,260	3.0	566		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*46	39	61	514	1,080	2,540	2,920	800	306	50	34	26
2	45	40	*59	436	*994	1,910	2,690	696	306	48	33	26
3	44	43	84	384	910	1,690	2,170	938	875	134	31	22
4	42	44	318	332	826	1,410	1,730	*2,690	1,440	128	25	19
5	39	43	440	314	748	1,200	1,410	2,020	592	76	21	18
6	36	42	287	298	670	1,110	*1,230	*1,410	384	71	20	17
7	35	40	268	261	618	1,020	1,080	1,110	314	*67	32	16
8	35	39	223	244	540	938	1,080	994	a270	60	58	15
9	34	42	1,120	231	514	*854	1,230	826	a230	56	80	16
10	34	42	1,840	251	527	826	938	670	a200	55	50	20
11	34	42	618	436	605	774	826	579	a180	55	*42	18
12	34	44	2,320	423	882	722	994	514	a170	50	36	16
13	35	44	1,350	358	670	994	994	605	a160	50	33	14
14	36	47	1,050	329	566	1,260	854	938	a150	45	33	12
15	35	47	910	1,910	540	774	800	1,110	a150	46	34	11
16	34	49	644	23,800	670	618	1,910	910	a160	50	34	*11
17	34	47	462	18,000	1,290	553	6,990	722	a170	44	32	12
18	33	46	332	7,500	994	540	3,500	618	a190	58	124	13
19	33	50	268	4,470	826	994	2,320	540	a280	579	274	13
20	34	62	244	2,240	1,350	1,690	1,690	475	a210	208	161	10
21	a34	66	309	7,460	2,060	1,260	1,290	410	a160	91	114	514
22	34	74	410	27,100	1,580	994	1,080	358	a130	71	74	397
23	34	84	358	21,000	1,320	882	938	332	a110	55	58	138
24	33	84	298	9,400	1,730	826	1,840	329	99	55	46	84
25	33	82	258	4,850	1,650	800	1,730	316	88	74	39	63
26	34	74	244	3,140	1,410	994	1,440	309	80	722	33	48
27	36	74	231	2,580	1,230	2,130	1,170	306	74	198	31	40
28	*36	68	281	2,130	2,320	3,750	1,020	311	65	106	31	40
29	36	64	*774	1,690	-	2,660	1,050	*514	62	73	40	33
30	36	62	882	1,480	-	2,130	1,050	384	56	56	33	33
31	37	-----	670	1,260	-----	1,760	-----	314	-----	48	31	-----
Total	1,114	1,624	17,613	144,821	29,120	40,603	49,964	23,048	7,661	3,479	1,717	1,715
Mean	35.9	54.1	568	4,672	1,040	1,310	1,665	743	255	112	55.4	57.2
Cfsm	0.037	0.055	0.582	4.79	1.07	1.34	1.71	0.761	0.261	0.115	0.057	0.059
In.	0.04	0.06	0.67	5.52	1.11	1.55	1.90	0.88	0.29	0.13	0.07	0.07
Calendar year 1953: Max	25,900				Min 30		Mean 1,349	Cfsm 1.38	In. 18.78			
Water year 1953-54: Max	27,100				Min 10		Mean 864	Cfsm 0.906	In. 12.29			

Peak discharge (base, 18,000 cfs).--Jan. 16 (7:30 p.m.) 32,000 cfs (43.6 ft); Jan. 22 (9 p.m.) 34,000 cfs (45.0 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and records for Sipsey Fork near Falls City.

Clear Creek at Falls City, Ala.

Location.--Lat 34°02', long 87°16', in NE $\frac{1}{4}$ sec. 9, T. 12 S., R. 7 W., on left bank 15 ft downstream from highway bridge, a quarter of a mile upstream from Clear Creek Falls, half a mile south of Falls City, and 2 miles upstream from mouth.

Drainage area.--151 sq mi.

Records available.--June 1904 to December 1905 (gage heights only), October 1939 to November 1954 (discontinued). Published as "near Elk" 1904-5.

Gage.--Water-stage recorder. Prior to Dec. 4, 1939, staff gages at same site and datum.

Altitude of gage is 460 ft (by barometer).

Average discharge.--15 years, 250 cfs.

Extremes.--1953-54: Maximum discharge during water year, 4,980 cfs Jan. 22 (gage height, 5.75 ft); minimum, 4.1 cfs Sept. 17, 18 (gage height, 0.57 ft).

1954: Maximum discharge during period October to November, 273 cfs Nov. 29 (gage height, 1.46 ft); minimum, 6.2 cfs Oct. 11 (gage height, 0.60 ft).

1939-54: Maximum discharge, 13,000 cfs Jan. 8, 1946 (gage height, 10.97 ft), from rating curve extended above 6,800 cfs; minimum, that of Sept. 17, 18, 1954.

Remarks.--Records good except those below 15 cfs, which are fair, and those for period of no gage height-record, which are poor.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	23	*26	81	182	341	364	191	69	24	13	8.8
2	24	23	26	69	174	271	336	170	72	23	13	7.8
3	24	23	42	66	*174	256	292	413	150	24	13	6.9
4	23	24	149	60	174	223	246	782	209	24	12	6.9
5	23	24	98	57	149	204	213	*452	78	26	11	6.9
6	21	24	60	54	134	195	191	*324	57	32	11	7.8
7	21	24	69	52	122	182	*178	261	47	30	34	7.8
8	20	24	54	50	115	170	170	237	42	*23	66	10
9	20	24	141	50	112	161	165	187	42	21	32	14
10	20	24	250	52	107	*145	145	153	42	20	*22	12
11	20	24	94	63	130	145	142	138	42	19	18	10
12	20	24	101	63	170	138	223	122	40	20	16	7.8
13	20	26	104	54	130	134	195	142	47	19	15	7.8
14	20	28	108	54	115	130	165	191	40	20	16	7.8
15	20	28	115	444	112	112	157	182	37	17	16	*7.8
16	19	28	81	3,480	122	98	977	142	52	17	14	11
17	19	21	80	1,630	174	98	1,520	122	189	17	15	8.0
18	19	28	47	648	165	98	672	115	176	25	39	4.8
19	17	28	40	419	149	186	445	108	94	37	37	7.8
20	17	34	42	319	207	261	324	101	60	24	52	10
21	16	37	50	1,480	376	191	261	90	50	20	28	296
22	16	37	66	4,600	287	161	223	81	42	19	21	167
23	16	44	80	2,300	242	153	195	78	40	24	18	50
24	16	44	50	1,030	242	145	656	78	40	26	16	30
25	16	32	42	656	232	138	370	72	40	24	14	24
26	17	34	40	485	213	178	382	72	40	28	12	22
27	*21	32	34	395	187	354	287	72	40	23	14	26
28	23	34	50	324	292	528	223	78	34	19	15	19
29	23	32	134	276	-	386	218	*87	32	16	15	18
30	23	26	*138	242	-----	319	242	*81	28	15	16	18
31	23	-----	101	209	-----	276	-----	72	-----	11	11	-----
Total	621	858	2,472	19,762	4,988	6,379	10,177	5,394	1,971	687	845	841.7
Mean	20.0	28.6	79.7	637	178	206	339	174	65.7	22.2	20.8	28.1
Cfs/m	0.132	0.189	0.528	4.22	1.18	1.36	2.25	1.15	0.435	0.147	0.138	0.186
In.	0.15	0.21	0.61	4.87	1.23	1.57	2.51	1.33	0.49	0.17	0.16	0.21

Calendar year 1953: Max 5,100 Min 15 Mean 237 Cfs/m 1.57 In. 21.28

Water year 1953-54: Max 4,600 Min 4.8 Mean 150 Cfs/m 0.993 In. 13.51

Peak discharge (base, 3,000 cfs).--Jan. 16 (3 p.m.) 3,980 cfs (5.00 ft); Jan. 22 (1 p.m.) 4,980 cfs (5.75 ft).

* Discharge measurement made on this day.

Discharge, in cubic feet per second, 1954

Day	Oct.	Nov.	Day	Oct.	Nov.	Day	Oct.	Nov.	Day	Oct.	Nov.
1	18	24	9	19	26	17	18	*153	25	18	26
2	18	21	10	18	24	18	18	63	26	18	26
3	18	a22	11	12	24	19	18	43	27	19	28
4	16	a27	12	15	22	20	18	41	28	21	72
5	16	a33	13	15	22	21	18	36	29	26	a160
6	16	a30	14	*16	22	22	18	32	30	26	a120
7	16	a28	15	18	24	23	18	30	31	26	-
8	19	26	16	18	118	24	18	28			
Total.....									566	1,351	
Mean.....									18.3	45.0	
Cubic feet per second per square mile.....									0.121	0.298	
Runoff in inches.....									0.14	0.33	

Peak discharge (base, 3,000 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Sipsey Fork near Falls City.

Blackwater Creek near Manchester, Ala.

Location.--Lat 33°54'30", long 87°15'25", in SE $\frac{1}{4}$ sec. 15, T. 13 S., R. 7 W., on right bank at downstream side of highway bridge, a quarter of a mile downstream from small tributary, 2 miles east of Manchester, and $5\frac{1}{2}$ miles north of Jasper.

Drainage area.--177 sq mi.

Records available.--October 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 401.04 ft above mean sea level, datum of 1929, unadjusted.

Average discharge.--16 years, 297 cfs.

Extremes.--Maximum discharge during year, 2,850 cfs Jan. 22 (gage height, 6.96 ft); minimum daily, 1.9 cfs Sept. 20.

1938-54: Maximum discharge, 8,050 cfs Jan. 9, 1946 (gage height, 11.49 ft); minimum daily, 1.3 cfs Oct. 25, 1938.

Remarks.--Records good except those below 10 cfs, which are fair, and those for periods of no gage-height record, which are poor. Occasional regulation at very low flow by mill 2 miles above station.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Jan. 15

Jan. 16 to Sept. 30

1.3	3.5	2.4	56	1.1	1.6	2.8	119
1.5	7.6	2.9	137	1.3	3.5	3.4	269
1.8	15	3.5	280	1.5	7.0	4.0	490
2.1	31	4.0	442	1.8	16	5.0	1,030
				2.1	31	7.0	2,850
				2.4	59		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*9.3	3.9	*12	98	260	379	500	211	39	13	6.0	3.0
2	5.3	7.2	12	80	231	346	470	173	47	12	6.0	2.9
3	7.6	7.8	18	69	*214	318	410	319	74	14	5.4	2.9
4	6.9	7.4	24	64	188	288	340	*526	66	13	5.0	2.9
5	6.3	7.6	74	55	168	248	290	542	78	11	4.7	2.8
6	6.3	7.4	61	52	154	239	*251	433	54	11	6.0	2.7
7	5.8	7.4	41	49	139	219	231	321	39	*10	12	2.7
8	5.6	7.6	60	45	125	198	211	257	34	10	23	2.5
9	5.4	7.4	186	43	119	180	206	211	30	10	*37	2.5
10	5.2	7.4	161	49	117	*171	175	166	27	10	24	2.4
11	5.0	7.4	131	76	125	163	180	139	25	10	14	2.4
12	6.0	7.6	110	76	143	157	301	120	22	10	9.0	2.4
13	6.5	9.6	120	68	135	152	242	123	22	9.8	7.0	2.4
14	5.0	8.8	200	60	115	143	193	161	20	9.5	5.2	2.4
15	4.4	9.8	300	410	110	127	168	161	20	9.2	4.6	*2.1
16	4.3	10	120	2,250	192	108	578	139	20	12	3.8	2.0
17	4.1	9.5	70	1,840	332	88	1,260	112	93	10	4.1	2.3
18	4.1	9.5	45	1,740	233	100	1,060	96	161	17	27	2.2
19	4.1	9.5	37	1,660	193	250	730	85	101	55	14	2.0
20	4.3	11	38	845	295	445	486	76	71	12	141	1.9
21	4.4	12	49	1,720	409	318	349	68	44	8.2	62	148
22	4.1	13	56	2,650	390	239	272	62	33	7.0	24	180
23	3.7	13	54	2,650	304	203	242	56	28	7.0	15	90
24	3.7	12	42	2,550	371	185	253	52	25	6.8	11	45
25	3.5	12	39	2,200	286	173	282	48	22	6.4	9.5	27
26	3.9	13	37	1,260	217	210	285	45	20	7.0	7.2	20
27	*8.1	14	38	704	168	400	295	43	18	12	5.0	15
28	4.8	13	50	542	233	320	304	*41	16	9.0	3.6	*12
29	3.5	12	120	413	-	600	245	44	15	7.0	8.2	12
30	3.5	12	*155	353	-	450	233	52	14	6.4	4.1	9.8
31	3.5	-	128	301	-	400	-	46	-	6.4	3.3	-
Total	161.2	289.8	2,588	24,972	5,968	8,427	11,052	5,028	1,278	351.7	511.7	608.2
Mean	5.20	9.66	83.5	806	213	272	368	162	42.6	11.3	16.5	20.3
Cfs/m	0.029	0.055	0.472	4.55	1.20	1.54	2.08	0.915	0.241	0.064	0.093	0.115
In.	0.03	0.06	0.54	5.25	1.25	1.77	2.32	1.06	0.27	0.07	0.11	0.13

Calendar year 1953: Max 2,750 Min 3.5 Mean 276 Cfs/m 1.56 In. 21.10
 Water year 1953-54: Max 2,650 Min 1.9 Mean 168 Cfs/m 0.949 In. 12.66

Peak discharge (base, 1,800 cfs).--Jan. 16 (1 a.m.) 2,500 cfs (6.63 ft); Jan. 22 (8 a.m.) 2,850 cfs (6.96 ft).

* Discharge measurement made on this day.

Note.--No gage-height record Oct. 7-9, 11, 12, Nov. 21, 24-30, Dec. 8, 12-20, 22-29, Mar. 18, 19, Mar. 26 to Apr. 5, May 12, 20-27, July 4-6, 15, and Sept. 22-24; discharge estimated on basis of recorded range in stage and records for stations on nearby streams.

Lost Creek near Oakman, Ala.

Location.--Lat 33°45'50", long 87°21'30", in SE¼ sec. 3, T. 15 S., R. 8 W., on right bank on downstream side of pier of bridge on State Highway 69, a quarter of a mile upstream from Wolf Branch, three-quarters of a mile downstream from Pumpkin Creek, 4 miles north-east of Oakman, and 6½ miles southwest of Jasper.

Drainage area.--134 sq mi.

Records available.--November 1951 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 280 ft (from topographic map).

Extremes.--Maximum discharge during year, 3,910 cfs Jan. 16 (gage height, 17.68 ft); no flow Oct. 25 to Nov. 7.

1951-54: Maximum discharge, that of Jan. 16, 1954; no flow Oct. 25 to Nov. 7, 1953.

Remarks.--Records good above 300 cfs, fair between 20 and 300 cfs, and poor below 20 cfs.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 27 to Jan. 15, Jan. 28 to Feb. 16, Mar. 2-19, Apr. 4-16, June 13-17, July 29 to Aug. 20, and Sept. 15-22)

0.17	0	1.0	31
.2	.1	1.4	73
.3	.6	2.0	157
.4	1.6	5.0	649
.5	3.4	10.0	1,760
.6	6.3	17.0	3,700
.8	18		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*0.6	0	0.5	43	126	354	442	76	15	2.8	3.2	4.7
2	.7	0	*.4	29	*114	242	314	65	13	7.0	2.0	2.4
3	1.0	0	4.3	22	103	226	242	184	50	203	1.5	2.3
4	2.1	0	*11	15	90	192	193	378	27	102	1.2	2.1
5	2.3	0	3.6	13	78	156	163	*184	17	40	1.1	1.6
6	2.1	0	14	11	71	140	139	130	13	21	1.0	.9
7	2.1	0	8.2	6	59	120	*123	99	11	*11	1.0	*.4
8	1.8	.1	9.6	5.9	51	106	124	86	10	9.6	.9	.3
9	1.5	*.1	158	5.3	48	*92	107	71	13	6.6	*.9	.3
10	1.4	.1	190	7.4	48	87	81	61	8.2	5.0	.9	.2
11	1.1	.1	40	25	47	80	81	50	4.7	3.5	.9	.2
12	.9	.1	218	28	44	74	174	43	7.6	9.6	.9	.2
13	.7	.1	98	19	37	77	128	48	8.6	4.1	1.6	.2
14	.5	.1	*81	15	33	78	98	63	9.1	4.4	2.3	.1
15	.4	.1	74	570	34	60	86	66	7.4	1.3	1.5	*.1
16	.3	.1	38	3,760	96	49	856	52	69	5.3	1.0	.1
17	.3	.1	20	2,670	282	43	1,250	41	226	9.1	4.4	.1
18	.2	.1	11	*543	164	42	492	35	103	94	5.0	.1
19	.2	.1	5.9	370	128	212	*322	29	53	156	4.0	.1
20	.2	.2	5.0	290	258	442	234	25	31	19	61	.1
21	.1	.3	8.2	1,910	354	226	187	24	17	15	204	132
22	.1	1.4	15	3,550	242	166	157	19	14	15	124	242
23	.1	2.6	13	3,020	*198	138	146	17	12	6.6	73	109
24	.1	2.4	9.1	761	290	*123	196	14	*8.2	3.4	49	67
25	0	2.1	5.9	492	250	114	144	15	7.4	2.1	34	43
26	0	1.8	4.1	370	202	186	113	14	4.6	2.1	17	24
27	*0	1.6	3.6	314	172	510	94	13	6.4	2.0	10	23
28	0	1.2	27	250	330	840	81	*14	6.6	1.8	9.6	18
29	0	.9	199	196	458	81	14	2.3	*2.1	12		5.9
30	0	.7	*142	169	354	100	31	.9	2.0	12		3.9
31	0	-----	74	150	282	-----	17	-----	3.9	9.6	-----	-----
Total	20.8	16.4	1,491.4	19,631.8	3,949	6,247	6,947	1,978	776	750.3	650.5	684.3
Mean	0.671	0.547	48.1	633	141	202	232	63.8	25.9	24.2	21.0	22.8
Cfsm	0.0050	0.0041	0.359	4.72	1.05	1.51	1.73	0.476	0.193	0.181	0.157	0.170
In.	0.006	0.005	0.41	5.45	1.10	1.73	1.93	0.55	0.22	0.21	0.18	0.19

Calendar year 1953: Max 3,250 Min 0 Mean 186 Cfsm 1.39 In. 18.89

Water year 1953-54: Max 3,760 Min 0 Mean 118 Cfsm 0.881 In. 11.98

Peak discharge (base, 3,000 cfs).--Jan. 16 (11 p.m.) 3,910 cfs (17.68 ft); Jan. 23 (2 a.m.) 3,790 cfs (17.30 ft).

* Discharge measurement made on this day.

Note.--No gage-height record Oct. 12-26, Oct. 28 to Nov. 6, Nov. 28 to Dec. 1, Aug. 3-8, 10-13, 15-18, Sept. 6, 8-14, 16-20; discharge estimated on basis of 4 discharge measurements, weather records, and records for nearby streams.

Locust Fork below Snead, Ala.

Location.--Lat 34°08', long 86°23', in SE $\frac{1}{4}$ sec. 25, T. 10 S., R. 2 E., on right bank on upstream side of pier of bridge on State Highway 32, half a mile downstream from Mud Creek, $1\frac{1}{2}$ miles upstream from Slab Creek, and $2\frac{1}{4}$ miles northwest of Snead.

Drainage area.--131 sq mi.

Records available.--August 1952 to September 1954.

Gage.--Water-stage recorder. Datum of the gage is 702.94 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 7,750 cfs Jan. 16 (gage height, 25.1 ft); minimum, 3.2 cfs Sept. 7.

1952-54: Maximum discharge, that of Jan. 16, 1954; minimum, that of Sept. 7, 1954.

Remarks.--Records good above 10 cfs and fair below except those for periods of no gage-height record, which are poor.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 22 to Dec. 8)

Oct. 1 to Dec. 9

Dec. 10 to Sept. 30

1.2	1.8	1.2	1.7	3.5	156
1.3	4.0	1.3	3.7	4.5	327
1.8	23	1.5	10	6.0	688
2.5	59	2.0	31	10.0	1,940
		2.5	81	18.0	4,900
		3.0	102	24.0	7,300

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	4.7	9.7	130	249	798	612	56	18	11	5.9	5.0
2	7.5	4.0	9.3	117	222	472	437	47	18	10	5.6	4.7
3	7.5	*4.3	9.3	108	200	392	348	54	568	9.5	5.9	4.2
4	7.5	3.8	15	101	182	316	286	74	235	18	5.6	3.9
5	*7.5	3.5	23	93	182	287	249	66	84	12	5.0	3.7
6	7.1	3.4	21	87	143	231	296	53	58	10	5.0	3.7
7	6.8	3.7	19	74	131	203	240	47	45	11	6.2	3.5
8	6.4	3.7	17	69	121	182	358	49	36	10	8.2	3.7
9	6.1	4.3	50	64	117	161	437	51	32	30	5.6	3.5
10	5.7	5.4	162	110	114	146	249	45	44	39	5.3	3.7
11	5.4	6.4	*104	258	110	134	211	38	38	16	5.3	3.7
12	5.4	7.1	257	*249	112	124	175	33	26	13	5.0	4.2
13	5.4	8.2	296	196	107	226	146	35	28	11	4.7	*4.2
14	5.4	7.9	359	175	92	715	131	67	92	10	5.0	3.7
15	5.0	6.2	338	732	*81	533	117	86	50	9.0	5.9	3.5
16	5.0	8.2	214	7,100	100	306	141	69	30	8.4	5.9	3.9
17	5.0	8.2	144	3,960	190	240	214	56	28	8.4	5.6	4.4
18	4.7	9.0	108	1,210	154	208	151	49	241	9.0	6.2	4.2
19	4.7	9.0	86	770	122	222	119	45	78	15	6.5	4.2
20	4.3	9.0	72	583	280	258	100	41	42	13	6.5	4.2
21	4.3	9.7	72	1,090	359	188	86	37	30	9.0	12	5.9
22	4.3	13	96	2,420	240	154	77	32	*24	10	51	4.7
23	4.0	15	85	1,800	203	*141	71	29	23	20	20	4.4
24	4.0	15	70	1,030	520	138	66	25	23	28	13	4.4
25	4.0	12	63	715	508	137	62	*23	22	21	9.3	4.4
26	4.0	13	58	546	359	414	59	23	19	15	7.5	4.2
27	4.7	11	54	484	276	674	53	22	16	10	6.5	4.2
28	5.4	12	90	480	770	1,030	*50	25	14	*8.2	7.2	3.9
29	5.4	11	170	370	---	742	57	23	13	7.5	6.5	3.9
30	5.4	9.7	176	327	---	436	60	22	12	6.5	*5.9	3.9
31	5.4	---	150	286	---	426	---	21	---	6.2	5.6	---
Total	170.8	243.4	3,397.3	25,714	6,204	10,674	5,658	1,343	1,988	414.7	257.4	123.7
Mean	5.51	8.11	110	829	222	344	189	43.3	66.3	13.4	8.30	4.12
Cfsm	0.042	0.062	0.840	6.33	1.69	2.63	1.44	0.351	0.506	1.102	0.063	0.031
In.	0.05	0.07	0.96	7.30	1.76	3.03	1.61	0.38	0.56	0.12	0.07	0.04

Calendar year 1953: Max 4,120 Min 3.4 Mean 219 Cfsm 1.67 In. 22.74
Water year 1953-54: Max 7,100 Min 3.4 Mean 154 Cfsm 1.18 In. 15.95

Peak discharge (base, 2,600 cfs).--Jan. 16 (7:30 a.m.) 7,750 cfs (25.1 ft); Jan. 22 (11 a.m.) 3,120 cfs (13.4 ft).

* Discharge measurement made on this day.

Note.--No gage-height record Nov. 4, 5, Feb. 14, May 24, June 26 to July 9, July 11-22, 26, 27; discharge estimated on basis of weather records and records for nearby stations.

Locust Fork near Cleveland, Ala.

Location.--Lat 34°02', long 86°34', in NE $\frac{1}{4}$ sec. 6, T. 12 S., R. 1 E., on downstream side of pier near center of bridge on U. S. Highway 231 and State Highway 38, 2 miles north of Cleveland and 2 $\frac{1}{2}$ miles downstream from Graves Creek.

Drainage area.--300 sq mi, approximately.

Records available.--December 1936 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 536.94 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark). Prior to Apr. 20, 1940, staff gage at site 200 ft upstream at same datum. Apr. 20, 1940, to Mar. 23, 1944, staff gage, and Mar. 24, 1944, to Apr. 11, 1945, wire-weight gage, at present site and datum.

Average discharge.--17 years (1937-54), 524 cfs.

Extremes.--Maximum discharge during year, 15,000 cfs Jan. 16 (gage height, 11.8 ft); minimum, 2.3 cfs Sept. 14, 15, 16 (gage height, 0.62 ft).

1936-54: Maximum discharge observed, 47,000 cfs Dec. 28, 1942 (gage height, 19.2 ft, from gage then in use); minimum since Oct. 1, 1943, that of Sept. 14, 15, 16, 1954; minimum prior to Oct. 1, 1943, not determined.

Remarks.--Records good above 10 cfs and fair below except those for periods of doubtful or no gage-height record, which are poor.

Revisions (water years).--WSP 1112: 1943(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.6	1.9	2.0	259
.7	4.3	2.5	485
.8	8.4	3.0	778
.9	15	4.0	1,500
1.1	33	7.0	4,470
1.3	62	9.0	7,400
1.6	128	11.5	14,000

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	6.9	9.6	271	549	1,420	1,340	142	75	21	10	*6.9
2	9.0	*6.9	9.4	244	501	973	973	126	68	20	9.6	7.4
3	8.4	6.4	12	225	449	778	759	148	1,670	24	8.4	7.4
4	7.9	6.9	20	207	396	664	628	244	1,080	31	8.4	6.0
5	7.4	6.9	24	201	359	544	533	194	386	23	7.4	5.6
6	*6.4	6.9	26	184	328	485	517	156	251	19	7.9	4.6
7	6.4	7.9	25	165	299	429	517	131	187	22	9.6	4.6
8	6.4	8.4	25	153	267	382	499	134	153	17	8.4	4.3
9	6.4	7.9	87	142	255	350	876	131	128	17	8.4	4.0
10	6.9	7.9	275	184	232	324	538	118	110	30	7.4	3.7
11	6.9	7.9	*207	*439	240	291	405	101	150	56	7.4	2.9
12	6.9	7.9	568	475	255	267	369	90	103	36	6.4	2.7
13	6.9	7.9	544	382	221	438	324	90	81	24	5.6	*2.5
14	6.9	8.4	759	346	194	1,110	283	372	110	20	6.0	2.5
15	6.9	9.0	640	1,650	*187	973	255	320	162	18	6.0	2.3
16	6.9	9.6	420	13,100	218	588	279	248	116	17	8.4	2.7
17	6.9	9.6	299	7,090	400	454	405	197	92	21	6.9	4.9
18	6.4	9.6	232	2,700	354	391	337	172	196	28	7.9	3.7
19	6.4	9.6	190	1,720	275	415	255	156	232	28	14	3.4
20	6.4	10	168	1,300	399	501	214	139	113	22	12	4.0
21	6.0	11	162	2,800	683	391	187	126	75	15	9.0	6.4
22	5.6	13	175	4,940	490	324	172	110	*59	17	9.0	7.9
23	5.2	12	181	3,810	400	*299	156	99	56	24	22	6.4
24	5.2	13	153	3,300	759	291	165	88	46	30	25	8.4
25	5.2	15	131	1,590	908	279	211	*81	40	66	22	8.4
26	5.2	12	123	1,180	659	485	184	77	35	46	19	7.9
27	6.4	12	116	1,110	522	1,140	142	72	30	25	12	5.2
28	6.4	11	136	1,010	1,380	1,820	*126	175	26	*20	13	4.9
29	6.4	9.6	287	843	-	1,340	159	156	24	15	9.6	4.6
30	6.9	9.6	350	720	-----	940	162	116	22	14	8.4	4.9
31	6.9	-----	307	640	-----	772	-----	88	-----	12	7.9	-----
Total	209.1	280.7	6,660	53,121	12,178	19,658	11,969	4,597	5,878	778	323.0	151.1
Mean	6.71	9.36	215	1,714	435	641	399	148	196	25.1	10.4	5.04
cfs/m	0.022	0.031	0.717	5.71	1.45	2.14	1.33	0.493	0.653	0.084	0.035	0.017
In.	0.03	0.03	0.83	6.59	1.51	2.46	1.48	0.57	0.73	0.10	0.04	0.02

Calendar year 1953: Max 7,400 Min 5.2 Mean 479 Cfs/m 1.60 In. 21.66
 Water year 1953-54: Max 13,100 Min 2.3 Mean 318 Cfs/m 1.06 In. 14.39

Peak discharge (base, 11,000 cfs).--Jan. 16 (12 m.) 15,000 cfs (11.8 ft).

* Discharge measurement made on this day.

Note.--Doubtful or no gage-height record June 25 to July 10, July 13-24, 27; discharge estimated on basis of weather records and records for nearby stations.

Locust Fork at Trafford, Ala.

Location.--Lat 33°50', long 86°45', in SW $\frac{1}{4}$ sec. 9, T. 14 S., R. 2 W., on left bank 50 ft downstream from new highway bridge, three-quarters of a mile northwest of Trafford, $1\frac{1}{2}$ miles east of Coaldale, and $2\frac{1}{2}$ miles upstream from Gurley Creek.

Drainage area.--622 sq mi.

Records available.--September 1930 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 309.12 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark). Prior to Jan. 27, 1934, chain gage at same site and datum.

Average discharge.--23 years (1930-31, 1932-54), 1,017 cfs.

Extremes.--Maximum discharge during year, 30,000 cfs Jan. 16 (gage height, 40.4 ft); minimum, 9.8 cfs Sept. 16, 17.
1930-54: Maximum discharge, 60,700 cfs Jan. 6, 1949 (gage height, 59.1 ft); minimum daily, 8 cfs Oct. 20, 1931.

Remarks.--Records good except those for period of no gage-height record, which are poor. Diversion above station subsequent to 1938 by City of Birmingham from Inland Reservoir (usable capacity, 60,000 acre-ft) on Blackburn Fork for industrial water supply.

Revisions (water years).--WSP 782: 1934.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Rate of change in stage used as a factor Jan. 15-18, 21-23)

Oct. 1 to May 24

May 25 to Sept. 30

2.7	17	14.0	5,060	2.8	8.7	3.4	155
3.0	80	22.0	10,600	2.9	22	7.0	1,450
4.0	405	30.0	17,900	3.0	38	10.0	2,840
8.0	1,900	39.0	28,100				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	19	26	490	1,070	2,740	2,110	351	191	a47	32	24
2	*28	17	23	429	964	1,880	1,980	323	191	a46	25	20
3	26	17	*30	398	892	1,620	1,500	364	885	a48	25	17
4	26	19	64	364	*820	1,380	1,280	524	2,440	a72	22	16
5	23	19	80	334	749	1,150	1,070	490	800	a60	16	16
6	17	19	85	303	696	1,000	928	*354	453	a47	13	15
7	17	19	80	276	626	874	*910	*306	316	a49	22	15
8	17	19	75	245	524	784	*820	293	250	*52	28	15
9	17	19	192	228	456	714	1,040	293	212	47	32	15
10	17	19	558	395	439	644	928	249	191	37	28	13
11	17	19	402	1,040	456	*575	696	225	168	33	24	12
12	17	19	1,150	1,000	541	524	609	198	191	42	20	11
13	17	19	1,180	802	490	1,050	541	191	155	68	*17	11
14	17	19	1,420	662	415	2,840	473	408	129	49	19	11
15	17	21	1,300	1,920	388	2,060	422	626	165	38	24	11
16	17	23	856	27,700	456	1,420	490	456	205	37	22	*9.8
17	19	23	592	20,900	1,000	1,070	626	371	215	38	28	*9.8
18	19	23	436	7,020	856	910	609	313	175	60	24	12
19	19	23	351	3,270	679	928	473	283	236	49	19	15
20	19	25	296	2,390	820	1,040	395	255	236	33	95	20
21	21	26	269	5,150	1,420	892	347	228	162	30	110	109
22	21	30	259	8,510	1,150	714	317	201	126	42	108	71
23	21	36	276	7,410	892	644	300	181	123	54	57	54
24	21	36	259	4,320	1,260	609	289	*177	98	175	35	35
25	19	36	221	2,840	1,740	575	323	165	86	77	37	25
26	19	36	201	2,200	1,580	714	541	152	a70	57	44	19
27	21	46	181	1,940	1,110	1,840	364	142	a62	77	37	16
28	21	42	198	1,900	2,150	3,980	323	660	a57	52	35	17
29	*19	36	490	1,580	-----	2,940	350	502	a53	44	35	16
30	19	28	626	1,580	-----	2,060	351	327	a50	47	26	16
31	19	-----	*575	1,180	-----	1,620	-----	229	-----	37	25	-----
Total	617	752	12,749	108,566	24,439	41,891	21,365	9,827	8,691	1,644	1,084	666.6
Mean	19.9	25.1	41.1	3,502	873	1,351	712	317	290	53.0	35.0	22.2
(+)	-81	-108	+63	+337	+79	+2	-13	-41	-59	-75	-78	-81
(+)	84	80	76	74	73	71	70	71	79	80	82	81

Calendar year 1953: Max 15,400 Min 17 Mean 888 Cfsm 1.43 In. 19.37

Water year 1953-54: Max 27,700 Min 9.8 Mean 636 Cfsm 1.02 In. 13.89

Peak discharge (base, 17,000 cfs).--Jan. 16 (10 p.m.) 30,000 cfs (40.4 ft).

* Discharge measurement made on this day.

† Change in contents in Inland Reservoir, equivalent in cubic feet per second; for calendar year 1953, -2 cfs; for water year 1953-54, -5 cfs. Records furnished by city of Birmingham.

†† Diversion from Inland Reservoir, in cubic feet per second; for calendar year 1953, 82 cfs; for water year 1953-54, 77 cfs. Records furnished by the city of Birmingham.

a No gage-height record; discharge estimated on basis of records for stations on same stream.

Turkey Creek at Morris, Ala.

Location.--Lat 33°44'25", long 86°48'45", in SW $\frac{1}{4}$ sec. 12, T. 15 S., R. 3 W., on right bank 60 ft upstream from bridge on U. S. Highway 31 at Morris, three-quarters of a mile downstream from Cunningham Creek, and 4 miles upstream from mouth.

Drainage area.--81 sq mi, approximately.

Records available.--January 1944 to September 1954.

Gage.--Staff gage and crest-stage indicator; gage read twice daily. Datum of gage is 345.18 ft above mean sea level, datum of 1929.

Average discharge.--10 years, 135 cfs.

Extremes.--Maximum discharge during year, 6,120 cfs Jan. 16 (gage height, 15.13 ft); minimum observed, 8.8 cfs Oct. 18, 19.

1944-54: Maximum discharge, 11,600 cfs Nov. 28, 1948 (gage height, 23.1 ft, from graph based on gage readings); minimum observed, that of Oct. 18, 19, 1953.

Remarks.--Records fair. Occasional slight diversions by sawmills above station.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

0.7	7.0	3.0	365
.9	20	6.0	1,550
1.2	45	9.0	2,450
1.6	90	11.0	3,510
2.0	149		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	10	11	66	84	206	167	90	53	12	12	12
2	12	11	11	56	84	158	124	78	45	12	12	12
3	11	11	*20	58	77	149	110	166	78	19	12	12
4	11	11	36	49	71	110	96	149	52	16	12	12
5	10	11	19	49	*64	96	90	110	48	14	11	11
6	*11	11	21	44	59	90	84	*90	42	14	12	12
7	11	12	19	41	51	84	76	78	38	14	19	13
8	11	11	16	40	48	73	*124	72	34	36	12	14
9	10	11	106	37	48	68	84	60	30	22	12	13
10	10	10	52	106	47	66	75	54	29	*15	12	14
11	11	10	69	206	53	*62	68	47	27	14	11	12
12	10	10	361	124	46	59	65	44	27	14	11	11
13	10	10	78	96	42	583	57	59	23	13	16	11
14	10	10	196	90	42	280	55	96	23	12	12	11
15	10	12	96	298	40	140	52	64	22	11	12	11
16	10	14	64	3,270	107	110	96	53	24	12	12	*12
17	10	13	47	610	84	96	84	46	23	13	12	14
18	9.4	12	40	316	66	84	65	44	22	14	*12	14
19	8.8	12	34	226	59	96	56	41	22	12	14	12
20	10	14	32	186	140	78	51	38	24	12	39	12
21	11	13	35	620	132	68	45	35	36	12	26	26
22	10	20	34	680	96	64	44	33	16	42	13	19
23	10	18	30	416	104	62	44	32	16	25	13	15
24	10	11	27	269	340	60	78	30	15	59	12	14
25	10	11	27	196	208	65	125	29	14	19	12	14
26	10	11	26	158	140	117	247	28	13	16	11	15
27	12	11	25	158	124	551	149	29	12	15	11	15
28	11	11	52	132	316	443	117	125	12	14	12	18
29	*10	11	149	117	-	258	140	149	12	14	14	19
30	10	11	117	103	-----	196	110	96	12	13	12	19
31	10	-----	*78	90	-----	158	-----	*66	-----	12	12	-----
Total	322.2	354	1,927	8,907	2,770	4,708	2,770	2,131	854	542	427	419
Mean	10.4	11.8	62.2	287	98.9	152	92.5	69.7	28.5	17.5	13.8	14.0
Cfsm	0.128	0.146	0.768	3.54	1.22	1.88	1.14	0.848	0.352	0.216	0.170	0.173
In.	0.15	0.16	0.88	4.09	1.27	2.16	1.27	0.98	0.39	0.25	0.20	0.19

Calendar year 1953: Max 3,280 Min 8.8 Mean 11.4 Cfsm 1.41 In. 19.05

Water year 1953-54: Max 3,270 Min 8.8 Mean 71.6 Cfsm 0.884 In. 11.99

Peak discharge (base, 2,000 cfs).--Jan. 16 (about 5 a.m.) 6,120 cfs (15.13 ft).

* Discharge measurement made on this day.

MOBILE RIVER BASIN

Locust Fork at Sayre, Ala.

Location.--Lat 33°42'35", long 86°59'00", in NW¼ sec. 29, T. 15 S., R. 4 W., on right bank at downstream side of highway bridge at Sayre, 1½ miles downstream from Camp Creek.

Drainage area.--885 sq mi.

Records available.--July 1928 to March 1932 (published as "near Warrior"), May 1942 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 258.64 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). July 1928 to March 1932 chain gage at site 9 miles upstream at different datum. May 14, 1942, to Jan. 16, 1943, staff gage, and Jan. 17, 1943, to June 30, 1949, wire-weight gage, at present site and datum.

Average discharge.--12 years (1928-31, 1945-54), 1,517 cfs.

Extremes.--Maximum discharge during year, 27,600 cfs Jan. 17 (gage height, 33.0 ft); minimum, 19 cfs Sept. 14, 15 (gage height, 2.40 ft). 1928-32, 1942-54: Maximum discharge, 55,300 cfs Jan. 7, 1949 (gage height, 47.9 ft); minimum, 17 cfs Sept. 28, Oct. 2, 1931.

Remarks.--Records good except those for periods of no gage-height record, which are poor. Diversion from 70 sq mi above station for industrial water supply for city of Birmingham.

Revisions (water years).--WSP 1142: 1943(M).

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

2.4	19	8.0	2,880
2.5	36	16.0	9,140
2.7	83	26.0	18,700
3.3	274	33.0	27,600
5.0	1,020		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	66	31	60	752	1,340	3,730	2,320	685	374	70	a78	34
2	60	35	*54	662	*1,220	2,880	2,670	559	289	66	a64	34
3	49	34	65	586	1,120	2,320	2,000	662	506	68	a62	34
4	45	34	91	542	1,040	1,880	1,640	*1,250	2,250	102	a54	31
5	43	36	122	498	945	1,580	1,400	1,020	1,520	80	a42	31
6	34	36	127	462	870	1,370	*1,220	775	775	63	a38	31
7	29	43	136	422	798	1,200	1,120	640	550	*63	a75	28
8	29	43	116	378	730	1,070	1,120	550	434	68	105	28
9	29	36	177	347	685	*945	1,100	494	359	76	73	28
10	29	36	616	592	640	870	1,310	446	308	*68	54	26
11	28	38	640	1,780	640	820	1,020	390	256	66	47	28
12	29	33	1,580	1,580	730	730	845	347	238	54	45	26
13	28	38	1,700	1,250	685	831	752	339	249	49	45	24
14	28	40	1,820	1,040	595	3,730	685	518	206	63	43	*22
15	28	38	1,880	1,680	546	3,020	618	775	177	73	43	21
16	28	38	1,250	19,400	640	2,120	685	730	210	78	43	22
17	29	40	895	27,000	1,280	1,520	895	582	263	66	*40	26
18	29	40	662	16,800	1,250	1,220	870	478	260	60	54	31
19	29	40	538	5,380	1,020	1,170	730	426	210	224	83	29
20	29	56	466	3,370	1,070	1,340	618	366	285	116	56	29
21	33	54	418	5,540	1,820	1,200	534	339	289	66	142	96
22	31	58	390	10,200	1,760	995	478	301	200	70	170	224
23	31	58	367	10,300	1,370	870	438	274	148	151	142	133
24	29	68	363	6,500	1,640	820	478	242	145	2340	91	83
25	29	68	335	4,170	2,390	775	730	228	122	a200	68	66
26	33	63	293	3,090	2,060	895	1,020	206	102	a150	56	56
27	45	60	260	2,600	1,640	1,840	775	196	91	a180	56	45
28	*36	58	301	2,530	2,060	5,080	640	439	83	a140	56	36
29	31	63	*662	2,060	-	4,320	730	1,200	78	a100	58	36
30	31	60	970	1,760	-----	3,160	798	*775	73	a110	56	40
31	33	-----	895	1,580	-----	2,320	-----	518	-----	a95	51	-----
Total	1,061	1,373	18,249	136,831	32,584	56,621	30,239	16,770	11,050	3,255	2,090	1,380
Mean	34.2	45.8	589	4,414	1,164	1,826	1,008	541	368	105	67.4	46.0
Cfs/m	0.039	0.052	0.666	4.99	1.32	2.06	1.14	0.611	0.416	0.119	0.076	0.052
In.	0.04	0.06	0.77	5.75	1.37	2.38	1.27	0.70	0.46	0.14	0.09	0.06

Calendar year 1953: Max 18,400 Min 28 Mean 1,238 Cfs/m 1.40 In. 18.99
 Water year 1953-54: Max 27,000 Min 21 Mean 853 Cfs/m 0.964 In. 13.09

Peak discharge (base, 17,000 cfs).--Jan. 17 (2 a.m.) 27,600 cfs (33.0 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage and records for stations upstream.

Fivemile Creek at Ketona, Ala.

Location.--Lat 33°36'05", long 86°45'20", in NW¼ sec. 33, T. 16 S., R. 2 W., on left bank at downstream side of highway bridge at Ketona, 150 ft northwest of State Highway 38, 0.6 mile downstream from Barton Branch, 0.9 mile downstream from Tarrant Spring Branch, and 2 miles northeast of Tarrant City.

Drainage area.--22.6 sq mi.

Records available.--August 1953 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 540.70 ft above mean sea level, datum of 1929.

Extremes.--1953: Maximum discharge during period August to September, 147 cfs Sept. 4 (gage height, 2.46 ft); minimum, 7.0 cfs Sept. 17-19 (gage height, 0.80 ft).

1953-54: Maximum discharge during water year, 964 cfs Jan. 16 (gage height, 5.83 ft); minimum, 6.0 cfs Sept. 28, 29 (gage height, 0.70 ft).

A stage of about 12 ft has been reached on several occasions, from information by local residents.

Remarks.--Records good except those for periods of no gage-height record, which are poor.

Rating tables, Aug. 1, 1953, to Sept. 30, 1954 (gage height, in feet, and discharge, in cubic feet per second) (Shifting-control method used Dec. 3, 6)

Aug. 1, 1953, to Jan. 15, 1954				Jan. 16 to Sept. 30, 1954			
0.8	7.0	2.0	89	0.7	6.0	2.0	106
1.0	14	2.5	153	.9	13	3.0	260
1.5	42			1.2	29	4.0	466
				1.6	62	5.0	726

Discharge, in cubic feet per second, 1953

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1	a13	*7.6	9	10	8.2	17	11	7.0	25	8.2	9.4
2	a13	7.9	10	10	7.9	18	12	7.0	26	7.3	9.4
3	a12	7.3	11	9.4	7.9	19	10	11	27	7.3	9.7
4	a 11	25	12	9.1	7.9	20	10	9.4	28	7.3	8.5
5	a 11	13	13	9.4	7.9	21	9.7	8.5	29	7.3	*8.2
6	a 11	8.6	14	9.7	7.9	22	9.4	8.2	30	7.3	7.9
7	11	8.5	15	10	7.6	23	9.1	7.9	31	7.3	-
8	11	8.2	16	10	7.3	24	8.5	8.8			
Total.....										302.3	269.8
Mean.....										9.75	8.99
Cubic feet per second per square mile.....										0.431	0.398
Runoff in inches.....										0.50	0.44

Peak discharge (base, 950 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Turkey Creek at Morris.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.9	7.9	10	*18	34	57	46	20	15	9.3	8.3	7.2
2	7.9	7.9	10	18	32	49	37	19	17	10	8.3	7.2
3	7.9	7.9	*16	17	30	44	33	22	21	12	8.3	7.2
4	7.9	7.9	*18	17	28	39	31	22	18	10	8.3	6.9
5	7.6	7.9	11	17	*26	36	30	19	15	10	8.0	6.9
6	7.6	7.9	16	15	25	34	28	18	14	9.6	8.0	6.9
7	7.3	7.9	13	14	24	31	27	*18	13	8.9	8.3	6.9
8	7.0	7.9	11	14	23	29	26	17	13	12	9.3	6.9
9	7.9	8.2	83	14	22	28	*24	17	13	12	8.6	6.9
10	7.9	8.2	22	36	22	27	22	17	12	*9.6	8.3	6.6
11	8.2	8.5	24	35	24	26	22	15	12	9.6	8.0	6.6
12	7.9	8.5	79	25	24	*24	21	15	12	9.6	7.7	6.9
13	7.6	8.5	27	22	20	30	20	15	12	9.3	8.0	6.9
14	7.3	8.5	a40	21	19	33	20	15	12	9.3	8.0	6.6
15	7.3	8.5	a25	92	19	26	20	15	11	9.3	8.0	6.6
16	7.0	8.5	a22	527	26	24	26	15	11	9.3	8.0	6.6
17	7.0	8.5	20	124	31	22	22	15	11	9.6	7.7	*6.6
18	7.3	8.5	18	84	22	22	20	15	11	9.3	*8.3	6.6
19	7.9	9.4	17	66	21	24	19	15	11	9.3	8.3	a6.6
20	7.9	11	16	55	40	24	18	14	11	9.3	37	a6.6
21	7.6	11	16	101	32	21	18	14	11	10	11	a9.0
22	7.6	14	18	150	27	20	17	13	9.6	9.6	8.9	a7.0
23	7.6	11	16	87	28	19	18	13	9.6	9.6	8.6	a6.7
24	7.6	10	14	70	59	19	21	13	9.6	12	8.6	a6.5
25	8.2	11	14	59	39	20	28	13	9.6	9.3	8.0	a6.4
26	7.9	11	13	52	36	40	37	13	9.6	9.3	8.0	a6.4
27	9.1	10	13	63	33	86	24	13	9.6	8.6	7.7	a6.3
28	9.1	10	21	50	103	*60	21	44	9.6	8.6	7.7	*6.3
29	*8.5	9.7	34	43	-	49	23	13	9.6	8.6	7.4	6.3
30	8.2	9.7	27	40	-	44	21	16	9.3	8.6	7.4	a6.5
31	8.2	-	22	37	-	43	-	*15	-	8.6	7.2	-
Total	241.9	275.4	706	1,983	869	1,050	740	523	360.5	300.1	283.2	203.6
Mean	7.80	9.18	22.8	64.0	31.0	33.9	24.7	16.9	12.0	9.68	9.14	6.79
Cfsm	0.345	0.406	1.01	2.83	1.37	1.50	1.09	0.748	0.531	0.428	0.404	0.300
In.	0.40	0.45	1.16	3.26	1.43	1.73	1.22	0.86	0.59	0.49	0.47	0.34

Calendar year 1953: Max -

Min -

Mean -

Cfsm -

In. -

Water year 1953-54: Max 527

Min 6.3

Mean 20.6

Cfsm 0.912

In. 12.40

Peak discharge (base, 950 cfs).--Jan. 16 (5 a.m.) 964 cfs (5.83 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of records for Turkey Creek at Morris.

MOBILE RIVER BASIN

Village Creek near Adamsville, Ala.

Location.--Lat 33°36'20", long 87°00'25", in E $\frac{1}{2}$ sec. 36, T. 16 S., R. 5 W., on right bank at downstream side of highway bridge, a quarter of a mile upstream from Canoe Creek, 3.5 miles west of Adamsville, and 8 miles upstream from mouth.

Drainage area.--84.1 sq mi.

Records available.--October 1953 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 340 ft (by barometer).

Extremes.--Maximum discharge during year, 4,410 cfs Jan. 16 (gage height, 11.3 ft, from partly estimated gage-height graph); no flow Sept. 5-12, 14-20.

A stage of about 21 ft has been reached on several occasions, from information by local residents.

Remarks.--Records good except those for period of no gage-height record, which are fair, and those below 10 cfs, which are poor. Considerable regulation by Tennessee Coal, Iron, and Railroad Co. reservoir (usable capacity, 1.7 billion gallons) about 8 miles upstream. Diversion for industrial use in the Birmingham area affects low flow.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Oct. 7 to Nov. 24)

0.5	0	1.8	87
.6	.4	2.2	160
.7	1.5	2.6	250
.8	3.2	3.0	350
1.1	6.1	5.0	960
1.4	15	7.0	1,800
1.4	38	9.0	2,880

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11.0	0.5	1.6	105	*113	182	162	120	*35	6.5	0.2	0.4
2	8.0	.5	1.2	87	101	134	110	100	105	6.1	.1	.2
3	7.2	.5	1.7	69	89	113	100	*182	357	46	.1	.1
4	7.2	.5	*278	56	81	93	81	223	93	32	.1	.1
5	4.9	.5	54	50	74	81	*70	132	61	19	.1	0
6	2.5	.5	168	48	72	74	66	97	45	*16	.1	0
7	.8	.5	100	50	68	65	61	87	38	16	.2	0
8	.5	.5	38	45	63	*56	61	89	37	22	.2	0
9	.3	.5	539	54	56	53	63	65	36	84	.2	0
10	.2	.5	288	243	58	49	64	58	34	29	.2	0
11	.1	.5	110	279	66	45	56	54	43	18	.1	0
12	.1	.5	721	142	73	45	61	49	35	11.0	.1	0
13	.1	.6	236	112	59	130	55	65	34	4.9	.2	*.1
14	.1	.6	444	101	56	191	39	84	27	3	.2	0
15	.1	.6	215	124	50	95	55	60	42	1.3	.5	0
16	.2	.5	128	2,690	62	70	160	53	68	.6	.7	0
17	.3	.5	92	600	122	58	198	43	53	.5	*.5	0
18	.3	.6	73	350	65	54	97	47	43	.4	.5	0
19	.2	.6	64	248	65	77	80	52	40	.4	.4	0
20	.2	1.0	63	193	168	84	74	44	34	.8	78	0
21	.2	.7	65	340	118	56	54	41	28	.8	218	.4
22	.2	1.2	a70	500	77	53	50	38	23	.6	39	.2
23	.2	5.2	a60	350	68	50	44	35	19	.5	22	.2
24	.2	9.6	a54	269	282	48	554	35	18	2.8	18	.1
25	.2	8.4	a50	215	173	48	353	33	12.6	11.0	10.0	.1
26	*.3	6.9	a47	184	124	189	211	34	11.6	8.4	5.5	.1
27	.6	5.5	a45	228	106	355	140	34	11.6	4.9	4.0	.1
28	.5	4.0	a100	186	329	*363	105	206	10	3.0	2.5	.1
29	.5	3.2	*224	142	---	219	196	117	6.5	1.4	1.6	.1
30	.4	*2.3	171	140	-----	171	193	95	5.8	.7	.8	.2
31	.5	-----	126	128	-----	136	-----	43	-----	.4	.5	-----
Total	48.1	58.0	4,627.5	8,326	2,838	3,447	3,623	2,415	1,406.1	352.0	404.6	2.5
Mean	1.55	1.95	149	269	101	111	121	77.9	46.9	11.4	13.1	0.085
Cfsm	0.018	0.023	1.77	3.20	1.20	1.32	1.44	0.926	0.558	0.136	0.156	0.0099
In.	0.02	0.03	2.05	3.68	1.25	1.52	1.60	1.07	0.62	0.16	0.18	0.001

Calendar year 1953: Max - Min - Mean - Cfsm - In. -
Water year 1953-54: Max 2,690 Min 0 Mean 75.5 Cfsm 0.898 In. 12.18

Peak discharge (base, 3,000 cfs).--Jan. 16 (10 a.m.) 4,410 cfs (11.3 ft).

* Discharge measurement or observation of no flow made on this day.

a No gage-height record; discharge estimated on basis of records for Turkey Creek at Morris.

Valley Creek near Oak Grove, Ala.

Location.--Lat 32°26'50", long 87°07'20", in NW¹ sec. 25, T. 18 S., R. 6 W., near center of span on downstream side of highway bridge, 1,000 ft downstream from Raccoon Branch, 1.5 miles east of Oak Grove, and 10.5 miles west of Bessemer.

Drainage area.--145 sq mi.

Records available.--May to July 1936, August 1953 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 320 ft (by barometer). May 16 to July 12, 1936, chain gage at site 500 ft downstream at same datum.

Extremes.--1953: Maximum discharge during period August to September, 470 cfs Aug. 18 (gage height, 4.10 ft); minimum daily, 105 cfs Sept. 13, 14.

1953-54: Maximum discharge during water year, 8,570 cfs Jan. 16 (gage height, 20.7 ft); minimum daily recorded, 94 cfs July 5, 6.

1936, 1953-54: Maximum discharge, that of Jan. 16, 1954; minimum daily, 59 cfs June 22, 25, 28-30, July 6, 1936.

Remarks.--Records fair except those for periods of no gage-height record, which are poor.

Low flows largely consist of municipal sewage and industrial waste.

Cooperation.--Three discharge measurements furnished by Corps of Engineers.

Rating table, Aug. 1, 1953, to Sept. 30, 1954 (gage height, in feet, and discharge, in cubic feet per second)

3.4	71	4.6	950
3.6	155	5.0	1,180
3.9	336	17.0	6,940
4.2	585		

Discharge, in cubic feet per second, 1953

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1	141	141	9	141	127	17	244	123	25	155	155
2	192	146	10	127	132	18	225	123	26	160	141
3	132	146	11	137	118	19	146	160	27	160	166
4	150	*141	12	141	118	20	155	203	28	155	123
5	155	150	13	141	105	21	141	109	29	146	*137
6	166	127	14	146	105	22	137	123	30	132	132
7	150	123	15	141	118	23	132	118	31	*132	-
8	146	127	16	141	127	24	137	127			

Total.....	4,705	3,991
Mean.....	152	133
Cubic feet per second per square mile.....	1.05	0.917
Runoff in inches.....	1.21	1.02

Peak discharge (base, 5,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Note.--Result of discharge measurement July 22, 1953, 224 cfs; July 24, 1953, 189 cfs.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	141	101	118	316	*268	454	366	238	*127	123	146	
2	137	101	137	288	268	382	309	203	223	123	137	
3	132	123	217	268	256	374	275	*395	444	166	166	
4	127	123	565	238	244	316	250	454	171	114	166	
5	118	123	166	250	232	295	*232	302	146	94	146	
6	132	123	470	226	220	288	232	256	127	*94	141	
7	132	123	238	208	197	250	226	232	132	101	171	
8	132	105	166	203	192	*262	214	*244	155	114	146	
9	132	101	1,470	182	203	268	208	208	155	249	150	
10	127	118	756	412	197	268	203	203	155	166	146	
11	114	123	336	598	214	268	176	214	214	141	141	
12	109	123	1,210	332	232	244	187	208	150	132	146	
13	123	123	224	316	208	302	187	214	150	160	155	
14	127	118	1,070	295	197	429	192	275	127	166	176	
15	127	105	576	622	197	268	182	197	137	192	146	
16	127	101	437	6,520	220	256	375	176	150	160	*123	
17	127	123	359	1,420	309	262	262	176	127	166	132	
18	114	127	309	950	208	250	182	182	166	146		
19	109	127	268	644	192	268	155	176	127	146		
20	127	166	244	487	404	275	160	160	118	155		
21	123	146	250	1,100	295	220	155	155	118	150		
22	123	229	295	1,210	238	214	146	141	137	166		
23	118	155	256	871	244	232	176	141	137	171		
24	109	123	226	614	676	232	570	123	123	166		
25	101	160	208	478	429	232	628	137	132	150		
26	*105	a140	187	420	359	420	238	137	118	141		
27	*141	a120	187	560	309	876	214	132	118	160		
28	132	a110	*338	404	716	*868	214	198	114	166		
29	123	a100	504	344	-	513	476	160	123	166		
30	118	*102	478	316	-----	445	344	203	118	160		
31	114	-----	397	295	-----	382	-----	127	-----	155	116	
											110	-----
Total	3,621	3,762	13,662	21,437	7,924	10,633	7,734	6,367	4,539	4,659	4,440	3,618
Mean	123	125	441	692	283	343	256	205	151	150	143	121
Cfs/m	0.846	0.862	3.04	4.77	1.95	2.37	1.78	1.41	1.04	1.03	0.966	0.834
In.	0.98	0.96	3.50	5.50	2.03	2.73	1.98	1.63	1.16	1.19	1.14	0.93
Calendar year 1953: Max	-	-	-	Min	-	Mean	-	Cfs/m	-	In.	-	-
Water year 1953-54: Max	6,520	-	-	Min	94	Mean	254	Cfs/m	1.75	In.	23.73	-

Peak discharge (base, 5,000 cfs).--July 16 (11 a.m.) 8,570 cfs (20.7 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage, weather records, and records for stations on nearby streams.

Yellow Creek near Tuscaloosa, Ala.

Location.--Lat 33°18'20", long 87°28'40", in NE $\frac{1}{4}$ sec. 16, T. 20 S., R. 9 W., near left bank on upstream side of pier of highway bridge, 8 miles upstream from mouth and 8 miles northeast of Tuscaloosa.

Drainage area.--24 sq mi, approximately.

Records available.--January 1951 to May 1954 (discontinued).

Gage.--Water-stage recorder. Datum of gage is 246.42 ft above mean sea level (levels by Tuscaloosa City Engineering Department).

Extremes.--Maximum discharge during period October 1953 to May 1954, 1,320 cfs Jan. 15 (gage height, 7.17 ft), from rating curve extended above 350 cfs; minimum, 5.8 cfs Oct. 15 (gage height, 0.69 ft).
1951-54: Maximum discharge, 2,500 cfs Mar. 29, 1951 (gage height, 9.35 ft), from rating curve extended above 350 cfs; minimum daily, 4.5 cfs July 28, 29, 1952.

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

Rating tables, Oct. 1, 1953, to May 31, 1954 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Mar. 8				Mar. 9 to May 27	
0.6	4.4	2.0	90	0.7	11
.8	8.7	3.0	210	1.0	21
1.0	15	4.0	375	1.4	42
1.3	30	5.0	590	2.0	90
1.6	53				

Note.--Same as preceding table above 2.0 ft.

Discharge, in cubic feet per second, October 1953 to May 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.9	9.7	11	42	37	44	31	24				
2	7.3	9.7	11	42	36	37	26	21				
3	7.3	9.5	63	37	34	44	24	47				
4	6.6	9.0	58	33	31	34	22	43				
5	6.4	8.7	20	34	30		21	31				
6	*7.1	8.7	66	30	29	28	20	24				
7	6.4	9.5	25	26	26	26	20	22				
8	6.9	9.5	16	24	25	26	25	20				
9	7.6	9.5	108	23	25	24	22	18				
10	6.9	9.5	47	115	24	23	20	17				
11	6.4	9.7	56	91	25	22	23	17				
12	6.6	*10	156	60	23	22	28	17				
13	6.6	9.7	53	66	22	26	21	33				
14	6.4	9.7	54	64	22	28	19	32				
15	5.8	10	39	195	22	22	19	22				
16	6.4	10	30	543	26	21	190	17				
17	6.6	9.5	*25	143	26	21	100	16				
18	6.2	10	23	94	19	21	48	16				
19	6.4	10	22	71	19	31	32	15				
20	6.4	26	21	*58	48	26	28	14				
21	6.9	13	28	106	30	22	*24	13				
22	7.3	35	27	146	23	20	22	12				
23	7.3	16	22	97	23	20	36	12				
24	6.9	11	20	76	51	20	32	12				
25	6.6	12	20	56	*35	*21	26	11				
26	7.1	10	18	50	30	36	26	11				
27	23	10	18	86	28	79	21	*11				
28	10	9.7	53	67	63		22	a 11				
29	9.5	10	72	57	-	43	44	a 11				
30	9.7	11	53	51	-----	36	31	a 11				
31	9.7	-----	41	43	-----	32	a 11	a 11				
Total	237.2	345.6	1,278	2,626	832	946	1,023	592				
Mean	7.65	11.5	41.2	84.7	29.7	30.5	34.1	19.1				
Cfsm	0.319	0.479	1.72	3.53	1.24	1.27	1.42	0.796				
In.	0.37	0.54	1.98	4.07	1.29	1.47	1.59	0.92				

Calendar year 1953: Max 643 Min 5.0 Mean 36.1 Cfsm 1.50 In. 20.41
Water year 1953-54: Max - Min - Mean - Cfsm - In. -

Peak discharge (base, 450 cfs).--Jan. 15 (12 p.m.) 1,320 cfs (7.17 ft).

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of weather records and records for nearby streams.

Hurricane Creek near Holt, Ala.

Location.--Lat 33°12'45", long 87°26'55", in S½ sec. 14, T. 21 S., R. 9 W., on left bank on downstream side of pier of bridge on State Highway 116, half a mile downstream from Cottondale Creek, 2½ miles southeast of Holt, and 6 miles upstream from mouth.

Drainage area.--109 sq mi.

Records available.--July 1952 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 173.70 ft above mean sea level, datum of 1929.

Extremes.--Maximum discharge during year, 6,200 cfs Jan. 16 (gage height, 10.5 ft), from rating curve extended above 2,000 cfs; minimum, 1.7 cfs Sept. 5 (gage height, 1.26 ft). 1952-54: Maximum discharge, that of Jan. 16, 1954; minimum, that of Sept. 5, 1954.

Remarks.--Records good above 50 cfs, fair between 20 and 50 cfs, and poor below 20 cfs.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1-15, Oct. 27 to Dec. 3, Aug. 9 to Sept. 30)

Oct. 1 to Jan. 16					Jan. 17 to Sept. 30				
1.4	5.6	3.0	237		1.0	1.5	1.6	13	
1.5	8.1	4.0	700		1.1	2.0	1.8	25	
1.7	16	5.0	1,350		1.2	2.9	2.2	63	
1.9	29	7.0	2,910		1.3	4.4	2.6	127	
2.2	59	8.0	3,810		1.4	6.6			
2.6	127								

Note.--Same as preceding table above 2.6 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	8.1	11	182	141	384	173	125	19	6.4	5.5	2.7
2	13	8.4	11	155	136	259	143	98	*30	11	5.3	2.0
3	13	8.4	56	127	134	218	127	180	28	34	5.3	1.9
4	14	8.4	245	103	121	163	115	224	21	24	5.9	1.8
5	12	8.4	76	98	115	145	104	143	16	14	5.9	1.6
6	10	7.8	256	87	102	134	97	109	14	12	5.5	1.8
7	10	8.4	125	78	88	121	92	92	13	10	5.1	2.2
8	9.8	9.1	73	73	86	111	97	86	13	31	5.5	3.5
9	9.8	9.5	499	70	87	109	95	71	12	111	4.8	6.8
10	9.5	9.5	352	286	87	100	80	65	11	27	4.1	3.6
11	9.5	9.5	218	412	90	95	78	60	11	16	3.5	2.5
12	8.8	*9.5	1,280	224	73	90	82	61	11	12	3.2	2.2
13	8.1	10	450	171	69	214	71	76	11	11	2.9	*2.1
14	8.4	10	570	158	69	251	65	82	10	9.6	6.6	2.0
15	8.4	9.8	326	386	70	155	62	69	9.3	8.7	5.7	2.0
16	8.8	10	*218	3,570	82	123	487	56	9.8	17	5.5	2.2
17	8.1	10	158	840	121	115	340	48	13	47	4.4	2.1
18	8.1	10	127	500	92	111	190	46	12	22	3.8	2.3
19	8.1	10	109	358	76	132	143	45	13	13	19	2.4
20	8.4	37	94	285	148	136	109	38	11	11	6.7	2.4
21	8.4	23	103	*542	158	107	*88	35	*9.0	9.3	5.7	2.9
22	8.8	26	111	590	117	95	81	31	8.4	17	4.2	5.1
23	8.8	21	109	436	107	93	78	30	9.6	86	3.6	4.2
24	8.4	15	91	330	*273	92	90	27	8.7	32	3.5	4.4
25	8.4	17	79	259	221	90	150	25	9.6	18	3.0	3.8
26	8.8	14	76	211	173	136	166	23	9.3	*14	2.8	3.5
27	23	12	72	289	141	613	98	24	8.4	11	2.5	3.0
28	17	11	115	251	519	*675	93	*26	7.8	9.6	2.6	2.8
29	10	10	293	205	-	384	207	25	6.6	8.1	2.6	2.7
30	8.1	10	330	205	-	277	205	27	5.9	6.9	2.7	2.9
31	7.4	-	234	168	-	215	-	26	-	6.4	*2.7	-
Total	314.9	370.8	6,867	11,627	3,696	5,943	3,986	2,073	371.4	666.0	152.1	85.6
Mean	10.2	12.4	222	375	132	192	133	65.9	12.4	21.5	4.91	2.95
Cfs/m	0.094	0.114	2.04	3.44	1.21	1.76	1.22	0.614	0.114	0.197	0.045	0.026
In.	0.11	0.13	2.34	3.97	1.26	2.03	1.36	0.71	0.13	0.23	0.05	0.03

Calendar year 1953: Max 2,820 Min 3.0 Mean 155 Cfs/m 1.42 In. 19.37
Water year 1953-54: Max 3,570 Min 1.8 Mean 99.0 Cfs/m 0.908 In. 12.35

Peak discharge (base, 3,500 cfs).--Jan. 16 (6 a.m.) 6,200 cfs (10.5 ft).

* Discharge measurement made on this day.

MOBILE RIVER BASIN

North River near Samantha, Ala.

Location.--Lat 33°28'45", long 87°35'50", in SW 1/4 sec. 16, T. 18 S., R. 10 W., on left bank about 100 ft downstream from highway bridge, half a mile east of Crump's store, 1 1/2 miles upstream from Cripple Creek, and 4 miles north of Samantha.

Drainage area.--220 sq mi, approximately.

Records available.--December 1938 to September 1954 (discontinued).

Gage.--Water-stage recorder. Datum of gage is 232.39 ft above mean sea level, datum of 1929.

Average discharge.--15 years (1939-54), 340 cfs.

Extremes.--Maximum discharge during year, 8,160 cfs Jan. 16 (gage height, 17.06 ft); minimum daily, 0.1 cfs Sept. 5-8, 13-15.

1938-54: Maximum discharge, 18,000 cfs Mar. 29, 1951 (gage height, 30.7 ft); minimum daily, that of Sept. 5-8, 13-15, 1954.

Floods in July 1916 and February 1936 reached a stage of about 31 ft, from information by local residents.

Remarks.--Records good above 10 cfs and fair below except those for periods of no gage-height record, which are poor.

Rating tables, water 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Jan. 16

Jan. 17 to Sept. 30

1.1	2.4	2.0	106	1.0	0.9	1.6	25
1.2	5.0	2.3	214	1.1	2.1	1.8	52
1.3	8.5	2.8	578	1.2	3.9	2.0	97
1.4	13	4.0	1,330	1.3	6.4	2.3	203
1.5	20	8.0	3,280	1.4	10	2.7	440
1.7	43	16.0	7,460	1.5	16	4.0	1,330

Note.-- Same as preceding table above 4.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.4	4.5	9.0	180	227	489	622	312	36	3.1	0.6	0.4
2	6.3	5.4	9.70	150	208	384	492	295	30	2.9	.4	.3
3	*7.1	5.4	19	130	195	391	591	816	29	3.1	.3	.2
4	9.5	5.0	70	104	170	332	344	1,500	25	3.1	.3	.2
5	7.1	5.0	50	88	158	295	306	567	21	2.9	.3	.1
6	6.0	5.0	62	81	141	268	256	594	19	2.4	5.4	.1
7	5.4	5.0	48	77	127	241	222	426	17	1.8	6.8	.1
8	5.4	5.7	32	70	118	213	256	325	16	1.3	5.4	.1
9	4.7	5.7	204	69	112	191	251	251	15	1.0	3.7	.2
10	4.5	6.0	258	90	106	178	203	208	14	1.0	2.0	.2
11	4.5	*6.0	150	168	106	168	208	170	12	1.0	1.0	.3
12	4.5	6.0	469	154	106	155	419	152	10	1.5	.5	.2
13	4.5	6.4	243	124	92	166	295	155	9.8	3.5	.3	.1
14	4.5	6.8	189	115	90	162	241	191	8.7	5.6	.3	*.1
15	4.2	6.8	*180	498	92	127	203	152	7.5	3.9	1.0	.1
16	4.0	7.1	143	7,340	146	112	2,580	121	7.2	17	3.5	.2
17	3.7	9.7	101	5,680	351	106	2,830	100	19	6.4	58	.2
18	3.7	7.8	75	1,180	237	105	1,270	90	27	4.0	39	.2
19	4.0	7.4	60	*741	199	217	797	82	26	2.5	16	.2
20	4.0	9.5	57	559	370	531	*524	72	15	1.8	19	*.2
21	4.0	10	70	1,830	559	357	398	66	11	1.5	14	.5
22	3.7	18	88	4,580	440	268	344	58	*9.1	28	6.4	1.5
23	3.7	21	91	2,900	344	237	1,070	52	13	7.5	5.6	1.5
24	3.7	20	73	1,210	*608	49	1,980	49	*9.1	6.4	5.6	.9
25	4.0	14	60	797	531	*191	1,040	44	6.4	4.9	4.2	.6
26	4.5	13	57	601	426	251	692	*42	5.6	3.9	3.1	.4
27	9.9	11	52	559	332	810	475	40	4.6	*2.6	2.2	.3
28	5.8	10	165	461	412	1,670	357	40	4.4	2.2	1.6	.3
29	5.7	9.5	578	357	-	930	384	51	3.9	*1.8	1.2	.3
30	4.7	9.0	368	312	-----	720	524	52	3.7	1.4	.9	.5
31	4.5	-----	238	273	-----	566	-----	43	-----	1.0	*.6	-----
Total	158.9	261.7	4,266.0	31,549	7,003	11,038	19,964	7,416	435.0	131.0	209.2	10.3
Mean	5.13	8.72	138	1,018	250	356	665	239	14.5	4.23	6.75	0.34
Cfsm	0.023	0.040	0.627	4.63	1.14	1.62	3.02	1.09	0.066	0.019	0.031	0.0015
In.	0.03	0.04	0.72	5.33	1.18	1.87	3.37	1.25	0.07	0.02	0.04	0.002
Calendar year 1953: Max	5,780			Min	2.9	Mean	372	Cfsm	1.69	In.	22.95	
Water year 1953-54: Max	7,340			Min	0.1	Mean	226	Cfsm	1.03	In.	13.92	

Peak discharge (base, 4,800 cfs).--Jan. 16 (2 p.m.) 8,160 cfs (17.06 ft); Jan. 22 (1 p.m.) 5,280 cfs (12.02 ft).

* Discharge measurement made on this day.

Note.--No gage-height record July 1-13, 18-21, July 27 to Aug. 5, Aug. 10-16, Aug. 26 to Sept. 30; discharge estimated on basis of 5 discharge measurements, weather records, and records for station near Tuscaloosa.

North River near Tuscaloosa, Ala.

Location.--Lat 33°21'10", long 87°33'25", in NW¼ sec. 35, T. 19 S., R. 10 W., on down-stream side of pier near center of bridge on State Highway 69, 1,000 ft upstream from Tierce Creek and 10 miles north of Tuscaloosa.

Drainage area.--373 sq mi.

Records available.--November 1951 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 160 ft (by barometer).

Extremes.--Maximum discharge during year, 9,750 cfs Jan. 16 (gage height, 15.30 ft); minimum, 9.0 cfs Sept. 7, 8, 13, 14 (gage height, 0.40 ft).
1951-54: Maximum discharge, 9,850 cfs Dec. 21, 1951 (gage height, 15.5 ft); minimum, 8.4 cfs July 29, 1952 (gage height, 0.42 ft).

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

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Apr. 16				Apr. 17 to Sept. 30			
0.6	26	3.0	940	0.4	9.0	1.5	193
1.7	38	5.0	2,600	.6	22	2.0	375
1.0	86	8.0	5,440	.8	42	3.0	940
1.4	181	14.0	9,100	1.1	92		
2.0	400						

Note.--Same as preceding table above 3.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	42	57	364	422	652	760	455	84	18	13	*12
2	37	42	55	298	396	550	664	347	75	17	12	11
3	39	42	87	259	368	540	555	630	66	21	11	10
4	37	42	219	225	339	510	486	1,790	63	22	11	10
5	36	42	178	203	308	436	445	1,080	56	21	11	10
6	38	39	212	181	284	409	400	698	49	20	13	10
7	36	41	200	170	266	373	355	510	46	18	14	9.0
8	33	41	124	156	245	347	347	401	43	17	15	9.0
9	*31	42	332	148	235	323	422	319	41	16	16	9.6
10	31	42	a570	342	228	308	327	274	38	16	14	10
11	32	*42	319	540	225	290	304	240	36	16	13	11
12	30	44	a840	391	225	276	510	218	35	18	13	10
13	30	45	a540	308	203	372	468	212	31	17	11	*9.0
14	30	45	a400	270	193	472	368	296	30	16	11	9.0
15	30	46	351	366	196	319	319	257	27	14	16	9.6
16	30	48	*287	7,700	209	266	1,930	205	29	14	14	17
17	28	49	225	8,800	454	245	4,100	170	39	40	16	10
18	30	51	173	1,920	382	238	1,880	150	120	41	41	11
19	30	54	146	1,080	308	308	1,120	137	58	26	56	13
20	30	65	140	*820	442	646	*704	123	49	21	34	13
21	31	75	170	1,510	748	530	535	111	*39	18	36	16
22	31	98	193	4,780	580	422	440	105	35	18	35	21
23	30	113	184	4,200	468	364	722	96	30	56	27	21
24	30	82	159	1,680	760	339	2,420	82	33	40	19	17
25	28	79	138	1,080	*742	323	1,420	84	34	27	18	15
26	31	70	128	820	595	*468	877	82	26	*23	16	14
27	56	63	124	1,040	490	890	595	*79	22	21	16	13
28	72	58	241	910	560	2,280	470	*82	22	21	16	13
29	52	57	975	630	--	1,380	500	88	19	18	14	12
30	45	57	730	520	-----	975	595	148	18	16	14	13
31	41	-----	481	468	-----	760	-----	109	-----	16	14	-----
Total	1,099	1,656	8,978	42,159	10,871	16,611	25,038	9,588	1,293	683	580	368.2
Mean	35.5	55.2	290	1,360	388	536	835	309	43.1	22.0	18.7	12.3
Cfsm	0.095	0.148	0.777	3.65	1.04	1.44	2.24	0.828	0.116	0.059	0.050	0.033
In.	0.11	0.17	0.90	4.20	1.08	1.66	2.50	0.96	0.13	0.07	0.06	0.04

Calendar year 1953: Max 7,880 Min 21 Mean 567 Cfsm 1.52 In. 20.63

Water year 1953-54: Max 8,800 Min 9.0 Mean 326 Cfsm 0.874 In. 11.88

Peak discharge (base, 6,200 cfs).--Jan. 16 (11 p.m.) 9,750 cfs (15.30 ft).

* Discharge measurement made on this day.

A no gage-height record; discharge estimated on basis of records for station at Samantha.

Black Warrior River at Tuscaloosa, Ala.

Location.--Lat 33°12'50", long 87°34'25", in SW¹/₄ sec. 15, T. 21 S., R. 10 W., near right bank on downstream side of pier of bridge on U. S. Highway 82, in Tuscaloosa, a quarter of a mile upstream from Gulf, Mobile and Ohio Railroad bridge and three-quarters of a mile upstream from Tuscaloosa lock and dam.

Drainage area.--4,830 sq mi, approximately.

Records available.--January 1889 to December 1894 (gage heights only), January 1895 to December 1902, January 1903 to December 1905 (gage heights only), August 1928 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 83.35 ft above mean sea level, datum of 1929, supplementary adjustment of 1944. Prior to Aug. 29, 1939, staff gage at site half a mile upstream at same datum. Aug. 29, 1939, to Mar. 19, 1951, water-stage recorder at site a quarter of a mile downstream at same datum. Auxiliary water-stage recorder 500 ft below Tuscaloosa lock and dam at datum 1.08 ft lower.

Average discharge.--34 years (1894-1902, 1928-54), 7,768 cfs.

Extremes.--Maximum discharge during year, 127,000 cfs Jan. 16; maximum gage height, 57.1 ft Jan. 17; minimum daily discharge, 37 cfs Oct. 23.
1889-1905, 1928-54: Maximum discharge, 223,000 cfs Mar. 29, 1951; maximum gage height, 67.7 ft Apr. 18, 1900; minimum daily discharge, that of Oct. 23, 1953.
Maximum stage known, that of Apr. 18, 1900.

Remarks.--Records good above 2,000 cfs and poor below. Some regulation at low flow by lock below gage and occasional regulation by reservoir at lock 17 (usable capacity, 112,000 acre-ft). Diversion through lock valves included in figures of discharge.

Revisions (water years).--WSP 662: Drainage area. WSP 1002: 1940-43.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	286	101	295	4,170	6,060	17,600	11,500	4,730	1,320	221	560	153
2	278	101	261	3,970	5,930	12,200	12,800	3,040	1,270	111	660	87
3	202	56	576	3,140	4,970	10,300	10,300	4,300	1,370	170	780	128
4	201	90	3,180	2,610	4,920	8,230	7,950	10,300	6,950	101	896	54
5	212	70	1,630	2,560	3,920	7,120	6,960	9,690	5,140	109	923	54
6	258	88	1,330	2,470	3,670	6,110	5,700	5,650	2,220	229	971	71
7	170	71	1,520	2,230	3,640	4,990	4,540	4,320	1,460	212	1,150	71
8	*187	74	1,380	1,890	3,460	5,910	5,350	2,580	1,170	248	1,000	213
9	187	84	4,360	1,400	2,580	4,660	5,820	1,770	1,170	427	564	220
10	161	94	10,900	3,800	2,510	3,590	5,550	2,520	1,100	265	488	161
11	87	77	4,590	9,090	3,250	3,680	4,920	2,230	829	265	282	169
12	87	91	19,800	7,120	3,480	3,630	4,660	1,670	817	324	295	126
13	87	101	12,500	5,210	3,210	4,680	4,590	3,230	701	293	248	213
14	90	50	9,980	4,050	3,140	12,300	3,630	7,920	600	293	119	111
15	91	107	9,090	7,460	2,230	9,720	3,390	2,320	600	*279	71	124
16	71	60	6,110	114,000	2,430	6,010	7,880	3,910	708	252	119	94
17	78	71	3,880	107,000	6,490	5,550	21,500	2,940	1,120	580	194	168
18	139	88	3,590	71,600	6,580	3,720	15,400	2,470	1,960	606	100	74
19	71	90	2,580	32,500	3,790	4,920	8,800	2,370	1,550	380	186	144
20	105	1,210	1,570	15,700	5,910	7,670	6,740	2,300	859	*2,000	263	244
21	54	1,010	2,830	*24,000	10,900	7,950	4,680	1,870	679	585	186	142
22	71	617	1,900	56,000	8,300	5,260	3,970	1,250	679	452	169	177
23	37	582	2,760	71,400	6,850	4,050	3,280	1,270	638	452	235	214
24	54	484	2,170	53,000	8,800	3,780	8,520	1,000	520	395	212	131
25	71	324	1,870	27,400	10,900	3,880	8,520	957	480	324	178	179
26	54	256	1,380	16,800	9,090	5,910	7,670	923	409	*700	204	73
27	542	285	1,300	14,200	7,070	11,600	5,380	940	409	824	186	169
28	882	227	2,490	12,800	12,000	28,200	4,760	923	364	453	201	118
29	524	248	7,670	9,980	-	20,500	4,360	2,280	253	395	207	127
30	344	248	7,400	8,800	-----	14,200	5,600	3,120	218	490	177	152
31	178	-----	6,370	7,400	-----	10,900	-----	1,880	-----	528	196	-----
Total	5,859	7,015	137,062	703,750	156,580	258,620	214,720	96,613	37,613	12,943	12,020	4,161
Mean	189	234	4,421	22,700	5,591	8,343	7,157	3,117	1,254	418	388	139
Cfsm	0.039	0.048	0.915	4.70	1.16	1.73	1.48	0.645	0.260	0.087	0.080	0.029
In.	0.05	0.05	1.06	5.42	1.21	1.99	1.65	0.74	0.29	0.10	0.09	0.03
Calendar year 1953: Max			86,600	Min 37		Mean 7,010	Cfsm 1.45	In. 19.71				
Water year 1953-54: Max			114,000	Min 37		Mean 4,512	Cfsm 0.934	In. 12.68				

Peak discharge (base, 85,000 cfs)--Jan. 16 (8 p.m.) 127,000 cfs (56.7 ft).

* Discharge measurement made on this day.

Black Warrior River near Eutaw, Ala.

Location.--Lat 32°49'05", long 87°49'00", in SE $\frac{1}{4}$ sec. 6, T. 21 N., R. 3 E., on downstream side of right main channel pier of bridge on State Highway 41 between Eutaw and Wedgworth, $1\frac{1}{4}$ miles downstream from Big Creek and 4 miles southeast of Eutaw.

Drainage area.--5,820 sq mi, approximately.

Records available.--May 1932 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 53.11 ft above mean sea level, adjustment of 1912. Auxiliary staff gages read twice daily at lock 7, 3 miles downstream from base gage.

Average discharge.--22 years, 8,961 cfs.

Extremes.--Maximum discharge during year, 55,400 cfs Jan. 20 (gage height, 47.2 ft); minimum daily, 254 cfs Oct. 14.
1932-54: Maximum discharge, 183,000 cfs Apr. 1, 1951; maximum gage height, 59.1 ft Apr. 1, 1951; minimum discharge, 177 cfs Oct. 9, 1935 (gage height, 18.44 ft); minimum daily, 203 cfs Oct. 9, 1935.

Remarks.--Records good above 20,000 cfs, fair between 1,000 and 20,000 cfs, and poor below 1,000 cfs. Occasional regulation by reservoir at lock 17 (usable capacity, 112,000 acre-ft).

Cooperation.--Gage-height record and 11 discharge measurements furnished by Corps of Engineers.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	443	410	428	6,910	9,630	13,800	12,800	6,670	2,630	464	850	316
2	419	375	431	5,350	8,380	15,300	12,400	5,710	2,030	458	935	310
3	408	352	461	4,750	7,630	13,300	12,200	4,640	*1,850	484	1,060	310
4	378	344	1,150	3,830	6,670	11,500	10,800	6,910	2,460	490	1,150	304
5	358	340	2,520	3,370	6,430	9,880	9,130	10,600	6,670	530	1,150	300
6	348	338	2,300	3,260	5,470	8,880	7,880	9,880	4,990	506	1,240	296
7	346	338	2,200	3,260	5,110	7,390	6,430	7,150	3,140	490	1,220	294
8	328	330	1,830	3,030	4,990	6,670	5,830	5,350	2,090	520	1,310	286
9	312	330	2,070	2,610	4,640	6,910	6,430	3,830	1,680	560	1,180	285
10	308	328	7,490	2,480	4,180	5,950	6,430	3,140	1,550	633	917	278
11	294	328	9,260	6,070	4,180	5,350	6,190	3,480	1,370	675	775	284
12	274	340	7,810	8,630	4,520	4,990	5,830	3,140	1,180	633	645	285
13	260	344	16,900	7,390	84,640	4,990	*5,470	3,280	1,110	555	510	286
14	254	340	15,300	5,710	84,640	7,390	5,110	5,470	1,020	627	422	297
15	258	344	13,200	4,870	84,640	11,900	4,520	6,190	899	663	360	*292
16	274	344	11,400	19,000	84,290	10,100	5,950	4,400	842	520	356	290
17	288	344	7,630	40,800	84,870	7,390	12,800	4,520	926	669	348	286
18	304	344	5,470	47,000	86,910	6,070	18,000	3,940	1,340	826	334	310
19	320	348	4,520	*53,100	86,910	5,230	15,400	3,480	2,130	858	365	308
20	*328	375	3,600	*55,100	86,430	6,430	10,900	3,370	1,610	1,080	340	304
21	332	675	3,140	52,000	88,380	8,630	8,380	3,140	1,020	1,550	306	340
22	322	789	*3,600	46,100	810,400	8,130	6,430	2,680	818	1,070	330	360
23	320	675	3,480	47,300	9,880	6,190	5,350	2,160	734	1,000	328	375
24	316	610	3,830	50,000	*9,130	4,990	5,590	1,970	701	935	324	372
25	314	560	3,370	52,700	11,400	4,640	8,880	1,680	615	850	334	380
26	316	506	2,880	50,100	12,200	5,230	9,380	1,610	555	810	334	370
27	334	470	2,460	42,000	10,900	8,380	8,130	1,550	490	*944	332	385
28	398	443	2,550	33,300	9,880	18,200	6,670	1,550	437	1,040	332	385
29	560	431	4,750	25,300	-	28,300	5,830	1,570	425	926	330	410
30	510	428	8,130	17,900	-----	25,500	6,190	3,260	*392	850	326	405
31	458	-----	8,630	11,900	-----	18,200	-----	3,370	-----	842	320	-----
Total	10,680	12,521	162,790	715,120	197,330	305,810	251,330	129,670	47,704	23,038	19,043	9,703
Mean	345	417	5,251	23,070	7,048	9,865	8,378	4,193	1,590	743	614	323
Cfs/m	0.069	0.072	0.902	3.96	1.21	1.70	1.44	0.719	0.273	0.128	0.105	0.056
In.	0.07	0.08	1.04	4.57	1.26	1.85	1.61	0.83	0.30	0.15	0.12	0.06
Calendar year 1953: Max	54,400				Min 254		Mean 8,082	Cfs/m 1.39	In. 18.87			
Water year 1953-54: Max	55,100				Min 254		Mean 5,164	Cfs/m 0.887	In. 12.04			

* Discharge measurement made on this day.
g Computed from twice-daily auxiliary-gage readings.

MOBILE RIVER BASIN

Tombigbee River near Coatopa, Ala.

Location.--Lat 32°26', long 88°02', in sec. 19, T. 17 N., R. 1 E., on left bank at downstream side of Moscow Memorial Bridge on U. S. Highway 80, 2 miles upstream from Sucarnoochee River, 5 miles southeast of Coatopa, 10 miles upstream from lock 3, and 13 miles southwest of Demopolis.

Drainage area.--15,500 sq mi, approximately.

Records available.--August 1928 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 29.30 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark). Prior to Dec. 18, 1934, chain gage, and Dec. 18, 1934, to Oct. 31, 1939, wire-weight gage, at same site and datum. Auxiliary staff gage read twice daily, 10 miles downstream from base gage at lock 3.

Average discharge.--26 years, 22,000 cfs.

Extremes.--Maximum discharge during year, 76,200 cfs Jan. 27; maximum gage height, 36.7 ft Jan. 28; minimum daily discharge, 50 cfs Aug. 1-6 (results of closure of and storage above new lock and dam 4, at Demopolis, during construction).
1928-54: Maximum discharge, 217,000 cfs Apr. 6, 1951 (gage height, 52.4 ft); minimum daily, that of Aug. 1-6, 1954; minimum gage height, 1.64 ft Sept. 10, 1943, result of unusual lock manipulation (discharge not determined).

Remarks.--Records good above 10,000 cfs, fair between 2,000 and 10,000 cfs, and poor below 2,000 cfs.

Cooperation.--Gage-height record and 14 discharge measurements furnished by Corps of Engineers.

Revisions (water years).--WSP 782: 1934. WSP 952: 1941.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,860	1,880	2,070	13,900	48,700	26,800	38,500	12,700	5,000	1,370	50	710
2	1,840	1,710	2,070	11,900	41,100	27,900	30,800	12,800	4,630	*1,330	50	*806
3	1,770	1,690	2,280	10,600	30,200	27,600	26,400	12,100	4,270	1,330	*50	614
4	1,710	1,630	4,270	9,500	20,900	24,700	24,400	13,400	4,030	1,370	50	446
5	1,650	1,570	6,130	8,200	17,900	21,600	20,700	25,500	5,360	al,500	50	374
6	1,630	1,550	12,200	7,420	15,400	19,000	17,500	32,800	7,680	al,500	50	950
7	1,630	1,550	11,700	6,900	13,500	17,100	14,900	33,300	5,780	al,600	65	1,310
8	1,610	1,570	8,980	6,510	12,700	14,500	12,900	31,800	4,390	a2,100	87	*950
9	1,550	1,530	10,000	6,000	11,700	13,400	12,300	30,900	3,910	a2,200	57	830
10	1,510	1,490	16,000	5,500	10,600	12,900	13,100	28,700	3,440	al,900	65	374
11	1,450	1,470	18,600	6,900	9,770	*11,700	13,400	23,500	3,210	al,600	153	1,210
12	1,470	*1,330	23,900	11,700	9,500	10,600	15,000	17,400	*2,980	al,800	245	1,190
13	1,490	1,550	29,500	12,500	9,500	10,000	15,600	13,500	2,740	al,900	1,380	332
14	1,450	1,590	30,200	11,400	9,240	11,700	*16,600	11,700	2,580	al,800	1,720	494
15	1,430	1,610	*25,100	10,000	9,240	14,000	17,600	12,400	2,430	al,700	1,360	*614
16	1,370	1,630	19,600	15,900	8,720	15,800	21,100	11,100	2,360	al,600	1,500	614
17	1,330	1,670	15,300	42,200	8,200	13,100	38,600	9,770	2,450	al,800	1,020	542
18	1,290	1,710	11,700	57,600	9,500	11,400	50,600	9,240	2,540	al,700	974	830
19	1,250	1,750	9,240	63,300	11,700	10,600	54,900	8,200	2,740	al,800	1,550	614
20	*1,230	1,680	8,200	*68,600	12,400	11,700	52,200	7,420	3,210	*a2,000	1,170	758
21	1,150	1,920	6,900	67,500	14,600	13,200	46,900	*6,900	2,870	2,130	1,020	374
22	1,130	2,760	7,940	68,200	18,600	15,400	41,200	6,260	2,500	2,260	1,410	*1,330
23	1,150	2,760	9,240	71,300	24,700	14,200	32,700	5,500	2,500	1,410	1,050	1,140
24	1,250	2,580	8,460	72,700	28,400	12,200	25,400	4,880	2,430	e100	1,260	806
25	1,250	2,430	7,160	74,300	31,400	11,400	21,200	4,630	2,260	e400	1,450	854
26	1,250	2,410	8,980	75,300	32,700	11,100	21,200	4,270	2,070	1,720	1,120	1,120
27	1,350	2,260	8,200	75,900	31,500	17,500	19,900	4,030	1,940	1,530	1,290	758
28	1,330	2,220	5,630	74,500	28,200	39,000	16,600	3,910	1,690	298	1,120	1,240
29	1,490	2,150	8,720	71,200	-	44,600	14,600	3,790	1,170	142	590	974
30	1,900	2,130	13,800	65,100	-----	46,800	13,500	4,030	1,390	87	446	830
31	2,030	-----	15,200	56,800	-----	44,400	-----	5,380	-----	57	1,240	-----
Total	45,800	56,180	367,270	1,158,330	530,570	595,700	760,900	411,610	96,670	43,834	23,842	23,988
Mean	1,477	1,673	11,850	37,400	18,950	19,220	25,360	13,280	3,222	1,414	763	800
Cfsm	0.095	0.121	0.765	2.41	1.22	1.24	1.64	0.857	0.208	0.091	0.049	0.052
In.	0.11	0.13	0.88	2.78	1.27	1.43	1.83	0.99	0.23	0.11	0.06	0.06
Calendar year 1953: Max			101,000	Min	1,130	Mean	20,990	Cfsm	1.35	In.	18.39	
Water year 1953-54: Max			75,900	Min	50	Mean	11,280	Cfsm	0.728	In.	9.88	

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of gage-height records for auxiliary gage at lock 3, and lower gage at lock 4.

e Stage-discharge relation indefinite; discharge estimated on basis of records of conditions at locks 3 and 4.

Sucarnoochee River at Livingston, Ala.

Location.--Lat 32°34', long 88°12', in SE $\frac{1}{4}$ sec. 33, T. 19 N., R. 2 W., on right bank at downstream side of pier of main span of bridge on U. S. Highway 80, 500 ft upstream from Southern Railway bridge, three-quarters of a mile southwest of Livingston, and 9 miles upstream from Alamuchee Creek.

Drainage area.--635 sq mi.

Records available.--October 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 90.04 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Average discharge.--16 years, 793 cfs.

Extremes.--Maximum daily discharge during year, 3,600 cfs Mar. 30; minimum, 52 cfs Sept. 4, 5-7, 9, 10 (gage height, 2.60 ft).
1938-54: Maximum discharge, 21,500 cfs Mar. 30, 1951 (gage height, 27.6 ft); minimum, that of Sept. 4, 5-7, 9, 10, 1954.

Remarks.--Records good, except those for periods of no gage-height record, which are poor.

Cooperation.--Gage-height record and nine discharge measurements furnished by Corps of Engineers.

Rating table, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Oct. 9 to Dec. 10)

2.6	52	11.0	1,410
3.5	116	15.0	2,510
5.0	265	18.0	3,510
8.0	733		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	93	128	626	890	575	a3,100	340	198	92	72	57
2	92	96	138	463	810	494	a2,500	354	189	93	71	56
3	90	96	204	375	592	433	a1,700	433	160	87	71	53
4	92	96	347	326	494	403	a1,200	1,060	151	85	68	53
5	92	100	478	298	433	389	a800	1,410	151	100	65	52
6	92	100	697	278	389	354	a550	1,480	151	116	64	52
7	90	96	448	265	361	319	a440	1,060	142	112	67	*52
8	91	100	375	253	340	298	a390	542	133	112	68	53
9	89	96	626	241	319	284	a370	403	128	108	64	52
10	90	100	558	291	312	278	a400	333	124	133	62	52
11	88	100	947	575	312	272	a450	312	124	193	59	53
12	88	104	2,360	697	305	265	a500	305	116	213	58	56
13	87	104	2,060	626	312	491	a520	361	116	128	57	56
14	87	104	1,680	448	298	679	*494	518	116	108	57	56
15	86	108	850	417	278	463	403	442	108	93	57	53
16	85	108	494	1,780	278	389	1,780	494	108	92	57	53
17	85	108	361	2,060	284	305	2,450	375	100	116	70	53
18	85	112	298	*2,090	291	272	2,630	*305	104	100	79	55
19	84	112	265	2,000	298	433	2,690	265	112	151	79	57
20	84	120	247	1,080	463	661	2,810	241	133	188	76	59
21	*84	120	241	910	609	715	2,510	224	138	133	71	60
22	85	142	265	1,110	715	558	a2,000	214	124	104	72	*80
23	86	156	291	1,510	*558	418	a1,500	198	116	93	93	59
24	87	188	312	1,560	661	347	a1,300	183	124	88	87	55
25	86	198	272	1,210	575	319	a1,200	178	112	84	80	56
26	89	174	241	752	478	526	1,060	169	104	79	72	57
27	90	156	224	592	403	1,980	661	164	100	78	66	55
28	89	138	333	526	575	3,090	494	184	93	*77	65	56
29	90	133	870	463	-	3,480	403	333	93	76	64	55
30	89	*128	1,130	463	-----	a3,600	361	375	*93	76	61	57
31	91	-----	930	643	-----	a3,500	-----	247	-----	75	58	-----
Total	2,739	3,586	18,670	24,928	12,633	26,590	37,666	13,482	3,741	3,363	2,110	1,653
Mean	88.4	120	602	804	451	858	1,256	435	125	109	68.1	55.1
Cfs/m	0.139	0.189	0.948	1.27	0.710	1.35	1.98	0.685	0.197	0.172	0.107	0.087
In.	0.16	0.21	1.09	1.46	0.74	1.56	2.21	0.79	0.22	0.20	0.12	0.10
Calendar year 1953: Max			6,510	Min 84		Mean 711	Cfs/m 1.12	In. 15.20				
Water year 1953-54: Max			3,600	Min 52		Mean 414	Cfs/m 0.652	In. 8.86				

Peak discharge (base, 5,000 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of weather records and records for nearby streams.

Tombigbee River near Leroy, Ala.

Location.--Lat 31°34', long 88°02', in sec. 13, T. 7 N., R. 1 W., above spillway of navigation dam at lock 1, 4 miles upstream from Jackson Creek and 5 miles northwest of Leroy.

Drainage area.--19,100 sq mi, approximately.

Records available.--October 1928 to September 1954.

Gage.--Staff gage read twice daily. Datum of gage is 7.28 ft below mean sea level, Datum of 1929 (levels by Corps of Engineers).

Average discharge.--26 years, 26,770 cfs.

Extremes.--Maximum discharge during year, 78,700 cfs Jan. 30 (gage height, 34.7 ft); minimum daily, 534 cfs Aug. 4.
1928-54: Maximum discharge, 201,000 cfs Apr. 11, 1951; maximum gage height, 45.0 ft Apr. 2, 1929; minimum daily discharge not determined.

Remarks.--Records good above 10,000 cfs, fair between 3,000 and 10,000 cfs, and poor below 3,000 cfs. Some regulation at low flow by locks and dams.

Cooperation.--Gage-height record and 27 discharge measurements furnished by Corps of Engineers.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,310	1,880	2,680	21,600	76,900	34,000	52,100	17,100	7,520	1,640	719	795
2	2,230	2,110	2,580	19,400	*74,300	32,200	45,900	18,000	6,820	1,740	*685	735
3	2,020	2,060	8,530	17,100	68,000	32,000	38,500	15,400	5,790	2,050	616	766
4	1,840	2,000	12,300	13,800	58,300	31,200	33,100	14,900	*5,350	2,260	*534	766
5	1,840	2,000	13,300	12,200	41,300	28,000	28,900	17,100	5,350	2,200	584	740
6	1,910	1,930	20,900	10,800	29,600	25,100	25,700	26,500	7,360	2,200	634	711
7	1,840	1,680	30,600	9,490	24,400	22,300	22,300	32,400	8,780	2,200	701	711
8	1,730	1,480	24,300	8,910	19,400	20,500	19,400	35,400	7,120	3,100	748	766
9	1,640	1,480	22,900	8,300	15,400	18,200	17,100	33,100	5,620	4,430	*760	766
10	1,550	1,530	37,900	7,820	13,800	16,000	15,400	31,700	4,880	4,000	693	766
11	1,530	1,530	38,700	7,630	12,300	15,400	16,000	*30,000	4,590	2,780	647	766
12	1,530	*1,570	45,400	10,300	11,300	13,800	16,000	26,200	4,080	2,210	599	766
13	1,530	1,570	49,100	13,500	10,400	12,800	17,700	21,800	3,710	2,280	554	766
14	*1,530	1,570	*50,000	14,400	10,400	13,300	18,200	17,700	3,580	2,350	568	734
15	1,530	1,780	47,100	13,300	10,400	15,400	19,400	14,400	3,430	2,350	927	682
16	1,530	1,890	37,300	12,800	*9,900	17,700	34,900	14,400	3,200	3,770	1,240	682
17	1,530	1,840	29,400	23,800	9,900	*18,800	49,800	12,800	3,100	3,390	1,190	682
18	1,530	1,840	24,700	39,900	9,500	16,500	55,800	11,100	3,360	2,820	*1,100	657
19	1,480	1,780	18,800	45,800	10,800	15,400	58,100	9,930	3,550	3,450	1,060	657
20	1,480	2,150	13,800	51,900	13,800	19,900	*59,100	8,930	3,920	3,170	1,060	657
21	1,440	2,570	12,800	58,300	19,400	21,600	58,500	8,350	4,180	2,980	1,060	657
22	1,440	3,390	12,800	61,900	21,100	20,500	56,400	7,580	3,880	3,080	1,060	633
23	1,400	3,890	19,400	64,800	23,300	20,500	51,300	7,050	3,340	3,060	1,060	*657
24	1,360	3,890	19,400	67,500	30,300	18,800	42,400	6,390	3,160	2,240	1,060	682
25	1,360	3,620	15,400	69,700	34,800	16,500	33,700	5,730	2,970	1,530	1,060	682
26	1,360	3,290	11,100	71,900	35,700	14,900	28,700	5,440	2,840	1,530	1,060	682
27	*1,360	2,790	9,700	74,100	35,800	16,000	26,000	5,130	2,840	*1,200	1,060	740
28	1,400	2,580	8,970	*75,100	34,700	40,900	23,900	7,560	2,450	953	1,060	740
29	1,400	2,660	12,000	76,900	-	49,800	20,900	7,120	*1,890	*895	1,060	766
30	1,400	2,660	17,100	78,100	-	52,900	18,800	5,790	1,600	805	914	766
31	1,480	-	21,100	78,100	-	53,100	-	6,770	-	*753	797	-
Total	49,510	67,010	688,040	1,139,150	765,200	744,000	1,004,000	477,370	130,010	73,416	26,870	21,636
Mean	1,597	2,234	22,190	36,750	27,330	24,000	33,470	15,400	4,334	2,368	867	721
Cfsm	0.084	0.117	1.16	1.92	1.43	1.26	1.75	0.806	0.227	0.124	0.045	0.038
In.	0.10	0.13	1.34	2.22	1.49	1.45	1.95	0.93	0.25	0.14	0.05	0.04

Calendar year 1953: Max 108,000 Min 1,360 Mean 25,660 Cfsm 1.34 In. 18.23
Water year 1953-54: Max 78,100 Min 534 Mean 14,210 Cfsm 0.744 In. 10.09

* Discharge measurement made on this day.

Mobile River near Mount Vernon, Ala.

Location.--Lat 31°06'05", long 87°58'05" in SE $\frac{1}{4}$ sec. 41, T. 2 N., R. 1 E., at boat pier on west bank of David Lake, half a mile upstream from lake outlet to Mobile River, 2 $\frac{1}{2}$ miles northeast of Mount Vernon, and a mile 41.3 from Mobile.

Drainage area.--43,000 sq mi, approximately.

Records available.--October 1953 to September 1954 (discontinued).

Gage.--Water-stage recorder. Datum of gage is about 2 ft below mean sea level, from comparative readings with Corps of Engineers gage on Mobile River a quarter of a mile downstream from Lake David Outlet. Auxiliary water-stage recorder at Alabama State docks at Mobile.

Extremes.--Maximum daily discharge during year, 143,000 cfs Feb. 1, 2; maximum gage height, 11.40 ft Feb. 2; minimum daily discharge, 4,310 cfs Sept. 24.

Remarks.--Records good above 40,000 cfs and fair below. Flow regulated by reservoirs on Etowah, Coosa, and Tallapoosa Rivers (see p. 241), and to some extent at low flow by locks and dams on the Tombigbee River. Records of chemical analyses, water temperatures, and suspended sediment loads for the water year 1954 are given in WSP 1350.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28,200	7,960	10,400	58,500	143,000	77,500	90,000	44,900	23,400	16,100	8,870	6,750
2	33,700	9,780	9,780	60,000	143,000	77,500	93,400	44,200	24,700	14,200	5,840	8,260
3	35,300	10,700	19,500	60,600	142,000	77,400	96,500	47,500	25,000	11,900	8,870	9,780
4	30,700	11,600	33,000	58,500	139,000	74,800	97,400	43,900	13,500	10,400	7,050	11,000
5	25,600	10,700	38,400	56,200	134,000	73,000	95,700	40,500	16,900	7,660	8,560	10,400
6	19,500	13,000	48,800	51,900	125,000	72,700	91,100	42,800	18,200	12,500	7,350	11,000
7	13,600	*13,900	56,400	45,900	114,000	70,800	85,300	48,900	19,800	7,960	6,150	9,170
8	9,170	14,500	65,300	40,600	99,000	67,400	78,200	*52,500	16,400	9,170	6,150	8,560
9	9,480	13,300	70,600	35,900	83,300	63,600	70,200	53,600	*14,700	10,100	10,100	10,400
10	12,800	11,900	*73,700	36,900	68,300	59,400	62,900	54,200	13,300	10,100	10,400	7,660
11	13,300	13,600	*80,200	32,600	56,000	55,900	57,000	53,300	12,200	9,170	9,780	7,350
12	14,200	11,900	88,200	32,300	45,600	52,500	51,900	50,600	15,300	8,870	12,500	7,960
13	15,300	10,700	95,700	32,300	38,700	50,300	48,000	49,600	18,500	10,100	11,600	9,480
14	13,600	9,780	*102,000	34,000	37,500	47,500	*46,300	40,600	20,800	10,700	16,900	8,260
15	12,500	11,300	105,000	55,000	38,700	42,900	48,900	34,300	19,000	11,300	13,000	9,780
16	10,400	9,170	108,000	37,000	37,500	42,400	55,000	31,600	19,000	15,300	7,960	10,100
17	9,480	13,900	108,000	39,900	33,500	45,700	62,200	31,900	19,200	12,800	12,500	12,500
18	6,450	13,600	106,000	47,100	28,600	46,800	71,500	30,300	17,900	9,480	13,000	12,800
19	8,580	14,700	101,000	58,500	25,600	50,100	81,400	29,000	14,500	10,700	12,800	12,200
20	*11,900	18,500	95,900	68,900	36,300	54,900	88,000	24,500	13,900	9,170	11,900	12,200
21	13,300	19,500	89,900	79,600	42,900	57,100	91,200	20,800	13,600	10,100	11,600	10,700
22	13,600	24,500	85,500	88,400	49,100	59,400	92,500	21,800	15,800	10,400	9,780	8,260
23	15,300	21,300	75,200	94,700	55,100	61,200	92,200	22,500	11,300	16,600	11,900	5,840
24	13,900	20,000	68,900	103,000	60,300	81,100	89,600	23,200	10,100	13,300	12,200	4,310
25	13,000	17,400	65,400	111,000	64,800	60,200	85,700	19,200	11,900	9,170	16,100	8,580
26	14,700	13,000	61,100	118,000	71,500	54,600	80,200	10,400	11,900	9,780	16,400	10,400
27	20,500	11,600	55,900	124,000	75,800	49,800	72,800	15,600	11,900	8,560	9,780	8,870
28	16,100	9,170	53,400	129,000	79,000	54,400	64,300	22,500	15,000	12,200	10,100	8,870
29	11,600	11,900	53,800	134,000	-	67,200	56,800	23,400	14,500	13,000	8,560	10,400
30	9,480	11,000	55,800	138,000	-----	78,200	49,100	23,800	13,300	11,300	7,050	11,000
31	7,350	-----	57,900	141,000	-----	85,600	-----	23,400	-----	*9,480	11,000	-----
Total	480,570	404,060	2,136,680	*2,183.3	*2,067.7	*1,891.4	*2,245.3	*1,075.3	491,500	341,570	325,750	282,820
Mean	15,500	13,470	68,930	70,430	73,850	61,010	74,840	34,690	16,380	11,020	10,510	9,427
Cfs/m	0.360	0.313	1.60	1.64	1.72	1.42	1.74	0.807	0.381	0.256	0.244	0.219
In.	0.42	0.35	1.85	1.89	1.79	1.64	1.94	0.93	0.43	0.30	0.28	0.24
Calendar year 1953: Max - Min - Mean - Cfs/m - In. -												
Water year 1953-54: Max 143,000 Min 4,310 Mean 38,150 Cfs/m 0.887 In. 12.06												

* Discharge measurement made on this day.

* Expressed in thousands.

MOBILE RIVER BASIN

Chickasaw Creek near Whistler, Ala.

Location.--Lat 30°49'15", long 88°09'10", in NW¼ sec. 2, T. 3 S., R. 2 W., on downstream side of right pier of highway bridge, 2 miles upstream from Seabury Creek, 5 miles northwest of Whistler, and 8 miles northwest of Mobile.

Drainage area.--124 sq mi.

Records available.--October 1951 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 20 ft (from topographic map). Auxiliary staff gage 4 miles downstream from base gage.

Extremes.--Maximum discharge during year, 1,030 cfs Dec. 13 (gage height, 7.38 ft); minimum, 18 cfs Sept. 3, 4 (gage height, 0.41 ft).
1951-54: Maximum discharge, 1,920 cfs Apr. 26, 1953 (gage height, 11.96 ft); minimum, that of Sept. 3, 4, 1954.

Remarks.--Records fair except those for periods of doubtful or no gage-height record, which are poor.

Cooperation.--Gage-height record and 15 discharge measurements furnished by Corps of Engineers.

Rating tables, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)

Oct. 1 to Dec. 6		Dec. 7 to Sept. 30	
0.8	35	0.4	18
2.0	175	1.0	55
4.0	466	2.0	162
6.0	806	4.0	445
		7.0	960

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	93	53	110	295	138	116	162	60	63	38	40	*20
2	109	54	111	232	*126	110	137	54	51	41	37	19
3	87	53	125	206	121	112	121	55	45	110	35	19
4	71	53	*282	192	115	120	110	*61	41	100	35	19
5	61	102	378	180	110	110	101	61	38	56	33	19
6	57	146	806	168	108	138	93	54	36	48	32	20
7	56	106	*988	156	108	192	91	*50	*35	47	30	20
8	54	82	509	150	104	162	88	48	34	49	29	20
9	53	76	318	146	104	132	91	46	33	52	30	20
10	52	72	340	150	105	118	77	45	33	69	30	22
11	50	67	318	174	104	108	75	44	*33	56	27	26
12	48	62	816	168	102	103	*74	*44	35	47	*25	25
13	47	59	1,010	150	99	101	70	45	44	40	24	22
14	*45	58	798	144	*98	101	67	47	44	*36	24	20
15	45	57	573	146	107	98	62	48	38	33	30	20
16	45	59	370	156	108	90	75	47	34	37	49	37
17	45	*61	281	156	107	87	162	45	54	70	32	89
18	45	58	239	140	108	86	130	43	74	110	28	81
19	43	61	212	136	106	93	86	78	64	90	*26	54
20	45	239	288	134	199	136	71	162	52	70	25	42
21	45	434	509	150	325	124	67	*121	44	50	24	36
22	44	418	461	274	239	99	75	69	39	58	25	33
23	43	450	340	302	162	89	114	55	37	44	27	30
24	40	318	267	225	174	87	112	48	36	66	30	28
25	40	214	225	186	199	84	125	45	120	80	29	27
26	43	169	206	162	*162	92	140	45	200	66	26	27
27	50	129	192	156	134	215	94	47	140	52	25	*27
28	62	111	192	149	122	624	78	51	86	54	24	25
29	56	100	274	137	-	541	71	67	56	54	24	25
30	50	97	362	128	-----	295	66	113	44	52	23	31
31	50	-----	365	137	-----	206	-----	99	-----	45	22	-----
Total	1,674	4,018	12,185	5,365	3,790	4,769	2,875	1,897	1,683	1,800	900	801
Mean	54.0	134	393	174	135	154	95.8	61.2	56.1	58.1	28.0	30.0
Cfs/m	0.435	1.08	3.17	1.40	1.09	1.24	0.773	0.494	0.452	0.469	0.234	0.242
In.	0.50	1.20	3.65	1.62	1.14	1.43	0.86	0.57	0.50	0.54	0.27	0.27
Calendar year 1953: Max	1,680			Min 36		Mean 220		Cfs/m 1.77	In. 24.10			
Water year 1953-54: Max	1,010			Min 19		Mean 115		Cfs/m 0.927	In. 12.55			

* Peak discharge (base, 1,500 cfs).--No peak above base.

* Discharge measurement made on this day.

Note.--Doubtful or no gage-height record Feb. 13, June 17-20, 25-29, July 3-11, 16-31, Aug. 1, 4-11; discharge estimated on basis of weather records and records for stations on nearby streams.

Leaf River near Collins, Miss.

Location.--Lat 31°41', long 89°24', in NE¼ sec. 33, T. 9 N., R. 14 W., St. Stephens meridian, on right bank at downstream side of bridge on U. S. Highway 84, 2 miles downstream from Oakahay Creek, 8 miles upstream from Rahoma Creek, and 9½ miles northeast of Collins.

Drainage area.--752 sq mi.

Records available.--September 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 197.48 ft above mean sea level (Mississippi State Highway benchmark). Prior to Dec. 8, 1938, wire-weight gage at same site and datum.

Average discharge.--16 years, 1,072 cfs.

Extremes.--Maximum discharge during year, 7,580 cfs Mar. 30 (gage height, 17.13 ft); minimum, 63 cfs Sept. 14-16 (gage height, 3.99 ft).
1938-54: Maximum discharge, 38,100 cfs Jan. 8, 1950 (gage height, 31.14 ft); minimum, that of Sept. 14-16, 1954.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

3.9	54	8.0	1,300
4.5	126	10.0	2,380
5.0	217	13.0	4,380
6.0	492	17.0	7,490

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	104	97	199	1,200	1,800	540	2,740	261	222	106	116	65
2	104	95	170	940	1,800	540	1,800	241	199	104	108	65
3	103	98	282	693	1,200	461	1,250	516	183	100	103	64
4	102	99	900	*540	760	446	780	1,100	170	100	99	64
5	*99	100	780	476	574	431	627	1,450	159	119	99	64
6	99	100	996	431	476	402	524	152	*144	95	64	
7	98	100	1,020	388	431	371	461	940	151	152	93	65
8	97	100	*664	360	388	346	431	492	144	129	92	68
9	97	100	1,200	341	363	319	402	352	143	508	92	75
10	97	100	1,850	338	349	303	374	327	136	702	92	*70
11	97	100	1,700	402	338	292	349	979	132	627	86	67
12	97	100	2,920	557	*322	279	346	1,900	126	920	83	65
13	97	102	2,080	627	306	269	371	3,680	126	652	80	64
14	95	102	1,700	557	295	256	349	3,260	120	258	77	63
15	94	103	1,350	476	295	244	322	2,980	134	187	76	63
16	93	103	940	1,960	300	231	1,640	2,260	132	152	*76	63
17	92	*103	664	2,080	330	222	3,050	1,350	140	229	75	77
18	92	103	524	2,020	324	217	3,540	760	157	177	75	87
19	92	107	431	1,800	306	*446	4,030	524	179	256	74	88
20	92	152	416	1,450	505	1,100	2,320	416	151	191	73	81
21	92	175	461	860	1,020	1,300	1,300	360	130	175	73	75
22	92	181	1,050	880	1,000	1,150	840	311	132	164	72	72
23	92	300	920	1,600	960	800	*591	279	134	158	73	71
24	92	248	609	1,960	702	524	476	*256	140	122	75	70
25	92	191	461	1,650	591	416	446	234	135	113	75	70
26	92	164	402	1,150	540	446	461	219	136	144	74	68
27	93	146	363	760	492	1,470	402	210	122	175	73	67
28	95	135	374	609	461	5,290	357	319	122	136	71	67
29	98	146	760	540	-	5,580	327	261	135	123	70	67
30	97	191	1,450	557	-----	7,220	292	279	112	129	67	68
31	95	-----	1,450	1,040	-----	5,360	-----	248	-----	128	66	-----
Total	2,971	3,944	29,086	29,232	17,228	37,271	31,196	28,164	4,354	7,359	2,553	2,077
Mean	95.8	131	938	945	615	1,202	1,040	909	145	237	92.4	69.2
Cfam	0.127	0.174	1.25	1.25	0.618	1.60	1.38	1.21	0.193	0.315	0.110	0.092
In.	0.15	0.20	1.44	1.45	0.85	1.84	1.54	1.39	0.22	0.36	0.13	0.10

Calendar year 1953: Max 13,700 Min 92 Mean 1,269 Cfam 1.69 In. 22.92
Water year 1953-54: Max 7,220 Min 63 Mean 535 Cfam 0.711 In. 9.67

Peak discharge (base, 8,000 cfs).--No peak above base.

* Discharge measurement made on this day.

PASCAGOULA RIVER BASIN

Bowie Creek near Hattiesburg, Miss.

Location.--Lat 31°26', long 89°26', in sec. 5, T. 5 N., R. 14 W., St. Stephens meridian, on left bank at downstream side of bridge on U. S. Highway 49, 2 miles southwest of Lux, 2 miles upstream from Okatoma Creek, and 10 miles northwest of Hattiesburg.

Drainage area.--304 sq mi.

Records available.--September 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 160.04 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Dec. 8, 1938, wire-weight gage at same site and datum.

Average discharge.--16 years, 479 cfs.

Extremes.--Maximum discharge during year, 3,000 cfs Dec. 9 (gage height, 11.66 ft); minimum, 96 cfs Sept. 5-7 (gage height, 2.77 ft).
1938-54: Maximum discharge, 20,100 cfs Mar. 21, 1943 (gage height, 25.70 ft); minimum, that of Sept. 5-7, 1954.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 9

Dec. 10 to Sept. 30

3.0	115	5.0	493	2.7	91	7.0	1,140
3.5	173	7.0	1,140	3.3	156	9.0	1,900
4.0	259	9.0	1,900	4.0	270	11.0	2,700
				5.0	496		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	121	129	*165	496	423	216	355	157	160	128	130	99
2	121	130	185	377	333	208	251	152	151	122	124	98
3	121	130	216	322	280	198	216	191	146	120	122	97
4	121	132	520	290	251	197	208	300	208	122	120	97
5	121	136	680	*270	224	200	192	333	185	122	124	96
6	121	138	1,210	260	216	208	186	251	156	157	126	96
7	122	136	843	242	208	208	179	191	143	142	120	97
8	122	136	506	233	200	198	174	173	140	131	117	97
9	122	135	1,650	224	196	194	167	162	138	*133	115	99
10	122	135	2,220	242	196	188	163	160	134	142	*114	102
11	122	135	1,520	344	*194	185	160	178	131	142	114	102
12	122	135	*2,620	300	191	184	162	216	130	138	112	100
13	122	135	1,700	260	196	184	162	670	130	128	111	98
14	122	135	1,100	251	186	179	163	459	129	120	110	97
15	122	135	696	253	190	176	159	377	129	118	110	97
16	122	135	459	504	198	172	643	270	131	119	110	97
17	122	135	355	696	200	169	1,140	200	135	408	108	101
18	121	135	300	680	196	167	634	179	138	350	107	106
19	121	140	270	412	191	*237	366	178	133	176	106	108
20	121	226	338	333	483	535	260	208	131	146	105	108
21	*121	238	576	290	576	355	208	208	136	133	106	103
22	122	259	1,100	280	377	260	*190	178	134	151	109	100
23	122	240	1,460	280	280	216	184	160	134	140	109	98
24	123	222	928	270	260	200	176	153	136	125	107	98
25	123	201	496	251	280	194	178	151	135	280	107	98
26	124	170	366	242	270	188	251	148	128	260	106	97
27	125	159	311	233	242	313	280	*148	128	192	105	97
28	127	154	355	224	224	996	188	162	125	147	103	97
29	128	151	634	224	843	169	407	124	133	102	97	
30	129	152	744	224	-----	604	159	300	122	130	101	97
31	129	-----	664	388	-----	496	-----	185	-----	129	*100	-----
Total	3,804	4,727	25,187	9,675	7,251	8,868	7,923	7,205	4,180	4,984	3,460	2,974
Mean	123	158	812	319	259	286	264	232	139	161	112	99.1
Cfsm	0.405	0.520	2.67	1.05	0.652	0.941	0.868	0.765	0.457	0.530	0.368	0.326
In.	0.47	0.58	3.08	1.21	0.89	1.08	0.97	0.68	0.51	0.61	0.42	0.36
Calendar year 1953: Max	7,050			Min 119		Mean 493		Cfsm 1.62		In. 22.03		
Water year 1953-54: Max	2,620			Min 96		Mean 248		Cfsm 0.816		In. 11.06		

Peak discharge (base, 4,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Leaf River at Hattiesburg, Miss.

Location.--Lat 31°21', long 89°17', in NW 1/4 sec. 2, T. 4 N., R. 13 W., St. Stephens meridian, on left bank at downstream side of bridge on U. S. Highway 11, at eastern city limits of Hattiesburg, 300 ft downstream from Bowie Creek, 3,000 ft upstream from New Orleans and Northeastern Railroad bridge, and at mile 78.0 (by U. S. Weather Bureau).

Drainage area.--1,760 sq mi, approximately.

Records available.--September 1938 to September 1954. Gage-height records collected in same vicinity since 1904 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 118.23 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Prior to Dec. 10, 1938, wire-weight gage at same site and datum.

Average discharge.--16 years, 2,698 cfs.

Extremes.--Maximum discharge during year, 13,300 cfs Dec. 12 (gage height, 16.20 ft); minimum, 348 cfs Sept. 4, 5 (gage height, 4.22 ft).

1938-54: Maximum discharge, 71,300 cfs Mar. 22, 1943 (gage height, 28.91 ft); minimum, that of Sept. 4, 5, 1954.

Flood in April 1900 reached a stage of about 33.6 ft, present datum, from reports of U. S. Weather Bureau.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 12

Dec. 13 to Sept. 30

4.6	395	8.0	3,150	4.2	340	8.0	3,150
5.0	635	12.0	7,450	4.6	525	12.0	7,450
6.0	1,420	16.0	13,000	5.0	765	14.0	10,100
				6.0	1,460		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	444	456	*800	3,440	2,700	1,270	3,180	895	798	525	549	359
2	444	462	877	2,790	3,150	1,350	4,340	950	741	514	525	351
3	439	462	1,360	2,270	2,700	1,310	2,790	1,150	717	525	514	351
4	434	468	3,340	1,900	2,100	1,240	2,140	1,900	747	466	508	348
5	434	510	3,640	*1,660	1,620	1,200	1,660	2,360	741	495	470	348
6	444	510	6,850	1,540	1,420	1,200	1,460	2,440	681	555	470	359
7	444	504	4,960	1,420	1,270	1,160	1,310	2,020	645	597	456	370
8	439	504	3,150	1,350	1,200	1,100	1,200	1,500	621	*579	446	355
9	434	504	5,590	1,270	1,160	1,060	1,130	1,100	603	985	436	351
10	434	498	9,790	1,310	1,100	1,020	1,100	992	591	1,940	*436	374
11	434	492	7,090	1,540	*1,100	1,020	1,020	1,020	579	1,820	436	378
12	434	486	12,700	1,540	*1,060	982	1,020	2,020	561	1,460	432	367
13	434	480	9,650	1,580	1,020	960	1,240	4,580	549	1,420	427	355
14	428	480	7,090	1,580	1,020	960	1,200	5,730	549	1,060	418	355
15	428	480	4,960	1,500	1,020	928	1,160	5,940	537	717	404	351
16	428	480	3,640	2,270	1,060	935	4,620	4,740	561	633	396	355
17	428	486	2,610	4,540	1,050	*895	5,350	3,240	603	1,100	332	400
18	422	496	2,060	4,440	1,050	862	5,170	2,060	591	1,380	378	418
19	417	510	1,780	3,740	1,060	873	5,620	1,500	591	895	378	441
20	422	1,120	1,980	3,150	2,060	2,270	3,290	1,350	609	791	378	451
21	*428	1,120	2,790	2,520	2,610	2,700	3,240	1,200	585	681	378	432
22	422	1,210	4,040	1,980	2,440	2,440	*2,180	1,020	603	639	332	400
23	422	1,250	6,500	2,100	2,180	2,020	1,780	928	585	615	387	392
24	428	1,050	4,340	2,790	2,270	1,540	1,460	862	597	573	397	378
25	428	1,000	2,790	2,970	1,860	1,240	1,420	*824	645	621	404	378
26	434	908	2,020	2,610	1,620	1,180	1,310	794	567	705	409	374
27	439	700	1,700	2,020	1,460	1,660	1,310	772	525	669	404	370
28	450	642	1,730	1,660	1,310	6,060	1,100	754	514	693	391	374
29	450	609	2,610	1,500	-	8,180	992	1,020	514	615	382	387
30	450	654	3,440	1,420	-----	8,440	928	1,060	537	573	378	357
31	450	-----	4,040	1,980	-----	9,230	-----	895	-----	555	*370	-----
Total	13,466	19,451	129,907	69,390	45,690	67,335	75,220	58,416	18,297	25,417	13,111	11,299
Mean	434	649	4,192	2,206	1,632	2,172	2,507	1,894	610	820	423	377
Cfsm	0.247	0.368	2.53	1.25	0.927	1.23	1.42	1.07	0.347	0.466	0.240	0.214
In.	0.28	0.41	2.75	1.44	0.97	1.42	1.59	1.23	0.39	0.54	0.28	0.24
Calendar year 1953:	Max	29,500	Min	417	Mean	3,072	Cfsm	1.75	In.	23.69		
Water year 1953-54:	Max	12,700	Min	348	Mean	1,496	Cfsm	0.850	In.	11.54		

Peak discharge (base, 12,000 cfs).--Dec. 12 (12:30 p.m.) 13,300 cfs (16.20 ft).

* Discharge measurement made on this day.

PASCAGOULA RIVER BASIN

Tallahala Creek at Laurel, Miss.

Location.--Lat 31°41', long 89°07', in NE $\frac{1}{4}$ sec. 8, T. 8 N., R. 11 W., St. Stephens meridian, on right bank at downstream side of bridge on State Highway 15, half a mile upstream from Gulf, Mobile and Ohio Railroad bridge, half a mile southeast of city limits of Laurel, and 6 miles upstream from Tallahoma Creek.

Drainage area.--233 sq mi.

Records available.--September 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 201.37 ft above mean sea level (Mississippi State Highway benchmark). Prior to Dec. 14, 1938, wire-weight gage at same site and datum.

Average discharge.--16 years, 348 cfs.

Extremes.--Maximum discharge during year, 2,230 cfs Apr. 1 (gage height, 14.52 ft); minimum, 3.0 cfs Oct. 23, 26, Sept. 13; minimum gage height, 1.79 ft Sept. 13. 1938-54: Maximum discharge, 13,700 cfs Jan. 21, 1947 (gage height, 20.29 ft); minimum, 1.8 cfs Nov. 3, 1952; minimum gage height, that of Sept. 13, 1954.

Remarks.--Records good except those for periods of no gage-height record, which are poor.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Aug. 7 to Sept. 30)

2.0	2.5	6.0	245
2.2	6.3	8.0	450
2.5	14	10.0	720
3.0	30	12.0	1,130
3.5	53	14.0	1,910
4.0	84	15.0	2,660

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.8	4.4	34	584	354	161	2,090	65	161	14	44	8.3
2	7.0	4.2	35	612	474	264	1,670	57	113	11	26	7.6
3	7.3	5.0	88	486	510	284	886	84	73	8.8	22	6.8
4	6.6	6.3	104	*284	329	201	287	121	54	8.8	19	6.1
5	6.1	8.8	200	218	209	169	209	145	44	14	16	5.7
6	*7.3	7.0	290	193	173	161	173	133	36	*13	14	5.2
7	5.7	a6.5	369	169	149	133	153	113	32	28	12	5.7
8	5.5	a6.5	*324	153	*133	125	133	81	30	49	11	8.3
9	5.7	a7.0	486	137	117	113	121	63	26	140	10	7.0
10	5.7	a9.0	738	137	109	102	109	52	24	304	10	4.8
11	5.0	a10	850	141	105	98	98	64	22	169	9.6	4.2
12	5.0	8.8	1,360	149	102	91	94	265	21	105	11	3.7
13	5.0	8.0	1,430	153	98	90	102	830	19	62	10	3.7
14	5.0	8.0	1,180	145	91	85	109	1,080	18	46	9.3	4.2
15	5.0	7.6	1,080	141	88	83	94	1,040	17	34	8.3	4.6
16	5.2	8.0	970	236	88	76	376	1,040	16	34	8.3	5.5
17	4.8	*8.6	704	450	90	70	715	806	15	86	*8.3	7.3
18	4.2	8.8	304	558	102	*65	810	294	16	72	8.0	6.1
19	4.4	9.8	a190	598	98	185	810	185	17	58	7.8	5.7
20	4.4	89	a220	656	185	414	792	153	23	36	7.6	5.7
21	4.2	53	a240	598	264	486	626	125	21	28	7.3	5.9
22	4.0	73	a360	314	364	426	245	98	16	36	6.6	5.7
23	3.9	42	a650	245	384	304	*274	79	14	50	7.0	5.0
24	4.0	56	a600	344	284	193	344	*67	13	41	7.0	5.2
25	3.9	44	a400	450	245	149	205	59	14	30	6.3	5.9
26	3.7	32	a260	384	209	137	177	52	12	57	6.1	5.9
27	5.2	31	a200	236	185	336	141	50	11	40	*5.9	5.5
28	5.0	25	209	193	161	792	109	213	10	28	6.1	5.5
29	4.4	32	264	173	-	992	91	314	10	39	6.8	5.0
30	4.4	31	384	201	-----	1,040	76	254	14	66	7.0	4.8
31	4.6	-----	522	274	-----	1,570	-----	205	-----	90	8.6	-----
Total	159.0	650.3	15,025	9,612	5,700	9,375	12,119	8,187	912	1,797.6	346.9	170.6
Mean	5.13	21.7	485	310	204	302	404	264	30.4	58.0	11.2	5.69
Cfs/m	0.022	0.093	2.08	1.33	0.876	1.30	1.73	1.13	0.130	0.249	0.048	0.024
In.	0.03	0.10	2.40	1.53	0.91	1.50	1.93	1.31	0.15	0.29	0.06	0.03

Calendar year 1953: Max 5,600 Min 3.7 Mean 382 Cfs/m 1.64 In. 22.25
water year 1953-54: Max 2,090 Min 3.7 Mean 175 Cfs/m 0.751 In. 10.24

Peak discharge (base, 3,000 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage, rainfall records, and records for station near Runnelstown.

Tallahala Creek near Runnelstown, Miss.

Location.--Lat 31°20', long 89°07', in NE¼ sec. 8, T. 4 N., R. 11 W., St. Stephens meridian, on right bank at downstream side of highway bridge between Sunrise and Runnelstown, 3 miles south of Runnelstown and 9 miles upstream from mouth.

Drainage area.--612 sq mi.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 109.58 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Average discharge.--15 years, 960 cfs.

Extremes.--Maximum discharge during year, 5,040 cfs Apr. 16 (gage height, 11.21 ft); minimum, 32 cfs Sept. 15, 16, 29 (gage height, 0.63 ft).
1939-54: Maximum discharge, 19,300 cfs Jan. 23, 1947 (gage height, 21.70 ft); minimum, that of Sept. 15, 16, 29, 1954.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Apr. 16

Apr. 17 to Sept. 30

0.9	47	4.0	828
1.2	77	5.0	1,270
1.5	110	7.0	2,370
2.0	200	9.0	3,600
3.0	479	11.0	4,900

0.6	30	1.5	117
1.0	62	2.0	200

Note.--Same as preceding table above 2.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	51	48	140	1,420	951	479	2,370	247	381	69	164	36
2	53	49	135	1,420	972	432	2,730	218	300	96	175	35
3	53	50	352	1,370	1,060	511	2,970	317	255	146	138	35
4	51	51	2,370	*1,170	1,100	809	2,550	432	198	99	130	35
5	50	58	1,320	828	868	511	1,090	402	168	88	104	35
6	50	63	3,210	678	609	448	660	463	144	78	84	35
7	50	59	2,370	592	495	432	543	402	130	77	76	36
8	49	58	1,420	527	*432	402	464	363	120	*86	72	35
9	49	57	*2,260	479	387	363	417	286	113	184	67	36
10	49	56	3,400	464	360	328	366	237	107	387	*63	38
11	48	55	3,150	527	340	308	334	205	100	511	60	40
12	47	54	4,770	511	325	297	328	207	97	477	58	43
13	47	54	4,840	495	303	300	354	439	92	354	55	37
14	47	54	4,320	479	300	372	308	1,570	89	297	53	34
15	48	55	3,660	464	297	292	303	2,130	88	205	51	32
16	49	55	2,910	678	295	255	3,590	2,190	86	152	50	34
17	48	55	2,310	951	300	247	2,730	2,130	89	221	48	43
18	47	55	1,680	1,130	292	*237	2,130	1,790	107	250	47	48
19	47	59	1,020	1,320	297	300	1,960	930	94	402	45	48
20	47	597	930	1,420	679	678	1,790	592	93	328	44	43
21	*47	660	1,320	1,420	1,250	1,270	1,520	448	88	177	43	40
22	47	317	1,620	1,270	868	1,250	*1,320	357	89	134	47	37
23	47	381	2,550	930	868	994	789	300	92	144	52	36
24	47	265	2,310	714	1,370	789	714	255	84	130	47	34
25	47	174	1,900	789	1,080	560	751	*221	82	130	47	34
26	47	168	1,520	972	770	464	609	196	81	141	44	34
27	47	140	994	930	643	558	463	185	77	129	51	34
28	47	117	888	678	543	1,900	417	175	73	168	46	33
29	47	110	1,100	576	-	2,370	331	242	72	149	41	32
30	47	110	1,170	527	-----	2,370	278	495	72	149	39	34
31	47	-----	1,320	751	-----	2,370	-----	402	-----	144	*39	-----
Total	1,497	4,084	63,058	26,480	18,254	22,696	35,179	18,926	3,661	6,042	2,080	1,104
Mean	48.3	136	2,034	854	652	732	1,173	607	122	195	67.1	36.8
Cfsm	0.079	0.222	3.32	1.40	1.07	1.20	1.92	0.992	0.199	0.319	0.110	0.060
In.	0.09	0.25	3.83	1.61	1.11	1.38	2.14	1.14	0.22	0.37	0.13	0.07
Calendar year 1953: Max	10,800	Min	47	Mean	1,061	Cfsm	1.73	In.	23.55			
Water year 1953-54: Max	4,770	Min	32	Mean	556	Cfsm	0.908	In.	12.34			

* Discharge measurement made on this day.

Leaf River near McLain, Miss.

Location.--Lat 31°06'10", long 88°48'30", in SE $\frac{1}{4}$ sec. 29, T. 2 N., R. 8 W., St. Stephens meridian, on downstream side of right main pier of bridge on State Highway 15, 1 $\frac{1}{4}$ miles east of McLain, 2 miles downstream from Atkinson Creek, 6 miles upstream from Big Oktib-bee Creek, and 17 $\frac{1}{2}$ miles upstream from confluence with Chickasawhay River.

Drainage area.--3,510 sq mi, approximately.

Records available.--November 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 42.15 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Prior to June 4, 1940, staff gage, and June 4 to Sept. 7, 1940, wire-weight gage, at present site and datum.

Average discharge.--15 years, 5,674 cfs.

Extremes.--Maximum discharge during year, 26,800 cfs Dec. 14 (gage height, 20.16 ft); minimum, 530 cfs Sept. 14, 15 (gage height, 1.89 ft).

1939-54: Maximum discharge, 88,300 cfs Mar. 24, 1943 (gage height, 27.76 ft); minimum, that of Sept. 14, 15, 1954.

Flood in April 1900 reached a stage about 4 ft higher than that of Mar. 24, 1943, from information by local residents.

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

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 14				Dec. 15 to Sept. 30			
2.4	638	8.0	5,300	1.9	530	4.0	1,560
3.0	905	12.0	10,800	2.5	762	5.0	2,250
4.0	1,480	16.0	17,000	3.0	1,000		
5.0	2,250	19.0	23,000				
6.0	3,080	21.0	30,000				

Note.--Same as preceding table above 5.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	765	678	1,000	8,420	4,330	a3,800	13,500	2,020	1,810	900	a1,050	699
2	742	678	1,120	7,880	5,300	a3,400	13,800	1,880	1,740	900	1,020	699
3	742	678	1,880	7,020	5,690	a3,100	11,800	1,880	1,620	876	1,050	678
4	742	678	19,600	6,210	5,300	a2,800	8,980	2,410	1,470	975	1,000	658
5	720	720	22,700	5,300	4,570	a2,600	6,470	2,990	1,380	950	1,000	638
6	720	765	19,400	*4,450	3,650	a2,600	3,870	3,350	1,350	*950	900	619
7	720	720	19,800	3,870	3,080	a2,500	3,080	3,450	1,290	950	852	582
8	720	699	17,700	3,450	2,730	a2,400	2,730	3,080	1,200	975	829	582
9	720	699	*14,400	3,260	*2,490	a2,300	2,410	2,650	1,150	1,360	784	564
10	699	678	17,900	3,080	2,410	a2,200	2,250	2,090	1,100	2,650	762	547
11	699	678	20,400	3,170	2,250	a2,100	2,170	1,880	1,080	3,350	*720	547
12	699	678	23,900	3,350	2,170	a2,000	2,090	1,810	1,050	2,990	720	547
13	699	658	25,100	3,260	2,090	a2,000	2,090	2,330	1,020	2,570	720	547
14	699	658	26,400	3,260	2,020	a2,100	2,170	4,930	1,000	2,330	a710	530
15	678	658	25,400	3,260	2,020	a2,300	2,090	8,180	975	1,950	a700	530
16	678	658	21,800	3,260	2,020	2,250	11,100	8,700	950	1,500	699	547
17	678	678	17,200	4,570	2,020	2,090	20,200	8,000	975	1,260	678	582
18	678	678	12,400	6,880	2,020	*1,950	20,400	6,080	1,000	1,560	678	619
19	678	678	8,980	7,300	2,020	2,330	*17,200	4,930	1,000	2,170	658	619
20	*678	979	6,680	6,880	5,100	3,450	14,000	3,450	1,000	2,020	a620	619
21	678	1,880	8,560	6,340	11,100	4,690	12,000	2,730	1,000	1,950	a620	619
22	678	2,530	9,400	5,950	8,980	5,430	9,540	2,330	1,020	1,560	699	619
23	678	2,250	11,200	4,930	a7,000	5,050	7,300	2,020	1,020	1,320	699	*582
24	678	2,010	13,200	4,330	a6,800	4,450	5,430	1,810	1,050	1,200	699	564
25	658	1,630	11,800	4,690	a8,000	3,870	5,170	*1,680	1,350	1,120	678	564
26	658	1,460	8,980	4,930	a6,500	3,260	4,210	1,560	1,200	1,080	678	564
27	678	1,290	7,300	4,690	a5,000	3,440	3,950	1,500	1,050	1,180	658	564
28	658	1,140	6,600	3,980	a4,300	9,120	2,900	1,440	975	1,150	720	547
29	658	1,060	7,720	3,350	-	11,400	2,490	1,470	950	1,150	741	547
30	658	1,000	6,280	3,080	-----	12,900	2,250	1,680	925	1,230	720	564
31	658	-----	8,420	3,170	-----	13,400	-----	1,950	-----	a1,150	720	-----
Total	21,492	30,244	425,420	47,550	120,960	127,280	217,040	96,260	34,700	47,276	23,762	17,687
Mean	693	1,008	13,720	4,760	4,320	4,106	7,235	3,105	1,157	1,525	767	590
Cfs/m	0.197	0.287	3.91	1.36	1.23	1.17	2.06	0.885	0.330	0.434	0.219	0.168
In.	0.23	0.32	4.51	1.56	1.28	1.35	2.30	1.02	0.37	0.50	0.25	0.19
Calendar year 1953: Max			44,100	Min	558	Mean	6,457	Cfs/m	1.84	In.	24.96	
Water year 1953-54: Max			26,400	Min	530	Mean	3,588	Cfs/m	1.02	In.	13.88	

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage, weather records, and once-daily readings of U. S. Weather Bureau gage at Beaumont, about 14 miles upstream.

Chunky Creek near Chunky, Miss.

Location.--Lat 32°20', long 88°54', in SW $\frac{1}{4}$ sec. 30, T. 6 N., R. 14 E., Choctaw meridian, on right bank at downstream side of bridge on U. S. Highway 80, 2,500 ft upstream from Illinois Central Railroad bridge, $1\frac{1}{4}$ miles east of Chunky, $3\frac{1}{4}$ miles upstream from Tallahatta Creek, and $5\frac{1}{2}$ miles downstream from Concobona Creek.

Drainage area.--368 sq mi.

Records available.--August 1938 to September 1954.

Gage.--Water-stage recorder. Prior to Mar. 24, 1939, wire-weight gage at same site and datum.

Average discharge.--16 years, 483 cfs.

Extremes.--Maximum discharge during year, 3,130 cfs Mar. 30 (gage height, 9.61 ft); minimum, 1.6 cfs Sept. 28-30 (gage height, 2.09 ft).
1938-54: Maximum discharge, 30,700 cfs Jan. 7, 1950 (gage height, 25.08 ft); minimum, that of Sept. 28-30, 1954.

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

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 7 to July 6)

2.0	0.6	3.2	97
2.1	1.7	3.5	167
2.2	3.2	4.0	300
2.3	6.4	5.0	674
2.5	16	7.0	1,630
2.7	29	10.0	3,370
2.9	49		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.2	9.6	*33	211	540	190	550	207	66	15	12	5.8
2	9.6	12	*34	157	440	196	400	632	57	11	14	4.8
3	9.6	13	51	125	280	188	330	748	*65	9.6	11	4.2
4	10	13	286	112	240	196	285	1,520	150	8.2	9.2	3.2
5	10	14	275	101	220	190	253	1,690	105	14	8.2	2.9
6	8.7	14	193	95	200	164	229	1,060	60	195	7.3	2.8
7	7.8	12	154	88	200	147	211	369	50	125	6.9	2.6
8	7.3	12	114	83	180	142	209	240	45	*80	7.3	2.6
9	7.8	12	158	79	180	137	267	177	41	97	6.1	8.2
10	7.8	14	470	86	180	130	303	157	38	312	5.8	*6.1
11	7.8	14	410	201	160	132	224	196	34	343	5.1	4.2
12	7.8	15	550	180	160	128	232	315	32	116	*4.5	3.2
13	7.3	17	530	140	150	123	327	365	31	69	5.8	2.8
14	7.3	19	289	120	150	147	269	498	29	44	3.5	2.6
15	6.9	20	196	120	150	144	208	346	28	34	3.2	2.8
16	6.9	21	150	460	150	123	1,350	222	28	27	3.2	*2.6
17	6.4	21	116	600	150	*110	2,370	167	28	68	3.2	2.9
18	6.1	26	95	480	*147	105	2,720	135	28	153	3.0	2.9
19	5.8	24	83	300	140	275	1,970	116	24	99	2.9	2.6
20	5.8	27	81	260	355	844	510	101	26	97	2.9	2.2
21	6.4	31	84	240	653	716	*330	92	26	57	13	2.4
22	6.4	39	97	440	478	321	272	79	24	38	52	2.6
23	7.3	93	97	520	261	237	297	74	31	29	42	2.4
24	6.9	79	86	460	232	203	327	68	23	23	20	2.2
25	6.9	62	79	320	235	188	327	63	21	19	22	2.0
26	6.9	48	71	280	206	282	245	*60	18	19	14	2.0
27	6.9	58	69	260	177	1,020	190	82	18	16	11	*1.8
28	*6.9	34	84	240	172	2,200	167	103	16	16	8.2	1.7
29	8.7	32	*235	220	-	2,890	164	147	14	15	6.9	1.6
30	11	31	356	320	-----	2,950	164	125	16	14	6.9	1.6
31	10	-----	300	580	-----	1,430	-----	83	-----	12	7.3	-----
Total	240.2	816.6	5,826	7,878	6,737	16,248	15,642	10,217	1,172	2,174.8	326.4	92.3
Mean	7.75	27.2	188	254	241	524	521	330	39.1	70.2	10.5	3.08
Cfs/m	0.021	0.074	0.511	0.690	0.655	1.42	1.42	0.897	0.106	0.191	0.029	0.0084
In.	0.02	0.08	0.59	0.80	0.68	1.64	1.58	1.03	0.12	0.22	0.03	0.009

Calendar year 1953: Max 7,890 Min 5.8 Mean 460 Cfs/m 1.25 In. 16.99

Water year 1953-54: Max 2,950 Min 1.6 Mean 185 Cfs/m 0.503 In. 6.80

Peak discharge (base, 5,000 cfs).--No peak above base.

* Discharge measurement made on this day.

Note.--No gage-height record Jan. 12 to Feb. 17; discharge estimated on basis of weather records and records for other stations in basin.

PASCAGOULA RIVER BASIN

Sawashee Creek at Meridian, Miss.

Location.--Lat 32°22'25", long 88°40'40", in SE $\frac{1}{4}$ sec. 8, T. 6 N., R. 16 E., Choctaw meridian, near right bank on downstream side of bridge on U. S. Highways 80 and 11 at eastern city limits of Meridian, 0.2 mile downstream from Southern Railway System bridge and 9 miles upstream from mouth.

Drainage area.--51.9 sq mi.

Records available.--October 1950 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 308.95 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Prior to Dec. 19, 1950, wire-weight gage at same site and datum.

Extremes.--Maximum discharge during year, 1,000 cfs Mar. 28 (gage height, 11.23 ft); minimum, 0.3 cfs Sept. 28, 29.

1950-54: Maximum discharge, 8,030 cfs Mar. 28, 1951 (gage height, 20.09 ft); minimum regulated, 0.2 cfs Oct. 28, 1952; minimum unregulated, that of Sept. 28, 29, 1954.

Maximum stage known since at least 1900, 26.5 ft in February 1936, at site 500 ft upstream at present datum, from information by Southern Railway System.

Flood of Mar. 31, 1949, reached a stage of 23.6 ft, at site 500 ft upstream at present datum, from information by Southern Railway System.

Remarks.--Records good except those below 5 cfs, which are fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1-11)

Oct. 1 to Dec. 3

Dec. 4 to Sept. 30

0.6	0.2	1.5	20	0.5	0.3	1.0	6.6	5.0	232
.8	2.7	2.0	40	.6	.8	1.5	20	7.0	406
1.0	6.4	3.0	95	.7	1.7	2.0	40	9.0	680
				.8	3.0	3.0	95	10.0	820

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	1.9	*2.7	46	64	60	67	18	5.8	1.8	0.8	0.4
2	1.8	1.8	2.4	40	55	42	58	19	5.3	1.7	.8	.4
3	2.3	1.8	61	35	48	50	50	44	7.6	1.7	.8	.4
4	2.4	1.8	69	30	40	39	44	54	8.4	3.2	.7	.4
5	2.4	2.0	18	28	35	34	38	27	4.9	2.9	.7	.4
6	2.0	2.0	95	25	32	31	34	20	4.2	3.3	.7	.7
7	1.2	1.9	29	22	29	28	31	16	3.8	2.2	.7	.8
8	1.0	1.9	14	21	27	27	34	14	3.7	*2.1	.7	.5
9	1.2	1.9	120	21	26	25	34	13	3.5	12	.7	*.6
10	2.3	1.8	74	26	25	24	26	14	3.0	5.7	.7	.5
11	5.0	1.8	225	35	25	23	40	22	4.9	2.7	.6	.4
12	5.0	1.9	550	*25	22	22	59	24	4.0	2.2	.6	.4
13	3.4	1.9	98	21	20	32	35	116	3.0	1.7	*.6	.4
14	2.2	1.9	86	20	20	43	27	62	2.7	1.5	.5	.4
15	2.2	2.0	52	54	21	25	38	35	2.5	1.4	.6	.4
16	2.0	2.0	38	414	21	20	*750	25	2.2	4.7	.9	*.4
17	1.8	2.2	29	110	21	20	291	20	6.2	18	.8	.6
18	1.5	2.2	23	69	19	*20	110	17	20	6.6	.6	.9
19	1.7	2.0	21	56	*19	130	73	16	6.0	2.7	.5	.7
20	1.8	4.6	22	51	100	98	56	14	3.5	2.0	1.9	.5
21	1.9	3.6	24	123	62	53	45	12	5.0	1.4	1.9	.5
22	1.9	9.0	44	197	35	40	45	g11	6.4	1.2	.7	.6
23	2.0	6.9	37	116	31	35	38	g10	3.7	1.2	.6	.4
24	2.6	3.9	24	77	45	32	56	g9.5	2.9	.9	*.9	.4
25	2.2	3.9	22	62	33	32	41	g8.8	2.5	1.2	.7	.4
26	1.9	3.0	19	54	27	64	29	*g8.1	2.2	1.2	.6	.4
27	3.4	3.0	18	50	25	469	24	8.8	2.5	1.0	.6	.4
28	*3.2	2.4	45	42	120	648	22	10	6.9	.9	.5	.3
29	2.3	2.6	141	37	176	21	8.6	5.5	*.8	.6	.6	.7
30	1.9	3.0	107	114	-----	116	19	7.0	2.4	.8	.6	.4
31	1.8	-----	62	107	-----	89	-----	6.2	-----	.8	.4	-----
Total	70.2	82.7	2,170.1	2,128	1,047	2,537	2,235	690.0	143.3	91.5	23.0	14.3
Mean	2.26	2.76	70.0	68.6	37.4	61.8	74.5	22.3	4.78	2.95	0.74	0.48
Cfsm	0.044	0.053	1.35	1.32	0.721	1.58	1.44	0.430	0.092	0.057	0.014	0.009
In.	0.05	0.06	1.56	1.52	0.75	1.82	1.60	0.49	0.10	0.07	0.02	0.01

Calendar year 1953: Max 1,110 Min 1.0 Mean 54.6 Cfsm 1.05 In. 14.27
Water year 1953-54: Max 750 Min 0.3 Mean 30.8 Cfsm 0.593 In. 8.05

Peak discharge (base, 1,300 cfs).--No peak above base.

* Discharge measurement made on this day.

g Computed from twice-daily wire-weight-gage readings.

Chicasawhay River at Enterprise, Miss.

Location.--Lat 32°10', long 88°49', in NW¹ sec. 24, T. 4 N., R. 14 E., Choctaw meridian, on right bank at downstream side of bridge on State Highway 513 in Enterprise, half a mile downstream from confluence of Chunky and Okatibbee Creeks and at mile 206.0 (by U. S. Weather Bureau).

Drainage area.--913 sq mi.

Records available.--August 1938 to September 1954. Gage-height records collected at same site since 1904 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 212.62 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Prior to Jan. 6, 1939, U. S. Weather Bureau staff gage at same site and datum.

Average discharge.--16 years, 1,233 cfs.

Extremes.--Maximum discharge during year, 5,840 cfs Mar. 29 (gage height, 15.36 ft); minimum, 18 cfs Sept. 25-30; minimum gage height, -0.98 ft Sept. 26-30.

1938-54: Maximum discharge 33,500 cfs Jan. 8, 1950 (gage height, 33.10 ft); minimum, that of Sept. 25-30, 1954.

Maximum stage known, 37.2 ft in April 1900, from floodmark (from reports of U. S. Weather Bureau).

Revisions.--The minimum discharge for the water year 1953 has been revised to 23 cfs Oct. 20-24, and the minimum gage height observed has been revised to -0.97 ft Oct. 22, superseding figures published in WSP 1274.

Remarks.--Records good except those for periods of doubtful or no gage-height record and those for periods based on wire-weight-gage readings, which are fair.

Revisions.--Revised figures of discharge, in cubic feet per second, for the low-water period in the water year 1953, superseding those published in WSP 1274, are given herewith:

Date	Discharge	Date	Discharge	Date	Discharge
1952		1952-Con.		1952-Con.	
Oct. 7	24	Oct. 13	26	Oct. 19	24
8	24	14	26	20	23
9	24	15	26	21	23
10	25	16	25	23	23
11	25	17	25	24	23
12	25	18	25	25	24

Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
October 1952.....	801	35	23	25.8	0.028	0.03
Calendar year 1952..	-	3,530	23	413	.452	6.15
Water year 1952-53..	-	12,600	23	1,076	1.18	15.99

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	46	82	734	2,780	678	3,280	413	229	70	51	30
2	42	45	*81	596	2,270	581	1,900	734	200	70	51	27
3	37	45	249	503	1,540	581	1,080	1,080	186	70	48	25
4	34	46	926	441	987	568	896	1,940	260	72	45	24
5	34	51	692	418	836	541	778	2,540	290	110	39	26
6	38	55	1,020	372	720	491	692	2,230	202	250	38	28
7	a38	55	650	350	636	456	622	1,370	156	290	37	30
8	a37	52	394	340	582	434	594	734	140	227	36	52
9	37	51	862	330	542	413	636	541	128	*340	35	*32
10	a34	49	1,270	340	516	392	720	468	119	413	33	29
11	31	53	1,450	453	503	392	650	516	110	554	33	26
12	29	54	*609	*609	478	382	720	650	121	355	*36	26
13	29	54	2,050	*568	466	392	896	1,270	109	188	33	24
14	37	56	1,210	453	441	413	807	1,410	99	130	32	22
15	33	60	807	441	429	424	608	1,270	93	98	30	23
16	30	60	609	2,190	429	413	*2,920	866	92	84	30	24
17	30	63	490	2,940	418	360	5,100	594	88	238	33	25
18	29	67	418	2,500	*418	*330	5,100	479	119	276	32	24
19	31	75	372	1,680	406	604	4,560	413	123	231	28	31
20	29	146	361	1,020	826	1,460	3,150	360	90	270	27	26
21	26	140	372	1,020	1,340	1,410	1,940	320	85	233	33	22
22	28	154	478	2,080	1,140	926	987	290	160	175	78	21
23	29	216	466	2,660	778	650	807	270	108	114	103	20
24	31	190	383	2,270	720	554	866	240	108	90	74	19
25	33	168	350	1,510	664	503	966	220	88	98	59	18
26	33	142	319	1,080	608	594	778	208	80	70	56	18
27	34	113	309	926	528	2,290	608	*225	75	67	47	*18
28	*39	98	466	836	720	5,400	503	290	81	60	38	18
29	40	91	1,080	720	-	5,720	456	300	77	*58	33	18
30	42	89	1,270	1,440	-----	5,500	434	392	72	62	39	18
31	44	-----	987	2,860	-----	4,740	-----	290	-----	56	36	-----
Total	1,048	2,584	23,433	34,680	22,721	38,602	44,044	22,923	3,888	5,419	1,323	744
Mean	33.3	86.1	758	1,119	911	1,245	1,468	739	130	175	42.7	24.8
Cfsm	0.037	0.094	0.830	1.23	0.888	1.36	1.61	0.809	0.142	0.192	0.047	0.027
In.	0.04	0.11	0.96	1.41	0.93	1.57	1.79	0.93	0.16	0.22	0.05	0.03
Calendar year 1953: Max	12,600	Min	26	Mean	1,121	Cfsm	1.23	In.	16.68			
Water year 1953-54: Max	5,720	Min	18	Mean	552	Cfsm	0.605	In.	8.20			

Peak discharge (base, 10,000 cfs).--No peak above base.

* Discharge measurement made on this day.

a Doubtful or no gage-height record; discharge interpolated.

Note.--Discharge Oct. 1-6, 11-27, Jan. 22-24, Jan. 30 to Feb. 18, July 28 to Aug. 21, Aug. 25 to Sept. 30 computed from once-daily wire-weight-gage readings.

Chickasawhay River at Leakesville, Miss.

Location.--Lat 31°08', long 88°33', in SW¹/₄ sec. 12, T. 2 N., R. 6 W., St. Stephens meridian, on left bank at downstream side of bridge on State Highway 63, half a mile southeast of Leakesville, 2 miles upstream from Foulk ditch, and 25 miles upstream from confluence with Leaf River.

Drainage area.--2,680 sq mi, approximately.

Records available.--September 1938 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 51.13 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Oct. 19, 1939, wire-weight gage at same site and datum.

Average discharge.--16 years, 3,906 cfs.

Extremes.--Maximum discharge during year, 16,000 cfs Dec. 13 (gage height, 23.52 ft); minimum, 210 cfs Sept. 29, 30 (gage height, 6.91 ft).
1938-54: Maximum discharge, 39,600 cfs Apr. 29, 1944 (gage height, 30.13 ft); minimum, 210 cfs Oct. 24-26, 1952, Sept. 29, 30, 1954; minimum gage height, that of Sept. 29, 30, 1954.

Maximum stage known, 34.12 ft Apr. 12, 1938; a discharge of 65,600 cfs was measured by Corps of Engineers on preceding day (gage height, 33.36 ft).

Remarks.--Records good except those for period of no gage-height record, which are fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 13

Dec. 14 to Sept. 30

7.4	265	14.0	3,480	6.9	210	9.0	727
8.0	379	18.0	7,350	7.5	311	11.0	1,610
9.0	643	21.0	11,500	8.0	430	14.0	3,460
11.0	1,530	24.0	17,000				

Note.--Same as preceding table above 14.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	350	284	544	5,250	3,320	2,770	10,800	1,710	2,230	456	496	*261
2	341	284	560	5,050	4,760	2,530	10,300	1,610	1,710	456	483	252
3	341	284	*575	4,490	5,350	2,590	9,970	1,510	1,460	483	456	252
4	332	294	5,280	3,780	5,250	2,530	9,520	1,510	1,160	483	430	252
5	322	312	9,970	3,180	4,580	2,350	6,910	1,810	990	552	418	244
6	322	312	8,570	*2,830	3,460	2,230	3,780	2,290	892	612	405	236
7	a320	322	11,000	2,590	2,770	2,170	2,900	2,770	835	*567	405	236
8	a320	322	11,600	2,410	2,410	2,050	2,580	3,110	835	510	390	236
9	a320	322	9,970	2,290	*2,170	1,870	2,350	1,770	798	693	356	270
10	a300	322	10,100	2,170	2,050	1,810	2,170	2,170	727	2,410	344	252
11	a300	322	12,800	2,170	1,930	1,760	2,050	1,660	676	3,390	*333	229
12	a300	312	15,100	2,170	1,870	1,710	1,990	1,510	660	2,230	322	229
13	a300	312	16,000	2,110	1,810	1,660	1,990	1,870	644	1,710	322	229
14	a300	303	16,000	2,170	1,760	1,710	1,930	2,410	612	1,360	311	229
15	a300	303	15,900	2,170	1,710	2,110	1,930	3,180	582	1,090	311	222
16	a280	312	15,300	2,170	1,660	*1,990	5,070	3,780	628	873	300	236
17	a280	312	12,600	2,410	1,660	1,760	12,100	3,180	597	727	290	244
18	a280	312	8,190	3,620	1,660	1,660	13,700	2,590	582	872	290	244
19	a280	312	5,750	4,760	1,660	1,760	*13,100	2,050	567	2,170	280	236
20	a280	389	4,760	5,150	2,350	3,090	11,600	1,760	612	1,560	*280	236
21	*274	463	4,490	4,950	5,250	4,760	9,520	1,560	660	1,260	300	236
22	274	720	4,760	4,130	5,250	4,950	8,310	1,410	644	1,070	311	236
23	274	880	5,550	3,390	4,870	4,310	7,350	1,260	644	873	290	*229
24	274	900	7,130	3,320	4,760	3,540	4,950	1,110	612	780	290	222
25	274	820	7,130	3,950	5,950	2,770	3,250	1,050	628	710	280	222
26	274	780	5,350	4,310	5,550	2,350	2,830	*990	597	628	290	222
27	274	720	4,040	4,040	4,130	2,350	2,650	932	538	628	311	216
28	274	643	3,590	3,320	3,180	4,860	2,470	932	524	582	311	216
29	274	575	3,700	2,770	-	8,070	2,170	1,010	496	567	290	216
30	284	544	4,130	2,330	-----	9,970	1,930	1,980	470	567	280	216
31	284	---	4,670	2,650	-----	10,800	-----	2,650	-----	524	270	---
Total	9,202	13,292	245,009	102,240	92,930	100,840	172,180	60,134	23,610	31,453	10,435	7,050
Mean	297	443	7,904	3,298	3,319	3,253	5,739	1,940	787	1,015	337	235
Cfs/m	0.111	0.165	2.95	1.23	1.24	1.21	2.14	0.724	0.294	0.379	0.126	0.088
In.	0.13	0.18	3.40	1.42	1.29	1.40	2.39	0.83	0.33	0.44	0.14	0.10

Calendar year 1953: Max 19,200 Min 274 Mean 3,937 Cfs/m 1.47 In. 19.93
Water year 1953-54: Max 16,000 Min 210 Mean 2,379 Cfs/m 0.888 In. 12.05

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of recorded range in stage, weather records, and records for other stations in basin.

Pascagoula River at Merrill, Miss.

Location.--Lat 30°59', long 88°44', in SW $\frac{1}{4}$ sec. 18, T. 1 S., R. 7 W., St. Stephens meridian, near right bank on downstream side of bridge on old State Highway 15, half a mile downstream from confluence of Leaf and Chickasawhay Rivers, half a mile west of Merrill, and at mile 88.0 (by U. S. Weather Bureau).

Drainage area.--6,600 sq mi, approximately.

Records available.--December 1930 to September 1954. Gage-height records collected in same vicinity since 1904 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 26.25 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Prior to Dec. 6, 1934, staff gage at same site and datum.

Average discharge.--24 years, 9,825 cfs.

Extremes.--Maximum discharge during year, 44,000 cfs Dec. 15 (gage height, 22.18 ft); minimum, 782 cfs Sept. 29, 30 (gage height, 2.37 ft).
1930-54: Maximum discharge, 154,000 cfs Apr. 13, 1938 (gage height, 29.71 ft); minimum, 696 cfs Nov. 3, 1936; minimum gage height, 2.37 ft Nov. 3, 1936, Sept. 29, 30, 1954.

Maximum stage known, 32.5 ft in April 1900 (from information by U. S. Weather Bureau). Flood of July 9, 1916, reached a stage of 31 ft, present datum (from reports of U. S. Weather Bureau).

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

2.4	805	10.0	9,280
3.0	1,120	14.0	16,000
4.0	1,750	18.0	25,000
5.0	2,720	20.0	32,000
7.0	5,240	23.0	50,800

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,300	1,090	1,790	13,900	7,460	8,300	22,700	4,720	4,850	1,510	1,680	*1,040
2	1,270	1,090	1,850	13,900	9,420	7,190	23,500	4,200	4,330	1,510	1,580	1,010
3	1,270	1,090	*2,000	13,000	10,900	6,800	23,300	3,940	3,680	1,540	1,540	1,010
4	1,240	1,120	14,200	11,600	11,400	6,540	20,800	4,200	3,070	1,540	1,540	982
5	1,240	1,240	28,400	10,100	10,600	6,150	17,800	4,980	2,660	1,510	1,510	955
6	1,210	1,300	31,600	*8,860	9,280	5,890	13,200	5,760	2,390	1,540	1,480	950
7	1,210	1,270	32,500	7,880	7,600	5,760	8,440	6,410	2,190	*1,610	1,450	880
8	1,180	1,240	32,000	7,060	6,410	5,500	6,800	6,800	2,090	1,610	1,380	855
9	1,180	1,240	29,600	6,870	5,760	5,240	6,020	6,540	2,000	2,040	1,300	855
10	1,150	1,210	28,400	6,280	*5,370	4,850	5,500	5,500	1,910	3,810	1,220	855
11	1,150	1,210	30,800	6,280	5,110	4,720	5,110	4,460	1,790	7,060	1,160	855
12	1,150	1,180	37,000	6,410	4,850	4,460	4,850	3,810	1,750	7,060	*1,090	855
13	1,120	1,150	41,500	6,280	4,590	4,330	4,850	3,810	1,720	5,630	1,060	855
14	1,120	1,150	43,300	6,280	4,460	4,460	4,720	6,280	1,680	4,590	1,060	830
15	1,120	1,150	44,000	6,280	4,460	4,980	4,590	9,560	1,610	3,810	1,040	830
16	1,120	1,150	42,000	6,280	4,330	*5,110	9,240	11,800	1,610	2,950	1,010	855
17	1,090	1,150	38,500	6,800	4,200	4,720	23,500	11,900	1,640	2,290	1,010	930
18	1,090	1,150	31,600	9,280	4,200	4,330	29,800	10,400	1,680	2,090	982	955
19	1,090	1,150	23,700	11,400	4,200	4,330	31,200	8,720	1,640	3,550	955	955
20	*1,090	1,480	16,800	12,100	6,800	6,670	*29,200	6,930	1,610	4,590	955	930
21	1,090	2,500	14,200	12,100	15,400	8,860	25,900	5,370	1,680	3,940	982	905
22	1,090	4,020	14,900	11,800	15,600	10,800	22,300	4,590	1,750	3,190	1,120	905
23	1,090	5,240	15,800	10,600	13,500	10,800	18,200	3,940	1,680	2,560	1,150	*880
24	1,090	3,940	18,200	9,000	12,500	9,700	14,700	3,430	1,750	2,190	1,060	855
25	1,060	3,310	19,700	8,860	14,000	8,350	11,600	3,070	2,000	2,000	1,010	830
26	1,060	2,850	17,800	9,700	14,200	7,060	9,140	*2,830	2,090	1,870	982	830
27	1,090	2,440	14,200	10,000	12,500	6,410	7,740	2,780	1,750	1,830	982	805
28	1,090	2,140	11,800	9,140	9,850	11,600	6,670	2,720	1,610	1,830	1,040	805
29	1,090	1,910	11,900	7,740	-	16,800	6,020	2,610	1,540	1,750	1,060	805
30	1,060	1,830	13,200	6,800	-----	19,900	5,240	3,010	1,510	1,830	1,060	805
31	1,060	-----	13,500	6,540	-----	21,800	-----	4,590	-----	1,750	1,040	-----
Total	35,260	53,970	716,620	278,920	238,750	242,410	421,930	169,660	63,260	86,590	36,488	26,647
Mean	1.137	1.799	23,120	8,997	8,527	7,820	14,060	5,473	2,109	2,793	1,177	888
Cfsm	0.172	0.273	3.50	1.36	1.29	1.18	2.13	0.829	0.320	0.423	0.178	1.134
In.	0.20	0.30	4.04	1.57	1.35	1.37	2.38	0.96	0.36	0.49	0.21	0.15
Calendar year 1953: Max	54,100	Min	1,060	Mean	10,760	Cfsm	1.63	In.	22.13			
Water year 1953-54: Max	44,000	Min	805	Mean	6,494	Cfsm	0.984	In.	13.38			

* Discharge measurement made on this day.

Escatawpa River near Wilmer, Ala.

Location.--Lat 30°52', long 88°25', in NW¹/₄ sec. 19, T. 2 S., R. 4 W., on downstream side of center main channel pier of bridge on State Highway 42 at Alabama-Mississippi State line, a quarter of a mile upstream from Gulf, Mobile and Ohio Railroad bridge, half a mile upstream from Rocky Creek, and 4 miles northwest of Wilmer.

Drainage area.--506 sq mi.

Records available.--August 1945 to September 1954.

Gage.--Water-stage recorder. Altitude of gage is 60 ft (from topographic map).

Average discharge.--9 years, 987 cfs.

Extremes.--Maximum discharge during year, 5,920 cfs Dec. 8, 14 (gage height, 15.2 ft); minimum, 37 cfs Sept. 2, 3, 4 (gage height, 2.21 ft).
1945-54: Maximum discharge, 35,000 cfs Nov. 28, 1948 (gage height, 24.0 ft); from rating curve extended above 16,000 cfs; minimum, that of Sept. 2, 3, 4, 1954.

Remarks.--Records good.

Cooperation.--Gage-height record and 14 discharge measurements furnished by Corps of Engineers.

Rating table, water year 1953-54 (gage height, in feet, and
discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Dec. 4, Jan. 7 to
Feb. 20, Mar. 3-21, Apr. 27 to June 15)

2.2	33	6.0	1,010
2.7	83	10.0	2,800
3.3	185	16.0	6,560
4.0	345		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	125	81	236	1,400	398	786	1,440	225	110	100	79	*38
2	118	81	229	1,150	428	667	1,160	191	94	133	70	38
3	110	81	238	1,040	473	568	911	177	83	240	64	38
4	108	79	451	949	458	443	684	189	77	216	63	38
5	104	163	1,850	856	413	345	488	181	71	156	60	38
6	98	218	3,670	752	370	333	358	169	69	109	57	38
7	98	177	*5,100	616	321	370	314	*148	67	109	55	40
8	98	150	*5,760	536	285	345	278	137	*66	104	54	40
9	97	139	5,580	488	266	309	251	132	64	110	53	46
10	96	126	4,000	458	256	280	229	*125	61	139	50	60
11	93	117	3,300	488	242	256	220	120	59	137	47	62
12	89	112	4,960	473	229	238	*205	114	58	135	*46	51
13	86	109	5,760	458	220	229	189	112	73	161	45	46
14	82	106	5,840	*428	216	225	179	112	*82	*135	44	44
15	*79	104	5,240	428	*212	209	165	109	71	108	43	40
16	81	106	4,180	428	212	207	236	109	75	102	45	62
17	82	*106	2,900	413	216	251	428	104	78	135	43	130
18	82	108	2,080	384	207	321	1,020	102	104	222	42	125
19	82	109	1,620	370	207	398	2,550	178	161	384	*41	102
20	82	682	1,490	370	382	504	3,250	384	126	229	41	79
21	81	684	1,720	370	892	568	2,350	*256	104	193	46	68
22	77	1,040	1,580	473	1,040	769	1,200	214	87	139	56	80
23	75	1,440	1,620	616	968	838	930	139	77	104	58	55
24	72	838	1,490	718	968	892	911	112	81	103	61	51
25	71	600	1,360	701	1,080	786	1,120	103	270	141	59	49
26	70	428	1,200	650	*1,080	701	769	97	413	132	53	48
27	93	333	1,080	584	1,010	803	584	97	333	110	48	*47
28	104	275	1,040	488	911	1,800	488	108	207	118	47	47
29	94	238	1,360	398	-	2,080	358	125	146	114	46	47
30	84	220	1,580	370	-	1,980	280	132	120	110	44	46
31	81	-	1,670	370	-	1,800	-	128	-	94	40	-
Total	2,792	9,050	79,984	18,233	13,960	20,301	23,545	4,627	3,487	4,522	1,600	1,673
Mean	90.1	302	2,580	588	499	655	785	149	116	146	51.6	55.8
Cfs/m	0.178	0.597	5.10	1.16	0.986	1.29	1.55	0.294	0.229	0.289	0.102	0.110
In.	0.21	0.67	5.88	1.34	1.03	1.49	1.73	0.34	0.26	0.33	0.12	0.12

Calendar year 1953: Max 5,920 Min 70 Mean 971 Cfs/m 1.92 In. 26.05

Water year 1953-54: Max 5,840 Min 38 Mean 503 Cfs/m 0.994 In. 13.52

Peak discharge (base, 5,000 cfs).--Dec. 8 (4 p.m.) 5,920 cfs (15.2 ft); Dec. 14 (6 a.m.) 5,920 cfs (15.2 ft).

* Discharge measurement made on this day.

Tuxachanie Creek near Biloxi, Miss.

Location.--Lat 30°31', long 88°55', in NW $\frac{1}{4}$ sec. 20, T. 6 S., R. 9 W., St. Stephens meridian, on downstream side of right pier of bridge on State Highway 57, 2 $\frac{1}{2}$ miles upstream from mouth, 3 $\frac{1}{2}$ miles downstream from Hog Branch, and 7 miles north of city limits of Biloxi.

Drainage area.--89.6 sq mi.

Records available.--October 1952 to September 1954.

Gage.--Water-stage recorder.

Extremes.--Maximum discharge during year, 2,110 cfs Dec. 12 (gage height, 9.21 ft); minimum, 1.6 cfs Sept. 4, 5 (gage height, 0.77 ft).
1952-54: Maximum discharge, 3,400 cfs June 28, 1953 (gage height, 12.26 ft); minimum, that of Sept. 4, 5, 1954.

Remarks.--Records good except those below 5 cfs, which are fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Nov. 23				Nov. 24 to Sept. 30			
0.9	2.5	2.0	72	0.7	1.5	2.0	75
1.1	8.0	2.5	156	.9	4.7	3.0	276
1.3	16	3.0	262	1.1	10	5.0	788
1.5	26	3.5	379	1.3	17	7.0	1,360
1.7	39			1.5	26	9.0	2,040
				1.8	48		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	4.8	24	186	37	28	58	12	4.9	7.0	22	1.8
2	7.1	5.0	*22	127	35	25	40	10	4.5	5.2	15	1.9
3	7.7	5.0	22	103	31	22	32	11	4.0	5.2	11	1.8
4	7.7	6.8	27	89	27	21	27	18	3.3	5.4	8.5	1.8
5	7.1	14	144	123	24	20	22	36	3.1	7.3	7.0	1.8
6	6.2	17	1,120	142	23	44	21	22	2.9	9.7	6.5	1.9
7	5.6	13	815	*99	22	148	19	17	2.9	8.8	5.4	1.9
8	5.3	12	326	72	21	110	17	13	2.9	*7.3	4.5	1.9
9	5.0	16	201	60	20	60	16	10	3.4	10	4.2	2.3
10	5.0	15	237	62	*20	42	15	9.4	6.1	14	3.4	2.2
11	5.0	12	485	106	20	35	14	8.5	4.5	15	3.1	2.3
12	5.0	9.6	*1,960	112	19	31	13	8.2	3.6	13	3.1	2.2
13	5.0	8.8	1,060	77	18	27	14	7.9	4.2	15	*2.6	2.1
14	4.5	8.0	815	60	18	26	13	7.6	4.7	12	2.5	1.9
15	4.5	7.7	464	55	19	*25	12	7.3	4.3	9.4	2.2	1.8
16	4.8	7.4	252	54	21	22	20	7.0	4.0	7.6	2.2	8.4
17	4.8	7.4	180	53	21	20	100	6.5	3.4	16	2.2	20
18	4.8	7.4	135	48	21	18	96	6.1	3.6	34	2.2	24
19	4.5	8.5	112	45	20	20	39	5.6	6.1	29	2.1	17
20	4.5	62	267	42	25	69	27	5.2	12	19	2.2	11
21	*4.5	148	578	41	69	77	*20	4.7	10	12	2.1	8.5
22	4.5	201	401	47	74	44	17	4.7	7.0	7.9	3.1	*7.0
23	4.2	351	338	85	44	33	38	4.5	6.1	6.3	3.1	5.6
24	4.2	180	226	75	45	27	106	4.5	7.9	15	3.4	4.7
25	4.0	92	148	56	69	24	52	4.5	7.0	33	3.1	4.5
26	4.0	58	118	48	56	33	36	*4.5	5.8	72	2.6	4.3
27	4.0	42	101	45	39	84	24	*4.7	5.8	79	2.3	4.2
28	4.2	33	110	40	33	351	19	5.4	6.3	98	2.3	4.0
29	4.2	27	237	37	-	296	16	6.5	12	106	2.2	3.8
30	4.2	24	301	33	-----	142	13	5.8	11	70	2.1	3.6
31	4.5	-----	298	34	-----	89	-----	5.2	-----	38	1.9	-----
Total	157.1	1,403.4	11,524	2,256	891	2,013	956	283.3	167.3	787.1	140.1	160.2
Mean	5.07	46.8	372	72.8	31.8	64.9	31.9	9.14	5.58	25.4	4.52	5.34
Cfs/m	0.057	0.522	4.15	0.812	0.355	0.724	0.356	0.102	0.062	0.283	0.050	0.060
In.	0.07	0.58	4.78	0.94	0.37	0.84	0.40	0.12	0.07	0.33	0.06	0.07

Calendar year 1953: Max 3,150 Min 4.0 Mean 153 Cfs/m 1.71 In. 23.08
Water year 1953-54: Max 1,960 Min 1.8 Mean 56.8 Cfs/m 0.634 In. 8.63

Peak discharge (base, 2,000 cfs).--Dec. 12 (5:30 a.m.) 2,110 cfs (9.21 ft).

* Discharge measurement made on this day.

BILOXI RIVER BASIN

Biloxi River at Wortham, Miss.

Location.--Lat 30°33', long 89°07', in SE $\frac{1}{4}$ sec. 31, T. 5 S., R. 11 W., St. Stephens meridian, on downstream side of right main pier of bridge on U. S. Highway 49, three-quarters of a mile east of Wortham, 1 mile downstream from Illinois Central Railroad bridge, 1 mile upstream from Saucier Creek, and 4 miles north of Lyman.

Drainage area.--98.3 sq mi.

Records available.--October 1952 to September 1954.

Gage.--Water-stage recorder.

Extremes.--Maximum discharge during year, 2,470 cfs Dec. 12 (gage height, 10.28 ft); minimum, 1.9 cfs Sept. 2-6, 14, 15; minimum gage height, 1.70 ft Sept. 14, 15, 28-30.
1952-54: Maximum discharge, 5,880 cfs Apr. 25, 1953 (gage height, 16.84 ft); minimum, that of Sept. 2-6, 14, 15, 1954.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

1.7	1.5	3.0	200
1.8	5.9	3.5	311
1.9	12	4.0	432
2.0	21	5.0	682
2.3	64	7.0	1,220
2.6	118	9.0	1,940

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.9	4.6	44	196	67	48	83	12	5.5	9.0	50	2.4
2	6.5	4.6	*40	156	62	39	62	11	5.0	7.1	23	1.9
3	6.5	4.6	36	138	53	34	48	13	5.0	5.5	16	1.9
4	5.9	5.9	299	126	45	33	39	35	4.6	5.0	11	1.9
5	5.9	12	943	217	42	33	33	62	4.6	9.2	9.0	1.9
6	5.5	13	1,640	185	38	128	32	40	4.6	120	6.5	4.6
7	5.5	13	1,190	*128	33	202	28	23	4.6	69	5.9	4.1
8	4.6	13	544	103	31	118	25	16	4.6	*54	5.9	5.9
9	4.6	14	350	94	31	78	21	13	4.6	127	5.5	5.9
10	4.6	14	557	107	*29	62	58	11	4.6	1,130	5.0	5.0
11	4.6	12	898	234	28	51	94	10	4.1	420	4.6	3.7
12	4.6	11	*1,790	179	28	45	62	9.6	4.1	126	4.1	2.8
13	4.1	10	1,110	118	26	42	38	9.6	5.5	59	*3.7	2.4
14	4.1	8.9	780	97	23	42	32	9.6	10	34	3.7	2.4
15	4.1	8.3	470	94	26	*40	22	9.6	5.9	22	3.7	1.9
16	4.1	7.7	300	99	45	34	214	9.0	4.6	19	5.5	8.3
17	3.7	7.1	221	108	46	29	734	9.0	6.5	54	5.0	16
18	3.7	7.1	179	92	38	25	316	8.3	6.5	46	4.6	22
19	3.3	9.8	154	78	29	114	112	7.7	9.0	39	4.1	17
20	3.3	443	408	71	142	241	71	6.5	11	25	3.7	11
21	*3.3	311	632	72	348	136	*53	5.9	12	16	3.3	7.7
22	3.3	849	407	186	154	79	40	5.9	13	11	4.6	*5.5
23	3.3	716	370	318	85	56	33	5.9	16	9.6	4.1	4.6
24	3.3	283	234	168	127	46	38	5.5	11	9.6	4.1	3.7
25	3.7	132	181	120	158	39	33	5.5	11	21	3.3	3.3
26	3.7	124	160	103	95	42	27	*5.5	40	67	3.3	2.8
27	3.7	90	140	94	67	87	27	5.9	32	39	3.3	2.8
28	3.7	62	192	85	56	432	21	5.9	16	134	3.7	2.4
29	3.7	48	470	76	-	346	18	7.1	16	187	3.3	2.4
30	4.1	42	420	64	-----	179	15	8.3	12	142	2.8	2.4
31	4.1	---	300	64	-----	118	-----	5.9	-----	88	2.4	---
Total	135.0	3,280.6	15,439	3,970	1,950	2,998	2,429	392.2	293.9	3,104.0	218.7	160.6
Mean	4.35	.109	498	128	69.6	96.7	81.0	12.7	9.80	100	7.05	5.35
Cfs/m	0.044	1.11	5.07	1.30	0.708	0.984	0.824	0.129	0.100	1.02	0.072	0.054
In.	0.05	1.24	5.84	1.50	0.74	1.13	0.92	0.15	0.11	1.17	0.08	0.06

Calendar year 1953: Max 4,060 Min 3.3 Mean 200 Cfs/m 2.03 In. 27.65
Water year 1953-54: Max 1,790 Min 1.9 Mean 94.2 Cfs/m 0.958 In. 12.99

Peak discharge (base, 2,000 cfs).--Dec. 12 (1 a.m.) 2,470 cfs (10.28 ft).

* Discharge measurement made on this day.

Pearl River at Edinburg, Miss.

Location.--Lat 32°47', long 89°20', in SW¹/₄ sec. 13, T. 11 N., R. 9 E., Choctaw meridian, on right bank 20 ft downstream from bridge on State Highway 16 at Edinburg, 1,100 ft downstream from Hooper Mill Creek, 3 miles upstream from Rice Creek, and 1¹/₂ miles northeast of Carthage.

Drainage area.--898 sq mi.

Records available.--August 1928 to September 1954. Gage-height records collected in same vicinity since 1908 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 341.67 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Prior to July 2, 1930, staff gage at site 500 ft upstream at datum 0.12 ft higher. July 2, 1930, to July 23, 1935, staff gage and July 24, 1935, to Sept. 20, 1938, wire-weight gage at present site and datum.

Average discharge.--26 years, 1,045 cfs.

Extremes.--Maximum discharge during year, 2,830 cfs Jan. 27 (gage height, 15.90 ft); minimum, 2.0 cfs Sept. 29 (gage height, 1.04 ft).
1928-54: Maximum discharge, 31,400 cfs Mar. 8, 1935; maximum gage height, 26.30 ft Feb. 16, 1950; minimum, that of Sept. 29, 1954.
Maximum stage known, 29.0 ft Mar. 1, 1902, from reports of U. S. Weather Bureau.

Remarks.--Records good except those for period of backwater from beaver dams, which are poor.

Rating tables, water year 1953-54, except period of backwater from beaver dams (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Feb. 6 to Mar. 12, Mar. 20-27, July 17-25)

Oct. 1 to May 10

May 11 to Sept. 30

0.9	4.5	3.0	105
1.2	8.0	5.0	291
1.5	14	7.0	592
1.8	25	11.0	1,420
2.0	35	16.0	2,870

1.0	1.4	1.8	22
1.2	5.0	2.0	31
1.5	12	3.0	105

Note.--Same as preceding table above 3.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.7	8.8	15	186	2,500	738	1,320	575	83	20	16	11
2	9.5	9.0	16	178	2,350	*682	1,210	541	78	19	15	9.0
3	9.2	9.0	130	168	1,990	664	1,160	1,560	80	21	14	7.0
4	9.0	9.0	253	164	1,670	592	1,160	2,080	82	72	12	5.6
5	9.0	8.8	214	160	1,440	524	*1,140	2,230	67	125	12	5.0
6	9.4	8.5	196	150	1,300	491	1,080	2,290	59	113	11	3.6
7	9.4	8.3	200	137	1,190	459	993	2,080	53	103	11	3.8
8	9.2	8.2	191	129	1,060	428	972	2,320	50	92	11	*18
9	8.8	7.8	182	117	972	383	852	2,710	46	337	9.5	16
10	8.4	7.6	182	194	852	348	719	2,740	43	173	9.0	13
11	8.0	7.6	191	280	719	309	592	*2,500	38	168	*8.2	10
12	7.6	7.4	248	303	558	274	541	2,110	35	150	7.8	8.8
13	7.2	7.4	269	274	443	248	524	2,110	35	117	7.2	8.0
14	7.0	7.6	274	258	355	233	507	1,930	30	95	7.0	7.0
15	6.4	7.8	243	446	297	209	558	1,620	30	83	12	6.0
16	6.0	*8.0	218	1,520	264	186	1,890	1,210	30	70	15	5.2
17	5.6	8.0	200	1,060	269	173	2,170	872	57	322	16	4.8
18	5.2	8.2	186	952	253	164	2,350	646	43	223	16	4.2
19	5.2	8.4	173	932	248	204	2,470	524	45	*178	16	3.6
20	*4.7	8.6	160	912	699	291	2,290	459	43	142	19	3.0
21	4.7	8.9	*146	1,520	682	291	2,170	369	*40	125	61	2.8
22	4.8	9.9	137	2,080	610	291	2,290	274	36	109	34	3.0
23	*5.0	19	121	2,260	610	297	2,230	214	33	121	*34	3.0
24	5.0	17	113	2,590	682	309	2,020	168	31	113	29	2.8
25	4.8	12	103	2,740	719	322	1,720	133	29	104	22	2.8
26	6.1	10	98	*2,800	719	348	1,440	113	26	64	18	2.8
27	9.0	10	93	2,530	738	359	1,230	104	24	49	14	*2.7
28	10	10	124	2,710	757	1,320	1,010	113	23	35	11	2.4
29	8.9	13	182	2,440	-	1,520	795	105	22	28	9.0	2.5
30	8.3	15	196	2,500	-----	1,700	610	97	21	23	*8.2	3.0
31	8.4	-----	191	2,590	-----	1,520	-----	88	-----	18	10	---
Total	228.9	288.8	5,245	35,580	24,966	16,377	40,013	34,885	1,310	3,412	494.9	180.4
Mean	7.58	9.63	169	1,148	892	528	1,334	1,125	43.7	110	16.0	6.01
Cfsm	0.0082	0.011	0.188	1.128	0.993	0.588	1.49	1.25	0.049	0.122	0.018	0.0067
In.	0.009	0.01	0.22	1.47	1.03	0.68	1.68	1.44	0.05	0.14	0.02	0.007

Calendar year 1953: Max 8,750 Min 4.7 Mean 996 Cfsm 1.11 In. 15.06

Water year 1953-54: Max 2,830 Min 2.4 Mean 447 Cfsm 0.498 In. 6.74

* Discharge measurement made on this day.

Note.--Backwater from beaver dams Oct. 1 to Dec. 3.

PEARL RIVER BASIN

Lobutch Creek near Carthage, Miss.

Location--Lat 32°46', long 89°28', in NE $\frac{1}{4}$ sec. 34, T. 11 N., R. 8 E., Choctaw meridian, near center of span on downstream side of bridge on State Highway 16, 3 miles upstream from mouth and 5 miles northeast of Carthage.

Drainage area--313 sq mi.

Records available--July 1937 to September 1954.

Gage--Wire-weight gage and crest-stage indicator; gage read twice daily. Datum of gage is 334.98 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Prior to Oct. 1, 1943, staff gage at Scotts Crossing bridge $4\frac{1}{2}$ miles upstream at datum 12.37 ft higher. Oct. 1, 1943, to June 30, 1947, staff gage at site 5 miles upstream from present site at datum 13.02 ft higher.

Average discharge--15 years (1939-54), 389 cfs.

Extremes--Maximum discharge during year, 3,660 cfs May 6 (gage height, 14.83 ft); minimum, 7.1 cfs Sept. 17-21, 27, 28 (gage height, 0.08 ft).
1937-54: Maximum discharge, 19,100 cfs Mar. 29, 1951 (gage height, 18.00 ft); minimum observed, 5.3 cfs Aug. 24, 1943 (gage height, 1.47 ft, site and datum then in use).

Remarks--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 9-14)

0.0	4.9	8.0	746
1.0	39	11.0	1,320
2.0	89	13.0	2,070
3.0	162	14.0	2,760
5.0	355	15.0	3,980

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	17	43	205	1,250	515	776	178	62	20	19	9.0
2	13	17	39	146	1,010	414	718	426	52	18	17	9.0
3	13	17	108	109	792	*402	567	792	47	28	16	8.0
4	13	17	402	95	690	463	333	1,190	72	52	14	8.0
5	13	17	463	83	502	438	232	1,970	50	45	13	8.0
6	13	17	262	77	302	355	*196	3,380	39	41	14	7.4
7	13	17	196	77	232	292	162	2,310	35	62	13	7.7
8	14	16	138	72	196	242	178	1,630	34	45	14	*7.7
9	14	17	102	72	170	196	214	1,210	34	129	14	8.0
10	13	17	130	109	154	178	232	912	32	232	12	9.4
11	13	18	178	282	146	162	223	*554	30	205	11	8.0
12	13	19	214	302	138	154	272	252	28	205	10	7.7
13	16	20	302	232	123	146	333	214	26	138	9.7	7.7
14	13	21	282	196	116	138	205	242	25	72	9.7	*7.4
15	11	21	196	196	116	130	154	302	30	45	9.7	7.7
16	11	22	154	732	116	116	252	344	26	34	9.7	7.4
17	11	*22	116	950	123	109	450	355	104	72	*9.7	7.1
18	12	22	95	931	123	102	450	262	223	89	9.4	7.1
19	12	26	77	761	116	109	390	162	138	95	11	7.1
20	*12	26	72	634	429	355	302	123	67	*205	12	7.1
21	12	25	72	761	876	438	205	102	54	109	28	7.1
22	12	28	*72	1,230	950	390	138	89	*41	72	15	7.4
23	12	28	72	1,380	776	333	116	77	39	45	*13	8.7
24	12	28	72	1,210	704	252	146	67	30	28	11	7.7
25	14	30	67	950	746	187	178	62	28	30	11	7.4
26	15	28	67	*776	718	170	138	57	25	32	11	7.4
27	14	30	62	718	676	354	116	62	24	28	11	7.1
28	18	26	77	732	620	876	102	89	23	24	10	*7.1
29	18	32	205	662	-	1,110	83	89	21	21	9.7	7.4
30	18	41	272	761	-----	1,070	77	77	19	21	*9.7	7.4
31	16	-----	232	1,290	-----	876	-----	67	-----	21	9.7	-----
Total	419	684	4,839	16,731	12,910	11,072	7,938	17,646	1,458	2,263	387.0	231.2
Mean	13.5	22.8	156	540	461	357	265	569	48.6	73.0	12.5	7.1
Cfs/m	0.043	0.073	0.498	1.73	1.47	1.14	0.847	1.82	0.155	0.233	0.040	0.026
In.	0.05	0.08	0.57	1.99	1.53	1.32	0.94	2.10	0.17	0.27	0.05	0.03
Calendar year 1953: Max			6,680	Min	11	Mean	414	Cfs/m	1.32	In.	17.97	
Water year 1953-54: Max			3,380	Min	7.1		210	Cfs/m	0.671	In.	9.10	

* Discharge measurement made on this day.

Tuscolameta Creek at Walnut Grove, Miss.

Location.--Lat 32°35', long 89°28', in NW $\frac{1}{4}$ sec. 34, T. 9 N., R. 8 E., Choctaw meridian, on right bank at downstream side of bridge on State Highway 35, over north drainage canal, 0.4 mile southwest of Walnut Grove, 0.6 mile upstream from Gulf, Mobile and Ohio Railroad bridge, $7\frac{1}{2}$ miles upstream from junction of north and south drainage canals, and $15\frac{1}{2}$ miles upstream from mouth.

Drainage area.--411 sq mi (combined drainage area for all channels).

Records available.--January 1939 to September 1954.

Gage.--Water-stage recorder and wire-weight gage on north canal read twice daily. Prior to June 18, 1939, staff or wire-weight gage and June 18, 1939, to July 13, 1953, water-stage recorder and wire-weight gage, at site 0.2 mile upstream at same datum. Water-stage recorder on south canal at bridge on State Highway 35 (old) 1 mile southwest of north canal gage. Prior to Nov. 24, 1943, staff gage on south canal at same site and datum. Datum of gages is 332.70 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Average discharge.--15 years, 477 cfs.

Extremes.--Maximum discharge during year, 4,040 cfs Apr. 18 (gage height, 14.86 ft, north canal); maximum recorded gage height, south canal, 15.70 ft Mar. 29; minimum discharge (combined flow), 3.3 cfs Sept. 29.

1939-54: Maximum discharge, 34,600 cfs Jan. 7, 1950 (gage height, 23.00 ft, north canal); maximum gage height, south canal, 21.53 ft Jan. 7, 1950; minimum discharge (combined flow), that of Sept. 29, 1954.

Prior to canalization, creek reached a stage of 24.5 ft, from floodmark, sometime between 1920 and 1925.

Remarks.--Records good except those between 1,500 cfs and 2,500 cfs and those for periods of no gage-height record, which are fair. Discharge computed by combining the flow of individually rated low-water channels except when discharge in north canal exceeds about 1,000 cfs or that in south canal exceeds about 740 cfs, during which periods discharge is determined from combined stage-discharge relation for all channels referred to gage on north canal.

Revisions (water years).--WSP 892: 1939(M). WSP 1002: 1943.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.2	7.4	12	131	1,850	126	421	244	40	14	14	5.5
2	6.2	7.4	12	98	1,150	115	237	739	33	12	13	5.5
3	6.2	7.5	*28	73	614	118	181	1,760	32	12	12	5.0
4	6.2	7.6	149	54	294	137	149	2,800	30	11	10	5.0
5	*6.1	7.4	128	47	196	118	120	1,970	29	22	10	5.0
6	6.2	7.4	95	41	153	102	101	1,280	25	30	9.0	5.0
7	6.1	7.5	107	37	127	91	89	462	21	31	9.5	5.0
8	6.2	7.5	78	33	107	84	91	198	20	61	8.5	4.8
9	6.4	7.4	75	31	97	74	154	115	18	2,170	7.3	*4.5
10	6.3	7.5	206	50	91	70	140	97	18	2,130	*12	4.5
11	6.4	7.9	163	165	92	72	109	145	22	711	7.6	4.5
12	6.8	8.4	223	168	96	64	95	324	29	182	7.6	4.5
13	6.7	*8.7	226	*123	88	68	94	958	27	*63	7.5	4.0
14	6.3	8.3	174	83	80	76	82	1,290	20	40	7.8	4.0
15	6.3	8.5	135	75	85	69	137	1,070	19	30	7.2	4.0
16	6.1	8.6	88	444	83	*53	2,490	636	22	25	7.2	*3.7
17	6.6	9.6	61	704	*95	50	3,400	*559	20	58	7.1	3.6
18	6.2	8.6	45	404	107	48	3,800	129	19	100	*7.3	3.6
19	6.1	8.1	39	284	90	129	1,970	96	20	63	7.5	3.5
20	6.6	9.2	34	183	461	362	539	77	17	43	19	3.5
21	6.8	8.0	35	604	605	306	199	62	20	53	158	3.6
22	6.2	9.6	40	1,380	510	211	*133	49	33	31	106	3.5
23	*6.6	11	37	1,410	299	139	270	42	56	*24	*28	3.7
24	7.2	17	34	1,270	210	104	439	38	63	22	14	3.7
25	6.3	15	27	870	188	93	334	34	34	49	12	3.6
26	6.7	12	26	410	150	163	214	34	22	44	8.0	3.5
27	6.4	11	24	222	126	996	121	38	23	27	8.2	3.5
28	7.2	10	39	170	122	2,650	80	79	19	22	6.9	*3.5
29	7.8	11	139	137	-	3,250	77	94	17	18	7.2	3.4
30	8.2	11	169	1,340	-	*3,580	76	66	14	16	8.0	3.5
31	7.5	-----	165	2,330	-----	*1,440	-----	56	-----	14	8.0	-----
Total	203.1	276.1	2,813	13,371	8,186	14,957	16,342	15,241	784	6,128	551.4	124.0
Mean	6.55	9.20	90.7	431	292	482	545	492	26.1	198	17.8	4.13
Cfs/m	0.016	0.022	0.221	1.05	0.710	1.17	1.33	1.20	0.064	0.482	0.043	0.010
In.	0.02	0.02	0.25	1.21	0.74	1.35	1.48	1.38	0.07	0.55	0.05	0.01

Calendar year 1953: Max 7,180

Water year 1953-54: Max 3,800

Min 6.1

Min 3.4

Mean 477

Mean 216

Cfs/m 1.16

Cfs/m 0.526

In. 15.75

In. 7.13

Peak discharge (base, 4,000 cfs).--Apr. 18 (9 a.m.), 4,040 cfs (14.86 ft).

* Discharge measurement made on this day.

Note.--No gage height record at north canal Aug. 30 to Sept. 7, Sept. 10-15; at south canal Oct. 1-4, Apr. 16-19, July 28 to Aug. 1, Aug. 3-8; discharge estimated on basis of recorded range in stage, weather records, and record for other canal. Discharge at north canal Apr. 19 to May 21, June 29 to July 4, Aug. 28, 29, Sept. 8, 9, 16-30 computed from twice-daily wire-weight-gage readings. Discharge at south canal Aug. 2, 9 computed from once-daily wire-weight-gage readings.

PEARL RIVER BASIN

Yockanookany River near Kosciusko, Miss.

Location.--Lat 33°02', long 89°35', in NE¹/₄ sec. 33, T. 14 N., R. 7 E., Choctaw meridian, on left bank at downstream side of bridge on State Highway 35, 2 miles south of Kosciusko.

Drainage area.--314 sq mi.

Records available.--August 1938 to September 1954. Prior to October 1947, published as Yockanookany River.

Gage.--Water-stage recorder. Datum of gage is 374.34 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Prior to Mar. 28, 1939, staff gage at same site and datum.

Average discharge.--16 years, 405 cfs.

Extremes.--Maximum discharge during year, 6,850 cfs May 5 (gage height, 14.73 ft); minimum, 3.5 cfs Sept. 6 (gage height, 2.53 ft).
1938-54: Maximum discharge, 19,300 cfs Mar. 29, 1951 (gage height, 18.72 ft); minimum, 2.3 cfs Aug. 20-24, 1943; minimum gage height, 0.10 ft Sept. 3-6, 1939.
Flood in December 1932 reached a stage of about 17 ft (from information by Corps of Engineers).

Remarks.--Records good except those between 100 and 400 cfs, which are fair.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 6 to Dec. 3, June 23, 24)

2.5	3.2	6.0	135	12.0	1,750
2.7	5.4	6.5	174	13.0	2,700
3.0	11	7.0	233	13.5	3,400
3.5	22	9.0	585	14.0	4,600
4.0	38	10.0	860	15.0	7,600
5.0	82	11.0	1,220		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	12	22	84	959	585	268	738	36	12	6.6	*4.1
2	11	12	23	70	463	364	220	1,450	32	10	5.9	4.0
3	11	12	135	60	291	463	165	3,260	29	27	5.9	4.0
4	11	12	254	54	214	*472	138	5,500	28	86	5.7	3.9
5	11	12	110	52	170	315	120	6,550	26	46	7.3	3.9
6	11	12	82	52	146	226	*107	4,750	23	23	7.7	3.8
7	11	12	110	48	129	184	97	2,740	22	17	6.8	4.0
8	10	12	60	45	114	157	308	1,160	21	14	6.8	4.2
9	10	13	246	43	110	142	738	331	20	112	6.2	5.6
10	10	13	398	146	107	132	532	195	19	149	5.6	7.7
11	10	13	157	482	107	126	339	165	19	66	5.1	6.6
12	10	14	195	254	100	117	240	*157	18	28	5.0	5.3
13	10	14	142	126	87	110	161	179	17	19	4.4	4.4
14	9.8	14	123	92	84	100	123	247	21	15	4.0	4.2
15	9.6	14	110	228	87	92	104	226	19	13	3.8	4.1
16	9.4	15	82	1,220	92	80	222	153	17	11	3.9	4.0
17	9.2	15	62	1,820	94	72	522	114	34	13	7.7	3.9
18	9.0	*15	50	1,560	87	72	339	92	29	14	13	4.4
19	9.0	16	44	1,350	82	316	179	92	27	13	6.9	4.4
20	*9.0	17	42	685	713	828	112	74	21	13	5.0	4.2
21	9.2	17	49	775	1,300	645	84	62	19	*11	4.8	4.6
22	9.0	17	58	1,580	1,400	254	84	54	17	10	4.9	4.8
23	9.2	19	*54	1,970	1,560	161	555	48	*117	9.2	4.8	5.0
24	9.6	19	45	1,930	1,500	138	632	43	77	8.6	5.0	4.8
25	9.4	19	39	1,820	1,180	129	247	39	32	13	*4.9	4.8
26	9.4	19	37	1,070	675	161	126	36	19	11	5.9	4.5
27	12	18	36	*585	348	555	90	55	15	9.4	6.4	4.1
28	13	19	107	828	522	1,220	67	82	17	8.4	5.4	4.5
29	14	20	356	542	-	*1,220	238	72	19	7.9	4.9	*4.6
30	13	23	201	814	-----	758	542	54	15	7.5	4.6	4.4
31	12	---	120	1,350	-----	348	-----	46	-----	7.1	4.6	---
Total	321.8	459	3,549	21,715	12,721	10,542	7,699	28,755	825	804.1	179.5	136.8
Mean	10.4	15.3	114	700	454	340	257	928	27.5	25.9	5.79	4.56
Cfsm	0.033	0.049	0.363	2.23	1.45	1.08	0.818	2.96	0.088	0.082	0.018	0.015
In.	0.04	0.05	0.42	2.57	1.51	1.25	0.91	3.41	0.10	0.10	0.02	0.02
Calendar year 1953: Max			5,500		Min 9.0		Mean 404		Cfsm 1.29	In. 17.48		
Water year 1953-54: Max			6,550		Min 3.8		Mean 240		Cfsm 0.764	In. 10.40		

Peak discharge (base, 3,000 cfs).--May 5 (8 a.m.) 6,850 cfs (14.73 ft).

* Discharge measurement made on this day.

Location.--Lat 32°42', long 89°40', in NE¼NW¼ sec. 22, T. 10 N., R. 6 E., Choctaw meridian, near center of main span on downstream side of bridge on State Highway 16, 1½ miles southeast of Ofahoma, 3 miles upstream from mouth, and 8½ miles southwest of Carthage.

Records available.--October 1943 to September 1954. Prior to October 1947, published as
Yokahockany River.

Extremes.--Maximum discharge during year, 5,900 cfs May 7 (gage height, 16.85 ft); minimum, 4.9 cfs Aug. 20, Sept. 11; minimum gage height, 3.31 ft Sept. 11.
1943-54: Maximum discharge observed, 20,700 cfs Mar. 31, 1951 (gage height, 20.28 ft); minimum, that of Aug. 20, Sept. 11, 1954; minimum gage height, 3.00 ft Oct. 11, 12, 1943.

Revisions (water years).--WSP 1204: 1948.

(Shifting-control method used Nov. 15-30, Sept. 3-14)

Oct. 1 to May 7	May 8 to Sept. 30
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Oct. 1 to May 7				May 8 to Sept. 30			
3.6	9.5	8.0	675	3.4	4.5	4.5	84
3.8	19	11.0	1,390	3.6	14	5.0	142
4.0	32	13.0	2,000	4.0	39		
4.5	80	14.0	2,550				
5.0	142	16.0	4,560				
6.0	285	17.0	6,520				

Note.--Same as preceding table above 5.0 ft.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	17	23	254	1,780	1,160	1,110	445	84	25	12	9.0
2	14	18	196	1	1,470	874	1,138	741	74	23	13	8.1
3	14	18	98	196	1,290	*719	948	1,240	61	23	12	7.7
4	14	18	285	168	1,040	653	631	1,680	49	22	12	7.7
5	14	18	224	116	900	610	388	2,690	45	26	12	7.7
6	14	17	210	80	741	547	*269	4,560	45	52	11	7.7
7	13	16	210	92	485	505	210	5,900	45	64	8.5	*7.3
8	12	17	155	86	335	445	224	5,520	41	55	7.7	*6.9
9	12	16	142	80	269	335	269	4,300	38	51	6.5	6.5
10	13	15	155	129	224	285	301	2,930	38	47	9.5	5.7
11	13	14	182	239	196	239	407	*1,680	37	106	12	5.3
12	13	13	255	254	182	210	505	1,160	34	117	9.0	5.7
13	14	13	445	269	168	196	653	741	32	117	8.1	6.9
14	13	14	505	318	168	182	610	426	29	74	6.9	9.5
15	13	14	407	370	155	168	526	318	27	49	6.1	8.5
16	12	15	239	719	148	155	388	301	29	37	8.1	8.5
17	12	*16	196	675	148	142	370	285	30	7.7	8.1	8.1
18	12	17	162	631	148	335	354	74	28	5.5	6.5	6.5
19	12	18	136	631	210	196	352	210	112	64	5.7	6.1
20	*12	18	104	900	407	210	370	168	106	*47	5.3	6.9
21	13	18	86	1,420	352	224	388	136	69	45	8.1	7.7
22	13	19	*80	1,920	335	352	254	117	*45	27	11	8.1
23	13	21	74	2,420	407	485	196	100	37	21	*12	8.1
24	13	21	80	1,720	589	568	175	90	30	17	11	7.7
25	12	20	80	1,340	785	589	285	79	38	17	10	7.7
26	12	20	80	*1,500	1,240	610	335	74	74	15	8.1	7.7
27	12	20	69	1,630	1,420	719	352	74	62	15	8.1	7.3
28	12	21	98	1,630	1,360	785	318	69	44	13	8.1	7.7
29	14	21	129	1,610	-	923	269	74	36	15	9.5	8.0
30	14	21	162	1,720	-----	900	224	95	28	14	9.0	7.5
31	15	-----	224	2,300	-----	994	-----	95	-----	13	*9.0	-----
Total	403	524	5,356	25,613	16,952	15,119	12,770	36,952	1,497	1,227	285.1	223.8
Mean	17.5	17.3	17.3	826	605	488	426	1,952	49	9.20	11.9	9.20
Cfs/m	0.027	0.036	0.037	1.71	1.25	1.01	0.890	2.16	0.083	0.082	0.019	0.015
In.	0.03	0.04	0.41	1.97	1.30	1.16	0.98	2.84	0.12	0.09	0.02	0.02
Calendar year 1953: Max			8,620		Min 12	Mean 626		Cfs/m 1.29	In. 17.54			
Water year 1953-54: Max			5,900		Min 5.3	Mean 320		Cfs/m 0.661	In. 8.98			

* Discharge measurement made on this day.

Pearl River at Meeks Bridge, near Canton, Miss.

Location.--Lat 32°30'50", long 89°56'25" in NE $\frac{1}{4}$ sec. 25, T. 8 N., R. 3 E., Choctaw meridian, near left bank on downstream side of Meeks Bridge on State Highway 43, $\frac{3}{8}$ miles northeast of Goshen Springs, $\frac{5}{8}$ miles upstream from Mill Creek, 9 miles southeast of Canton, and 10 miles downstream from Pannegusha Creek.

Drainage area.--2,780 sq mi, approximately.

Records available.--July 1939 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 270.53 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Prior to Sept. 15, 1939, staff gage at same site and datum.

Average discharge.--15 years, 3,316 cfs.

Extremes.--Maximum discharge during year, 9,920 cfs May 9 (gage height, 16.57 ft); minimum, 73 cfs Sept. 29, 30; minimum gage height, 0.29 ft Oct. 25, 26.
1939-54: Maximum discharge, 57,800 cfs Apr. 2, 1951 (gage height, 26.30 ft); minimum, that of Sept. 29, 30, 1954; minimum gage height observed, 0.11 ft Oct. 26, Nov. 2, 1943.

Flood in December 1932 reached a stage of 26.4 ft, from floodmarks.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Nov. 29 to Dec. 4)

Oct. 1 to Jan. 16

Jan. 17 to Sept. 30

0.2	90	0.5	71	5.0	1,450
1.0	175	1.0	121	9.0	3,520
2.0	360	1.5	206	13.0	6,400
3.0	645	2.0	336	17.0	10,500
5.0	1,450	3.0	645		
7.0	2,430				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	118	99	139	787	7,390	3,100	6,180	2,360	645	g227	208	98
2	118	100	139	865	9,080	2,930	6,100	2,830	596	g213	198	97
3	114	100	*162	825	9,160	2,680	5,200	4,040	564	g208	187	96
4	112	101	221	696	7,760	2,380	3,970	5,500	518	208	179	95
5	111	101	504	580	*6,720	2,230	3,100	6,800	487	211	g168	94
6	109	101	845	490	5,580	2,180	2,580	7,760	472	204	g161	94
7	108	101	905	448	4,320	2,030	2,280	8,660	456	*206	g154	*95
8	108	102	787	409	3,340	1,830	2,080	9,280	426	270	152	g92
9	107	100	714	384	2,750	1,680	1,930	9,780	411	314	151	g90
10	106	100	596	394	2,380	1,540	1,980	9,520	397	866	*143	88
11	105	100	580	384	2,130	1,360	1,980	8,660	366	2,030	138	g68
12	105	100	732	580	1,980	1,220	1,880	7,480	354	2,230	136	g89
13	105	101	865	945	1,730	1,140	1,830	6,400	342	1,496	133	g87
14	104	100	1,100	1,020	1,540	1,060	1,930	5,500	333	940	128	g87
15	104	100	1,140	*1,100	1,360	*980	1,930	5,050	319	679	124	g85
16	104	101	1,060	2,020	1,270	920	1,830	4,830	311	534	121	g84
17	104	103	925	3,220	1,140	862	2,660	4,320	300	426	119	g83
18	103	104	768	3,580	1,100	806	4,040	3,320	325	411	116	g82
19	102	104	628	3,520	1,060	768	*4,980	2,630	339	549	114	g82
20	101	106	549	3,220	1,100	768	5,500	2,080	426	*596	114	g81
21	101	107	476	3,100	2,180	1,040	5,650	1,680	472	518	133	g80
22	100	108	435	4,110	3,220	1,450	4,830	1,450	384	518	120	g79
23	99	111	596	5,500	3,400	1,580	3,640	1,270	330	456	164	g79
24	99	114	372	6,250	3,160	1,540	3,030	*1,100	308	384	239	g78
25	98	117	360	6,480	2,880	1,540	3,040	940	308	336	177	g77
26	*99	120	348	6,480	2,930	1,450	3,100	824	g294	308	146	g77
27	99	128	326	6,180	3,040	1,490	2,980	768	g283	311	129	g77
28	99	134	326	5,880	3,160	2,830	2,730	714	283	311	120	*74
29	99	139	315	5,580	-	4,530	2,380	696	g264	277	113	73
30	100	139	348	5,650	-----	5,350	2,030	696	245	242	108	73
31	99	-----	590	6,330	-----	5,900	-----	679	-----	222	105	-----
Total	3,238	3,241	17,641	86,997	94,720	61,064	97,580	127,837	11,548	16,895	4,496	2,554
Mean	104	108	569	2,806	3,383	1,970	3,246	4,124	365	539	145	65.1
Cfsm	0.037	0.039	0.205	1.01	1.22	0.709	1.17	1.48	0.138	0.194	0.052	0.031
In.	0.04	0.04	0.24	1.16	1.27	0.82	1.30	1.71	0.15	0.22	0.06	0.03

Calendar year 1953: Max 27,500 Min 98 Mean 3,285 Cfsm 1.18 In. 16.03
Water year 1953-54: Max 9,780 Min 73 Mean 1,445 Cfsm 0.520 In. 7.04

* Discharge measurement made on this day.

g Computed from once-daily wire-weight-gage readings.

Pelahatchie Creek near Fannin, Miss.

Location.--Lat 32°23'18", long 89°58'05", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T. 6 N., R. 3 E., Choctaw meridian, on right bank 200 ft downstream from new bridge on State Highway 471, 2 miles downstream from Clark Creek, 2 miles south of Fannin, and 8 $\frac{1}{2}$ miles upstream from mouth.

Drainage area.--205 sq mi.

Records available.--January 1951 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 279.31 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark). Prior to July 6, 1951, wire-weight gage and crest-stage indicator at same site and datum.

Extremes.--Maximum discharge during year, 2,200 cfs Mar. 30 (gage height, 17.22 ft); no flow for many days.

1951-54: Maximum discharge, 8,500 cfs Mar. 30, 1951 (gage height, 20.68 ft); no flow at times.

Maximum stage known since at least 1880, about 23.7 ft in February 1950, from information by local residents.

Remarks.--Records good except those below 2 cfs, which are fair.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Sept. 2-9)

Oct. 1 to May 4						May 5 to Sept. 30			
0.5	0	1.3	3.6	5.0	160	0.7	0	1.3	4.9
.7	.2	1.6	7.6	7.0	340	.8	.4	1.6	9.7
.8	.5	2.0	16	10.0	695	.9	1.0	2.0	18
.9	.9	3.0	46	15.0	1,550	1.1	2.6	3.0	46
1.1	2.0	4.0	94	17.0	2,130	Note.--Same as preceding table above 3.0 ft.			

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			4.3	22	807	64	186	294	7.5	4.1	0.6	0.1
2			*6.8	22	436	79	103	639	6.7	2.3	.6	.1
3			21	18	160	60	72	1,320	6.2	1.6	1.1	.1
4			83	13	89	51	51	1,790	6.2	1.5	.7	.1
5			115	10	59	62	41	1,740	5.4	1.2	.4	.1
6			59	8.7	43	g50	35	1,220	4.9	3.0	.2	.1
7			33	6.8	34	g38	31	314	5.2	6.0	.2	*.1
8			22	5.4	27	g34	27	82	4.2	4.0	.1	.1
9			17	4.8	22	g29	23	47	3.9	*2.7	.2	0
10			19	8.0	19	g22	20	36	3.6	1.8	1.0	0
11			21	8.7	17	g19	18	37	3.1	1.5	.6	0
12			20	13	15	g18	22	83	2.7	1.2	.4	0
13			18	54	14	g17	64	222	2.3	1.1	*.2	0
14			21	38	12	g15	84	403	2.2	.9	.1	0
15			25	41	12	g14	46	425	1.8	.8	0	*0
16			26	106	11	*13	424	160	1.9	.6	*0	0
17			21	320	*9.2	13	996	74	2.8	.6	0	0
18			13	*209	9.0	10	891	46	6.2	.6	0	0
19			8.3	83	8.9	12	*399	34	5.6	.5	0	0
20			6.4	42	11	79	109	26	3.6	*.5	0	0
21			5.2	374	404	236	58	21	7.4	.5	0	0
22			3.5	1,150	669	128	38	15	6.7	.3	0	0
23			3.0	1,370	643	69	29	12	4.6	.2	.1	0
24			2.6	1,220	213	42	23	*11	6.4	.1	.1	0
25			2.3	641	118	32	25	9.4	7.7	.1	.1	0
26			1.7	162	118	26	42	7.8	5.5	0	*.2	0
27			1.6	84	86	324	28	7.8	4.4	0	.2	0
28			2.8	58	60	1,430	20	8.5	16	0	.2	0
29			3.3	43	-	1,910	14	7.5	43	.1	.2	0
30			4.1	122	-----	2,100	10	6.7	*8.3	.3	.1	*0
31			10	709	-----	1,050	-----	7.5	-----	.3	.1	-----
Total	0	0	599.9	6,966.4	4,126.1	8,046	3,919	9,106.2	196.0	38.4	7.7	0.8
Mean	0	0	19.4	225	147	260	131	294	6.53	1.24	0.25	0.03
Cfsm	0	0	0.095	1.10	0.717	1.27	0.639	1.43	0.032	0.0060	0.0012	0.00015
In.	0	0	0.11	1.26	0.75	1.46	0.71	1.65	0.04	0.007	0.001	0.0001

Calendar year 1953: Max 6,400 Min 0 Mean 294 Cfsm 1.43 In. 19.48
Water year 1953-54: Max 2,100 Min 0 Mean 90.4 Cfsm 0.441 In. 5.99

Peak discharge (base, 2,500 cfs).--No peak above base.

* Discharge measurement or observation of no flow made on this day.

g Computed from once-daily inside tape-gage readings.

PEARL RIVER BASIN

Pearl River at Jackson, Miss.

Location.--Lat 32°17'20", long 90°10'45", in SE $\frac{1}{4}$ sec. 10, T. 5 N., R. 1 E., Choctaw meridian, on left bank at downstream side of bridge on U. S. Highway 80 (old) at eastern city limits of Jackson, 0.2 mile upstream from Illinois Central Railroad bridge, a quarter of a mile upstream from Town Creek, and 4 $\frac{1}{2}$ miles upstream from Richland Creek.

Drainage area.--3,100 sq mi, approximately.

Records available.--June 1901 to December 1913 (prior to 1903 and for 1913, gage heights only), August 1928 to September 1954. Gage-height records collected at same site since 1904 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 234.90 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Prior to Dec. 31, 1913, chain gage, and Aug. 15, 1928, to Sept. 14, 1934, staff gage, at same site and datum.

Average discharge.--35 years (1903-12, 1928-54), 3,745 cfs.

Extremes.--Maximum discharge during year, 10,600 cfs May 12, 13; maximum gage height, 23.25 ft May 13; minimum daily discharge, 84 cfs Sept. 30; minimum gage height, 2.29 ft Oct. 24, 25.

1901-13, 1928-54: Maximum discharge observed, 60,000 cfs Dec. 19, 1932 (gage height, 35.2 ft); maximum gage height, 37.20 ft Apr. 1, 1902 (discharge not determined); minimum discharge, 80 cfs Oct. 26 to Nov. 2, 1904; minimum gage height, 0.20 ft Nov. 4, 5, 1911.

Remarks.--Records good.

Revisions.--WSP 662: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Rate of change in stage used as a factor Feb. 7, 8, May 3, 16, 17)

Oct. 1 to May 13				May 14 to Sept. 30			
2.3	90	12.0	3,800	2.3	77		
3.0	272	18.0	6,900	3.0	256		
5.0	950	24.0	11,600	5.0	950		
8.0	2,110						

Note.--Same as preceding table above 5.0 ft.

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	127	108	154	627	6,900	3,150	7,140	6,050	806	300	270	125
2	127	111	150	824	7,440	3,150	7,020	6,660	770	270	256	123
3	123	111	487	896	7,920	3,030	6,900	7,900	770	245	231	113
4	115	111	322	878	8,380	2,670	6,540	8,100	680	245	214	103
5	115	113	331	788	*8,590	2,390	5,550	8,580	627	248	206	101
6	113	113	575	698	8,520	2,230	4,000	8,660	575	*250	193	103
7	111	111	*824	627	7,390	2,110	2,870	8,940	557	228	183	*99
8	111	113	896	575	5,930	1,950	2,390	9,220	540	228	175	120
9	108	113	860	541	4,850	1,790	2,110	9,500	504	329	172	140
10	104	111	770	610	3,150	1,630	1,990	9,830	470	363	162	96
11	102	106	734	524	2,470	1,480	1,990	10,300	442	745	155	94
12	104	106	716	524	2,150	1,320	2,030	10,200	414	*1,750	148	91
13	*102	*102	806	662	1,870	1,210	1,950	10,600	390	1,990	145	*89
14	102	99	896	950	1,710	1,100	1,870	10,000	428	1,400	140	96
15	99	99	1,020	1,400	1,520	1,020	2,030	9,150	420	950	135	87
16	97	*106	1,100	2,190	1,400	950	2,310	7,600	373	752	142	*e85
17	97	102	1,060	2,270	1,250	914	2,750	6,640	349	662	*135	123
18	95	106	950	*3,190	1,170	878	3,800	6,050	336	522	128	96
19	*97	115	842	3,600	1,100	878	4,700	4,800	346	*540	120	87
20	97	118	734	3,600	1,140	806	5,150	3,190	376	592	190	87
21	95	120	662	3,900	1,140	878	5,450	*2,270	442	644	268	365
22	92	130	592	4,800	2,430	*1,250	5,750	1,830	522	592	220	148
23	92	123	541	5,400	3,550	1,520	*5,600	1,550	487	557	183	103
24	90	120	507	6,000	3,900	1,550	4,800	1,360	407	522	160	96
25	90	118	490	6,600	3,400	1,550	3,450	1,210	363	452	270	e88
26	115	125	474	6,960	3,030	1,520	3,190	1,060	352	424	248	e88
27	118	130	457	7,080	2,950	2,470	3,150	1,100	339	383	198	e87
28	113	137	507	8,960	3,110	3,900	3,030	1,100	359	383	172	e86
29	108	167	457	6,780	-	5,000	2,750	896	349	376	160	e85
30	104	157	440	6,540	-	6,200	2,390	842	363	383	145	e84
31	106	-	457	6,540	-	6,900	-	824	-	310	128	-
Total	3,269	3,501	19,811	93,534	108,360	67,394	114,450	176,212	14,156	17,635	5,652	3,288
Mean	105	117	639	3,017	3,870	2,174	3,815	5,684	472	569	182	110
Cfs/m	0.034	0.038	0.208	0.973	1.25	0.701	1.23	1.63	0.152	0.164	0.059	0.035
In.	0.04	0.04	0.24	1.12	1.30	0.81	1.37	2.11	0.17	0.21	0.07	0.04

Calendar year 1953: Max 28,500 Min 90 Mean 4,216 Cfs/m 1.36 In. 18.46
Water year 1953-54: Max 10,600 Min 84 Mean 1,719 Cfs/m 0.555 In. 7.52

* Discharge measurement made on this day.

e Stage-discharge relation indefinite; discharge estimated on basis of weather records and 2 discharge measurements.

Strong River at Dlo, Miss.

Location.--Lat 31°58'45", long 89°54'05", in SW $\frac{1}{4}$ sec. 28, T. 2 N., R. 4 E., Choctaw meridian, on left bank at downstream side of bridge on U. S. Highway 49, 460 ft upstream from Illinois Central Railroad bridge, a quarter of a mile south of Dlo, 1,500 ft downstream from Sellers Creek, 1.6 miles upstream from Dobbs Creek, and 2 miles northwest of Mendenhall.

Drainage area.--429 sq mi.

Records available.--August 1928 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 257.99 ft above mean sea level (Corps of Engineers benchmark). Prior to Oct. 19, 1938, staff gage at site 700 ft upstream at datum 5.00 ft higher.

Average discharge.--25 years (1928-29, 1930-54), 562 cfs.

Extremes.--Maximum discharge during year, 5,650 cfs Mar. 29 (gage height, 19.64 ft); minimum, 12 cfs Sept. 1 (gage height, 2.20 ft).

1928-54: Maximum discharge, 23,300 cfs Jan. 7, 1950 (gage height, 33.0 ft, from floodmark), from rating curve extended above 14,000 cfs; minimum, that of Sept. 1, 1954.

Remarks.--Records good except those for period of no gage-height record, which are poor. Slight regulation at low flow by water mill above station.

Revisions (water years).--WSP 697: 1929. WSP 872: Drainage area.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 19 to Nov. 6, 7, 9, 10, Feb. 23 to Mar. 5)

Oct. 1 to Mar. 28

Mar. 29 to Sept. 30

2.3	23	2.2	12	6.0	690
2.5	39	2.4	27	10.0	1,800
3.0	90	2.7	54	15.0	3,530
Note.--Same as		3.0	90	20.0	5,850
following table		4.0	253		
above 3.0 ft.					

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	35	46	193	844	500	1,170	100	100	*35	33	19
2	36	32	48	148	896	290	488	200	80	35	*29	16
3	35	34	169	126	460	253	369	950	80	32	30	17
4	34	38	455	110	271	231	309	2,400	70	34	29	18
5	35	37	224	98	212	215	262	2,600	70	50	28	18
6	35	34	205	89	174	195	231	2,000	80	49	25	18
7	33	36	173	84	152	174	203	1,200	80	49	25	16
8	33	38	108	77	132	158	185	700	*58	39	28	19
9	32	36	635	75	122	147	168	300	55	39	25	23
10	32	35	818	186	116	140	158	250	48	50	25	21
11	31	38	359	433	116	134	152	800	45	37	23	20
12	33	39	523	290	104	134	166	1,050	44	35	25	20
13	30	40	359	212	105	122	166	1,100	43	32	20	18
14	28	40	*300	180	101	118	150	900	41	30	21	*19
15	28	40	251	155	98	105	171	800	41	29	33	16
16	28	40	161	837	101	101	1,750	300	45	29	32	17
17	28	43	126	923	104	90	2,600	240	44	32	32	35
18	28	44	104	715	104	90	1,890	180	47	37	30	40
19	28	48	91	433	108	305	1,500	140	49	48	31	28
20	28	54	97	271	2,090	740	786	120	43	68	30	21
21	*28	51	104	253	2,360	534	309	110	49	37	30	21
22	27	106	106	650	1,880	369	231	100	67	32	39	21
23	27	101	93	1,170	877	253	212	95	50	29	43	20
24	28	82	81	1,140	546	*200	200	90	42	26	37	18
25	28	51	76	818	*488	169	166	85	43	57	34	18
26	31	44	74	380	390	171	142	80	45	84	*32	18
27	33	43	75	271	300	1,810	150	80	40	39	29	18
28	32	40	106	228	262	4,850	*110	130	36	33	29	18
29	31	47	253	*192	-	5,650	101	280	54	33	28	18
30	31	57	359	244	-----	4,040	*90	200	45	35	27	20
31	35	-----	262	477	-----	2,960	-----	120	-----	34	25	-----
Total	961	1,383	6,799	11,436	13,411	24,846	14,545	17,500	1,602	1,217	907	809
Mean	31.0	46.1	219	369	479	801	485	565	53.4	39.3	29.3	20.5
Cfsm	0.072	0.107	0.510	0.860	1.12	1.87	1.13	1.32	0.124	0.092	0.068	0.047
In.	0.08	0.12	0.59	0.99	1.16	2.15	1.26	1.52	0.14	0.11	0.08	0.05

Calendar year 1953: Max 8,740 Min 27 Mean 738 Cfsm 1.72 In. 23.34
Water year 1953-54: Max 5,450 Min 16 Mean 261 Cfsm 0.608 In. 8.25

Peak discharge (base, 5,000 cfs).--Mar. 29 (8 a.m.) 5,650 cfs (19.64 ft).

* Discharge measurement made on this day.

Note.--No gage-height record May 1 to June 7; discharge estimated on basis of recorded range in stage, weather records, and records for stations on nearby streams.

Pearl River near Monticello, Miss.

Location.--Lat 31°33', long 90°05', in SW $\frac{1}{4}$ sec. 23, T. 7 N., R. 21 W., St. Stephens meridian, near left bank on downstream side of pier of bridge on U. S. Highway 84, 1.0 mile east of Monticello, 2 $\frac{1}{2}$ miles upstream from Halls Creek, and 3 miles upstream from Silver Creek.

Drainage area.--5,040 sq mi, approximately.

Records available.--October 1938 to September 1954. Gage-height records collected since 1924 at site $1\frac{1}{4}$ miles upstream from station are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 158.66 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Dec. 12, 1938, staff gage, Dec. 12, 1938, to Jan. 10, 1949, water-stage recorder, and Jan. 11, 1949, to Oct. 16, 1952, wire-weight gage, all at present site and datum.

Average discharge.--16 years, 6,278 cfs.

Extremes.--Maximum discharge during year, 18,000 cfs Mar. 29 (gage height, 19.06 ft); minimum, 318 cfs Sept. 16 (gage height, 3.56 ft).
1838-54: Maximum discharge observed, 59,300 cfs Jan. 7, 1950 (gage height, 29.44 ft); minimum, 292 cfs Oct. 22, 1952; minimum gage height, 3.56 ft Oct. 22, 1952, Sept. 16, 1954.

Flood of April 1902 reached a stage of about 33 ft, from reports of U. S. Weather Bureau. A discharge of 69,900 cfs was measured Apr. 8, 1938, by Corps of Engineers (gage height, 30.15 ft, from floodmark).

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Feb. 1		Feb. 2 to Sept. 30	
3.8	354	3.5	300
4.0	424	4.0	495
5.0	840	5.0	1,070
8.0	3,500	8.0	3,700
13.0	9,240	13.0	9,240
		19.0	17,800

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	420	389	550	1,440	8,980	4,200	12,200	3,700	1,450	*759	673	389
2	417	389	514	1,110	8,460	4,300	10,000	7,670	1,370	706	651	369
3	417	389	577	1,040	8,330	4,300	8,460	10,800	1,370	678	595	362
4	414	389	2,430	1,110	8,200	4,300	7,940	13,600	1,330	640	575	344
5	410	392	2,800	1,230	8,070	4,100	7,700	14,200	1,250	625	560	337
6	414	389	2,120	1,230	8,200	3,700	7,220	12,800	1,140	690	518	348
7	403	386	1,310	1,110	8,330	3,400	6,440	11,200	1,070	651	490	358
8	392	389	1,040	1,000	8,330	3,120	5,100	10,200	*1,000	620	468	377
9	392	392	2,370	932	8,070	3,030	4,040	9,370	965	595	472	373
10	389	389	4,900	900	7,220	2,760	3,400	9,890	950	590	472	*351
11	392	386	3,200	1,500	5,700	2,580	4,800	11,100	900	605	468	344
12	392	382	2,610	1,980	4,200	2,400	5,700	15,200	870	656	441	354
13	389	386	2,540	1,530	3,400	2,220	4,300	16,200	834	805	414	344
14	389	386	*2,020	1,150	3,030	2,040	3,600	15,200	792	1,770	405	330
15	389	386	1,840	1,110	2,760	1,660	5,120	14,000	610	2,040	397	327
16	389	389	1,620	3,980	2,580	1,730	5,180	12,900	610	1,650	389	324
17	386	392	1,530	5,330	2,400	1,610	9,760	11,700	852	1,330	397	401
18	386	389	1,530	4,800	2,180	1,530	9,370	10,000	846	1,100	401	545
19	386	403	1,440	4,300	2,040	1,770	7,220	6,720	852	1,040	397	522
20	*386	442	1,510	4,500	2,940	3,210	6,660	7,580	822	1,100	397	432
21	382	449	1,230	4,600	5,500	3,120	6,330	5,910	756	1,100	397	393
22	382	532	1,230	5,990	5,100	2,580	6,110	4,400	734	965	410	385
23	382	588	1,040	7,550	4,300	2,180	6,440	3,400	768	900	565	400
24	378	550	932	7,940	5,000	*2,220	6,550	2,850	870	858	585	642
25	375	496	840	7,550	*5,300	2,400	6,330	2,490	858	834	522	477
26	378	460	812	7,420	5,300	2,400	5,400	2,360	930	780	*468	385
27	369	431	785	7,180	4,700	3,490	4,500	2,640	840	756	456	351
28	396	420	812	*7,300	4,300	13,900	*4,200	1,860	744	739	477	354
29	396	424	1,270	7,300	-	17,500	4,000	2,040	728	706	462	348
30	396	496	2,200	7,420	-----	16,900	3,800	2,000	756	*712	450	340
31	389	-----	2,020	8,980	-----	14,600	-----	1,650	-----	734	414	-----
Total	12,195	12,680	51,222	120,512	152,920	159,450	185,830	257,030	28,247	27,714	14,786	11,846
Mean	393	423	1,652	3,687	5,461	4,498	6,194	8,291	942	794	477	351
Cfsm	0.078	0.084	0.328	0.771	1.08	0.892	1.23	1.65	0.187	0.177	0.095	0.078
In.	0.09	0.09	0.38	0.89	1.13	1.03	1.37	1.90	0.21	0.20	0.11	0.09

Calendar year 1953: Max 49,800 Min 375 Mean 7,167 Cfsm 1.42 In. 19.3
 1953-54: Max 17,500 Min 324 Mean 2,779 Cfsm 0.551 In. 7.49

* Discharge measurement made on this day.

Pearl River near Columbia, Miss.

Location.--Lat 31°14', long 89°51', in E½ sec. 7, T. 3 N., R. 18 W. St. Stephens meridian, near left bank on downstream side of bridge on U. S. Highway 98 (formerly State Highway 24), 1½ miles southwest of Columbia, 2 miles downstream from Fernwood, Columbia & Gulf Railroad bridge, 2¼ miles upstream from Silver Creek, and 2½ miles downstream from Jones Creek.

Drainage area.--5,690 sq mi, approximately.

Records available.--August 1928 to September 1954 (discontinued). Gage-height records collected in vicinity since 1904 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 115.81 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Prior to May 26, 1934, chain gage at site 1 mile downstream at datum 0.37 ft higher.

Average discharge.--25 years (1928-29, 1930-54), 7,375 cfs.

Extremes.--Maximum discharge during year, 18,300 cfs Mar. 31 (gage height, 14.53 ft); minimum, 740 cfs Sept. 14-16; minimum gage height, 0.88 ft Sept. 16.

1928-54: Maximum discharge, 72,600 cfs Apr. 9, 1938 (gage height, 26.40 ft); minimum, 705 cfs Oct. 21, 1952 (gage height, 0.81 ft).

Flood of 1874 reached a stage of about 31 ft, from information by U. S. Weather Bureau.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Aug. 11-31)

Oct. 1 to May 14

May 15 to Sept. 30

1.3	890	7.0	5,630	0.9	740	7.0	5,630
2.0	1,240	10.0	9,700	2.0	1,340	10.0	9,700
4.0	2,630	15.0	18,400	4.0	2,890	14.0	17,200

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,040	940	1,090	3,350	9,700	4,860	16,600	4,330	2,490	1,310	1,310	890
2	1,020	940	1,190	2,720	9,700	4,750	14,000	4,530	2,250	1,310	1,250	865
3	1,020	940	1,320	2,310	9,250	4,860	11,400	8,800	2,170	1,280	1,220	840
4	1,020	940	1,930	2,150	8,950	4,860	9,600	11,900	*2,090	1,250	1,190	815
5	990	965	3,440	2,150	8,800	4,860	8,950	14,200	2,170	1,280	g1,160	790
6	990	965	4,750	2,230	8,800	4,640	8,650	14,800	2,010	1,550	g1,130	790
7	990	940	3,830	2,150	8,950	4,330	8,060	14,000	1,890	1,340	g1,100	790
8	990	965	*2,810	2,070	9,100	3,930	7,110	12,200	1,770	1,250	g1,040	815
9	965	965	3,970	2,000	9,100	3,730	*5,750	11,000	1,690	1,250	g1,020	865
10	965	940	3,870	<u>1,930</u>	8,800	3,530	4,640	10,300	1,620	1,480	g990	*865
11	965	940	6,720	2,000	*7,780	*3,350	4,130	10,800	1,550	1,250	g1,020	815
12	965	940	6,590	2,310	6,230	3,170	5,520	12,200	1,510	1,190	g1,020	765
13	965	940	5,190	2,720	4,860	2,990	6,110	15,600	1,480	1,190	g990	765
14	965	940	4,130	2,470	4,030	2,810	4,750	16,800	1,440	1,190	g990	765
15	940	940	3,530	*2,150	3,630	2,630	4,130	16,600	1,410	1,930	g940	740
16	940	940	3,170	2,900	3,350	2,470	4,530	15,600	1,370	*2,490	g940	740
17	940	965	2,720	5,750	3,170	2,310	7,640	14,400	1,480	2,890	g915	840
18	940	965	2,550	6,470	2,990	2,230	10,700	12,800	1,620	2,570	g915	890
19	940	*1,040	2,470	5,630	2,810	2,310	10,000	11,400	1,480	1,890	g915	965
20	*915	1,290	2,470	5,190	2,990	2,810	8,060	10,000	1,440	1,970	g890	1,020
21	915	1,220	2,630	5,300	4,030	3,830	7,370	8,500	1,410	2,090	g940	915
22	915	1,390	3,170	5,410	6,110	3,730	6,980	6,590	1,340	1,810	g965	840
23	915	1,350	4,030	6,720	5,630	3,170	6,720	5,080	1,310	1,820	g940	815
24	915	1,350	3,080	8,060	5,190	2,810	7,110	4,130	1,340	1,480	g1,020	890
25	915	1,260	2,390	8,350	5,750	2,810	7,240	3,610	1,440	1,440	*1,130	1,100
26	915	1,160	2,070	8,060	5,990	2,900	6,850	3,290	1,440	1,410	1,070	965
27	940	1,120	1,930	7,920	5,870	3,170	5,990	3,050	1,440	1,370	1,020	865
28	940	1,080	1,930	7,780	5,300	6,090	5,080	*3,050	1,440	1,310	965	790
29	940	1,040	2,310	7,920	-----	14,000	4,640	3,570	1,340	1,340	965	790
30	940	1,040	3,080	7,920	-----	17,500	4,530	2,970	1,310	*1,370	965	790
31	940	-----	3,730	8,500	-----	18,300	-----	2,810	-----	1,310	940	-----
Total	29,655	31,380	100,090	142,590	176,860	149,740	222,840	288,710	48,740	48,410	31,865	25,390
Mean	957	1,046	3,229	4,600	6,316	4,830	7,428	9,313	1,625	1,562	1,028	846
Cfs/m	0.168	0.184	0.567	0.808	1.11	0.849	1.31	1.64	0.286	0.275	0.181	0.149
In.	0.19	0.21	0.65	0.93	1.16	0.98	1.46	1.89	0.32	0.32	0.21	0.17

Calendar year 1953: Max 50,100 Min 915 Mean 8,484 Cfs/m 1.49 In. 20.24
Water year 1953-54: Max 18,300 Min 740 Mean 3,551 Cfs/m 0.624 In. 8.49

* Discharge measurement made on this day.

g Computed from once-daily wire-weight-gage readings.

Pearl River near Bogalusa, La.

Location.--Lat 30°47'35", long 89°49'15", on line between secs. 17 and 18, T. 3 S., R. 14 E., near right bank on downstream side of bridge on State Highway 35, 2 miles east of Bogalusa and 2 miles upstream from Bogue Lusa.

Drainage area.--6,630 sq mi, approximately.

Records available.--October 1938 to September 1954.

Gage.--Water-stage recorder. Prior to July 29, 1954, wire-weight gage at same site and datum. Datum of gage is 55.00 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Average discharge.--16 years, 9,083 cfs.

Extremes.--Maximum discharge during year, 22,500 cfs Dec. 15 (gage height, 18.51 ft); minimum, 1,100 cfs Sept. 15, 16, 17; minimum gage height, 5.36 ft Sept. 16.

1938-54: Maximum discharge, 60,000 cfs Jan. 25, 26, 1947; maximum gage height, 20.32 ft Jan. 13, 1950; minimum discharge, that of Sept. 15, 16, 17, 1954; minimum gage height, that of Sept. 16, 1954.

Flood of Apr. 11, 1938, reached a stage of 21.0 ft.

Remarks.--Records good.

Cooperation.--Three discharge measurements furnished by Corps of Engineers.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1-24)

Oct. 1-24		Oct. 25 to May 7			May 8 to Sept. 30				
6.7	1,360	6.1	1,370	14.0	8,290	5.4	1,120	13.0	7,300
6.8	1,420	7.0	1,880	15.0	10,000	5.5	1,180	14.0	8,690
		8.0	2,500	16.0	12,200	6.0	1,460	15.0	10,300
		9.0	3,180	17.0	14,800	7.0	2,060	16.0	12,200
		11.0	4,820	18.0	18,500	9.0	3,360	17.0	14,800
		13.0	6,910	18.4	21,500	11.0	4,990	17.6	16,800

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,420	1,420	*1,590	5,390	9,300	6,110	17,600	5,200	3,500	2,060	2,250	1,290
2	1,420	1,420	1,540	5,000	10,400	5,690	17,600	5,000	3,230	2,060	2,060	1,280
3	1,420	*1,370	2,160	4,380	10,600	5,490	15,400	5,300	3,020	2,060	1,940	1,210
4	1,420	1,370	12,700	3,960	10,200	5,390	13,500	8,850	2,890	2,120	1,820	1,210
5	1,420	1,370	11,100	3,800	9,850	5,490	11,300	11,700	2,760	2,120	1,820	1,180
6	1,360	1,370	13,200	3,800	9,660	5,590	10,000	13,700	2,830	2,310	1,760	1,150
7	1,360	1,370	16,400	3,640	9,480	5,590	9,500	14,800	2,760	2,570	1,700	1,150
8	1,360	1,420	14,500	3,560	9,660	5,200	8,780	14,500	2,680	2,370	1,640	*1,150
9	1,360	1,540	11,200	3,400	9,660	4,910	7,990	13,400	2,500	2,180	1,580	1,150
10	1,360	1,540	13,200	3,530	9,850	4,640	6,670	12,200	2,370	2,310	1,520	1,240
11	1,360	1,480	16,800	3,720	9,480	4,380	5,590	*11,400	2,310	2,700	1,460	1,260
12	1,360	1,480	15,100	4,040	8,610	4,210	5,200	11,600	2,250	2,440	1,460	1,210
13	1,360	1,480	19,100	3,880	7,160	4,040	5,590	12,700	2,250	2,060	1,430	1,150
14	1,360	1,420	21,500	3,880	6,000	3,960	6,220	14,800	2,180	1,880	1,430	1,120
15	1,360	1,420	17,700	3,880	5,390	3,720	5,690	16,400	2,180	1,880	1,380	1,100
16	1,360	1,420	7,620	3,800	4,910	3,480	9,050	16,800	*2,120	2,120	1,350	1,120
17	1,360	1,420	5,490	4,550	4,640	3,260	14,200	16,600	2,060	2,700	*1,320	1,260
18	1,360	1,420	4,820	5,960	4,210	3,180	12,900	15,400	2,180	3,500	1,290	1,380
19	1,360	1,420	4,410	7,160	3,960	3,180	12,900	14,200	2,310	3,500	1,290	1,400
20	1,360	1,880	3,960	6,790	4,700	3,560	11,400	12,200	2,250	*3,160	1,290	1,400
21	1,360	2,240	5,130	6,220	6,440	3,880	9,480	11,400	2,180	3,160	1,350	1,430
22	1,420	2,760	6,790	6,220	6,220	4,480	7,450	9,950	*2,120	2,960	1,320	1,380
23	1,420	2,640	7,160	6,220	6,910	4,480	7,840	8,110	2,060	2,570	1,380	1,260
24	1,420	2,500	6,670	7,160	*6,910	4,040	7,700	6,420	2,060	2,370	1,400	1,210
25	1,420	2,310	6,110	8,290	6,670	3,640	7,700	*5,290	2,120	2,370	1,380	1,210
26	1,420	2,060	5,490	*8,950	6,790	3,560	7,700	4,510	2,120	2,310	1,430	1,380
27	1,420	1,880	4,530	8,950	6,790	3,800	7,580	4,170	2,120	2,250	1,460	1,430
28	1,420	1,620	3,800	8,780	6,670	6,040	*6,790	3,940	2,180	2,160	1,430	1,290
29	1,420	1,760	*4,540	8,610	-	9,540	5,890	3,780	2,310	2,170	1,350	1,210
30	1,420	1,700	4,210	8,610	-	3,200	5,590	4,010	2,180	2,310	1,320	1,180
31	1,420	-----	4,260	8,780	-----	16,000	-----	3,640	-----	2,440	1,320	-----
Total	43,060	50,700	272,580	174,710	211,120	163,490	281,180	512,870	72,030	75,140	46,930	37,370
Mean	1,389	1,690	8,793	5,636	7,540	5,274	9,373	10,090	2,401	2,424	1,514	1,246
Cfs/m	0.210	0.255	1.33	0.850	1.14	0.795	1.41	1.52	0.362	0.366	0.228	0.188
In.	0.24	0.28	1.53	0.98	1.18	0.92	1.58	1.75	0.40	0.42	0.26	0.21

Calendar year 1953: Max 50,400 Min 1,360 Mean 10,400 Cfs/m 1.57 In. 21.30
Water year 1953-54: Max 21,500 Min 1,100 Mean 4,770 Cfs/m 0.719 In. 8.75

* Discharge measurement made on this day.

Bogue Lusa near Franklinton, La.

Location.--Lat 30°52'05", long 90°00'10", in NE 1/4 sec. 21, T. 2 S., R. 12 E., St. Helena meridian, near right bank at downstream side of bridge on State Highway 35 at Sheridan store, three-quarters of a mile upstream from Witches Creek and 9 miles east of Franklinton.

Drainage area.--12.1 sq mi.

Records available.--October 1948 to September 1954.

Gage.--Water-stage recorder. Prior to Dec. 2, 1948, staff gage at same site and datum.

Average discharge.--6 years, 20.6 cfs.

Extremes.--Maximum discharge during year, 1,900 cfs Dec. 6 (gage height, 9.24 ft); minimum, 1.6 cfs June 10 (gage height, 1.25 ft), caused by temporary dam upstream; minimum daily, 1.9 cfs Sept. 1-4.

1948-54: Maximum discharge, 4,020 cfs Nov. 26, 1948 (gage height, 11.0 ft, from graph based on gage readings); minimum, 0.2 cfs June 4, 1952, caused by temporary dam upstream; minimum daily, 1.3 cfs July 1, 1952.

Remarks.--Records good.

Rating tables, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Feb. 22, 23, Feb. 25 to
Mar. 5, Mar. 7-18, Aug. 30 to Sept. 15)

Oct. 1 to Nov. 20

Nov. 21 to Sept. 30

1.4	1.6	2.5	20	1.2	1.3	4.0	67
1.5	2.7	3.0	32	1.5	3.7	5.0	124
1.7	5.3	3.5	44	1.7	6.1	6.0	257
2.0	10	4.0	60	2.0	12	7.0	488
				2.5	23	7.6	700
				3.0	36		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.7	3.5	6.3	20	14	13	9.5	5.3	4.2	3.5	7.7	*1.9
2	2.8	*3.5	6.1	19	12	13	9.0	8.2	4.0	7.5	5.2	1.9
3	2.9	3.4	353	18	12	13	8.8	34	3.9	18	4.5	1.9
4	2.7	4.0	298	20	12	13	8.8	24	3.6	6.0	3.9	1.9
5	2.6	8.2	130	35	11	13	8.4	9.3	3.5	14	3.6	2.0
6	2.5	6.5	675	22	11	24	7.9	7.1	3.5	75	3.2	2.2
7	2.5	4.6	89	16	11	18	7.4	6.3	3.6	12	3.0	2.2
8	2.5	8.9	36	16	11	14	7.1	6.0	3.8	9.0	3.0	2.2
9	2.5	9.9	460	16	11	13	6.6	5.6	3.5	13	2.7	2.2
10	2.5	5.9	141	30	11	13	6.3	5.7	3.2	48	2.6	2.1
11	2.5	4.5	138	44	12	13	6.1	5.7	3.2	13	2.6	2.2
12	2.5	4.0	251	21	11	13	6.3	12	3.2	6.1	2.3	2.0
13	2.6	5.9	71	17	10	13	6.1	17	3.3	5.4	2.2	2.0
14	2.6	3.8	63	17	10	16	5.6	9.3	11	7.1	2.2	2.1
15	2.6	3.8	36	21	11	12	19	6.4	7.0	5.4	2.6	2.0
16	2.6	3.9	26	40	13	11	414	5.6	5.2	4.8	3.8	2.6
17	2.5	4.0	21	23	14	11	63	5.3	14	24	*3.1	26
18	2.5	4.0	19	18	11	11	22	5.1	12	13	2.7	15
19	2.6	6.8	17	17	11	24	15	4.9	6.7	*6.9	2.7	5.3
20	2.6	58	71	17	39	24	10	5.1	5.4	7.1	3.3	3.7
21	2.6	22	71	17	24	12	8.6	4.6	*4.8	6.0	3.0	3.2
22	2.6	19	131	16	14	*10	12	4.4	4.8	4.9	3.2	2.9
23	2.6	17	79	15	*15	10	14	4.2	4.7	4.4	4.2	2.6
24	2.7	9.5	35	15	26	10	8.8	*4.1	7.7	11	6.1	2.9
25	2.8	7.5	26	*14	17	10	7.4	4.5	17	32	4.2	3.4
26	3.0	6.6	22	14	14	11	6.4	4.6	8.4	9.5	3.3	2.9
27	3.2	6.0	20	14	14	24	*6.0	4.8	5.3	7.4	2.8	2.8
28	3.2	6.0	38	13	13	44	5.4	4.8	5.2	6.7	2.6	2.8
29	3.2	5.8	*44	13	-	16	5.1	4.5	4.9	27	2.5	3.1
30	3.2	*6.3	32	13	-----	13	4.7	4.2	3.9	76	2.2	3.2
31	3.3	-----	26	16	-----	11	-----	4.5	-----	16	2.1	-----
Total	84.2	260.8	3,431.4	807	395	466	723.3	237.1	174.5	499.7	103.1	113.2
Mean	2.72	8.69	111	19.6	14.1	15.0	24.1	7.65	5.82	16.1	3.53	3.77
Cfsm	0.225	0.718	9.17	1.62	1.17	1.24	1.99	0.632	0.481	1.33	0.275	0.312
In.	0.26	0.80	10.55	1.87	1.21	1.43	2.22	0.73	0.54	1.54	0.32	0.35
Calendar year 1953: Max	711			Min	2.0	Mean	26.3	Cfsm	2.17	In.	29.50	
Water year 1953-54: Max	675			Min	1.9	Mean	19.4	Cfsm	1.60	In.	21.82	

Peak discharge (base, 350 cfs).--Dec. 3 (9 p.m.) 1,750 cfs (9.10 ft); Dec. 6 (5:30 a.m.) 1,900 cfs (9.24 ft); Dec. 9 (12:30 p.m.) 1,260 cfs (8.57 ft); Dec. 12 (1 a.m.) 474 cfs (6.95 ft); Apr. 16 (11:30 a.m.) 872 cfs (7.96 ft).

* Discharge measurement made on this day.

Bogue Chitto near Tylertown, Miss.

Location.--Lat 31°11', long 90°17', in SE¼ sec. 34, T. 3 N., R. 9 E., Washington meridian, near right bank on downstream side of bridge on U. S. Highway 98 (formerly State Highway 24), a quarter of a mile upstream from Fernwood, Columbia & Gulf Railroad bridge, a quarter of a mile upstream from Bars Branch, 2½ miles downstream from Topisaw Creek, and 9 miles northwest of Tylertown.

Drainage area.--502 sq mi.

Records available.--August 1944 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 227.40 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Average discharge.--10 years, 892 cfs.

Extremes.--Maximum discharge during year, 2,120 cfs Jan. 17 (gage height, 11.10 ft); minimum, 181 cfs Sept. 13, 14 (gage height, 7.21 ft).
1944-54: Maximum discharge, 45,700 cfs Jan. 7, 1950 (gage height, 33.50 ft); minimum, that of Sept. 13, 14, 1954.

Remarks.--Records good except those for period of no gage-height record, which are fair.

Rating tables, water year 1953-54 (gage height, in feet,
and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1-6)

Oct. 1 to Jan. 17			Jan. 18 to Sept. 30		
7.6	236		7.2	180	9.0 828
8.0	344		7.6	261	10.0 1,360
9.0	776		8.0	395	11.0 2,050
11.0	2,050				

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	250	255	306	1,120	970	395	480	284	273	267	270	193
2	250	250	303	776	922	384	427	287	267	253	256	192
3	250	250	371	626	670	384	391	582	261	248	238	190
4	250	255	626	545	582	384	368	898	256	240	235	190
5	250	263	971	502	514	384	357	922	256	240	233	189
6	250	260	914	462	472	387	350	580	253	253	228	195
7	250	258	626	454	435	384	340	423	251	253	224	208
8	248	255	*468	414	423	372	*326	361	245	251	219	243
9	248	270	690	403	403	357	319	329	245	256	221	*208
10	248	263	1,300	418	395	357	312	319	243	281	219	206
11	248	263	1,520	486	*391	*357	309	312	240	582	224	204
12	246	260	1,630	507	*368	357	306	319	235	403	*230	193
13	246	260	1,180	478	361	350	300	*326	233	284	219	192
14	246	258	886	*438	357	336	312	352	415	253	a215	189
15	246	260	776	426	357	329	322	322	293	240	a215	189
16	243	260	674	1,700	357	322	939	312	*253	*240	a210	197
17	243	260	540	1,980	357	319	1,020	300	253	526	a210	273
18	243	260	462	1,390	357	319	898	290	256	300	a205	329
19	243	286	426	875	357	365	582	300	306	278	a205	387
20	*241	378	450	737	484	387	443	648	497	287	a200	312
21	241	344	490	670	531	411	384	805	395	287	a220	245
22	238	378	912	714	737	403	357	648	306	287	a230	217
23	238	414	1,000	737	539	365	368	419	287	251	a220	221
24	238	414	699	692	510	360	326	336	372	235	a210	235
25	238	344	549	604	497	336	319	303	278	233	208	221
26	243	317	486	556	493	336	322	290	278	230	217	212
27	250	306	446	522	456	484	346	293	300	230	214	214
28	250	300	502	484	423	714	312	296	284	233	210	214
29	250	300	776	464	-	935	300	329	267	245	208	224
30	248	303	1,240	460	-	863	287	316	261	273	204	226
31	248	-	1,390	626	-	582	-	290	-	284	202	-
Total	7,621	8,754	23,607	21,246	13,698	13,008	12,422	12,751	8,559	8,723	6,819	6,708
Mean	246	292	762	685	469	420	414	411	285	281	220	224
Cfsm	0.490	0.582	1.52	1.36	0.974	0.837	0.825	0.819	0.588	0.560	0.438	0.446
In.	0.56	0.65	1.75	1.57	1.01	0.96	0.92	0.94	0.63	0.65	0.51	0.50
Calendar year 1953: Max 21,300 Min 238 Mean 1,121 Cfsm 2.23 In. 30.30												
Water year 1953-54: Max 1,980 Min 189 Mean 394 Cfsm 0.785 In. 10.65												

Peak discharge (base, 6,000 cfs).--No peak above base.

* Discharge measurement made on this day.

a No gage-height record; discharge estimated on basis of weather records and records for station at Franklinton, La.

PEARL RIVER BASIN

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Bogue Chitto at Franklinton, La.

Location.--Lat 30°50'35", long 90°09'45", in SE $\frac{1}{4}$ sec. 26, T. 2 S., R. 10 E., on right bank just downstream from bridge on State Highway 35, three-quarters of a mile west of Franklinton and $\frac{3}{4}$ miles upstream from Lawrence Creek.

Drainage area.--985 sq mi.

Records available.--August 1928 to September 1931, October 1938 to September 1954. Gage-height records collected in this vicinity since 1922 are contained in reports of U. S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 124.81 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. August 1928 to September 1931 staff gage at site about a quarter of a mile downstream at datum 1.00 ft higher. October 1938 to June 22, 1939, wire-weight gage at same site and datum.

Average discharge.--19 years, 1,653 cfs.

Extremes.--Maximum discharge during year, 8,020 cfs Dec. 10 (gage height, 8.38 ft); minimum, 406 cfs Sept. 5, 15, 16 (gage height -0.02 ft).
1928-31, 1938-54: Maximum discharge, 50,000 cfs Mar. 21, 1943 (gage height, 18.46 ft); minimum, 350 cfs Nov. 6-8, 1938; minimum gage height, -0.09 ft Oct. 7, 1952.
Maximum stage known, 27.6 ft, former site and datum, from floodmark, sometime in April 1900.

Remarks.--Records good.

Rating table, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Nov. 5-19, 21, Nov. 24 to Dec. 3, Jan. 19 to Mar. 27, Apr. 20 to May 3, July 18-21, Aug. 12 to Sept. 30)

-0.2	390	4.0	3,140
0.0	470	5.0	4,120
.5	695	6.0	5,200
1.0	945	7.0	6,300
2.0	1,520	7.5	6,980
3.0	2,240		

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	600	564	672	2,400	1,340	1,000	1,140	628	596	589	672	*414
2	600	*582	672	2,000	1,680	972	1,000	605	582	650	805	410
3	600	578	1,880	1,680	1,490	945	945	876	574	650	589	410
4	596	587	3,480	1,460	1,280	945	895	1,190	560	587	560	410
5	587	628	2,280	1,460	1,160	945	870	<u>1,340</u>	551	600	542	<u>406</u>
6	582	628	4,940	1,340	1,110	1,060	820	1,280	542	695	520	418
7	582	596	3,270	1,250	1,060	1,030	820	945	538	650	510	438
8	578	628	1,880	1,160	1,030	972	795	820	533	605	502	438
9	578	650	4,560	1,140	1,000	945	770	745	528	605	488	462
10	569	605	<u>6,980</u>	1,280	972	945	745	720	520	845	479	454
11	569	596	5,090	1,620	972	920	745	695	515	745	466	434
12	564	596	6,640	1,400	945	920	720	720	510	895	454	430
13	560	592	4,760	1,310	920	895	720	745	510	745	454	418
14	560	592	3,420	1,250	920	870	720	720	692	605	442	410
15	560	592	2,490	1,220	945	<u>845</u>	720	695	<u>1,070</u>	605	438	406
16	560	592	2,000	1,700	945	845	1,220	672	662	592	438	426
17	560	592	1,660	<u>3,040</u>	920	845	1,120	672	596	682	*434	650
18	556	592	1,400	2,950	920	845	1,490	672	573	870	430	650
19	556	631	1,250	2,160	920	958	1,310	650	605	*770	426	596
20	558	1,010	1,540	1,720	1,620	1,110	972	672	650	720	438	610
21	551	920	1,930	1,520	1,490	1,000	845	1,020	*745	672	446	551
22	551	<u>1,810</u>	3,110	1,430	1,340	*972	770	1,160	672	650	438	488
23	546	1,350	3,820	1,430	*1,370	945	770	972	605	650	450	462
24	551	972	2,760	1,430	1,310	885	745	*770	650	628	446	458
25	546	870	2,160	*1,340	1,250	870	695	695	672	650	430	470
26	556	770	1,660	1,280	1,160	870	672	650	605	650	430	454
27	569	720	1,400	1,220	1,140	930	*672	650	587	582	434	446
28	564	695	*1,560	1,160	1,080	2,010	672	628	596	582	430	462
29	560	672	1,930	<u>1,110</u>	-	1,760	650	628	596	741	442	628
30	560	*672	2,160	1,110	-----	1,690	<u>628</u>	650	574	<u>920</u>	430	510
31	560	-----	2,580	1,160	-----	1,430	-----	628	-----	770	<u>418</u>	-----
Total	17,587	21,882	85,834	47,710	32,269	32,182	26,256	24,513	18,209	21,225	14,661	14,219
Mean	567	729	2,769	1,539	1,152	1,038	875	791	607	685	473	474
Cfsm	0.576	0.740	2.81	1.56	1.17	1.05	0.888	0.803	0.616	0.695	0.480	0.481
In.	0.66	0.83	3.24	1.80	1.22	1.22	0.99	0.93	0.69	0.80	0.55	0.54
Calendar year 1953:	Max	27,300	Min	546	Mean	2,057	Cfsm	2.09	In.	28.35		
Water year 1953-54:	Max	6,860	Min	406	Mean	977	Cfsm	0.992	In.	15.47		

Peak discharge (base, 7,000 cfs).--Dec. 10 (5 a.m.) 8,020 cfs (8.38 ft); Dec. 12 (8 a.m.) 7,120 cfs (7.67 ft).

* Discharge measurement made on this day.

Bogue Chitto near Bush, La.

Location.--Lat 30°37'45", long 89°53'50", in T. 5 S., R. 13 E., near center of span on downstream side of bridge on State Highway 7, 0.2 mile downstream from Gulf, Mobile and Ohio Railroad bridge and 1.4 miles north of Bush.

Drainage area.--1,210 sq mi, approximately.

Records available.--October 1937 to September 1954.

Gage.--Water-stage recorder. Datum of gage is 44.25 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Prior to Oct. 22, 1938, staff gage, Oct. 22, 1938, to Nov. 30, 1945, chain gage, and Dec. 1, 1945, to July 21, 1954, wire-weight gage. All gages at same site and datum.

Average discharge.--17 years, 1,959 cfs.

Extremes.--Maximum discharge during year, 9,050 cfs Dec. 7 (gage height, 10.74 ft), minimum, 485 cfs Sept. 2 (gage height, 2.14 ft).
1937-54: Maximum discharge, 51,200 cfs Mar. 23, 1943 (gage height, 15.9 ft), from rating curve extended above 20,000 cfs on basis of records for station at Franklinton; minimum, 460 cfs Oct. 1, 1937; minimum gage height, 0.7 ft Oct. 1, 1937, Oct. 29-31, 1940, Oct. 22-27, 1941.

Remarks.--Records fair.

Cooperation.--Four discharge measurements furnished by Corps of Engineers.

Rating tables, water year 1953-54 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Dec. 5				Dec. 6 to July 30				July 31 to Sept. 30			
2.7	580	6.0	1,770	2.6	680	8.0	3,380	2.2	500		
3.0	660	8.0	3,280	3.0	790	8.9	4,370	3.0	755		
4.0	975	8.5	3,820	4.0	1,130	9.5	5,390	4.0	1,120		
5.0	1,340	8.9	4,370	5.0	1,540	10.0	6,520	4.8	1,460		
Note.--Same as following table above 8.9 ft.				6.0	2,020	10.6	8,600				
				7.0	2,620						

Discharge, in cubic feet per second, water year October 1953 to September 1954

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	630	605	*750	2,950	1,370	1,170	1,640	850	760	705	1,120	530
2	630	605	750	2,650	1,460	1,090	1,500	850	730	705	860	500
3	630	*605	1,370	2,310	1,540	1,060	1,330	880	705	705	738	500
4	630	605	4,060	1,970	1,460	1,060	1,170	1,170	705	705	685	500
5	630	660	7,300	1,920	1,330	1,060	1,060	1,410	680	730	650	500
6	630	660	7,100	2,020	1,210	1,130	1,020	1,330	680	730	635	500
7	605	660	8,110	1,870	1,130	1,250	950	1,210	680	790	605	530
8	605	690	6,680	1,840	1,130	1,210	915	1,020	680	760	605	*545
9	605	720	6,520	1,410	1,090	1,130	915	950	680	820	590	545
10	605	690	7,450	1,500	1,090	1,090	880	880	680	915	575	575
11	605	660	7,800	1,820	1,060	1,060	850	*850	680	950	575	560
12	605	660	8,600	2,070	1,060	985	850	850	680	880	560	530
13	605	660	7,450	1,820	1,060	950	880	915	680	880	560	515
14	605	630	6,520	1,640	1,020	950	850	850	705	790	560	500
15	605	630	4,960	1,540	1,060	950	850	820	985	760	560	500
16	605	630	3,560	1,540	1,020	950	1,580	820	*985	730	*560	545
17	605	630	2,830	2,020	1,020	915	3,450	820	*820	705	545	1,190
18	605	630	2,370	2,760	985	915	2,760	820	730	680	545	1,080
19	580	660	2,020	2,690	985	950	2,110	850	710	790	545	860
20	580	1,010	1,770	2,250	1,330	1,130	1,720	1,020	710	*790	530	755
21	580	1,180	1,770	1,920	1,720	1,170	1,460	1,020	810	790	545	738
22	580	1,180	2,190	1,680	1,770	*1,060	1,250	985	*850	730	560	668
23	580	1,220	3,130	1,590	1,680	1,020	1,090	985	790	705	560	605
24	580	1,300	4,370	1,540	*1,540	985	985	950	760	705	590	590
25	580	1,300	3,980	1,540	1,370	985	985	*880	730	760	575	590
26	605	1,220	2,900	*1,500	1,290	950	950	820	730	760	545	590
27	605	1,120	2,310	1,410	1,250	1,020	915	790	705	760	545	560
28	605	1,010	2,020	1,330	1,250	1,720	*880	790	705	730	560	560
29	605	870	2,250	1,290	-----	2,070	880	760	705	820	545	575
30	605	780	*2,550	1,290	-----	2,020	880	760	730	1,410	560	685
31	605	-----	2,620	1,330	-----	1,770	-----	790	-----	1,460	530	-----
Total	18,730	24,480	128,080	56,810	35,280	35,775	37,555	28,695	22,180	25,150	18,718	18,421
Mean	604	816	4,132	1,833	1,260	1,154	1,252	926	739	811	604	614
Cfs/m	0.499	0.674	3.41	1.51	1.04	0.954	1.03	0.765	0.611	0.670	0.499	0.507
In.	0.58	0.75	3.94	1.75	1.08	1.10	1.15	0.98	0.68	0.77	0.58	0.57

Calendar year 1953: Max 29,200 Min 580 Mean 2,385 Cfs/m 1.97 In. 26.76

Water year 1953-54: Max 8,600 Min 500 Mean 1,233 Cfs/m 1.02 In. 13.83

Peak discharge (base, 8,000 cfs).--Dec. 7 (5 p.m.) 9,050 cfs (10.74 ft); Dec. 12 (12:30 p.m.) 8,600 cfs (10.63 ft).

* Discharge measurement made on this day.

Measurements of streamflow in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River made at points other than regular gaging stations are given in the following table. Most of 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 where continuous records are available will give a picture of the low-flow potentiality of stream. For many sites measurements have been made in other years.

Determinations of peak flow at points other than regular gaging stations are given in a separate table on page 373.

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954

Ogeechee River basin, Ga.

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Jan. 20	Little Ogeechee River.	Ogeechee River...	Lat 33°12', long 82°47', at State Highway 102, at Hamburg.	55.9	47.5
Sept. 10	Barkcamp Creek....	....do.....	Lat 32°55', long 82°10', at State Highway 17, 4½ miles east of Midville.	32.0	0
10	Chew Mill.....	....do.....	Lat 34°49', long 82°05', at State Highway 17, 2½ miles northeast of Hendon.	-	.28
10	Tributary to Ogeechee River.	....do.....	Lat 34°48', long 82°01', at State Highway 17, 4½ miles west of Millen.	-	0
July 12	Magnolia Springs..	Buckhead Creek....	Lat 32°52', long 82°02', about 0.2 miles downstream from State Highway 25 and 5 miles north of Millen.	-	11.3
Sept. 10	....do.....	....do.....	....do.....	-	9.32
10	Little Buckhead Creek.	....do.....	Lat 32°49', long 82°03', at State Highway 21, 1½ miles north of Millen.	-	.02
9	Richardson Creek..	Ogeechee River....	Lat 32°43', long 81°58', at State Highway 67, 6 miles south of Millen.	-	0
July 28	Horse Creek.....	....do.....	Lat 32°41', long 81°50', at State Highway 167, 1½ miles northwest of Rocky Ford.	-	.02
Sept. 9	....do.....	....do.....	....do.....	-	0
July 28	Ogeechee River....	Atlantic Ocean....	Lat 32°34', long 81°43', at State Highway 73, 9 miles northeast of Statesboro.	-	235
28	Ogeechee Creek....	Ogeechee River....	Lat 32°47', long 81°43', at county road 5 miles northwest of Sylvania.	-	0
Sept. 9	....do.....	....do.....	....do.....	-	0
July 28	....do.....	....do.....	Lat 32°31', long 81°33', at State Highway 167, 0.6 mile west of Oliver.	-	0
Sept. 9	Mill Creek.....	....do.....	Lat 32°28', long 81°45', at State Highway 73, 2½ miles northeast of Statesboro.	-	0
Aug. 19	Black Creek.....	....do.....	Lat 32°10', long 81°29', at State Highway 30, 4½ miles southwest of Eldorado.	-	0
Sept. 9	....do.....	....do.....	....do.....	-	.69
Aug. 23	Canoochee River...	....do.....	Lat 32°36', long 82°15', at State Highway 26, 4½ miles east of Swainsboro.	47.5	0
23	Little Canoochee River.	Canoochee River...	Lat 32°36', long 82°14', at State Highway 26, 6 miles east of Swainsboro.	-	0
Sept. 9	Lotts Creek.....	....do.....	Lat 32°22', long 81°51', at State Highway 73, 7 miles southwest of Statesboro.	-	0
9	Canoochee River...	Ogeechee River....	Lat 32°09', long 81°47', at State Highway 30, 2 miles west of Groveland.	-	6.10
Oct. 1	....do.....	....do.....	Lat 33°03', long 81°39', at State Highway 67, about 6 miles south of Pembroke.	952	6,990

Altamaha River basin, Ga.

Sept. 29	Sugar Creek.....	South River.....	Lat 33°42', long 84°18', at Clifton Church Road, 2½ miles east of Constitution.	8.8	0.06
29	Shoal Creek.....	....do.....	Lat 33°42', long 84°16', at Rainbow Drive, 5 miles southeast of Decatur.	7.45	1.43
28	Snapfinger Creek..	....do.....	Lat 33°47', long 84°13', at Rockbridge Road, east of Decatur.	6.9	.61
28	Indian Creek.....	Snapfinger Creek..	Lat 33°46', long 84°13', at Indian Creek Road, east of Decatur.	4.60	.45
28	Snapfinger Creek..	South River.....	Lat 33°44', long 84°11', at State Highway 12, east of Decatur.	28	2.83
29	Pole Bridge Creek.	....do.....	Lat 33°43', long 84°08', at State Highway 12, west of Lithonia.	3.4	.42
21	Jackson Creek.....	....do.....	Lat 33°36', long 84°06', at county road, 6½ miles southeast of Conyers and 0.6 mile upstream from mouth.	3.3	.52

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Altamaha River basin, Ga.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept. 21	Upton Creek.....	Cotton Creek.....	Lat 33°36', long 84°17', at county road, 4½ miles southeast of Forest Park.	5.0	0.25
27	Panther Creek.....	Upton Creek.....	Lat 33°34', long 84°16', at State Highway 42, 2½ miles northwest of Stockbridge.	7.9	.38
27	Cotton Creek.....	Big Cotton River..	Lat 33°33', long 84°11', at State Highway 138, 3½ miles east of Stockbridge.	46	1.60
21	Rum Creek.....	Line Creek.....	Lat 33°32', long 84°21', at State Highway 138, east of Jonesboro.	.75	.14
28	Line Creek.....	Cotton Indian Creek.	Lat 33°31', long 84°14', at county road, 1½ miles south of Stockbridge.	18	1.52
28	Reeves Creek.....	...do.....	Lat 33°32', long 84°13', at county road, 1½ miles southeast of Stockbridge.	11	.64
28	Pates Creek.....	...do.....	Lat 33°30', long 84°13', at county road, 3 miles southeast of Stockbridge.	17	1.03
28	Cotton Indian Creek.	Big Cotton Creek..	Lat 33°32', long 84°12', at State Highway 42, 2½ miles southeast of Stockbridge.	50	3.26
28	Walnut Creek.....	South River.....	Lat 33°28', long 84°10', at State Highway 42, 1½ miles northwest of McDonough.	30	2.15
28	Camp Creek.....	Walnut Creek.....	Lat 33°28', long 84°10', at State Highway 42, 1½ miles northwest of McDonough.	7.2	1.24
29	Walnut Creek.....	South River.....	Lat 33°29', long 84°06', at State Highway 20, 4 miles northeast of McDonough.	51	4.89
Oct. 6	Yellow River.....	Ocmulgee River....	Lat 34°00', long 83°59', at State Highway 20, 3 miles north of Lawrenceville.	2.09	.65
13	...do.....	...do.....	...do.....		.55
26	...do.....	...do.....	...do.....		.51
May 19	...do.....	...do.....	...do.....		1.56
July 15	...do.....	...do.....	...do.....		.53
29	...do.....	...do.....	...do.....		.08
Oct. 6	...do.....	...do.....	Lat 33°59', long 84°01', at county road, 2½ miles northwest of Lawrenceville.	6.08	2.06
13	...do.....	...do.....	...do.....		1.47
27	...do.....	...do.....	...do.....		1.54
6	Little Suwannee Creek.	Yellow River.....	Lat 34°01', long 84°01', at county road, 4 miles southwest of Suwannee.	4.99	1.68
13	...do.....	...do.....	...do.....		1.36
26	...do.....	...do.....	...do.....		1.46
6	Ager Creek.....	Little Suwannee Creek.	Lat 34°00', long 84°02', at county road, 4 miles southeast of Suwannee.	3.17	1.31
13	...do.....	...do.....	...do.....		1.00
26	...do.....	...do.....	...do.....		1.02
5	Little Suwannee Creek.	Yellow River.....	Lat 34°00', long 84°01', at county road, 3½ miles northwest of Lawrenceville.	9.62	2.99
13	...do.....	...do.....	...do.....		2.42
27	...do.....	...do.....	...do.....		3.11
May 19	...do.....	...do.....	...do.....		7.32
July 15	...do.....	...do.....	...do.....		2.33
29	...do.....	...do.....	...do.....		1.10
Sept. 10	...do.....	...do.....	...do.....		0
Oct. 7	Yellow River.....	Ocmulgee River....	Lat 33°59', long 84°01', at county road, 2½ miles northwest of Lawrenceville.	17.7	6.29
13	...do.....	...do.....	...do.....		6.12
27	...do.....	...do.....	...do.....		5.20
14	...do.....	...do.....	Lat 33°58', long 84°02', at State Highway 120, 2½ miles west of Lawrenceville.	19.1	.81
27	...do.....	...do.....	...do.....		5.89
July 15	...do.....	...do.....	...do.....		3.63
29	...do.....	...do.....	...do.....		1.66
Aug. 6	...do.....	...do.....	...do.....		.31
6	...do.....	...do.....	...do.....		.35
12	...do.....	...do.....	...do.....		.78
12	...do.....	...do.....	...do.....		.80
12	...do.....	...do.....	...do.....		.97
12	...do.....	...do.....	...do.....		1.10
16	...do.....	...do.....	...do.....		.29
16	...do.....	...do.....	...do.....		.18
17	...do.....	...do.....	...do.....		.37
17	...do.....	...do.....	...do.....		.12
Oct. 7	Wolf Creek.....	Yellow River.....	Lat 34°00', long 84°03', at county road, 4½ miles northwest of Lawrenceville.	1.83	.55
14	...do.....	...do.....	...do.....		.36
27	...do.....	...do.....	...do.....		.42
July 15	...do.....	...do.....	...do.....		.44
29	...do.....	...do.....	...do.....		.34
Oct. 7	...do.....	...do.....	Lat 33°58', long 84°02', at State Highway 120, 3 miles west of Lawrenceville.	3.84	1.31

MISCELLANEOUS DISCHARGE MEASUREMENTS

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Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Altamaha River basin, Ga.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 14	Wolf Creek.....	Yellow River.....	Lat 33°58', long 84°02', at State Highway 120, 3 miles west of Lawrenceville.	3.84	1.71
Aug. 27	...do.....	...do.....	...do.....		1.07
6	...do.....	...do.....	...do.....		.36
6	...do.....	...do.....	...do.....		.48
12	...do.....	...do.....	...do.....		.45
12	...do.....	...do.....	...do.....		.60
12	...do.....	...do.....	...do.....		.47
12	...do.....	...do.....	...do.....		.44
16	...do.....	...do.....	...do.....		.21
16	...do.....	...do.....	...do.....		.33
17	...do.....	...do.....	...do.....		.26
17	...do.....	...do.....	...do.....		.24
Oct. 7	Yellow River.....	Ocmulgee River....	Lat 33°57', long 84°02', at county road, 3 miles west of Lawrenceville.	25.3	8.27
14	...do.....	...do.....	...do.....		7.19
27	...do.....	...do.....	...do.....		6.66
7	...do.....	...do.....	Lat 33°75', long 84°03', at county road, 3½ miles west of Lawrenceville.	26.5	10.4
14	...do.....	...do.....	Lat 33°57', long 84°03', at county road, 3½ miles west of Lawrenceville.	26.5	6.35
27	...do.....	...do.....	Lat 33°56', long 84°03', at State Highway 8, 3½ miles southwest of Lawrenceville.	28.0	7.84
6	...do.....	...do.....	...do.....		9.02
13	...do.....	...do.....	...do.....		7.18
26	...do.....	...do.....	...do.....		7.09
6	Redland Creek....	Pew Creek.....	Lat 33°57', long 84°02', at State Highway 8, 2½ miles southwest of Lawrenceville.	3.11	1.58
13	...do.....	...do.....	...do.....		1.31
26	...do.....	...do.....	...do.....		1.10
19	...do.....	...do.....	...do.....		1.89
May 15	...do.....	...do.....	...do.....		.50
July 29	...do.....	...do.....	...do.....		.53
Oct. 6	Tributary to Yellow River.	Yellow River.....	Lat 33°58', long 84°02', at county road, 4½ miles southwest of Lawrenceville.	5.99	3.91
13	...do.....	...do.....	...do.....		3.12
27	...do.....	...do.....	...do.....		3.63
6	Yellow River.....	Ocmulgee River....	Lat 33°55', long 84°03', at county road, 1 mile east of Gloster.	43.5	16.9
13	...do.....	...do.....	...do.....		14.6
27	...do.....	...do.....	...do.....		15.6
6	...do.....	...do.....	Lat 35°54', long 84°04', at county road, 0.5 mile south of Gloster.	45.1	17.7
13	...do.....	...do.....	...do.....		15.0
26	...do.....	...do.....	...do.....		14.3
6	Bankstand Creek...	Yellow River.....	Lat 33°54', long 84°04', at county road, 1 mile south of Gloster.	4.32	2.33
14	...do.....	...do.....	...do.....		1.80
26	...do.....	...do.....	...do.....		1.69
6	Pork Creek.....	...do.....	Lat 35°55', long 84°05', at county road, 0.8 mile west of Gloster.	2.34	1.10
14	...do.....	...do.....	...do.....		.89
26	...do.....	...do.....	...do.....		.94
6	Knox Creek.....	Sweetwater Creek..	Lat 33°59', long 84°08', at State Highway 120, 1½ miles southeast of Duluth.	1.48	.34
14	...do.....	...do.....	...do.....		.50
26	...do.....	...do.....	...do.....		.30
6	Pork Creek.....	...do.....	Lat 33°58', long 84°06', at State Highway 120, 3½ miles southeast of Duluth.	1.96	.72
27	...do.....	...do.....	...do.....		.57
6	Sweetwater Creek..	Yellow River.....	Lat 33°57', long 84°06', at county road, 4½ miles southeast of Duluth.	19.5	6.36
14	...do.....	...do.....	...do.....		5.52
27	...do.....	...do.....	...do.....		5.70
6	Beaver Ruin Creek.	Sweetwater Creek..	Lat 33°56', long 84°12', at county road, 1½ miles southeast of Norcross.	2.34	1.23
14	...do.....	...do.....	...do.....		1.10
26	...do.....	...do.....	...do.....		.85
6	...do.....	...do.....	Lat 33°56', long 84°10', at county road, 2½ miles southeast of Norcross.	5.75	2.80
14	...do.....	...do.....	...do.....		2.59
27	...do.....	...do.....	...do.....		2.33
6	Tributary to Beaver Ruin Creek.	Beaver Ruin Creek.	Lat 33°56', long 84°09', at county road, 4 miles east of Norcross.	9.45	4.21
14	...do.....	...do.....	...do.....		3.47
27	...do.....	...do.....	...do.....		3.74
6	...do.....	...do.....	Lat 33°56', long 84°08', at county road, 5 miles east of Norcross.	11.7	4.20
14	...do.....	...do.....	...do.....		4.10
27	...do.....	...do.....	...do.....		4.36

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Altamaha River basin, Ga.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 6	Sweetwater Creek..	Yellow River.....	Lat 33°55', long 84°06', at State Highway 8, 7 miles southwest of Lawrenceville.	48.1	15.7
14	....do.....	....do.....	....do.....		13.6
May 19	....do.....	....do.....	....do.....		25.7
July 15	....do.....	....do.....	....do.....		13.4
29	....do.....	....do.....	....do.....		5.82
Oct. 7	Jackson Creek.....	Sweetwater Creek..	Lat 33°53', long 84°11', at county road, 4½ miles southeast of Norcross.	3.83	1.98
14	....do.....	....do.....	....do.....		1.89
27	....do.....	....do.....	....do.....		2.32
7	....do.....	....do.....	Lat 33°53', long 84°10', at county road, 4½ miles southeast of Norcross.	5.75	2.57
14	....do.....	....do.....	....do.....		2.73
27	....do.....	....do.....	....do.....		2.82
7	Pumpkin Vine Creek	Jackson Creek.....	Lat 33°59', long 84°10', at county road, 3½ miles southeast of Norcross.	1.73	1.01
14	....do.....	....do.....	....do.....		.89
27	....do.....	....do.....	....do.....		1.07
6	Jackson Creek.....	Sweetwater Creek..	Lat 33°54', long 84°09', at county road, 5 miles southeast of Norcross.	9.66	4.63
14	....do.....	....do.....	....do.....		4.54
27	....do.....	....do.....	....do.....		4.63
6	Camp Creek.....	Jackson Creek.....	Lat 33°53', long 84°08', at county road, 6½ miles southeast of Norcross.	5.55	3.18
14	....do.....	....do.....	....do.....		3.80
26	....do.....	....do.....	....do.....		3.22
6	Jackson Creek.....	Sweetwater Creek..	Lat 33°53', long 84°07', at county road, 6½ miles southeast of Norcross.	18.8	9.70
14	....do.....	....do.....	....do.....		9.25
27	....do.....	....do.....	....do.....		8.76
7	Yellow River.....	Ocmulgee River....	Lat 33°53', long 84°05', at county road, 1½ miles southwest of Gloster.	124	48.5
14	....do.....	....do.....	....do.....		41.5
27	....do.....	....do.....	....do.....		44.3
7	....do.....	....do.....	Lat 33°52', long 84°05', at county road, 3½ miles west of Snellville.	126	47.4
14	....do.....	....do.....	....do.....		42.2
27	....do.....	....do.....	....do.....		42.4
Sept. 29	Crooked Creek.....	Stone Mountain Creek.	Lat 33°46', long 84°07', at Stephenson Road, 4 miles north of Lithonia.	7.0	.85
29	Stone Mountain Creek.	Yellow River.....	Lat 33°46', long 84°05', at State Highway 124, 4½ miles north of Lithonia.	29	1.55
29	Swift Creek.....	....do.....	Lat 33°45', long 84°05', at State Highway 124, 2½ miles north of Lithonia.	5.1	.20
20	Haynes Creek.....	....do.....	Lat 33°42', long 83°55', at State Highway 138, 6 miles northeast of Conyers.	49	5.66
21	Little Haynes Creek.	Haynes Creek.....	Lat 33°43', long 83°55', at State Highway 138, 7 miles northeast of Conyers.	25	1.48
22	Mountain Creek....	Alcovy River.....	Lat 33°49', long 83°44', at county road, 2 miles northwest of Monroe.	1.9	.27
22	Richland Creek....	....do.....	Lat 33°42', long 83°44', at county road, 2½ miles northwest of Social Circle.	-	.50
22	Big Flat Creek....	....do.....	Lat 33°50', long 83°52', at State Highway 10, 2½ miles east of Loganville.	5.4	.26
22	Little Flat Creek.	Big Flat Creek....	Lat 33°46', long 83°47', at Highway 138, 4½ miles west of Monroe.	7.0	.80
30	Malholms Creek....	Tussahaw Creek....	Lat 33°20', long 84°01', at county road, 1½ miles northeast of Jenkinsburg.	-	0
8	Herds Creek.....	Ocmulgee River....	Lat 33°21', long 83°49', at county road, 8 miles northwest of Monticello.	15	.40
30	Yellow Water Creek	....do.....	Lat 33°18', long 83°58', at State Highway 56, 1½ miles north of Jackson.	11	.44
30	Plymate Creek.....	Little Sandy Creek	Lat 33°15', long 85°53', at county road, 1 mile east of Flovilla.	3.4	.54
30	Aboothlacoosta Creek.	Big Sandy Creek...	Lat 33°15', long 83°55', near State Highway 42 at Indian Springs, just upstream from confluence with Hopoethylocholo Creek.	-	.89
30	Big Sandy Creek...	Ocmulgee River....	Lat 33°15', long 83°55', at State Highway 42 at Indian Springs.	31	3.20
30	Rocky Creek.....	Big Sandy Creek...	Lat 33°13', long 83°56', at State Highway 42, 2½ miles south of Indian Springs.	6.9	.35

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Altamaha River basin, Ga.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept.30	Big Sandy Creek...	Ocmulgee River....	Lat 33°11', long 83°50', at State Highway 87, 5½ miles southeast of Flowilla.	57	2.43
29	Towaliga River....	....do.....	Lat 33°24', long 84°15', at county road, 2 miles east of Hampton.	5.2	.20
27	....do.....	....do.....	Lat 33°19', long 84°11', at State Highway 155, 7 miles northeast of Griffin.	33	1.89
27	Troublesome Creek.	Towaliga River....	Lat 33°18', long 84°12', at State Highway 155, 6 miles northeast of Griffin.	17	2.98
29	Indian Creek.....	....do.....	Lat 33°21', long 84°08', at county road, 1½ miles west of Locust Grove.	15	1.11
28	Cabin Creek.....	....do.....	Lat 33°16', long 84°16', at county road, ½ mile north of Griffin.	1.8	2.40
28	Buck Creek.....	....do.....	Lat 33°13', long 84°11', at county road, 5 miles south-east of Griffin.	6.27	.50
28	Little Towaliga River.	....do.....	Lat 33°05', long 84°10', at State Highway 7, 1½ miles northwest of Barnesville.	4.63	.63
29	Edie Creek.....	....do.....	Lat 33°09', long 84°09', at county road, 3½ miles northwest of Milner.	7.70	.36
29	Tributary to Edie Creek.	Edie Creek.....	Lat 33°07', long 84°09', at State Highway 36, 4½ miles north of Barnesville.	2.38	.17
8	Falling Creek.....	Caney Creek.....	Lat 33°12', long 83°42', at county road, 7½ miles south of Monticello.	-	0
8	Gladsville Creek..	Little Falling Creek.	Lat 33°12', long 83°47', at State Highway 83, 9½ miles southwest of Monticello.	-	0
July 19	Ocmulgee River....	Altamaha River....	Lat 32°43', long 83°36', at industrial water intake south of Macon.	-	747
Aug. 5	....do.....	....do.....	....do.....	-	711
6	....do.....	....do.....	....do.....	-	541
Sept.28	Tobesofkee Creek..	Ocmulgee River....	Lat 33°02', long 84°07', at county road, 2½ miles east of Barnesville.	5.5	1.49
Dec. 4	Little Tobesofkee Creek.	Tobesofkee Creek..	Lat 33°57', long 84°03', at State Highway 83, 8½ miles southwest of Forsyth.	17	217
4	....do.....	....do.....	....do.....	-	233
Sept.20	Camp Creek.....	Big Creek.....	Lat 32°16', long 83°44', at State Highway 7, at Unadilla.	-	0
22	Prong Creek.....	....do.....	Lat 32°15', long 83°37', at county road, 9 miles southwest of Hawkinsville.	-	3.01
Aug. 24	Big Creek.....	Ocmulgee River....	Lat 32°14', long 83°30', at State Highway 27, 3½ miles southwest of Hawkinsville.	-	6.77
Sept.17	....do.....	....do.....	....do.....	-	13.3
17	Mock Spring.....	Cedar Creek.....	Lat 32°13', long 83°35', at county road, 8½ miles southwest of Hawkinsville.	-	5.57
July 19	Cedar Creek.....	Big Creek.....	Lat 32°13', long 83°30', at State Highway 27, 5 miles southwest of Hawkinsville.	40.3	10.3
Aug. 24	....do.....	....do.....	....do.....	-	4.90
Sept.17	....do.....	....do.....	....do.....	-	5.16
16	Brushy Creek.....	Cedar Creek.....	Lat 32°06', long 83°26', at county road, 5½ miles southeast of Pineview.	-	0
16	Poor Robin Spring.	Ocmulgee River....	Lat 32°01', long 83°18', at spring outlet at site north of Abbeville.	-	2.75
16	House Creek.....	....do.....	Lat 31°51', long 83°15', at county road, 10 miles southeast of Abbeville.	-	0
July 13	Gum Swamp Creek...	Little Ocmulgee River.	Lat 32°27', long 83°17', at State Highway 26, 6½ miles northeast of Cochran.	-	0
Aug. 19	....do.....	....do.....	....do.....	-	0
24	....do.....	....do.....	....do.....	-	0
23	....do.....	....do.....	Lat 32°15', long 83°08', at State Highway 117, 4½ miles northeast of Eastman.	-	0
2	Little Ocmulgee River.	Ocmulgee River....	Lat 32°00', long 82°45', at State Highway 134, at Towns.	363	2.23
23	....do.....	....do.....	....do.....	-	3.61
24	Alligator Creek...	Little Ocmulgee River.	Lat 32°11', long 82°54', at State Highway 51, 8½ miles north of McRae.	-	0
2	Little Creek.....	Alligator Creek...	Lat 32°09', long 82°46', at State Highway 3, 1½ miles east of Alamo.	-	0
23	....do.....	....do.....	....do.....	-	0
2	Alligator Creek...	Little Ocmulgee River.	Lat 32°05', long 82°43', at county road, 6 miles southeast of Alamo.	222	.67
2	....do.....	....do.....	Lat 32°02', long 82°42', at State Highway 134, 9½ miles southeast of Alamo.	245	2.04

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Altamaha River basin, Ga.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Aug. 23	Alligator Creek...	Little Ocmulgee River.	Lat 32°02', long 82°42', at State Highway 134, 9½ miles southeast of Alamo.	245	2.09
23	Sugar Creek.....	Turnpike Creek....	Lat 32°06', long 83°05', at State Highway 165, 1 mile southwest of Chauncey.	-	0
2	....do.....	....do.....	Lat 32°03', long 82°55', at State Highway 30, 1 mile south of McRae.	-	0
23	....do.....	....do.....	....do.....	-	0
Sept. 22	Apalachee River...	Oconee River.....	Lat 33°54', long 83°43', at State Highway 11, 2½ miles south of Bethlehem.	53	8.13
10	Jacks Creek.....	Apalachee River...	Lat 33°48', long 83°41', at U. S. Highway 78, 1½ miles east of Monroe.	6.7	.18
23	....do.....	....do.....	....do.....	6.7	1.60
22	Tributary to Jacks Creek.	Jacks Creek.....	Lat 33°48', long 83°37', at State Highway 83, at Good Hope.	3.0	.56
10	Jacks Creek.....	Apalachee River...	Lat 33°48', long 83°37', at county road, 1 mile northwest of Good Hope.	23	1.81
22	....do.....	....do.....	....do.....	-	3.52
23	Hard Labor Creek..	....do.....	Lat 33°46', long 83°41', at county road, 2½ miles southeast of Monroe.	.6	.01
24	Speeds Branch....	Hard Labor Creek..	Lat 33°37', long 83°29', at county road, 2 miles north of Madison.	2.0	.10
23	Big Sandy Creek...	....do.....	Lat 33°40', long 83°27', at State Highway 24, 1½ miles southwest of Apalachee.	-	2.80
23	Sugar Creek.....	Oconee River.....	Lat 33°33', long 83°22', at county road, 1½ miles south of Buckhead.	-	2.14
9	Rooty Creek.....	....do.....	Lat 33°20', long 83°23', at State Highway 16, at Eatonton.	-	.02
24	Big Indian Creek..	Little River.....	Lat 33°36', long 83°35', at county road, 2½ miles southeast of Rutledge.	-	.18
23	....do.....	....do.....	Lat 33°32', long 83°32', at State Highway 83, 5½ miles southwest of Madison.	-	.77
23	Little Indian Creek.	Big Indian Creek..	Lat 33°31', long 83°30', at county road, 5½ miles south of Madison.	-	.62
9	Gladys Creek.....	Little River.....	Lat 33°21', long 83°26', at county road, 3½ miles northwest of Eatonton.	-	.02
9	Little River.....	Oconee River.....	Lat 33°19', long 83°26', at State Highway 16, 3 miles west of Eatonton.	-	6.12
8	Robinson Creek....	Murder Creek.....	Lat 33°24', long 83°42', at county road, 6 miles northwest of Machen.	-	.26
8	Sheppard Creek....	....do.....	Lat 33°25', long 83°42', at county road, 6½ miles northwest of Machen.	-	.54
7	Pittman Creek.....	....do.....	Lat 33°27', long 83°41', at county road, 6½ miles northwest of Shady Dale.	-	.44
7	Pittman Branch....	Pittman Creek.....	Lat 33°28', long 83°40', at county road, 6½ miles northwest of Shady Dale.	-	.96
8	Murder Creek.....	Little River.....	Lat 33°22', long 83°38', at State Highway 83, 2½ miles southwest of Machen.	-	.55
8	Pearson Creek.....	Shoal Creek.....	Lat 33°19', long 83°42', at State Highway 11, 1½ miles northwest of Monticello.	-	0
8	Murder Creek.....	Little River.....	Lat 33°19', long 83°34', at State Highway 16, 7 miles east of Monticello.	-	2.09
9	Cedar Creek.....	....do.....	Lat 33°11', long 83°26', at State Highway 44, 10 miles south of Eatonton.	-	.16
Aug. 24	Pughes Creek.....	Oconee River.....	Lat 32°30', long 82°46', at State Highway 29, 8½ miles southeast of Dublin.	-	0
July 19	Turkey Creek.....	....do.....	Lat 32°32', long 83°03', at State Highway 19, 8½ miles west of Dublin.	-	9.45
Aug. 24	....do.....	....do.....	....do.....	-	0
24	Mercer Creek.....	....do.....	Lat 32°27', long 82°42', at State Highway 29, 7½ miles southwest of Soperton.	-	0
2	Oshwalkee Creek...	....do.....	Lat 32°11', long 82°59', at State Highway 30, 1½ miles east of Glenwood.	-	0
23	....do.....	....do.....	....do.....	-	.06
July 14	Cobb Creek.....	Altamaha River....	Lat 32°02', long 82°23', at State Highway 56, 1½ miles northeast of Cedar Crossing.	76	0
22	....do.....	....do.....	....do.....	-	0
Aug. 16	....do.....	....do.....	....do.....	-	0

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Altamaha River basin, Ga.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept. 14	Cobb Creek.....	Altamaha River...	Lat 32°02', long 82°23', at State Highway 56, 1½ miles northeast of Cedar Crossing.	76	0
July 13	Ohoopsee River....	....do.....	Lat 32°44', long 82°46', at State Highway 57, 2½ miles west of Wrightsville.	-	0
19	....do.....	....do.....	....do.....	-	0
June 8	Little Ohoopsee River.	Ohoopsee River....	Lat 32°48', long 82°33', at State Highway 78, 11 miles northeast of Wrightsville.	64.3	0
July 21	....do.....	....do.....	....do.....	-	0
Aug. 23	Ohoopsee River....	Altamaha River...	Lat 32°23', long 82°19', at State Highway 4, 2½ miles north of Oak Park.	622	8.16
23	Swift Creek.....	Pendleton Creek...	Lat 32°14', long 82°22', at State Highway 130, 3½ miles northeast of Vidalia.	-	0
25	Tributary to Swift Creek.	Swift Creek.....	Lat 32°13', long 82°20', at State Highway 4, at Lyons.	-	0
23	Rocky Creek.....	Ohoopsee River....	Lat 32°12', long 82°25', at county road, southwest of Vidalia.	-	0

Satilla River basin, Ga.

July 12	Satilla River....	Atlantic Ocean...	Lat 31°25', long 82°51', at State Highway 31, 6½ miles south of Douglas.	228	0
Sept. 27	....do.....	....do.....	....do.....	-	0
Oct. 2	....do.....	....do.....	Lat 31°20', long 82°46', at State Highway 64, 5½ miles northeast of Pearson.	-	2,110
3	....do.....	....do.....	....do.....	-	1,800
5	....do.....	....do.....	....do.....	-	1,050
8	....do.....	....do.....	....do.....	-	588
Sept. 27	....do.....	....do.....	....do.....	-	.41
July 12	Seventeen Mile Creek.	Satilla River....	Lat 31°34', long 82°51', at State Highway 31, 4 miles north of Douglas.	-	0
12	Little Hurricane Creek.	Alabama River....	Lat 31°35', long 82°33', at State Highway 32, 5 miles west of Alma.	-	0
Oct. 1	....do.....	....do.....	Lat 31°30', long 82°32', at State Highway 64, 5 miles southwest of Alma.	53	680
June 8	....do.....	....do.....	....do.....	-	0
July 12	....do.....	....do.....	....do.....	-	0
Aug. 12	....do.....	....do.....	....do.....	-	0
July 12	....do.....	....do.....	Lat 31°25', long 82°26', at State Highway 4, 8½ miles south of Alma.	96	0
Aug. 12	....do.....	....do.....	....do.....	-	0
Oct. 3	Alabama River....	Satilla River....	Lat 31°19', long 82°14', at State Highway 38, 1 mile northeast of Blackshear.	-	3,480
8	....do.....	....do.....	....do.....	-	1,160
July 12	....do.....	....do.....	....do.....	-	2.44
June 8	Big Satilla Creek.	Little Satilla River.	Lat 31°39', long 82°26', at State Highway 4, 8½ miles north of Alma.	111	0
July 12	....do.....	....do.....	....do.....	-	0
Aug. 12	....do.....	....do.....	....do.....	-	0
July 2	Little Satilla Creek.	....do.....	Lat 82°03', long 31°40', at State Highway 27 at Odum, 10 miles northwest of Jesup.	58	0

St. Johns River basin, Fla.

July 8	St. Johns River...	Atlantic Ocean...	At crossing of State Highway 520 near Cocoa.	-	2,090
Aug. 25	Sanlando Springs..	Wekiva River....	3.1 miles west of Longwood...	-	18.4
25	Palm Springs.....	....do.....	0.3 mile north of Longwood...	-	10.4
Dec. 2	Big Creek.....	Lake Louisa.....	1 mile upstream from Lake Louisa and 7½ miles southeast of Clermont.	-	95.5
Jan. 12	....do.....	....do.....	....do.....	-	108
Feb. 17	....do.....	....do.....	....do.....	-	43.4
Mar. 31	....do.....	....do.....	....do.....	-	13.3
May 13	....do.....	....do.....	....do.....	-	1.01
June 16	....do.....	....do.....	....do.....	-	.50
Aug. 4	....do.....	....do.....	....do.....	-	109
Sept. 15	....do.....	....do.....	....do.....	-	10.4
Dec. 2	Little Creek.....	....do.....	1 mile upstream from Lake Louisa and 6½ miles south of Clermont.	-	41.9
Jan. 6	....do.....	....do.....	....do.....	-	46.3
Mar. 31	....do.....	....do.....	....do.....	-	0
May 13	....do.....	....do.....	....do.....	-	0
June 16	....do.....	....do.....	....do.....	-	0
Aug. 4	....do.....	....do.....	....do.....	-	0
Sept. 15	....do.....	....do.....	....do.....	-	0
June 18	Green Cove Springs	St. Johns River...	At Green Cove Springs.....	-	2.68

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Lake Okeechobee and the Everglades, Fla.				
Date	Stream	Tributary to or diverting from--	Locality	Discharge (cfs)
Oct. 10	Boggy Creek.....	East Tohopekaliga Lake.	At crossing of State Highway 530, 6½ miles northeast of Kissimmee.	374
10	Shingle Creek.....	Tohopekaliga Lake.	At crossing of U. S. Highways 17 and 92, 2½ miles southwest of Kissimmee.	1,080
11	Lake Istokpoga overflow.	Indian Prairie....	At State Highway 621, along south shore of lake, near Lake Placid.	231
11	.....do.....	.....do.....	.....do.....	3,270
Nov. 12	Crooked-Clinch Canal.	Lake Clinch.....	2½ miles northwest of Frostproof.	24.5
Dec. 30	.....do.....	.....do.....	.....do.....	41.3
Feb. 3	.....do.....	.....do.....	.....do.....	14.8
July 27	.....do.....	.....do.....	.....do.....	18.7
Nov. 12	Clinch-Reedy Canal	Reedy Lake.....	At Frostproof.....	36.8
Dec. 31	.....do.....	.....do.....	.....do.....	50.8
Feb. 3	.....do.....	.....do.....	.....do.....	28.9
Mar. 25	.....do.....	.....do.....	.....do.....	10.9
July 27	.....do.....	.....do.....	.....do.....	34.0
Nov. 12	Lake Ida Outlet...	.....do.....	1 mile east of State Highway 17, at Frostproof.	9.61
Dec. 30	.....do.....	.....do.....	.....do.....	7.87
July 30	Lake Lotella Outlet	Little Bonnett Lake.	0.3 mile southwest of State Highway 25 near Avon Park.	10.0
Oct. 7	Lake Letta Outlet.	Bonnett Lake.....	3.9 miles north of Sebring.....	58.7
Jan. 11	.....do.....	.....do.....	.....do.....	58.9
July 30	.....do.....	.....do.....	.....do.....	18.7
Sept. 10	.....do.....	.....do.....	.....do.....	35.9
July 30	Lake Sebring northeast outlet.	Little Red Water Lake.	3.4 miles northwest of Sebring.....	9.62
Jan. 11	Little Red Water Lake Outlet.	Bonnet Lake.....	3.6 miles north of Sebring.....	13.3
July 30	.....do.....	.....do.....	.....do.....	9.08
Oct. 10	Arbuckle Creek...	Lake Istokpoga...	At Carter Creek road crossing, ¾ miles northeast of Sebring.	2,970
7	Jackson Creek.....	Lake Josephine...	2 miles south of Sebring.....	63.3
July 30	.....do.....	.....do.....	.....do.....	29.4
Sept. 10	.....do.....	.....do.....	.....do.....	30.0
Oct. 7	Josephine Creek...	Lake Istokpoga...	At outlet from Lake Josephine, near DeSoto City.	211
Nov. 17	.....do.....	.....do.....	.....do.....	66.8
Jan. 12	.....do.....	.....do.....	.....do.....	49.2
Feb. 15	.....do.....	.....do.....	.....do.....	22.4
Mar. 24	.....do.....	.....do.....	.....do.....	12.2
June 22	.....do.....	.....do.....	.....do.....	55.2
July 29	.....do.....	.....do.....	.....do.....	109
Sept. 10	.....do.....	.....do.....	.....do.....	132
July 29	Lake Ammie Outlet.	Lake Placid.....	0.2 mile west of Childs.....	34.8
Oct. 8	Placid-Mirror Canal.	Mirror Lake.....	1.9 miles south of Lake Placid.....	2.8
Nov. 18	.....do.....	.....do.....	.....do.....	1.9
Jan. 12	.....do.....	.....do.....	.....do.....	3.1
Feb. 16	.....do.....	.....do.....	.....do.....	3.4
Mar. 25	.....do.....	.....do.....	.....do.....	3.9
May 5	.....do.....	.....do.....	.....do.....	4.0
June 23	.....do.....	.....do.....	.....do.....	3.8
July 29	.....do.....	.....do.....	.....do.....	2.7
Sept. 13	.....do.....	.....do.....	.....do.....	3.1
Oct. 14	Placid-June Canal.	Lake June-In-Winter.	2½ miles southwest of Lake Placid.....	122
Nov. 18	.....do.....	.....do.....	.....do.....	56.2
Jan. 12	.....do.....	.....do.....	.....do.....	21.7
June 23	.....do.....	.....do.....	.....do.....	21.9
July 29	.....do.....	.....do.....	.....do.....	49.9
Sept. 10	.....do.....	.....do.....	.....do.....	24.4
Oct. 14	Stearns Creek....	Lake Francis.....	3.4 miles northwest of Lake Placid.....	236
Nov. 17	.....do.....	.....do.....	.....do.....	141
Jan. 12	.....do.....	.....do.....	.....do.....	79.1
Feb. 15	.....do.....	.....do.....	.....do.....	54.7
Mar. 24	.....do.....	.....do.....	.....do.....	33.4
May 4	.....do.....	.....do.....	.....do.....	21.6
June 22	.....do.....	.....do.....	.....do.....	56.0
July 29	.....do.....	.....do.....	.....do.....	61.8
Sept. 10	.....do.....	.....do.....	.....do.....	66.1
Oct. 14	Placid-Huntley Canal.	Lake Huntley.....	2½ miles southeast of Lake Placid, at U. S. Highway 27.	19.5
July 29	.....do.....	.....do.....	.....do.....	0
Sept. 13	.....do.....	.....do.....	.....do.....	0
Oct. 14	Huntley-Clay Canal	Lake Clay.....	1.5 miles east of Lake Placid.....	40.4
June 22	.....do.....	.....do.....	.....do.....	16.8
July 29	.....do.....	.....do.....	.....do.....	21.4
Oct. 14	Lake Clay Outlet..	Lake Apthorpe....	2.1 miles northeast of Lake Placid.....	44.8
Nov. 18	.....do.....	.....do.....	.....do.....	24.8
July 29	.....do.....	.....do.....	.....do.....	25.8
Oct. 14	Kissimmee River...	Lake Okeechobee.	At bridge on U. S. Highway 98, 3 miles southeast of Cornwell.	13,400
Dec. 21	.....do.....	.....do.....	.....do.....	4,710
Oct. 6	Snake Creek Canal.	Oleta River.....	At crossing of Douglas Rd., near Hialeah.	326
Apr. 2	Levee 50, Borrow Canal to north-east.	Miami Canal.....	1,000 ft northeast of junction of Dade-Broward levee and levee 30, west of Miami.	#61.2
2	.....do.....	.....do.....	.....do.....	#137
7	.....do.....	.....do.....	.....do.....	#206
2	.....do.....	.....do.....	1,000 ft southwest of Miami Canal, west of Miami.	#225
2	.....do.....	.....do.....	.....do.....	#244
7	.....do.....	.....do.....	.....do.....	#257

† Culvert through Dade-Broward levee and Central and Southern Florida project S-32 closed.

‡ Culvert through Dade-Broward levee and Central and Southern Florida project S-32 open.

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Lake Okeechobee and the Everglades, Fla.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Apr. 2	Miami Canal.....	Miami River.....	At Broken Dam above Pennsuco, near Miami.		†358
2	...do.....	...do.....	...do.....		‡628
7	...do.....	...do.....	...do.....		‡611
2	...do.....	...do.....	At Pennsuco near Miami.....		‡536
7	...do.....	...do.....	...do.....		‡691
Oct. 9	Tamiami Canal.....	Miami Canal.....	At Red Road near Miami.....		977
9	Coral Gables Canal	Biscayne Bay.....	At Red Road near Coral Gables.		189
Feb. 2	Snapper Creek Canal.	...do.....	At Sunset Drive near south Miami.		85.4
Oct. 9	...do.....	...do.....	At U. S. Highway 1, near Miami.		154

† Culvert through Dade-Broward levee and Central and Southern Florida project S-32 closed.

‡ Culvert through Dade-Broward levee and Central and Southern Florida project S-32 open.

Peace River basin, Fla.

Jan. 12	Hartridge-Conine Canal.	Lake Conine.....	At crossing of U. S. Highway 17, near Lake Alfred.		11.1
July 26	...do.....	...do.....	...do.....		.5
26	Hartridge-Rochelle Canal.	Lake Rochelle.....	At crossing of county road, 0.1 mile west of U. S. Highway 17, near Lake Alfred.		1
Nov. 12.		Peace Creek Marsh Outlet.	0.6 mile southwest of Lake Hamilton Outlet, near Lake Hamilton.		13.9
Dec. 28	...do.....	...do.....	...do.....		55.4
Feb. 2	...do.....	...do.....	...do.....		19.5
Mar. 24	...do.....	...do.....	...do.....		5.64
July 27	Lake Hamilton Outlet.	...do.....	2 miles northwest of Dundee.		10.7
Sept. 8	...do.....	...do.....	...do.....		1.9
Nov. 13	Lulu Lake Outlet..	...do.....	At highway crossing, 3 miles southeast of Eagle Lake.		36.3
Dec. 29	...do.....	...do.....	...do.....		34.5
Feb. 2	...do.....	...do.....	...do.....		18.4
Nov. 13	Lake Garfield Outlet.	...do.....	At crossing of State Highway 60, 3 1/4 miles northwest of Alturas.		16.0
Dec. 28	...do.....	...do.....	...do.....		40.5
Feb. 3	...do.....	...do.....	...do.....		10.0
June 23	Hammock inlet.....	Little Charlie Bowlégs Creek.	At Triangle and State Highway 634 at Highland Hammock State Park, near Sebring.		10.3
23	Ditch.....	...do.....	At Office Road crossing at Highland Hammock State Park, near Sebring.		3.02
23	Tiger Branch.....	...do.....	...do.....		6.94
July 30	...do.....	...do.....	...do.....		5.21
Sept. 14	...do.....	...do.....	...do.....		3.3
June 23	Ditch.....	...do.....	200 ft east of Indian Village road on north fence line of Highlands Hammock State Park, near Sebring.		2.71

Alafia River basin, Fla.

June 18	Lithia Springs....	Alafia River.....	3 miles west of Lithia.....		53.6
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Suwannee River basin

July 20	Alligator Creek...	Suwannee River....	Lat 31°06', long 82°30', at State Highway 38, 10 1/2 miles southwest of Waycross, Ga.	48	0
20	Suwannee Creek....	Suwannee Lake.....	Lat 31°05', long 82°37', at State Highway 38, 3 miles west of Manor, Ga.	24	0
12	Cane Creek.....	Suwannee River....	Lat 31°03', long 82°42', at State Highway 38, 3 1/2 miles west of Argyle, Ga.	29	0
12	Saviors Creek.....	...do.....	Lat 31°03', long 82°44', at State Highway 38, 1 1/2 miles east of Homerville, Ga.	35	0
1	Tatum Creek.....	...do.....	Lat 30°54', long 82°40', at State Highway 89, 11 miles southeast of Homerville, Ga.	39	0
12	...do.....	...do.....	...do.....		0
12	Tributary to Tatum Creek.	Tatum Creek.....	Lat 30°51', long 82°40', at State Highway 89, 12 1/2 miles northwest of Fargo, Ga.	-	0
12	...do.....	...do.....	Lat 30°50', long 82°39', at State Highway 89, 1 1/2 miles northwest of Fargo, Ga.	-	0
1	Suwannoochee Creek	Suwannee River....	Lat 30°59', long 82°53', at State Highway 38, at Du Pont, Ga.	140	0
12	...do.....	...do.....	...do.....		0
20	...do.....	...do.....	Lat 30°40', long 82°35', at State Highway 94, 1 1/2 miles west of Fargo, Ga.	450	0
20	Tom's Creek.....	...do.....	Lat 30°41', long 82°52', at State Highway 94, 4 1/4 miles east of Tarver, Ga.	26	0
Aug. 23	Alapaha River.....	...do.....	Lat 31°57', long 83°34', at State Highway 30, 1 1/2 miles west of Pitts, Ga.	38	0

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Suwannee River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept. 15	Alapaha River.....	Suwannee River....	Lat 31°57', long 83°34', at State Highway 30, 1½ miles west of Pitts, Ga.	38	0
Aug. 23	Tributary to Ala- paha River.	Alapaha River.....	Lat 31°57', long 83°37', at State Highway 30, 9½ miles east of Cordele, Ga.	7.0	0
23	Mill Creek.....	....do.....	Lat 31°57', long 83°29', near Rochelle, Ga.	-	0
Sept. 16	....do.....	....do.....	....do.....	-	0
Dec. 7	Alapaha River.....	Suwannee River....	Lat 31°49', long 82°28', at State Highway 90, 1 mile east of Rebecca, Ga.	112	342
June 21	....do.....	....do.....	....do.....		0
July 13	....do.....	....do.....	....do.....		0
Aug. 23	....do.....	....do.....	....do.....		0
23	Double Run Creek..	Alapaha River.....	Lat 31°42', long 83°30', at State Highway 112, 1½ miles south of Rebecca, Ga.	41	0
June 21	Deep Creek.....	....do.....	Lat 31°44', long 83°35', at State Highway 112, 4½ miles east of Ashburn, Ga.	140	0
July 13	....do.....	....do.....	....do.....		0
Aug. 23	....do.....	....do.....	....do.....		0
July 13	Alapaha River.....	Suwannee River....	Lat 31°38', long 83°25', at State Highway 32, 10½ miles west of Ocilla, Ga.	430	0
Aug. 23	....do.....	....do.....	....do.....		0
July 13	Sand Creek.....	Alapaha River.....	Lat 31°38', long 83°28', at State Highway 32, 13½ miles west of Ocilla, Ga.	14	0
Aug. 23	....do.....	....do.....	....do.....		0
23	Hat Creek.....	....do.....	Lat 31°42', long 83°38', at county road, southeast of Ashburn, Ga.	1.1	0
23	Tributary to Turkey Branch.	Turkey Branch.....	Lat 31°41', long 83°16', at county road, 2½ miles south of Fitzgerald, Ga.	2.9	0
Jan. 4	Willacoochee Creek	Alapaha River.....	Lat 31°30', long 83°10', at county road, 8 miles south- east of Ocilla, Ga.	90	245
June 30	....do.....	....do.....	....do.....		0
Aug. 24	....do.....	....do.....	....do.....		0
23	Reedy Creek.....	Willacoochee Creek	Lat 31°34', long 83°19', at State Highway 35, 4½ miles southwest of Ocilla, Ga.	29	0
23	Stump Creek.....	Little Brushy Creek.	Lat 31°35', long 83°15', at State Highway 11, 1 mile south of Ocilla, Ga.	-	0
July 13	Willacoochee Creek	Alapaha River.....	Lat 31°22', long 83°06', at State Highway 50, 3½ miles east of Willacoochee, Ga.	11	.003
13	Alapaha River.....	Suwannee River....	Lat 31°20', long 83°04', at State Highway 135, 1½ miles southwest of Willacoochee, Ga.	920	3.32
Aug. 24	....do.....	....do.....	....do.....		1.49
July 21	....do.....	....do.....	Lat 31°05', long 83°03', at State Highway 37, 2 miles east of Lakeland, Ga.	1,060	14.0
Aug. 24	Ten Mile Creek....	Big Creek.....	Lat 31°13', long 83°11', at State Highway 76, 3½ miles east of Nashville, Ga.	23	.60
24	Five Mile Creek...	....do.....	Lat 31°14', long 83°08', at State Highway 76, 7½ miles east of Nashville, Ga.	15	0
July 21	Big Creek.....	Alapaha River.....	Lat 31°02', long 83°04', at State Highway 11, at Lake- land, Ga.	140	.30
20	Alapaha River.....	Suwannee River....	Lat 30°55', long 83°02', at State Highway 38, 2½ miles southwest of Stockton, Ga.	1,250	18.5
19	Grand Bay Creek...	Little River.....	Lat 30°47', long 83°08', at State Highway 94, 5½ miles southwest of Howell, Ga.	95	1.31
19	Little River.....	Alapaha River.....	Lat 30°42', long 83°07', at county road, 5½ miles west of Statenville, Ga.	200	6.98
Aug. 24	Withlacoochee River.	Suwannee River....	Lat 31°13', long 83°16', at State Highway 125, 1½ miles west of Nashville, Ga.	120	0
July 13	....do.....	....do.....	Lat 31°12', long 83°16', at State Highway 76, 1½ miles southwest of Nashville, Ga.	130	.31
Aug. 24	New River.....	Withlacoochee River.	Lat 31°11', long 83°19', at State Highway 76, 4½ miles southwest of Nashville, Ga.	150	0
24	Cat Creek.....	....do.....	Lat 31°04', long 83°12', at State Highway 37, at Ray City, Ga.	9.7	0
July 16	Withlacoochee River.	Suwannee River....	Lat 30°53', long 83°19', at State Highway 7, 5 miles northwest of Valdosta, Ga.	540	0
Aug. 23	Little River.....	Withlacoochee River.	Lat 31°40', long 83°42', at State Highway 112, 3½ miles southwest of Ashburn, Ga.	20	0

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Suwannee River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Aug. 23	Tributary to Ashburn Branch..	Ashburn Branch....	Lat 31°43', long 83°40', at county road at west city limits of Ashburn, Ga.	-	0
23	Daniels Creek.....	Little River.....	Lat 31°38', long 83°43', at State Highway 112, 6 miles southwest of Ashburn, Ga.	5.7	0
June 6	Little River.....	Withlacoochee River.	Lat 31°26', long 83°34', at State Highway 50, 3 miles west of Tifton, Ga.	130	0
29	....do.....	....do.....	....do.....	0	0
July 16	....do.....	....do.....	....do.....	0	0
Aug. 18	....do.....	....do.....	....do.....	0	0
June 24	Ty Ty Creek.....	Warrior Creek.....	Lat 31°28', long 83°40', at State Highway 50, 1 mile west of Ty Ty, Ga.	48	0
July 16	....do.....	....do.....	....do.....	0	0
Aug. 18	....do.....	....do.....	....do.....	0	0
July 16	Warrior Creek.....	Little River.....	Lat 31°51', long 83°49', at State Highway 50, 1½ miles east of Sylvester, Ga.	20	0
16	Little River.....	Withlacoochee River.	Lat 30°51', long 83°21', at county road, 13 miles northeast of Quitman, Ga.	880	.86
16	Okapilco Creek....	....do.....	Lat 31°12', long 83°47', at State Highway 35, 1½ miles north of Moultrie, Ga.	27	0
16	....do.....	....do.....	Lat 30°47', long 83°32', at State Highway 38, 1½ miles east of Quitman, Ga.	280	.86
16	Piscola Creek.....	Okapilco Creek....	Lat 30°45', long 83°32', at State Highway 33, 3½ miles southeast of Quitman, Ga.	150	0
May 4	Suwannee River....	Gulf of Mexico....	At crossing of State Highway 250, at Dowling Park, Fla.	-	2,650

Ochlockonee River basin, Ga.

Aug. 16	Ochlockonee River.	Gulf of Mexico....	Lat 31°11', long 83°48', at State Highway 37, west of Moultrie.	95	0
Sept. 27	Barnetts Creek....	Ochlockonee River..	Lat 30°54', long 84°05', at county road, 7½ miles northwest of Thomasville.	100	1.66
8	Tired Creek.....	Ochlockonee River.	Lat 30°54', long 84°15', at State Highway 38, 3½ miles northwest of Cairo.	31	.35
7	Wolf Creek.....	Tired Creek.....	Lat 33°54', long 84°18', at State Highway 38, 2½ miles northwest of Whigham.	19	1.06
8	Little Tired Creek	....do.....	Lat 30°53', long 84°11', at State Highway 38, east of Cairo.	20	0
8	Turkey Creek.....	....do.....	Lat 30°49', long 84°15', at State Highway 111, 4½ miles southwest of Cairo.	-	0
8	Maxwell Creek....	....do.....	Lat 30°49', long 84°15', at State Highway 111, 5 miles southwest of Cairo.	-	.54
7	Attapulgus Creek..	Little River.....	Lat 30°53', long 84°23', at State Highway 38, 3½ miles east of Climax.	3.4	.34
7	Tributary to Attapulgus Creek.	Attapulgus Creek..	Lat 30°53', long 84°23', at State Highway 38, 2½ miles east of Climax.	-	.13

Apalachicola River basin

Sept. 9	Chattahoochee River.	Apalachicola River	Lat 34°00', long 84°12', at crossing of State Highway 141, 4½ miles north of Norcross, Ga.	1,170	502
14	....do.....	....do.....	....do.....		471
8	Big Creek.....	Chattahoochee River.	Lat 34°04', long 84°16', at county road, 2½ miles east of Alperetta, Ga.	67.4	3.93
8	Four Killer Creek.	Big Creek.....	Lat 34°04', long 84°20', at U. S. Highway 19, 2½ miles southwest of Alpharetta, Ga.	4.8	.79
8	Big Creek.....	Chattahoochee River.	Lat 34°02', long 84°20', at Hokombs Bridge road, east of Roswell, Ga.	96.4	7.17
6	Soap Creek.....	....do.....	Lat 33°57', long 84°26', at South Roswell Road, east of Marietta, Ga.	31.0	2.56
30	Long Island Creek.	....do.....	Lat 33°53', long 84°25', at Northside Drive in Atlanta, Ga.	6.01	.007
27	Rottenwood Creek..	....do.....	Lat 33°55', long 84°29', at Terrell Mill Road near Marietta, Ga.	15	1.94
28	North Fork Peachtree Creek.	Peachtree Creek...	Lat 33°53', long 84°16', at Tucker Road near Chamblee, Ga.	10.8	.22
28	....do.....	....do.....	Lat 33°50', long 84°19', at Clairmont Road near Atlanta, Ga.	28.0	.21

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954- Continued

Apalachicola River basin--Continued					
Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept.30	North Fork Peachtree Creek.	Peachtree Creek...	Lat 33°49', long 84°22', at Lindbergh Drive, Atlanta, Ga.	38.8	0.13
28	South Fork Peachtree Creek.	....do.....	Lat 33°49', long 84°15', at Montreal Road at Clarkston, Ga.	6.25	.02
28	....do.....	....do.....	Lat 33°48', long 84°17', at U. S. Highway 29 near Decatur, Ga.	9.20	.004
28	Montreal Branch...	Burnt Fork Creek..	Lat 33°50', long 84°16', at Hudson Road near Montreal, Ga.	1.84	.03
28	Burnt Fork Creek..	South Prong Peachtree Creek.	Lat 33°49', long 84°18', at North Druid Hills Road, north of Decatur, Ga.	4.66	.20
28	South Fork Peachtree Creek.	Peachtree Creek...	Lat 33°48', long 84°20', at Johnson Mill Road near Atlanta, Ga.	28.2	0
30	Peachtree Creek...	Chattahoochee River.	Lat 33°49', long 84°25', at Northside Drive, at Atlanta, Ga.	86.9	2.31
8	....do.....	....do.....	Lat 33°50', long 84°27', at Ridgewood Road at Atlanta, Ga.	-	8.34
8	Chattahoochee River.	Apalachicola River	Lat 33°50', long 84°28', 50 ft upstream from outfall of Clayton sewage treatment plant at Atlanta, Ga.	-	297
30	Proctor Creek.....	Chattahoochee River.	Lat 33°48', long 84°29', at Bolton Road, Atlanta, Ga.	15.5	.95
30	North Utoy Creek..	Utoy Creek.....	Lat 33°44', long 84°31', at Fairburn Road, north of Ben Hill, Ga.	9.65	.31
30	South Utoy Creek..	....do.....	....do.....	12.3	.70
28	Tributary to Mud Creek.	Mud Creek.....	Lat 33°46', long 84°54', at State Highway 61, north of Villa Rica, Ga.	2.6	0
29	Mill Creek.....	Sweetwater Creek..	Lat 33°52', long 84°46', at State Highway 92, south of Hiram, Ga.	13	.11
29	Gothards Branch...	....do.....	Lat 33°47', long 84°45', at State Highway 92, south of Hiram, Ga.		.01
27	Powder Springs Creek.	....do.....	Lat 33°52', long 84°43', at State Highway 6, west of Powder Springs, Ga.	17	.51
27	Noses Creek.....	....do.....	Lat 33°57', long 84°37', at State Highway 120, west of Marietta, Ga.	6.3	.04
27	Wards Creek.....	Noses Creek.....	Lat 33°55', long 84°36', at Wards Road, southwest of Marietta, Ga.	5.7	.07
27	Noses Creek.....	Sweetwater Creek..	Lat 33°50', long 84°39', at Powder Springs Mableton Road near Clarkdale, Ga.	46	0
27	Olley Creek.....	....do.....	Lat 33°50', long 84°38', at Powder Springs-Mableton Road, north of Austell, Ga.	14	1.28
21	Beaver Run Creek..	....do.....	Lat 33°46', long 84°40', at county road, 1½ miles southwest of Lithia Springs, Ga., and upstream from Groovers Lake.	4.5	.14
27	Deep Creek.....	Chattahoochee River.	Lat 33°38', long 84°36', at Jones Road, north of Fairburn, Ga.	11	.32
27	....do.....	....do.....	Lat 33°40', long 84°38', at State Highway 154, 7½ miles northeast of Fairburn, Ga.	27	1.62
27	Pea Creek.....	....do.....	Lat 33°37', long 84°42', at State Highway 154, 6½ miles northeast of Palmetto, Ga.	9.1	.60
29	Bear Creek.....	....do.....	Lat 33°36', long 84°45', at State Highway 166, 8½ miles south of Douglasville, Ga.	23	3.18
27	Big Bear Creek....	....do.....	Lat 33°34', long 84°40', at county road, 3½ miles north of Palmetto, Ga.	8.4	0
27	....do.....	....do.....	Lat 33°36', long 84°45', at Woodruff Road, 7 miles northeast of Palmetto, Ga.	24	.04
29	Dog River.....	....do.....	Lat 33°41', long 84°53', at county road, 5 miles southwest of Winston, Ga.	18	0
29	....do.....	....do.....	Lat 33°40', long 84°52', at county road, 2½ miles north of Fair Play, Ga.	43	.72
29	Mobley Creek.....	Dog River.....	Lat 33°41', long 84°50', at county road, 2½ miles south of Winston, Ga.	10	.38
28	Snake Creek.....	Chattahoochee River.	Lat 33°37', long 84°56', at State Highway 166, east of Carrollton, Ga.	5.0	.32
24	Alexander Creek...	Cedar Creek.....	Lat 33°29', long 84°45', at county road, 8½ miles northeast of Newnan, Ga.	-	.13

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Apalachicola River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept. 24	Wahoo Creek.....	Chattahoochee River.	Lat 33°25', long 84°50', at county road, 2 miles southwest of Sargent, Ga.	16	0.44
20	Acorn Creek.....	....do.....	Lat 33°28', long 84°57', at State Highway 5, southwest of Whitesburg, Ga.	6.8	.64
20	....do.....	....do.....	....do.....		.62
23	Whooping Creek....	....do.....	Lat 33°31', long 85°03', at county road, 4½ miles southwest of Carrollton, Ga.	4.5	.05
20	....do.....	....do.....	Lat 32°27', long 85°00', at State Highway 5, southwest of Whitesburg, Ga.	26	1.53
20	Dirt Creek.....	....do.....	Lat 33°27', long 85°04', at State Highway 5, 3½ miles east of Roopville, Ga.	-	.71
24	Messiers Creek....	New River.....	Lat 33°16', long 84°49', at county road, 2 miles northeast of Grantville, Ga.	3.6	1.01
24	Yellowjacket Creek	Chattahoochee River.	Lat 33°14', long 84°48', at county road, 3 miles east of Grantville, Ga.	8.3	.40
Oct. 14	Wehadkee Creek....	....do.....	Sec. 4, T. 21 S., R. 13 E., at county road, 6 miles northeast of Roanoke, Ala.	-	6.75
14	....do.....	....do.....	Sec. 34, T. 21 S., R. 13 E., at county road, 1 mile southeast of Rock Mills, Ala.	-	17.3
14	Osanippa Creek....	....do.....	Sec. 25, T. 21 N., R. 28 E., at U. S. Highway 29, 1 mile southwest of Fairfax, Ala.	-	46.5
14	Halawakee Creek...	....do.....	Sec. 28, T. 20 N., R. 28 E., at U. S. Highway 29, 7 miles northeast of Opelika, Ala.	-	20.0
13	Uchee Creek.....	....do.....	Sec. 28, T. 18 N., R. 28 E., at U. S. Highway 241, 6 miles northeast of Seale, Ala.	-	43.4
13	Little Uchee Creek	Uchee Creek.....	Sec. 13, T. 16 N., R. 29 E., at U. S. Highway 241, 8 miles northeast of Seale, Ala.	-	30.7
Jan. 1	Bronson Creek.....	South Fork Cowikee Creek.	Sec. 4-5, T. 11 N., R. 26 E., at Barbour County Pond, 6 miles north of Clayton, Ala.	-	.61
Sept. 28	Pataula Creek.....	Chattahoochee River.	Lat 31°56', long 84°48', at State Highway 1, 8 miles south of Lumpkin, Ga.	70.1	12.0
27	....do.....	....do.....	Lat 31°49', long 84°59', at State Highway 50, 2½ miles northwest of Morris, Ga.	296	90.7
Dec. 7	Abbie Creek.....	....do.....	Sec. 23, T. 7 N., R. 28 E., at Highway 10, 2½ miles east of Abbeville, Ala.		944
Mar. 19	....do.....	....do.....	....do.....		156
Sept. 22	Flint River.....	Apalachicola River	Lat 33°37', long 84°24', at county road, 2 miles west of Forest Park, Ga.	3.1	.69
21	....do.....	....do.....	Lat 33°35', long 84°23', at county road, 1½ miles east of Jonesboro, Ga.	21	3.88
21	Jesters Creek.....	Flint River.....	Lat 33°35', long 84°21', at county road, 2½ miles southeast of Forest Park, Ga.	1.8	.10
20	Camp Creek.....	....do.....	Lat 33°34', long 84°26', at county road, 1½ miles southwest of Riverdale, Ga.	6.0	1.83
24	....do.....	....do.....	....do.....		1.41
22	....do.....	....do.....	Lat 33°31', long 84°26', at State Highway 85, north of Fayetteville, Ga.	17.0	2.84
21	Swamp Creek.....	....do.....	Lat 33°30', long 84°22', at county road, 2 miles southwest of Jonesboro, Ga.	3.3	0
22	Morning Creek.....	....do.....	Lat 33°30', long 84°26', at State Highway 85, north of Fayetteville, Ga.	37	1.02
22	....do.....	....do.....	Lat 33°29', long 84°25', at State Highway 54, northeast of Fayetteville, Ga.	40	.38
22	Flint River.....	Apalachicola River	Lat 33°25', long 84°23', at county road, 4½ miles southwest of Lovejoy, Ga.	130	11.9
22	Shoal Creek.....	Flint River.....	Lat 33°25', long 84°22', at county road, 3½ miles southwest of Lovejoy, Ga. and 1 mile upstream from mouth.	8.2	.34
22	Murphy Creek.....	....do.....	Lat 33°25', long 84°24', at county road, 3½ miles southeast of Fayetteville, Ga. and 2 miles upstream from mouth.	9.2	0

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Apalachicola River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept. 29	Little Chief Bear Creek.	Bear Creek.....	Lat 33°23', long 84°18', at State Highway 3, 1 mile west of Hampton, Ga.	-	0.26
29	Bear Creek.....	Flint River.....	Lat 33°23', long 84°18', at county road, 1½ miles west of Hampton, Ga.	6.0	.27
23	Woolsey Creek.....	Horton Creek.....	Lat 33°21', long 84°25', at county road, ½ mile from Woolsey, Ga.	2.9	.44
27	Heads Creek.....	Wildcat Creek.....	Lat 33°18', long 84°21', at State Highway 92, 6 miles northwest of Griffin, Ga.	10	.52
27	Shoal Creek.....	.....do.....	Lat 33°16', long 84°23', at county road, 7½ miles west of Griffin, Ga., and 0.9 mile upstream from mouth.	21	1.40
23	Line Creek.....	Flint River.....	Lat 33°31', long 84°36', at county road, 3½ miles south of Fairburn, Ga.	4.0	.09
23	.....do.....	.....do.....	Lat 32°24', long 84°37', at State Highway 54, 1 mile southwest of Aberdeen, Ga.	38	4.16
23	Shoal Creek.....	Line Creek.....	Lat 33°23', long 84°37', at State Highway 54, 3½ miles north of Sharpsburg, Ga.	24	1.44
23	Flat Creek.....	.....do.....	Lat 33°24', long 84°35', at State Highway 54, 1½ miles east of Aberdeen, Ga.	15	1.08
23	Keg Creek.....	.....do.....	Lat 33°20', long 84°34', at county road, 2½ miles north of Senoia, Ga.	9.4	.94
22	Ginger Cake Creek.	Whitewater Creek..	Lat 33°27', long 84°29', at State Highway 54, 1½ miles west of Fayetteville, Ga.	6.6	.16
24	Deadoak Creek.....	Line Creek.....	Lat 33°16', long 84°32', at county road, 3 miles south of Senoia, Ga.	9.4	1.15
24	Whiteoak Creek....	Flint River.....	Lat 33°17', long 84°43', at county road, 8 miles southwest of Newman, Ga.	57	1.08
29	Birch Creek.....	.....do.....	Lat 33°07', long 84°27', at county road, 2½ miles north of Concord, Ga.	18	1.38
30	Elkins Creek.....	.....do.....	Lat 33°07', long 84°21', at county road, 1½ miles north of Zebulon, Ga.	13	.09
29	.....do.....	.....do.....	Lat 33°06', long 84°22', at State Highway 18, 1 mile west of Zebulon, Ga.	20	0
29	Powder Creek.....	Elkins Creek.....	Lat 33°05', long 84°23', at county road, 4 miles west of Meansville, Ga.	11	.28
29	Elkins Creek.....	Flint River.....	Lat 33°04', long 84°24', at county road, 2½ miles southeast of Concord, Ga.	52	0
29	.....do.....	.....do.....	Lat 32°58', long 84°51', at county road, 3 miles south of Molena and 1 mile upstream from mouth.	101	3.09
28	Grape Creek.....	Big Potato Creek..	Lat 33°08', long 84°14', at county road, 2½ miles west of Milner, Ga.	23	2.79
28	Tributary to Grape Creek.	Grape Creek.....	Lat 33°07', long 84°13', at county road, 1½ miles west of Milner, Ga.	2.28	.03
28	Little Potato Creek.	Potato Creek.....	Lat 33°03', long 84°12', at county road, 1 mile south of State Highway 18 and 2½ miles west of Barnesville, Ga.	4.53	.60
July 1	Sweetwater Creek..	Flint River.....	Lat 32°11', long 84°08', at State Highway 49, southeast of Andersonville, Ga.	29	12.4
Sept. 20	.....do.....	.....do.....	.....do.....	76	22.0
22	Hogcraw Creek....	.....do.....	Lat 32°15', long 83°58', at State Highway 90, 5½ miles southeast of Montezuma, Ga.	-	16.9
20	Turkey Creek.....	.....do.....	Lat 32°14', long 83°52', at county road, 3 miles northeast of Byronville, Ga.	-	1.22
Dec. 14	.....do.....	.....do.....	Lat 32°12', long 83°54', at State Highway 90 at Byronville, Ga.	45	641
July 7	.....do.....	.....do.....	.....do.....	.....	5.45
Sept. 20	.....do.....	.....do.....	.....do.....	.....	4.61
20	Pennahatchee Creek	Turkey Creek.....	Lat 32°05', long 83°48', at State Highway 7, at Vienna, Ga.	21	0
20	Sandy Mount Creek.	Pennahatchee Creek	Lat 32°07', long 83°50', at State Highway 90, 2½ miles northwest of Vienna, Ga.	28	1.27
22	Little Pennahatchee Creek.do.....	Lat 32°07', long 83°52', at State Highway 90, 2½ miles southeast of Lilly, Ga.	24	.88

MISCELLANEOUS DISCHARGE MEASUREMENTS

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Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Apalachicola River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept. 20	Lime Creek.....	Flint River.....	Lat 32°02', long 84°00', at county road, 5 miles north of Cobb, Ga.	65	12.9
15	Gum Creek.....	....do.....	Lat 31°58', long 83°48', at county road, northwest of Cordele, Ga.	37	.64
15	Cedar Creek.....	....do.....	Lat 31°56', long 83°47', at State Highway 7, 2½ miles south of Cordele, Ga.	13	0
15	....do.....	....do.....	Lat 31°55', long 83°51', at State Highway 153, 5½ miles southwest of Cordele, Ga.	30	1.89
15	Swift Creek.....	....do.....	Lat 31°48', long 83°48', at State Highway 25, 4 miles southwest of Arabi, Ga.	10	0
20	Chokee Creek.....	....do.....	Lat 31°57', long 84°03', at State Highway 30, at De-soto, Ga.	16	0
21	Kinchafoonee Creek	....do.....	Lat 31°52', long 84°18', at State Highway 118, 3½ miles southwest of Smithville, Ga.	490	105
21	....do.....	....do.....	Lat 31°46', long 84°15', at State Highway 32, 5½ miles northwest of Leesburg, Ga.	530	117
July 1	Middle Creek.....	Kinchafoonee Creek	Lat 31°46', long 84°16', at State Highway 32, 6½ miles northwest of Leesburg, Ga.	31	2.95
Sept. 20	....do.....	....do.....	....do.....		1.96
20	Reedy Creek.....	....do.....	Lat 31°45', long 84°16', at county road, 6 miles west of Leesburg, Ga.	5.9	.15
20	Kinchafoonee Creek	Flint River.....	Lat 31°43', long 84°11', at county road, 1 mile southwest of Leesburg, Ga.	590	135
10	Fowltown Creek....	Kinchafoonee Creek	Lat 31°42', long 84°16', at county road, 6½ miles southwest of Leesburg, Ga.	-	2.37
21	Muckalee Creek....	Flint River.....	Lat 32°04', long 84°15', at State Highway 3, at Americus, Ga.	161	34.3
20	Bear Branch.....	Muckalee Creek....	Lat 31°58', long 84°15', at State Highway 3, 7 miles south of Americus, Ga.	11	2.88
Dec. 15	Muckalee Creek....	Flint River.....	Lat 31°54', long 84°12', at State Highway 118, 3 miles east of Smithville, Ga.	265	1,790
Sept. 22	....do.....	....do.....	....do.....		62.3
20	Muckaloochee Creek	Muckalee Creek....	Lat 32°03', long 84°20', at State Highway 27, 5½ miles east of Plains, Ga.	6.4	2.82
22	....do.....	....do.....	Lat 31°54', long 84°15', at State Highway 118, at Smithville, Ga.	47	25.2
21	Muckalee Creek....	Flint River.....	Lat 31°44', long 84°07', at State Highway 32, 2½ miles east of Leesburg, Ga.	406	98.7
Oct. 23	Radium Springs....	....do.....	Lat 31°51', long 84°08', at mouth of outflow channel from springs near Albany, Ga.	-	43.0
Nov. 16	....do.....	....do.....	....do.....	-	38.5
17	....do.....	....do.....	....do.....	-	41.5
23	....do.....	....do.....	....do.....	-	33.3
Feb. 3	....do.....	....do.....	....do.....	-	76.9
Sept. 27	Little Nachaway Creek.	Ichawaynochaway Creek.	Lat 31°46', long 84°34', at State Highway 50, 6½ miles west of Dawson, Ga.	123	25.1
27	Nochaway Creek....	....do.....	Lat 31°47', long 84°36', at State Highway 41, 1½ miles north of Shellman, Ga.	52	24.7
July 7	Ichawaynochaway Creek.	Flint River.....	Lat 31°28', long 84°34', at State Highway 62, 3½ miles west of Leary, Ga.	600	200
1	Brantley Creek....	Chickasawhatchee Creek.	Lat 31°45', long 84°26', at southwest corner of American Legion golf course, south of Dawson, Ga.	-	2.02
8	Spring Creek.....	Flint River.....	Lat 31°25', long 84°47', at State Highway 62, 3½ miles southwest of Arlington, Ga.	54	0
Aug. 16	....do.....	....do.....	....do.....		0
20	....do.....	....do.....	....do.....		0
Sept. 10	....do.....	....do.....	Lat 31°10', long 84°45', at State Highway 1, at Col-quitt, Ga.	284	13.2

Choctawhatchee River Basin, Ala.

Mar. 19	Judy Creek.....	West Fork Choctawhatchee River.	Sec. 32, T. 6 N., R. 25 E., at county road, 5 miles east of Ozark.	475
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Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Mobile River basin

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Mar. 30	Conasauga River...	Oostanaula River..	Lat 34°49', long 84°51', at State Highway 286, 5 miles west of Eton, Ga.	225	695
Sept. 27	Noonday Creek.....	Little River.....	Lat 33°59', long 84°36', at State Highway 29, 3½ miles northwest of Marietta, Ga.	4.1	.09
27	Proctor Creek.....	Etowah River.....	Lat 34°02', long 84°40', at State Highway 3, 5 miles west of Kennesaw, Ga.	7.9	0
27	Tanyard Creek.....	....do.....	Lat 34°04', long 84°41', at State Highway 92, at Acworth, Ga.	2.2	0
28	Pumpkinvine Creek.	....do.....	Lat 33°55', long 84°53', at State Highway 6, 2¼ miles west of Dallas, Ga.	40	.29
Oct. 14	Nances Creek.....	Terrapin Creek....	Sec. 4, T. 15 S., R. 10 E., at Highway 74, 1½ miles northeast of Piedmont, Ala.	-	5.32
13	Big Wills Creek...	Coosa River.....	Sec. 29, T. 6 S., R. 9 E., at U. S. Highway 11, 3 miles north of Fort Payne, Ala.	-	7.33
13	....do.....	....do.....	Sec. 34, T. 8 S., R. 7 E., at Highway 68, 2 miles northwest of Collinsville, Ala.	-	31.8
13	Little Wills Creek	Big Wills Creek...	Sec. 17, T. 11 S., R. 6 E., at county road, 2½ miles southwest of Crudup, Ala.	-	2.59
13	Black Creek.....	....do.....	Sec. 29, T. 11 S., R. 6 E., above Noccolula Falls near Gadsden, Ala.	-	.06
14	Big Canoe Creek...	Coosa River.....	Sec. 5, T. 14 S., R. 4 E., at county road at Ashville, Ala.	-	13.9
13	Ohatchee Creek....	....do.....	Sec. 33, T. 13 S., R. 7 E., at U. S. Highway 431, 1 mile west of Duke, Ala.	-	15.5
14	Little Tallahatchee Creek.	Tallahatchee Creek	Sec. 17, T. 14 S., R. 8 E., at county road, 3½ miles southwest of Jacksonville, Ala.	-	31.9
13	Tallahatchee Creek	Ohatchee Creek....	Sec. 16, T. 14 S., R. 7 E., at U. S. Highway 431, 1 mile west of Wellington, Ala.	-	40.8
Sept. 29	....do.....	....do.....	....do.....	-	31.8
Oct. 14	Cane Creek.....	Coosa River.....	Sec. 17, T. 15 S., R. 8 E., at county road, 5 miles north of Anniston, Ala.	-	2.01
13	....do.....	....do.....	Sec. 10, T. 15 S., R. 7 E., at U. S. Highway 431, 6½ miles northwest of Anniston, Ala.	-	4.00
14	Trout Creek.....	....do.....	Sec. 7, T. 15 S., R. 5 E., at Ragland, Ala.	-	.24
14	Broken Arrow Creek	....do.....	Sec. 1, T. 16 S., R. 3 E., at U. S. Highway 231, 1 mile south of Wattsville, Ala.	-	0
14	Choccolocco Creek.	....do.....	Sec. 27, T. 15 S., R. 9 E., at county road, 2 miles north of Choccolocco, Ala.	-	22.7
14	....do.....	....do.....	Sec. 31, T. 16 S., R. 8 E., at U. S. Highway 231, 2 miles south of Oxford, Ala.	-	61.9
14	Cheaha Creek.....	Choccolocco Creek.	Sec. 34, T. 17 S., R. 6 E., at U. S. Highway 231, 3 miles southeast of Munsford, Ala.	-	4.54
14	Wolf Creek.....	Kelly Creek.....	Sec. 3, T. 17 S., R. 3 E., at U. S. Highway 78, at Eden, Ala.	-	.26
13	Talladega Creek...	Coosa River.....	Sec. 17, T. 19 S., R. 6 E., at Highway 48, at Waldo, Ala.	-	14.0
13	....do.....	....do.....	Sec. 5, T. 19 S., R. 5 E., at U. S. Highway 231, 3 miles southwest of Talladega, Ala.	-	19.3
13	....do.....	....do.....	Sec. 21, T. 19 S., R. 4 E., at county road, 1 mile north of Alpine, Ala.	-	65.2
Sept. 28	....do.....	....do.....	....do.....	-	42.3
Oct. 13	Emashee Creek.....	Tallassee-hatchee Creek.	Sec. 2, T. 21 S., R. 4 E., at county road, 1½ miles south of Sycamore, Ala.	-	1.08
13	Tallassee-hatchee Creek.	Coosa River.....	Sec. 9, T. 21 S., R. 4 E., at U. S. Highway 231, 4 miles northeast of Sylacauga, Ala.	-	7.57
14	Beeswax Creek.....	....do.....	Sec. 8, T. 21 S., R. 1 E., below outlet of Jacksons Springs, 3 miles northeast of Columbiana, Ala.	-	.29
14	Wolf Creek.....	Waxahatchee Creek.	Sec. 33, T. 21 S., R. 1 W., at Highway 25, 3 miles southwest of Columbiana, Ala.	-	.02

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Mobile River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 14	Yellowleaf Creek..	Coosa River.....	Sec. 16, T. 22 N., R. 14 E., at county road, 2½ miles southeast of Thorsby, Ala.	-	3.63
Sept. 30	....do.....	....do.....	....do.....	-	1.92
Oct. 13	Hatchet Creek.....	....do.....	Sec. 8, T. 24 N., R. 20 E., at county road, 2 miles northwest of Goodwater, Ala.	-	22.6
Sept. 27	....do.....	....do.....	....do.....	-	3.22
Oct. 14	Chestnut Creek.....	....do.....	Sec. 36, T. 21 N., R. 15 E., at Verbena, Ala.	-	2.66
14	Mortar Creek.....	....do.....	Sec. 13, T. 18 N., R. 17 E., below mouth of branch at Highway 14 at Elmore, Ala.	-	28.6
Sept. 16	Little River.....	Tallapoosa River..	Lat 33°46', long 85°09', at State Highway 120, 2½ miles east of Buchanan, Ga.	-	1.36
18	Tallapoosa River..	Alabama River.....	Lat 33°52', long 85°13', at State Highway 1, 4½ miles north of Buchanan, Ga.	152	0
28	Little Tallapoosa River.	Tallapoosa River..	Lat 33°44', long 84°59', at State Highway 8, 3¼ miles west of Villa Rica, Ga.	14	0
28	Hill Creek.....	Little Tallapoosa River.	Lat 33°44', long 85°00', at State Highway 8, 1½ miles east of Temple, Ga.	6.8	.15
28	Webster Creek.....	Bethel Creek.....	Lat 33°44', long 85°03', at State Highway 8, at Temple, Ga.	.90	.06
28	Little Tallapoosa River.	Tallapoosa River..	Lat 33°41', long 85°01', at county road, 3½ miles south of Temple, Ga.	44	0
28	Sharpe Creek.....	Little Tallapoosa River.	Lat 33°38', long 85°03', at State Highway 113, 4¼ miles north of Carrollton, Ga.	8.2	.11
29	Little Tallapoosa River.	Tallapoosa River..	Lat 33°38', long 85°03', at county road, 3½ miles north of Carrollton, Ga.	80	0
Aug. 18	Curtis Creek.....	Little Tallapoosa River.	Lat 33°36', long 85°03', at State Highway 8 alternate, 1½ miles east of Carrollton, Ga.	6.7	.53
Sept. 23	Buck Creek.....	....do.....	Lat 33°38', long 85°06', at State Highway 1, 3½ miles northwest of Carrollton, Ga.	21	.64
23	....do.....	....do.....	Lat 33°37', long 85°07', at county road, 3½ miles northwest of Carrollton, Ga.	30	.28
23	Buffalo Creek.....	....do.....	Lat 33°34', long 85°04', at county road, 1¼ miles southeast of Carrollton, Ga.	4.6	.11
22	Indian Creek.....	....do.....	Lat 33°29', long 85°10', at county road, 2½ miles northwest of Rockville, Ga.	13	.26
22	Little Tallapoosa River.	Tallapoosa River..	Lat 33°31', long 85°14', at State Highway 5, 2¼ miles southeast of Bowdon, Ga.	157	3.66
22	Little Turkey Creek.	Turkey Creek.....	Lat 33°38', long 85°11', at county road, 0.8 mile northwest of Mt. Zion, Ga.	-	.01
22	Turkey Creek.....	Indian Creek.....	Lat 33°34', long 85°15', at State Highway 100, 2 miles north of Bowdon, Ga.	-	0
Oct. 14	Wedowee Creek.....	Little Tallapoosa River.	Sec. 34, T. 19 S., R. 11 E., at U. S. Highway 431, 1½ miles north of Wedowee, Ala.	-	20.1
Sept. 30	Little Tallapoosa River.	Tallapoosa River..	Sec. 25, T. 19 S., R. 10 E., at county road, 4½ miles northwest of Wedowee, Ala.	-	22.5
Oct. 15	Crooked Creek.....	....do.....	Sec. 19, T. 20 S., R. 9 E., at county road, 2 miles south of Lineville, Ala.	-	17.7
14	High Pine Creek...	....do.....	Sec. 2, T. 24 N., R. 25 E., at Highway 77, at Abanda, Ala.	-	21.5
14	....do.....	....do.....	Sec. 27, T. 21 S., R. 12 E., at county road, ¼ mile north of Roanoke, Ala.	-	5.38
14	....do.....	....do.....	Sec. 28, T. 21 S., R. 12 E., at Highway 63, 1½ miles west of Roanoke, Ala.	-	4.89
13	Findley Creek.....	Mill Creek.....	Sec. 17, T. 22 N., R. 26 E., at pumping station, 3½ miles west of Lafayette, Ala.	-	4.83
14	Chatahassee Creek.	Tallapoosa River..	Sec. 27, T. 23 N., R. 25 E., at county road, 9 miles northwest of Lafayette, Ala.	-	30.4
15	Enitachope Creek..	Hillabee Creek....	Sec. 31, T. 20 S., R. 8 E., at Highway 9, 3 miles southwest of Ashland, Ala.	-	11.6
Jan. 22	Harbuck Creek.....	Little Hillabee Creek.	Sec. 7, T. 22 S., R. 7 E., at county road, 12 miles southwest of Ashland, Ala.	-	44.4
Oct. 10	Hillabee Creek....	Tallapoosa River..	Sec. 16, T. 23 N., R. 22 E., at Highway 65, 6 miles northeast of Alexander City, Ala.	-	97.9

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Mobile River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 13	South Fork Sandy Creek.	Sandy Creek.....	Sec. 18, T. 21 N., R. 24 E., at U. S. Highway 280, 2 miles west of Camp Hill, Ala.	-	7.51
13	Little Sandy Creek	South Fork Sandy Creek.	Sec. 28, T. 21 N., R. 24 E., at U. S. Highway 280, 1½ miles south of Camp Hill, Ala.	-	30.5
13	North Fork Sandy Creek.	Sandy Creek.....	Sec. 3, T. 21 N., R. 23 E., at county road, 2 miles east of Dadeville, Ala.	-	22.4
15	Channahatchee Creek.	Tallapoosa River..	Sec. 5, T. 19 N., R. 21 E., at county road, 3 miles northeast of Eclectic, Ala.	-	3.87
14	Soughatchee Creek	....do.....	Sec. 12-13, T. 19 N., R. 25 E., at county road, 3 miles north of Auburn, Ala.	-	22.2
14	....do.....	....do.....	Sec. 26, T. 19 N., R. 23 E., at county road, 3 miles northwest of Notasulga, Ala.	-	78.4
14	Chewacla Creek....	Sawacklahatchee Creek.	Sec. 18, T. 18 N., R. 26 E., above Moore's Mill Creek, at Chewacla Park, Ala.	-	11.0
13	Sawacklahatchee Creek.	Uphapee Creek....	Sec. 25, T. 17 N., R. 25 E., at U. S. Highway 80, 5 miles northwest of Society Hill, Ala.	-	31.9
13	Uphapee Creek....	Tallapoosa River..	Sec. 21, T. 17 N., R. 24 E., at U. S. Highway 80, 3 miles east of Tuskegee, Ala.	-	66.7
July 12	....do.....	....do.....	....do.....	-	4.33
Sept. 29	....do.....	....do.....	....do.....	-	.62
July 21	....do.....	....do.....	Sec. 16, T. 17 N., R. 24 E., below dam of pumping plant at Tuskegee, Ala.	-	3.46
12	....do.....	....do.....	....do.....	-	3.01
12	Little Creek.....	Uphapee Creek....	Sec. 16, T. 17 N., R. 24 E., at county road, 3 miles northeast of Tuskegee, Ala.	-	2.80
Oct. 15	Tumkeehatchee Creek.	Tallapoosa River..	Sec. 9, T. 17 N., R. 21 E., at county road, 7 miles southeast of Tallassee, Ala.	-	5.30
13	Calebee Creek....	....do.....	Sec. 11, T. 16 N., R. 22 E., at U. S. Highway 80, 8 miles west of Tuskegee, Ala.	-	7.04
13	Cubahatchee Creek.	....do.....	Sec. 5, T. 16 N., R. 21 E., at U. S. Highway 80, 1½ miles west of Shorter, Ala.	-	13.7
13	Oakfuskee Creek...	....do.....	Sec. 13, T. 16 N., R. 20 E., at U. S. Highway 80, 6 miles east of Mount Meigs, Ala.	-	23.3
13	Swift Creek.....	Alabama River.....	Sec. 22, T. 17 N., R. 14 E., at Highway 14, at Autauga-ville, Ala.	-	70.8
13	Valley Creek.....	....do.....	Sec. 23, T. 17 N., R. 10 E., at U. S. Highway 80, 1 mile northwest of Selma, Ala.	-	10.5
14	Cahaba River.....	....do.....	Sec. 14, T. 17 S., R. 1 W., at county road at Lovick, Ala.	-	7.58
14	Little Cahaba River.	Cahaba River.....	Sec. 30, T. 17 S., R. 1 E., at county road, 2½ miles southwest of Leeds, Ala.	-	7.12
14	Buck Creek.....	....do.....	Sec. 15, T. 20 S., R. 3 W., below dam at Helena, Ala.	-	15.8
13	Coffee Creek.....	....do.....	Sec. 24, T. 22 S., R. 6 W., at county road at Blocton, Ala.	-	1.19
14	Shoal Creek.....	Little Cahaba River.	Sec. 5, T. 24 N., R. 12 E., at Southern Ry. bridge, 1 mile northwest of Wilton, Ala.	-	19.0
13	Little Cahaba River.	Cahaba River.....	Sec. 19, T. 24 N., R. 11 E., at county road, 3 miles north of Six Mile, Ala.	-	60.5
13	Six Mile Creek....	Little Cahaba River.	Sec. 5, T. 23 N., R. 11 E., at county road, 1 mile southeast of Six Mile, Ala.	-	11.4
13	Oakmulgee Creek...	Cahaba River.....	Sec. 1, T. 17 N., R. 9 E., at Highway 43, 8 miles northwest of Selma, Ala.	-	32.2
Dec. 7	Branch.....	Cedar Creek.....	Sec. 29, T. 11 N., R. 14 E., at Butler County pond, 5 miles northwest of Greenville, Ala.	-	1.10
4	Pursley Creek....	Alabama River.....	Sec. 2, T. 11 N., R. 7 E., at Highway 11, 4 miles southwest of Camden, Ala.	-	371
Mar. 27	....do.....	....do.....	....do.....	-	1,010
Nov. 23	Big Brown Creek...	East Fork Tombigbee River.	Lat 34° 37' Long 88° 27' Sec. 27, T. 5 S., R. 8 E., Chickasaw meridian, Prentiss County, at bridge on State Highway 30, 6½ miles southeast of Booneville, Miss.	-	2.36

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Mobile River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 26	East Fork Tombigbee River.	Tombigbee River...	Lat 34°26', long 88°25', SE $\frac{1}{4}$ sec. 35, T. 7 S., R. 8 E., Chickasaw meridian, at Walkers Bridge, 6 miles southeast of Marietta and 10 miles north of Fulton, Miss.	305	39.6
26	Mantachie Creek...	East Fork Tombigbee River.	Lat 34°15', long 88°29', SE $\frac{1}{4}$ sec. 32, T. 9 S., R. 8 E., Chickasaw meridian, at bridge on U. S. Highway 78, $\frac{1}{2}$ mile east of Dorsey, Miss.	62	1.49
Sept. 8	Coonewar Creek....	....do.....	Lat 34°07', long 88°45', on line between secs. 12 and 7, T. 11 S., on line between R. 5 E. and R. 6 E., Chickasaw meridian, Lee County, at bridge $\frac{1}{2}$ mile upstream from Gulf, Mobile and Ohio RR. and 1 mile north of Shannon, Miss.	-	0
23	Unnamed creek....	Chiwapa Creek....	Lat 34°11', long 88°58', NW $\frac{1}{4}$ sec. 26, T. 10 S., R. 3 E., Chickasaw meridian, Pontotoc County, at bridge on Highway 41, $1\frac{1}{2}$ miles upstream from mouth and $4\frac{1}{2}$ miles southeast of Pontotoc, Miss.	-	.40
Oct. 22	Tallabinnela Creek	West Fork Tombigbee River.	Lat 34°03', long 88°45', sec. 11, T. 12 S., R. 5 E., Chickasaw meridian, at highway bridge 2 miles north of Okolona, Miss.	35	0
6	Mattubby Creek....	Tombigbee River...	Lat 33°52', long 88°36', on line between secs. 7 and 8, T. 14 S., R. 7 E., Chickasaw meridian, at bridge on State Highway 45, $5\frac{1}{2}$ miles upstream from mouth and $4\frac{1}{2}$ miles northwest of Aberdeen, Miss.	-	0
20	....do.....	....do.....	....do.....	-	0
Sept. 15	Williams Creek....	Buttahatchee River	Sec. 35, T. 10 S., R. 14 W., at U. S. Highway 43, at Hamilton, Ala.	-	3.12
Aug. 18	Beaver Creek.....	....do.....	Sec. 20, T. 12 S., R. 13 W., at U. S. Highway 78, 2 miles north of Gulin, Ala.	-	2.56
Sept. 14	....do.....	....do.....	....do.....	-	2.06
Aug. 18	Purgatory Creek...	Beaver Creek.....	Sec. 33, T. 12 S., R. 13 W., at Highway 167, at Guin, Ala.	-	5.04
Sept. 14	....do.....	....do.....	....do.....	-	5.04
15	Bogue Creek.....	Buttahatchee River	Sec. 31, T. 13 S., R. 15 W., at U. S. Highway 278, at Sulligent, Ala.	-	4.39
Oct. 14	Buttahatchie River	Tombigbee River...	Lat 33°40', long 88°27', NE $\frac{1}{4}$ sec. 19, T. 16 S., R. 18 W., Huntsville meridian, at bridge on U. S. Highway 45, $3\frac{1}{2}$ miles northwest of Kolola Springs, Miss.	874	140
15	Chookatonchee Creek.	Tibbee River.....	Lat 33°57', long 88°45', SE $\frac{1}{4}$ sec. 5, T. 14 S., R. 5 E., Chickasaw meridian, at bridge on county road, 4 miles west of Egypt, Miss.	170	0
June 30	Line Creek.....	....do.....	Lat 33°39', long 89°04', S $\frac{1}{2}$ sec. 26, T. 16 S., R. 2 E., Chickasaw meridian, at bridge $\frac{1}{2}$ mile downstream from Gulf, Mobile and Ohio RR., and $6\frac{1}{2}$ miles north of Maben, Miss.	-	0
Sept. 7	....do.....	....do.....	....do.....	-	0
Oct. 15	....do.....	....do.....	Lat 88°49', long 33°36', NE $\frac{1}{4}$ sec. 22, T. 20 N., R. 4 E., Choctaw meridian, at bridge on State Highway 10, 1 mile northeast of Cedar Bluff, Miss.	167	0
15	Trim Cane Creek...	Line Creek.....	Lat 33°28', long 88°55', W $\frac{1}{2}$ sec. 35, T. 19 N., R. 13 E., Choctaw meridian, Oktibbeha County, 3 miles upstream from Biba Wila Creek and 6 miles west of Starkville, Miss.	-	0
Sept. 7	....do.....	....do.....	....do.....	-	0
Oct. 15	Catalpa Creek....	Tibbee Creek.....	Lat 33°29', long 88°38', SE $\frac{1}{4}$ sec. 28, T. 19 N., R. 16 E., Choctaw meridian, at bridge on U. S. Highway 82, 0.5 mile east of Mayhew, Miss.	108	.17

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Mobile River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Aug. 18	Luxapalila Creek..	Tombigbee River...	Sec. 12, T. 13 S., R. 13 W., at U. S. Highway 78, 2 miles northwest of Winfield, Ala.	-	2.52
Sept. 14	....do.....	....do.....	....do.....	-	2.33
15	Yellow Creek.....	Luxapalila Creek..	Sec. 28, T. 16 S., R. 15 W., below Mill Dam, 1½ miles south of Vernon, Ala.	-	2.64
14	....do.....	....do.....	Lat 33°34', long 88°19', SE ¼ sec. 21, T. 17 S., R. 17 W., Huntsville meridian, at bridge on county road, ½ mile northwest of Steens, Miss.	-	31.6
Nov. 3	Luxapalila Creek..	Tombigbee River...	Lat 33°31', long 88°24', SW ¼ sec. 11, T. 16 S., R. 18 W., Huntsville meridian, at pumping plant, 3½ miles northeast of Columbus, Miss.	726	115
Oct. 14	....do.....	....do.....	Lat 33°30', long 88°24', SW ¼ sec. 14, T. 18 S., R. 18 W., Huntsville meridian, at highway bridge, 2.2 miles east of Columbus, Miss.	783	72.8
Sept. 14	Bear Creek.....	Lubbub Creek.....	Sec. 5, T. 20 S., R. 13 W., at old U. S. Highway 82, 2 miles northwest of Gordo, Ala.	-	.72
14	Lubbub Creek.....	Tombigbee River...	Sec. 9, T. 22 S., R. 1 W., at county road, 3 miles northeast of Aliceville, Ala.	-	1.44
14	New River.....	Sipsey River.....	Sec. 10, T. 15 S., R. 11 W., at U. S. Highway 78, 5 miles east of Winfield, Ala.	-	1.76
14	Little New River..	New River.....	Sec. 8, T. 13 S., R. 11 W., at U. S. Highway 78, 6 miles east of Winfield, Ala.	-	0
Nov. 3	Noxubee River.....	Tombigbee River...	Lat 33°17', long 88°51', SE ¼ sec. 32, T. 17 N., R. 14 E., Choctaw meridian, 100 ft below diversion through Octoc Creek and 12 miles south of Starkville, Miss.	-	2.98
3	Octoc Creek.....	Noxubee River.....	Lat 33°18', long 88°51', NE ¼ sec. 32, T. 17 N., R. 14 E., Choctaw meridian, 100 ft below entrance of diversion from Noxubee River and 12 miles south of Starkville, Miss.	-	0
Oct. 22	Hashuqua Creek....	....do.....	Lat 33°06', long 88°41', on line between secs. 32 and 5, on line between T. 14 N. and T. 15 N., R. 16 E., Choctaw meridian, Noxubee County, at bridge on State Highway 14, 1 mile upstream from mouth of Wolf Creek and 7 miles west of Macon, Miss.	-	43.2
22	Running Water Creek.	....do.....	Lat 33°02', long 88°34', in sec. 28, T. 14 N., R. 17 E., Choctaw meridian, at bridge on U. S. Highway 45, 4½ miles south of Macon, Miss.	46	0
Sept. 17	Scooba Creek.....	....do.....	Lat 32°48', long 88°28', in SW ¼ sec. 16, T. 11 N., R. 19 E., Choctaw meridian, at bridge on U. S. Highway 45, 2.1 miles south of Scooba, Miss.	35	0
Dec. 11	Calvert Prong.....	Locust Fork.....	Sec. 6, T. 12 S., R. 2 E., 200 yds below mouth of Jones Creek, Ala.	-	17.8
Sept. 13	....do.....	....do.....	Sec. 14, T. 12 S., R. 1 E., at U. S. Highway 231, 3½ miles northwest of Oneonta, Ala.	-	6.58
14	Brindle Creek.....	Mulberry Fork.....	Sec. 15, T. 11 S., R. 2 W., at county road, 2 miles northeast of Hanceville, Ala.	-	1.07
14	Copeland Creek....	....do.....	Sec. 12, T. 11 S., R. 1 W., at county road at Blountsville, Ala.	-	0
14	....do.....	....do.....	Sec. 20, T. 11 S., R. 1 W., at county road near Chamberliss Mill, Ala.	-	5.52
15	West Fork.....	Sipsey Fork.....	Sec. 30, T. 10 S., R. 7 W., at Highway 74, 5 miles east of Double Springs, Ala.	-	3.06
15	Pumphouse Creek...	Clear Creek.....	Sec. 32, T. 9 S., R. 10 W., at dam site, at Haleyville, Ala.	-	.18

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Mobile River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept. 15	Clear Creek.....	Sipsey Fork.....	Sec. 1, T. 11 S., R. 9 W., at county road, 2 miles southwest of Double Springs, Ala.	-	5.22
14	Mill Creek.....	Lost Creek.....	Sec. 17, T. 13 S., R. 9 W., at county road, 1 mile northeast of Carbon Hill, Ala.	-	.05
July 15	Branch.....	Big Creek.....	Sec. 28, T. 20 S., R. 11 W., at site of Tuscaloosa County Lake, Ala.	-	2.16
27	....do.....	....do.....	....do.....	-	2.86
Sept. 13	Big Sandy Creek...	Black Warrior River.	Sec. 13, T. 24 N., R. 6 E., at U. S. Highway 82, at Duncanville, Ala.	-	20.6
13	Elliot's Creek.....	....do.....	Sec. 1, T. 23 N., R. 4 E., at Highway 13, at Moundville, Ala.	-	6.91
13	Fivemile Creek....	....do.....	Sec. 18, T. 22 N., R. 4 E., at Highway 60, 1 mile east of Akron, Ala.	-	.53
13	Big Brush Creek...	....do.....	Sec. 2, T. 21 N., R. 3 E., at Highway 60, 1 mile northeast of Wedgeworth, Ala.	-	1.38
17	Sucarnoochee River	Tombigbee River...	Lat 32°42', long 88°29', on line between secs. 19 and 20, T. 10 N., R. 18 E., Choctaw meridian, at bridge on U. S. Highway 45, 1 mile northwest of Porterville, Miss.	145	14.8
17	Blackwater Creek..	Sucarnoochee Creek	Lat 32°38', long 88°30', in NW¼ sec. 7, T. 9 N., R. 18 E., Choctaw meridian, on U. S. Highway 45, near Porterville, Miss.	-	9.51
17	Pawticfaw Creek...	....do.....	....do.....	-	19.3
17	Ponta Creek.....	....do.....	Lat 32°32', long 88°31', N½ sec. 24, T. 8 N., R. 17 E., Choctaw meridian, Lauderdale County, at bridge 1/8 mile upstream from railroad, ½ mile upstream from mouth, and ½ mile north of Lauderdale, Miss.	-	11.7
16	Toomshuba Creek...	Tombigbee River...	Lat 32°25', long 88°30', SW¼ sec. 25, T. 7 N., R. 17 E., Choctaw meridian, Lauderdale County, at bridge ½ mile west of Toomshuba, Miss.	-	0
Oct. 2	Bassetts Creek....	....do.....	Sec. 25, T. 6 N., R. 1 W., at U. S. Highways 43 and 84, 1½ miles north of Wagarville, Ala.	-	7.83
19	....do.....	....do.....	....do.....	-	5.97
Nov. 10	....do.....	....do.....	....do.....	-	10.6
Feb. 13	....do.....	....do.....	....do.....	-	49.4'
May 6	....do.....	....do.....	....do.....	-	46.7
June 11	....do.....	....do.....	....do.....	-	9.42
Oct. 2	Lewis Creek.....	....do.....	Sec. 37, T. 4 N., R. 1 W., at U. S. Highway 43, 5 miles north of McIntosh, Ala.	-	1.02
19	....do.....	....do.....	....do.....	-	1.30
Nov. 10	....do.....	....do.....	....do.....	-	.94
Feb. 13	....do.....	....do.....	....do.....	-	9.98
May 6	....do.....	....do.....	....do.....	-	2.35
June 11	....do.....	....do.....	....do.....	-	1.24
Oct. 2	Bates Creek.....	....do.....	Sec. 24, T. 3 N., R. 1 W., 0.6 mile above U. S. Highway 43, 4 miles northwest of Calvert, Ala.	-	1.26
19	....do.....	....do.....	....do.....	-	.48
Nov. 10	....do.....	....do.....	....do.....	-	1.92
Feb. 13	....do.....	....do.....	....do.....	-	18.4
May 6	....do.....	....do.....	....do.....	-	5.10
June 11	....do.....	....do.....	....do.....	-	.76
Oct. 2	Bilbo Creek.....	....do.....	Sec. 3, T. 3 N., R. 1 E., at U. S. Highway 43, 2 miles south of McIntosh, Ala.	-	1.71
19	....do.....	....do.....	....do.....	-	1.23
Nov. 10	....do.....	....do.....	....do.....	-	1.70
Feb. 13	....do.....	....do.....	....do.....	-	14.6
May 6	....do.....	....do.....	....do.....	-	5.70
June 11	....do.....	....do.....	....do.....	-	1.72
Oct. 2	Cedar Creek.....	Mobile River.....	Sec. 10, T. 2 N., R. 1 W., below Cedar Creek Falls, 4 miles southwest of Mount Vernon, Ala.	-	20.7
22	....do.....	....do.....	....do.....	-	12.2
Nov. 10	....do.....	....do.....	....do.....	-	28.4
May 10	....do.....	....do.....	....do.....	-	14.0
June 8	....do.....	....do.....	....do.....	-	8.74
Oct. 3	Bayou Sara.....	....do.....	Sec. 35, T. 2 S., R. 1 W., at county road, 2 miles west of Saraland, Ala.	-	8.02
22	....do.....	....do.....	....do.....	-	4.30
Nov. 9	....do.....	....do.....	....do.....	-	7.53

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Mobile River basin--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Feb. 14	Bayou Sara.....	Mobile River.....	Sec. 33, T. 2 S., R. 1 W., at county road, 2 miles west of Saraland, Ala.	-	10.3
May 7	....do.....	....do.....	....do.....		4.45
June 8	....do.....	....do.....	....do.....		3.32
Oct. 3	Eight Mile Creek..	Chickasaw Creek...	Sec. 36, T. 3 S., R. 2 W., at Bear Fork Road, 1½ miles south of Eight Mile, Ala.	-	41.5
22	....do.....	....do.....	....do.....		35.8
Nov. 9	....do.....	....do.....	....do.....		41.9
Feb. 14	....do.....	....do.....	....do.....		44.4
May 7	....do.....	....do.....	....do.....		34.5
June 7	....do.....	....do.....	....do.....		33.1
Oct. 3	Three Mile Creek..	Mobile Bay.....	Sec. 12, T. 4 S., R. 2 W., at Highway 42, 1 mile west of Crichton, Ala.	-	15.9
22	....do.....	....do.....	....do.....		12.6
Nov. 9	....do.....	....do.....	....do.....		15.4
Feb. 14	....do.....	....do.....	....do.....		15.4
May 7	....do.....	....do.....	....do.....		13.9
June 7	....do.....	....do.....	....do.....		10.4

Pascagoula River basin, Miss.

Oct. 7	Big Creek.....	Leaf River.....	Lat 31°41', long 89°19', SW¼ sec. 4, T. 8 N., R. 13 W., St. Stephens meridian, at bridge on U. S. Highway 84, 10½ miles west of Laurel.	97	18.3
7	Leaf River.....	Pascagoula River..	Lat 31°37', long 89°20', sec. 32, T. 8 N., R. 13 W., St. Stephens meridian, Jones County, 1½ miles downstream from Big Creek and 8 miles west of Ellisville on Highway 588.	-	142
8	Oakey Woods Creek.	Leaf River.....	Lat 31°41', long 89°28', SW¼ sec. 1, T. 8 N., R. 15 W., St. Stephens meridian, at bridge on U. S. Highway 84, 6 miles northeast of Collins.	15	1.37
8	Station Creek.....	Oakey Woods Creek.	Lat 89°30', long 31°40', on line between secs. 9 and 16, T. 8 N., R. 15 W., St. Stephens meridian, at bridge on U. S. Highway 84, 3.1 miles northeast of Collins.	59	1.60
8	Okatoma Creek.....	Bowie Creek.....	Lat 31°46', long 89°39', sec. 7, T. 9 N., R. 16 W., St. Stephens meridian, Covington County, at bridge ½ mile east of Mount Olive on Highway 35.	-	45.3
8	....do.....	....do.....	Lat 31°39', long 89°33', NW¼ sec. 19, T. 8 N., R. 15 W., St. Stephens meridian, at bridge on U. S. Highway 84, at Collins.	167	49.9
9	Big Creek.....	....do.....	Lat 31°23', long 89°23', in NE¼ sec. 23, T. 5 N., R. 14 W., St. Stephens meridian, at bridge on U. S. Highway 49, 1 mile upstream from mouth and 5½ miles northwest of intersection of U. S. Highway 49 and State Highway 24 in Hattiesburg.	-	2.54
Apr. 16	....do.....	....do.....	....do.....		511
Oct. 9	Gorden Creek.....	Leaf River.....	Lat 31°19', long 89°18', in W½ sec. 10, T. 4 N., R. 13 W., St. Stephens meridian, Forrest County, at bridge on Ronnie Street in Hattiesburg, 1/8 mile upstream from New Orleans & North-eastern RR. bridge.	-	.095
9	Burketts Creek....	....do.....	Lat 31°17', long 89°18', NE¼ sec. 28, T. 4 N., R. 13 W., St. Stephens meridian, Forrest County, on U. S. Highway 49, 1½ miles south of Hattiesburg.	-	.15
9	Priests Creek.....	....do.....	Lat 31°16', long 89°17', NE¼ sec. 34, T. 4 N., R. 13 W., St. Stephens meridian, Forrest County, on U. S. Highway 49, 2½ miles south of Hattiesburg.	-	3.01
9	Myers Creek.....	....do.....	Lat 31°14', long 89°16', SE¼ sec. 11, T. 3 N., R. 13 W., St. Stephens meridian, Forrest County, on U. S. Highway 49, 5½ miles south of Hattiesburg.	-	3.62

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pascagoula River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 7	Tallahoma Creek...	Tallahala Creek...	Lat 32°00', long 89°14', NE $\frac{1}{4}$ sec. 23, T. 2 N., R. 10 E., Choctaw meridian, Jasper County, at bridge $2\frac{1}{2}$ miles northeast of Bay Springs on Highway 18.	-	0.07
7	....do.....	....do.....	Lat 31°42', long 89°10', NE $\frac{1}{4}$ sec. 2, T. 8 N., R. 12 W., St. Stephens meridian, at bridge on U. S. Highway 84, 2 miles west of Laurel.	171	2.48
26	Denham Creek.....	Leaf River.....	Lat 31°12', long 89°05', W $\frac{1}{2}$ sec. 22, T. 3 N., R. 11 W., St. Stephens meridian, Perry County, at bridge $\frac{1}{2}$ mile upstream from mouth and $\frac{1}{2}$ mile south of Mahred on Highway 24.	-	4.05
24	Buck Creek.....	Bogue Homo.....	Lat 31°21'50", long 89°02'55", in SE $\frac{1}{4}$ sec. 25, T. 5 N., R. 11 W., St. Stephens meridian, at bridge on Highway 42, $2\frac{1}{2}$ miles upstream from Bogue Homo and 3.7 miles east of Runnelstown, Perry County.	19.1	1.74
Dec. 9	....do.....	....do.....	....do.....	-	600
Apr. 16	....do.....	....do.....	....do.....	-	1,220
Oct. 26	Dickey's Creek....	Leaf River.....	Lat 31°11', long 88°56', NW $\frac{1}{4}$ sec. 31, T. 3 N., R. 9 W., St. Stephens meridian, Perry County, at bridge $\frac{1}{2}$ mile upstream from mouth and $1\frac{1}{2}$ miles northwest of Beaumont on Highway 24.	-	1.03
26	Carters Creek.....	....do.....	Lat 31°10', long 88°55', NW $\frac{1}{4}$ sec. 5, T. 2 N., R. 9 W., St. Stephens meridian, Perry County, at bridge $\frac{1}{2}$ mile upstream from mouth and $\frac{1}{2}$ mile southeast of Beaumont on Highway 24.	-	1.02
24	Thompson Creek....	....do.....	Lat 31°21', long 88°55', NW $\frac{1}{4}$ sec. 32, T. 5 N., R. 9 W., St. Stephens meridian, Perry County, at bridge $\frac{1}{2}$ mile east of Richton on Highway 42.	-	6.62
26	Little Creek.....	....do.....	Lat 31°09', long 88°51', SW $\frac{1}{4}$ sec. 13, T. 2 N., R. 9 W., St. Stephens meridian, Perry County, 5 miles southeast of Beaumont.	-	3.53
8	Piney Woods Creek.	Gaines Creek.....	Lat 31°26', long 88°48', NE $\frac{1}{4}$ sec. 32, T. 6 N., R. 8 W., St. Stephens meridian, Wayne County, at bridge $\frac{3}{4}$ miles northeast of Piave on County road.	-	0
24	Gaines Creek.....	Leaf River.....	Lat 31°20', long 88°51', NE $\frac{1}{4}$ sec. 1, T. 4 N., R. 9 W., St. Stephens meridian, at bridge on county highway, 6 miles east of Richton.	54	.44
25	Big Oktibbee Creek	....do.....	Lat 31°05', long 88°45', SE $\frac{1}{4}$ sec. 35, T. 2 N., R. 8 W., St. Stephens meridian, Greene County, on State Highway 15, 2.3 miles east of junction of State Highway 24, near McLain.	-	.11
9	Chunky Creek.....	Chickasawhay River	Lat 32°35', long 89°07', W $\frac{1}{2}$ sec. 7, T. 8 N., R. 12 E., Choctaw meridian, Newton County, at bridge $\frac{1}{2}$ mile downstream from Gulf, Mobile and Ohio RR. and $1\frac{1}{2}$ miles south of Union on Highway 15.	-	.14
9	Potterchitto Creek	Chunky Creek.....	Lat 32°20', long 89°11', SW $\frac{1}{4}$ sec. 28, T. 6 N., R. 11 E., Choctaw meridian, at bridge on county road 1 mile northwest of Newton.	6.0	.54
9	....do.....	....do.....	Lat 32°21', long 89°08', SE $\frac{1}{4}$ sec. 23, T. 6 N., R. 11 E., Choctaw meridian, Newton County, at bridge $\frac{1}{2}$ mile downstream from Gulf, Mobile and Ohio RR., and 2 miles northeast of Newton on Highway 15.	-	.89

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pascagoula River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 9	Turkey Creek.....	Potterchitto Creek	Lat 32°23', long 89°07', NE $\frac{1}{4}$ sec. 12, T. 6 N., R. 11 E., Choctaw meridian, Newton County, at bridge $\frac{1}{2}$ mile downstream from Gulf, Mobile and Ohio RR., and 4 miles south of Decatur on Highway 15.	-	0
9	Bethel Creek.....	....do.....	Lat 32°20', long 89°03', on line between secs. 26 and 27, T. 6 N., R. 12 E., Choctaw meridian, at bridge on U. S. Highway 80, 1.7 miles west of Hickory.	22	0
Sept. 16	Tallahatta Creek..	Chunky Creek.....	Lat 32°20', long 88°52', SW $\frac{1}{4}$ sec. 26, T. 6 N., R. 14 E., Choctaw meridian, Lauderdale County, at bridge on U. S. Highway 80, 2 miles upstream from mouth and 0.5 mile west of Meehan Junction.	71	.095
16	Okatibbee Creek...	Chickasawhay River	Lat 32°21', long 88°45', E $\frac{1}{2}$ sec. 22, T. 6 N., R. 15 E., Choctaw meridian, Lauderdale County, at bridge $\frac{1}{2}$ mile west of city limits of Meridian on Old Highway 80.	-	1.64
Oct. 7	Souinlovey Creek..	....do.....	Lat 32°04', long 88°53', NE $\frac{1}{4}$ sec. 32, T. 3 N., R. 14 E., Choctaw meridian, at bridge on U. S. Highway 11, $\frac{1}{2}$ miles north of Pachuta.	174	3.21
7	Pachuta Creek.....	Souinlovey Creek..	Lat 32°02', long 88°53', NE $\frac{1}{4}$ sec. 8, T. 2 N., R. 14 E., Choctaw meridian, at bridge on U. S. Highway 11, $\frac{1}{2}$ mile south of Pachuta.	23	2.86
7	....do.....	....do.....	Lat 32°00', long 88°50', SW $\frac{1}{4}$ sec. 14, T. 2 N., R. 14 E., Choctaw meridian, at bridge on county road, $\frac{1}{2}$ mile upstream from mouth and 2 miles northwest of Harmony.	-	2.24
9	Archusa Creek.....	Chickasawhay Creek	Lat 32°02', long 88°43', SE $\frac{1}{4}$ sec. 1, T. 2 N., R. 15 E., Choctaw meridian, at bridge on State Highway 18, 1 mile east of Quitman.	55	20.5
8	Chickasawhay River	Pascagoula River..	Lat 31°51', long 88°41', on line between secs. 9 and 10, T. 10 N., R. 7 W., St. Stephens meridian, at bridge on U. S. Highway 45, 1 mile southeast of Shubuta.	-	104
8	Carson Sand Creek.	Chickasawhay River	Lat 31°47', long 88°41', W $\frac{1}{2}$ sec. 34, T. 10 N., R. 7 W., St. Stephens meridian, Wayne County, at bridge 1 mile upstream from mouth and 1 mile south of Hiwannee on Highway 45.	-	.79
8	Hortons Mill Creek	....do.....	Lat 31°45', long 88°39', SW $\frac{1}{4}$ sec. 13, T. 9 N., R. 7 W., St. Stephens meridian, Wayne County, 4.5 miles north of Waynesboro on U. S. Highway 45.	-	2.06
8	Bucatanunna Creek...	....do.....	Lat 32°05', long 88°35', NW $\frac{1}{4}$ sec. 20, T. 3 N., R. 17 E., Choctaw meridian, Clarke County, at bridge 2 miles upstream from Long Creek and $\frac{1}{2}$ mile east of Wykes on Highway 18.	-	1.25
8	Long Creek.....	....do.....	Lat 32°06', long 88°37', NE $\frac{1}{4}$ sec. 24, T. 3 N., R. 16 E., Choctaw meridian, Clarke County, at bridge 2 $\frac{1}{2}$ miles upstream from mouth and 8 miles northeast of Quitman on Highway 18.	-	2.88
8	Rocky Creek.....	....do.....	Lat 32°05', long 88°32', SE $\frac{1}{4}$ sec. 22, T. 3 N., R. 17 E., Choctaw meridian, Clarke County, at bridge at intersection of Greasy Creek and 2 $\frac{1}{2}$ miles east of Sykes on Highway 18.	-	.18
8	Bucatanunna Creek..	....do.....	Lat 31°39', long 88°31', S $\frac{1}{2}$ sec. 18, T. 8 N., R. 5 W., St. Stephens meridian, Wayne County, at bridge 0.3 mile east of Denham on county road.	468	23.3

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pascagoula River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 8	Big Creek.....	Chickasawhay River	Lat 31°35', long 88°42', N½ sec. 16, T. 7 N., R. 7 W., St. Stephens meridian, at bridge on State Highway 63 at Clara.	46	4.60
24	....do.....	....do.....	Lat 31°13', long 88°39', NE¼ sec. 15, T. 5 N., R. 7 W., St. Stephens meridian, Greene County, at Truss Bridge on Highway 63, 1 mile upstream from Mason Creek and 8.2 miles north of Leakesville.	-	4.19
26	....do.....	....do.....	Lat 31°08', long 88°39', NW¼ sec. 24, T. 2 N., R. 7 W., St. Stephens meridian, at bridge on State Highway 24, 6½ miles west of Leakesville.	140	9.14
26	Brushy Creek.....	....do.....	Lat 31°08', long 88°40', on line between secs. 14 and 23, T. 2 N., R. 7 W., St. Stephens meridian, Greene County, at bridge ½ mile upstream from mouth and 7 miles west of Leakesville on Highway 24.	-	1.49
25	Whiskey Creek.....	Pascagoula River..	Lat 30°55', long 88°47', SE¼ sec. 28, T. 1 S., R. 6 W., St. Stephens meridian, George County, at bridge on county road, 5½ miles southwest of Merrill and 2 miles above mouth.	-	6.74
25	Big Creek.....	....do.....	Lat 30°56', long 88°37', SE¼ sec. 19, T. 1 S., R. 6 W., St. Stephens meridian, George County, at bridge on State Highway 15, ¼ mile downstream from Gulf, Mobile and Ohio RR., and 2 miles northwest of Lucedale.	-	12.9
23	Boggy Hollow Creek	Little Black Creek	Lat 31°05', long 89°25', SW¼ sec. 33, T. 2 N., R. 14 W., St. Stephens meridian, Lamar County, at bridge on U. S. Highway 11, 1½ miles upstream from mouth and 5.9 miles north of Lumberton.	22.4	6.38
Dec. 4	....do.....	....do.....	....do.....	-	680
Apr. 16	....do.....	....do.....	....do.....	-	2,080
Oct. 9	Big Creek.....	Black Creek.....	Lat 31°04', long 89°16', in NE¼ sec. 11, T. 1 N., R. 13 W., St. Stephens meridian, at highway bridge, 1 mile upstream from mouth and 5 miles west of Brooklyn.	-	2.59
Dec. 4	....do.....	....do.....	....do.....	-	476
Oct. 9	Black Creek.....	Pascagoula River..	Lat 31°03', long 89°12', NW¼ sec. 16, T. 1 N., R. 12 W., St. Stephens meridian, at bridge on U. S. Highway 49, at Brooklyn.	360	77.9
9	Wall Creek.....	Black Creek.....	Lat 31°06', long 89°13', in NE¼ sec. 32, T. 2 N., R. 12 W., St. Stephens meridian, at bridge 2.0 miles upstream from mouth and 3½ miles northwest of Brooklyn on Highway 49.	22.3	1.78
Dec. 4	....do.....	....do.....	....do.....	-	490
Apr. 16	....do.....	....do.....	....do.....	-	1,220
16	....do.....	....do.....	....do.....	-	1,430
Oct. 26	Black Creek.....	Pascagoula River..	Lat 31°00', long 89°03', NW¼ sec. 1, T. 1 S., R. 11 W., St. Stephens meridian, at bridge on Highway 29, 10½ miles northeast of Wiggins.	471	376
9	Beaver Dam Creek..	Black Creek.....	Lat 30°59', long 89°12', SW¼ sec. 4, T. 1 S., R. 12 W., St. Stephens meridian, ½ mile north of Maxie on Highway 49.	-	2.18
23	Red Creek.....	Pascagoula River..	Lat 31°01', long 89°27', NW¼ sec. 31, T. 1 N., R. 14 W., St. Stephens meridian, at bridge on U. S. Highway 11, 0.5 mile north of Lumberton.	15.6	.40
Apr. 16	....do.....	....do.....	....do.....	-	1,470

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pascagoula River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 23	Red Creek.....	Black Creek.....	Lat 30°51', long 89°12', in NW¼ sec. 28, T. 2 S., R. 12 W., St. Stephens meridian, at bridge on State Highway 26, 2½ miles upstream from Kerby Creek and 4 miles west of Wiggins.	-	22.4
Dec. 4	....do.....	....do.....	....do.....	-	6,350
Oct. 23	....do.....	....do.....	Lat 30°47', long 89°08', NW¼ sec. 18, T. 3 S., R. 11 W., St. Stephens meridian, at bridge on U. S. Highway 49, ½ mile north of Perkinson.	218	46.7
23	Flint Creek.....	Red Creek.....	Lat 30°52', long 89°07', SW¼ sec. 17, T. 2 S., R. 11 W., St. Stephens meridian, Stone County, at bridge, 1½ miles northeast of Wiggins on State Highway 29.	-	6.23
23	....do.....	....do.....	Lat 30°50', long 89°05', NE¼ sec. 27, T. 2 S., R. 11 W., St. Stephens meridian, Stone County, at bridge on Highway 26, 4.4 miles east of Wiggins.	-	18.0
23	Bluff Creek.....	....do.....	Lat 30°51', long 88°58', SE¼ sec. 23, T. 2 S., R. 10 W., St. Stephens meridian, Stone County, at bridge on Highway 26, 12.1 miles east of Wiggins.	-	6.26
25	Fourmile Creek....	Escatawpa River...	Lat 30°29', long 88°30', NW¼ sec. 32, T. 6 S., R. 5 W., St. Stephens meridian, Jackson County, at bridge on county road, 3.5 miles from Highway 63 at Escatawpa.	-	0
25	Rocky Creek.....	....do.....	Lat 30°55', long 88°32', NE¼ sec. 36, T. 1 S., R. 6 W., St. Stephens meridian, George County, 3 miles east of Lucedale on State Highway 15.	-	4.95
25	Black Creek.....	....do.....	Lat 30°30', long 88°30', NW¼ sec. 28, T. 6 S., R. 5 W., St. Stephens meridian, Jackson County, at Mississippi Export RR. bridge, ½ mile upstream from county road that leads from Escatawpa to Helena, Miss. also 4.2 miles northeast from intersection of county road and Highway 63 at Escatawpa.	-	.81

Tchoutacabouffa River basin, Miss.

Oct. 21	Hester Creek.....	Tuxachanie Creek..	Lat 30°33', long 88°57', SE¼ sec. 2, T. 6 S., R. 10 W., St. Stephens meridian, Harrison County, at bridge, 3 miles northeast of Highway 55 on county road and 10 miles north of Biloxi.	-	1.60
21	Hog Branch Creek..	....do.....	Lat 30°32', long 88°57', NE¼ sec. 11, T. 6 S., R. 10 W., St. Stephens meridian, Harrison County, at bridge, 2 miles northeast of Highway 55 on county road and 9 miles north of Biloxi.	-	.59

Biloxi River basin, Miss.

Oct. 22	Little Biloxi Creek.	Biloxi River.....	Lat 30°31', long 89°07', NE¼ sec. 17, T. 6 S., R. 11 W., St. Stephens meridian, at U. S. Highway 49, 2 miles north of Lyman.	71	3.41
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Bayou Bernard basin, Miss.

Oct. 22	Bayou Bernard....	Gulf of Mexico....	Lat 30°27', long 89°06', SW¼ sec. 9, T. 7 S., R. 11 W., St. Stephens meridian, 1,000 ft upstream from Gulf and Ship Island RR. bridge, 4 miles north of Gulfport.	16	0.96
22	Turkey Creek.....	Bayou Bernard.....	Lat 30°25', long 89°06', on line between secs. 21 and 28, T. 7 S., R. 11 W., St. Stephens meridian, at U. S. Highway 49, 2½ miles north of Gulfport.	24.3	.10

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Wolf River basin, Miss.

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 23	Wolf Creek.....	Standing Hickory Creek.	Lat 30°56', long 89°31', SE $\frac{1}{4}$ sec. 20, T. 1 S., R. 15 W., St. Stephens meridian, on U. S. Highway 11, 7 miles north of Poplarville.	-	1.41
23	....do.....	Wolf River.....	Lat 30°51', long 89°28', in W $\frac{1}{2}$ sec. 26, T. 2 S., R. 15 W., St. Stephens meridian, at county highway bridge, 2 $\frac{1}{2}$ miles upstream from Alligator Creek and 4 miles east of Poplarville.	-	4.77
Dec. 4	....do.....	....do.....	....do.....	-	3,930
Oct. 23	Murder Creek.....	....do.....	Lat 30°47', long 89°22', in SW $\frac{1}{4}$ sec. 14, T. 3 S., R. 14 W., St. Stephens meridian, at bridge on State Highway 26, 2 miles upstream from mouth and 11 miles southeast of Poplarville.	-	6.80
Dec. 4	....do.....	....do.....	....do.....	-	847
Oct. 22	Wolf River.....	Gulf of Mexico....	Lat 30°36', long 89°20', SE $\frac{1}{4}$ sec. 19, T. 5 S., R. 13 W., St. Stephens meridian, at Sellers Bridge, 16 miles northwest of Lyman.	235	31.6

Jordan River basin, Miss.

Oct. 22	Hickory Creek....	Catahoula Creek...	Lat 30°30', long 89°30', in SE $\frac{1}{4}$ sec. 21, T. 6 S., R. 15 W., Hancock County, St. Stephens meridian, 8 $\frac{1}{2}$ miles northwest of Kiln.	-	3.24
22	Bayou Bacon.....	Jordan River.....	Lat 30°28', long 89°30', NW $\frac{1}{4}$ sec. 3, T. 7 S., R. 15 W., Hancock County, St. Stephens meridian, 5 $\frac{1}{2}$ miles northwest of Kiln.	-	.85
22	Orphan Creek.....	Bayou Bacon.....	Lat 30°26', long 89°29', in NE $\frac{1}{4}$ sec. 15, T. 7 S., R. 15 W., St. Stephens meridian, Hancock County, 3 $\frac{1}{2}$ miles northwest of Kiln.	-	.72

Pearl River basin, Miss.

Sept. 14	Nanaway Creek....	Pearl River.....	Lat 32°56', long 88°53', E $\frac{1}{2}$ sec. 20, T. 13 N., R. 14 E., Choctaw meridian, at bridge $\frac{1}{2}$ mile west of Handle on unnamed highway.	-	0
14	Bogue Chitto Creek	....do.....	Lat 32°53', long 88°57', SW $\frac{1}{4}$ sec. 14, T. 2 N., R. 13 E., Choctaw meridian, Neshoba County, at bridge 3 miles northeast of Bond on Highway 21.	-	0
14	Tallahaga Creek...	....do.....	Lat 33°01', long 89°04', NE $\frac{1}{4}$ sec. 4, T. 13 N., R. 12 E., Choctaw meridian, Winston County, at bridge on Highway 15, $\frac{1}{2}$ mile upstream from Gulf, Mobile and Ohio RR. and 1 $\frac{1}{2}$ miles north of Noxapater.	-	0
14	Noxapater Creek...	....do.....	Lat 32°56', long 89°05', in SE $\frac{1}{4}$ sec. 20, T. 13 N., R. 12 E., Choctaw meridian, Winston County, at bridge on Highway 15, $\frac{1}{2}$ mile upstream from Gulf, Mobile and Ohio RR. and 2 miles south of Noxapater.	-	0
14	Pearl River.....	Gulf of Mexico....	NE $\frac{1}{4}$ sec. 6, T. 11 N., R. 12 E., Choctaw meridian, at bridge on State Highway 15, 4 miles north of Philadelphia.	524	.88
14	Unnamed creek....	Pearl River.....	Lat 32°43', long 89°09', SE $\frac{1}{4}$ sec. 15, T. 10 N., R. 11 E., Choctaw meridian, Neshoba County, at bridge $\frac{1}{2}$ mile upstream from Gulf, Mobile and Ohio RR., 1 mile upstream from mouth, and $\frac{1}{2}$ miles southwest of Philadelphia, on Highway 15.	-	.069
14	Kentawka Creek....	....d	NW $\frac{1}{4}$ sec. 35, T. 11 N., R. 11 E., Choctaw meridian, at bridge on State Highway 16, $\frac{1}{2}$ miles west of Philadelphia.	135	1.00

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pearl River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept.15	Lobutch Creek....	Pearl River.....	Lat 32°59', long 89°23', SW $\frac{1}{4}$ sec. 16, T. 13 N., R. 9 E., Choctaw meridian, Attala County, at bridge $\frac{1}{4}$ mile north of Zama on county road.	-	0.025
15	Yockanookany River (tributary No. 2)	Yockanookany River	Lat 33°09', long 89°27', SE $\frac{1}{4}$ sec. 14, T. 15 N., R. 8 E., Choctaw meridian, Attala County, at bridge $\frac{1}{4}$ mile upstream from mouth and 2 miles northeast of Ethel on Highway 12.	-	0
15	Yockanookany River (tributary No. 1)	....do.....	Lat 33°05', long 89°32', NE $\frac{1}{4}$ sec. 12, T. 14 N., R. 7 E., Choctaw meridian, Attala County, at bridge $\frac{1}{4}$ mile upstream from Illinois Central RR., and 4 miles northeast of Kosciusko on Highway 12.	-	.008
July 7	Red Cane Creek....	Fannegusha Creek..	Lat 32°29', long 89°47', in NE $\frac{1}{4}$ sec. 4, T. 7 N., R. 5 E., Choctaw meridian, $1\frac{1}{2}$ miles upstream from mouth and 5 miles east of Pisgah.	-	0
27	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		0
Sept.15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
July 7	Fannegusha Creek..	Pearl River.....	Lat 32°30', long 89°49', in SW $\frac{1}{4}$ sec. 29, T. 8 N., R. 5 E., Choctaw meridian, on county road $4\frac{1}{2}$ miles east of Sand Hill.	-	.036
27	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		0
Sept.15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
July 7	Rollinson Creek...	Fannegusha Creek..	Lat 32°30', long 89°49', NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 8 N., R. 5 E., Choctaw meridian, $\frac{1}{2}$ mile upstream from mouth and 4.2 miles east of Sand Hill.	-	0
27	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		0
Sept.15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
July 9	Mill Creek.....	Pearl River.....	Lat 32°28', long 89°59', in S $\frac{1}{2}$ sec. 10, T. 7 N., R. 3 E., Choctaw meridian, 2 miles upstream from mouth and 4 miles northwest of Fannin.	-	.036
27	....do.....	....do.....	....do.....		.099
Aug. 16	....do.....	....do.....	....do.....		.016
26	....do.....	....do.....	....do.....		.12
Sept.15	....do.....	....do.....	....do.....		.083
30	....do.....	....do.....	....do.....		.078
July 7	Big Branch.....	Pelahatchie Creek.	Lat 32°20', long 89°45', in SW $\frac{1}{4}$ sec. 24, T. 6 N., R. 5 E., Choctaw meridian, $\frac{1}{2}$ mile upstream from mouth and $3\frac{1}{2}$ miles east of Pelahatchie.	-	0
23	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		0
24	....do.....	....do.....	....do.....		0
Sept.15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
July 7	Mulberry Creek....	....do.....	Lat 32°19', long 89°45', in NW $\frac{1}{4}$ sec. 36, T. 6 N., R. 5 E., Choctaw meridian, $\frac{1}{4}$ mile upstream from mouth and 3 miles east of Pelahatchie.	-	0
23	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
24	....do.....	....do.....	....do.....		0
Sept.15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
July 8	Pelahatchie Creek.	Pearl River.....	Lat 32°19', long 89°45', in SE $\frac{1}{4}$ sec. 35, T. 6 N., R. 5 E., Choctaw meridian, on county road 2 miles east of Pelahatchie.	-	1.03
23	....do.....	....do.....	....do.....		.279
Aug. 16	....do.....	....do.....	....do.....		0
24do.....do.....do.....		0
Sept.15do.....do.....do.....		0
30do.....do.....do.....		0

MISCELLANEOUS DISCHARGE MEASUREMENTS

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Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pearl River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
July 8	Pashlo Creek.....	Pelahatchie Creek.	Lat 32°17', long 89°45', in NE¼ sec. 11, T. 5 N., R. 5 E., Choctaw meridian, 1 mile upstream from mouth and 2½ miles southeast of Pelahatchie.	-	0
Aug. 26	.....do.....	.....do.....	.....do.....		0
Aug. 24	.....do.....	.....do.....	.....do.....		0
Sept. 15	.....do.....	.....do.....	.....do.....		0
Sept. 30	.....do.....	.....do.....	.....do.....		0
July 7	Pierce Creek.....	.....do.....	Lat 32°19', long 89°47', on line between secs. 33 and 34, T. 6 N., R. 5 E., Choctaw meridian, 1½ miles upstream from mouth and at eastern city limits on U. S. Highway 80 of Pelahatchie.	-	0
Aug. 23	.....do.....	.....do.....	.....do.....		0
Aug. 16	.....do.....	.....do.....	.....do.....		0
Aug. 24	.....do.....	.....do.....	.....do.....		0
Sept. 15	.....do.....	.....do.....	.....do.....		0
Sept. 30	.....do.....	.....do.....	.....do.....		0
Oct. 5	Pelahatchie Creek.	Pearl River.....	SW¼ sec. 32, T. 6 N., R. 5 E., Choctaw meridian, at bridge on U. S. Highway 80, 0.6 mile west of Pelahatchie.	72.7	.05
July 8	.....do.....	.....do.....	.....do.....		.435
Aug. 23	.....do.....	.....do.....	.....do.....		.060
Aug. 26	.....do.....	.....do.....	.....do.....		.041
Aug. 26	.....do.....	.....do.....	.....do.....		1.95
Aug. 16	.....do.....	.....do.....	.....do.....		0
Aug. 24	.....do.....	.....do.....	.....do.....		0
Sept. 15	.....do.....	.....do.....	.....do.....		0
Sept. 30	.....do.....	.....do.....	.....do.....		0
July 8	Eutawatchee Creek	Pelahatchie Creek.	Lat 32°17', long 89°52', in W½ sec. 11, T. 5 N., R. 4 E., Choctaw meridian, 4½ miles upstream from mouth and 4½ miles southeast of Pelahatchie.	-	0
Aug. 23	.....do.....	.....do.....	.....do.....		0
Aug. 16	.....do.....	.....do.....	.....do.....		0
Aug. 24	.....do.....	.....do.....	.....do.....		0
Sept. 15	.....do.....	.....do.....	.....do.....		0
Sept. 30	.....do.....	.....do.....	.....do.....		0
Oct. 5	.....do.....	.....do.....	Lat 32°19', long 89°50', N½ sec. 1, T. 5 N., R. 4 E., Choctaw meridian, Rankin County, at bridge 1½ miles upstream from mouth and 3 miles west of Pelahatchie on Highway 80.	-	0
July 8	.....do.....	.....do.....	.....do.....		.016
Aug. 23	.....do.....	.....do.....	.....do.....		0
Aug. 16	.....do.....	.....do.....	.....do.....		0
Aug. 24	.....do.....	.....do.....	.....do.....		0
Sept. 15	.....do.....	.....do.....	.....do.....		0
Sept. 30	.....do.....	.....do.....	.....do.....		0
July 7	Dry Creek.....	.....do.....	Lat 32°25', long 89°47', in SW¼ sec. 28, T. 7 N., R. 5 E., Choctaw meridian, 3 miles upstream from mouth and 3 miles southwest of Leesburg.	-	0
Aug. 27	.....do.....	.....do.....	.....do.....		0
Aug. 16	.....do.....	.....do.....	.....do.....		0
Aug. 26	.....do.....	.....do.....	.....do.....		0
Sept. 15	.....do.....	.....do.....	.....do.....		0
Sept. 30	.....do.....	.....do.....	.....do.....		0
July 7	Clear Creek.....	.....do.....	Lat 32°23', long 89°49', in NW¼ sec. 8, T. 6 N., R. 5 E., Choctaw meridian, 3½ miles upstream from mouth and 4 miles north of Pelahatchie.	-	.287
Aug. 27	.....do.....	.....do.....	.....do.....		.217
Aug. 16	.....do.....	.....do.....	.....do.....		.241
Aug. 26	.....do.....	.....do.....	.....do.....		.265
Sept. 15	.....do.....	.....do.....	.....do.....		.135
Sept. 30	.....do.....	.....do.....	.....do.....		.182
July 7	.....do.....	.....do.....	Lat 32°22', long 89°50', in S½ sec. 12, T. 6 N., R. 4 E., Choctaw meridian, 2½ miles upstream from mouth and 4½ miles northwest from Pelahatchie.	-	.208
Aug. 27	.....do.....	.....do.....	.....do.....		.238
Aug. 16	.....do.....	.....do.....	.....do.....		.241
Aug. 26	.....do.....	.....do.....	.....do.....		0
Sept. 15	.....do.....	.....do.....	.....do.....		0
Sept. 30	.....do.....	.....do.....	.....do.....		0

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pearl River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
July 7	Hollybush Creek...	Clear Creek.....	Lat 32°24', long 89°50', on line between secs. 31 and 36, T. 7 N., and on line between R. 4 E. and R. 5 E., Choctaw meridian, 1½ miles upstream from mouth and 6 miles north-northwest of Pelahatchie.	-	0
27	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		0
Sept. 15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
Oct. 5	Clear Creek.....	Pelahatchie Creek.	Lat 32°22', long 89°53', S½ sec. 10, T. 6 N., R. 4 E., Choctaw meridian, Rankin County, at bridge ¼ mile upstream from mouth and 6 miles northwest of Pelahatchie on county road.	-	0
July 7	....do.....	....do.....	....do.....		.021
28	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		0
Sept. 15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
July 7	Bakers Creek.....	Riley Creek.....	Lat 32°26', long 89°53', on line between secs. 15 and 22, T. 7 N., R. 4 E., Choctaw meridian, 2½ miles upstream from mouth and 2.3 miles southwest of Pisgah.	-	0
27	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		0
Sept. 15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
July 7	Riley Creek.....	Pelahatchie Creek.	Lat 32°24', long 89°53', on corner line of secs. 3, 4, 33, and 34, on line between T. 6 N., and T. 7 N., R. 4 E., Choctaw meridian, 1½ miles upstream from mouth and 4½ miles east of Fannin.	-	0
27	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		0
Sept. 15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
July 9	Bush Creek.....	....do.....	Lat 32°21', long 89°55', in SE¼ sec. 31, T. 6 N., R. 4 E., Choctaw meridian, 2 miles upstream from mouth and 3 miles east of Langford.	-	0
27	....do.....	....do.....	....do.....		0
Aug. 17	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		0
Sept. 15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
July 7	Clark Creek.....	....do.....	Lat 32°24', long 89°55', in SE¼ sec. 31, T. 7 N., R. 4 E., Choctaw meridian, 2 miles upstream from mouth and 2½ miles southeast of Fannin.	-	0
27	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		0
Sept. 15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
Oct. 5	Purple Creek.....	Pearl River.....	NW¼ sec. 8, T. 6 N., R. 1 E., Choctaw meridian, at Colonial Country Club, Jackson, Miss., 1½ miles upstream from mouth.	-	0
Sept. 13	....do.....	....do.....	....do.....		0
Oct. 6	Unnamed creek....	Hanging Moss Creek	Lat 32°22'32", long 90°09'39", NE¼ sec. 11, T. 6 N., R. 1 E., Choctaw meridian, at bridge on U. S. Highway 51, 1 mile upstream from mouth and 1.3 miles southwest of Tougaloo.	-	0
Sept. 13	....do.....	....do.....	....do.....		0
Oct. 6	Hanging Moss Creek	Pearl River.....	Lat 32°22'10", long 90°09'00", NE¼ sec. 13, T. 6 N., R. 1 E., Choctaw meridian, at bridge on new U. S. Highway 51, at Jackson, Miss., 1 mile upstream from Whiteoak Creek and 2 miles above mouth.	16	0
May 1	....do.....	....do.....	....do.....		1,420
Sept. 13	....do.....	....do.....	....do.....		0

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pearl River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
July 9	Hog Creek.....	Pearl River.....	Lat 32°20', long 90°05', in SW $\frac{1}{4}$ sec. 27, T. 6 N., R. 2 E., Choctaw meridian, 2 miles upstream from mouth and 1 mile southwest of Luckney.	-	0.058
28	....do.....	....do.....	....do.....		.113
Aug. 16	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		.086
Sept. 15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		.014
Oct. 6	Town Creek.....	....do.....	SW $\frac{1}{4}$ sec. 3, T. 5 N., R. 1 E., Choctaw meridian, at bridge on Roach Street extension in Jackson.	8.4	3.90
6	Lynch Creek.....	....do.....	Lat 32°17', long 90°12', on line between secs. 15 and 16, T. 5 N., R. 1 E., Choctaw meridian, Hinds County, at bridge on Gallatin Street, $\frac{1}{2}$ mile south of Highway 80 in Jackson.	-	.451
July 8	Richland Creek....	....do.....	Lat 32°17', long 89°56', in NE $\frac{1}{4}$ sec. 13, T. 5 N., R. 3 E., Choctaw meridian, at bridge on U. S. Highway 80, 3 miles east of Brandon.	-	0
23	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
24	....do.....	....do.....	....do.....		0
Sept. 15	....do.....	....do.....	....do.....		0
30	....do.....	....do.....	....do.....		0
Oct. 6	....do.....	....do.....	Lat 32°15', long 89°57', SE $\frac{1}{4}$ sec. 26, T. 5 N., R. 3 E., Choctaw meridian, Rankin County, at bridge $2\frac{1}{2}$ miles south of Brandon on Highway 18.	-	0
July 15	....do.....	....do.....	Lat 32°13', long 90°00', in SE $\frac{1}{4}$ sec. 5, T. 4 N., R. 3 E., Choctaw meridian, on county road $4\frac{1}{2}$ miles east of Whitfield.	-	.01
27	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
25	....do.....	....do.....	....do.....		0
Sept. 14	....do.....	....do.....	....do.....		0
25	....do.....	....do.....	....do.....		0
Oct. 6	Tumbaloo Creek....	Richland Creek....	Lat 32°11', long 90°00', W $\frac{1}{2}$ sec. 16, T. 4 N., R. 3 E., Choctaw meridian, Rankin County, at bridge 2 miles upstream from mouth and $5\frac{1}{2}$ miles south of city limits of Brandon on county road.	--	0
July 9	....do.....	....do.....	....do.....		0
27	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
25	....do.....	....do.....	....do.....		0
Sept. 14	....do.....	....do.....	....do.....		0
29	....do.....	....do.....	....do.....		0
July 15	Richland Creek....	Pearl River.....	Lat 32°12', long 90°03', in NW $\frac{1}{4}$ sec. 12, T. 4 N., R. 2 E., Choctaw meridian, at bridge on county highway 469, and $5\frac{1}{2}$ miles northeast of Florence.	-	.059
27	....do.....	....do.....	....do.....		.011
Aug. 16	....do.....	....do.....	....do.....		0
25	....do.....	....do.....	....do.....		0
Sept. 14	....do.....	....do.....	....do.....		0
29	....do.....	....do.....	....do.....		0
Oct. 6	....do.....	....do.....	Sec. 23, T. 5 N., R. 1 E., Choctaw meridian, at U. S. Highway 49, 3 miles south of Jackson.	128	1.16
6	Big Creek.....	....do.....	NW $\frac{1}{4}$ sec. 23, T. 4 N., R. 1 W., Choctaw meridian, at bridge on U. S. Highway 51, 1 mile southwest of Byram and 3 miles upstream from mouth.	-	0
Sept. 13	....do.....	....do.....	....do.....		0
Oct. 6	Steens Creek.....	....do.....	Lat 32°09', long 90°07', NW $\frac{1}{4}$ sec. 32, T. 4 N., R. 2 E., Choctaw meridian, Rankin County, at bridge $\frac{1}{2}$ mile upstream from Illinois Central RR. and 1 mile south of Florence on Highway 49.	-	.050
July 9	....do.....	....do.....	....do.....		.099
28	....do.....	....do.....	....do.....		.14
Aug. 16	....do.....	....do.....	....do.....		.030
25	....do.....	....do.....	....do.....		.12
Sept. 14	....do.....	....do.....	....do.....		.043
29	....do.....	....do.....	....do.....		.10

MISCELLANEOUS DISCHARGE MEASUREMENTS

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pearl River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
July 9	Indian Creek.....	Steens Creek.....	Lat 32°09', long 90°07', in SW $\frac{1}{4}$ sec. 29, T. 4 N., R. 2 E., Choctaw meridian, 0.7 mile upstream from mouth at eastern edge of Florence on Highway 469.	-	0
28	....do.....	....do.....	....do.....		0
Aug. 16	....do.....	....do.....	....do.....		0
25	....do.....	....do.....	....do.....		0
Sept. 14	....do.....	....do.....	....do.....		0
29	....do.....	....do.....	....do.....		0
Oct. 6	....do.....	....do.....	Lat 32°09', long 90°08', S $\frac{1}{2}$ sec. 29, T. 4 N., R. 2 E., Choctaw meridian, Rankin County, at bridge $\frac{1}{4}$ mile east of Florence.	-	.11
July 15	French Branch.....	....do.....	Lat 32°12', long 90°10', in SW $\frac{1}{4}$ sec. 2, T. 3 N., R. 1 E., Choctaw meridian, 1 1/3 miles upstream from mouth and $\frac{3}{4}$ miles on county road southeast of Florence.	-	.089
28	....do.....	....do.....	....do.....		.026
Aug. 17	....do.....	....do.....	....do.....		.034
25	....do.....	....do.....	....do.....		.048
Sept. 14	....do.....	....do.....	....do.....		.071
29	....do.....	....do.....	....do.....		.029
July 9	Mountain Creek....	....do.....	Lat 32°06', long 90°08', in SE $\frac{1}{4}$ sec. 7, T. 3 N., R. 2 E., Choctaw meridian, on State Highway 469, 3 miles south of Florence.	-	.061
28	....do.....	....do.....	....do.....		.096
Aug. 17	....do.....	....do.....	....do.....		0
26	....do.....	....do.....	....do.....		.065
Sept. 14	....do.....	....do.....	....do.....		0
29	....do.....	....do.....	....do.....		.003
July 9	Hominy Creek.....	Mountain Creek....	Lat 32°05', long 90°08', in S $\frac{1}{2}$ sec. 19, T. 3 N., R. 2 E., Choctaw meridian, 2 miles upstream from mouth and on State Highway 469, 5 miles south of Florence.	-	.18
29	....do.....	....do.....	....do.....		.321
Aug. 17	....do.....	....do.....	....do.....		.076
26	....do.....	....do.....	....do.....		.10
Sept. 14	....do.....	....do.....	....do.....		.01
29	....do.....	....do.....	....do.....		.09
July 15	Steens Creek.....	Pearl River.....	Lat 32°07', long 90°11', in SW $\frac{1}{4}$ sec. 10, T. 3 N., R. 1 E., Choctaw meridian, $\frac{3}{4}$ miles upstream from mouth and on county road 5 miles southwest of Florence.	-	1.75
28	....do.....	....do.....	....do.....		1.57
Aug. 17	....do.....	....do.....	....do.....		.44
25	....do.....	....do.....	....do.....		.89
Sept. 14	....do.....	....do.....	....do.....		.18
29	....do.....	....do.....	....do.....		.97
Oct. 6	Rhodes Creek.....	....do.....	NE $\frac{1}{4}$ sec. 9, T. 3 N., R. 1 W., Choctaw meridian, at bridge on U. S. Highway 51, 1 mile upstream from Harris Creek and $\frac{1}{4}$ miles north of Terry.	20.8	.19
Sept. 13	....do.....	....do.....	....do.....		.15
July 8	Purvis Creek.....	Strong River.....	Lat 32°12', long 89°46', in corner of secs. 10, 11, 14, and 15, T. 4 N., R. 5 E., Choctaw meridian, on county road 2 miles northeast of Rufus near Johns.	-	0
26	....do.....	....do.....	....do.....		0
Aug. 17	....do.....	....do.....	....do.....		0
25	....do.....	....do.....	....do.....		0
Sept. 14	....do.....	....do.....	....do.....		0
29	....do.....	....do.....	....do.....		0
July 8	Billy Walker Creek	Purvis Creek.....	Lat 32°10', long 89°47', in NE $\frac{1}{4}$ sec. 21, T. 4 N., R. 5 E., Choctaw meridian, $2\frac{1}{2}$ miles upstream from mouth and $\frac{1}{4}$ miles northeast of Johns.	-	0
26	....do.....	....do.....	....do.....		0
Aug. 17	....do.....	....do.....	....do.....		0
25	....do.....	....do.....	....do.....		0
Sept. 14	....do.....	....do.....	....do.....		0
29	....do.....	....do.....	....do.....		0
July 15	Strong River.....	Pearl River.....	Lat 32°04', long 89°45', in SE $\frac{1}{4}$ sec. 26, T. 3 N., R. 5 E., Choctaw meridian, at bridge on Highway 18, 2 miles southeast of Fuckett.	-	6.14
26do.....do.....do.....		4.62
Aug. 17do.....do.....do.....		2.68
25do.....do.....do.....		5.89

MISCELLANEOUS DISCHARGE MEASUREMENTS

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Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pearl River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept. 14	Strong River.....	Pearl River.....	Lat 32°04', long 89°45', in SE¼ sec. 26, T. 3 N., R. 5 E., Choctaw meridian, at bridge on Highway 18, 2 miles southeast of Puckett.	-	1.43
29	....do.....	....do.....	....do.....	-	1.27
July 8	Clear Creek.....	Brushy Creek.....	Lat 32°08', long 89°46', in NE¼ sec. 5, T. 3 N., R. 5 E., Choctaw meridian, 3 miles upstream from mouth and 2½ miles east of Johns.	-	.048
26	....do.....	....do.....	....do.....	-	0
Aug. 17	....do.....	....do.....	....do.....	-	.018
25	....do.....	....do.....	....do.....	-	.044
Sept. 14	....do.....	....do.....	....do.....	-	.016
29	....do.....	....do.....	....do.....	-	.022
July 8	Brushy Creek.....	Strong River.....	Lat 32°05', long 89°47', in SW¼ sec. 22, T. 3 N., R. 5 E., Choctaw meridian, 2 miles upstream from mouth and ½ mile southwest of Puckett.	-	.94
26	....do.....	....do.....	....do.....	-	1.45
Aug. 17	....do.....	....do.....	....do.....	-	.54
25	....do.....	....do.....	....do.....	-	.57
Sept. 14	....do.....	....do.....	....do.....	-	.63
29	....do.....	....do.....	....do.....	-	.47
Oct. 6	Campbells Creek...	....do.....	Lat 32°08', long 89°50', in sec. 1, T. 3 N., R. 4 E., Choctaw meridian, Rankin County, at bridge on Highway 18 at Johns.	-	.50
July 8	....do.....	....do.....	....do.....	-	.43
26	....do.....	....do.....	....do.....	-	.51
Aug. 17	....do.....	....do.....	....do.....	-	.29
25	....do.....	....do.....	....do.....	-	.42
Sept. 14	....do.....	....do.....	....do.....	-	.33
29	....do.....	....do.....	....do.....	-	.34
July 15	....do.....	....do.....	Lat 32°05', long 89°52', in NE¼ sec. 22, T. 3 N., R. 4 E., Choctaw meridian, on county road 4½ miles southwest of Johns.	-	.39
26	....do.....	....do.....	....do.....	-	.32
Aug. 17	....do.....	....do.....	....do.....	-	.15
25	....do.....	....do.....	....do.....	-	.21
Sept. 14	....do.....	....do.....	....do.....	-	.36
29	....do.....	....do.....	....do.....	-	.67
July 8	Dobb's Creek.....	....do.....	Lat 32°08', long 89°55', in SW¼ sec. 32, T. 4 N., R. 4 E., Choctaw meridian, on county road between Cato and Rock Hill, 4½ miles west of Johns.	-	0
26	....do.....	....do.....	....do.....	-	0
Aug. 17	....do.....	....do.....	....do.....	-	0
25	....do.....	....do.....	....do.....	-	0
Sept. 14	....do.....	....do.....	....do.....	-	0
29	....do.....	....do.....	....do.....	-	0
Oct. 8	....do.....	....do.....	Lat 32°00', long 89°56', SW¼ sec. 18, T. 2 N., R. 4 E., Choctaw meridian, at bridge on U. S. Highway 49, 3½ miles upstream from mouth and 2½ miles northwest of Dlo.	55.1	0
July 15	....do.....	....do.....	....do.....	-	.034
28	....do.....	....do.....	....do.....	-	.19
Aug. 17	....do.....	....do.....	....do.....	-	0
26	....do.....	....do.....	....do.....	-	0
Sept. 14	....do.....	....do.....	....do.....	-	0
16	....do.....	....do.....	....do.....	-	0
29	....do.....	....do.....	....do.....	-	0
Oct. 8	Riles Creek.....	....do.....	NE¼ sec. 17, T. 1 N., R. 4 E., Choctaw meridian, at bridge on State Highway 20 at Merit, 1 mile upstream from mouth and 3 miles southwest of Mendenhall.	25.3	27.4
Sept. 16	....do.....	....do.....	....do.....	-	23.9
Oct. 8	Mill Creek.....	Pearl River.....	SE¼ sec. 10, T. 2 N., R. 3 E., Choctaw meridian, at bridge in Braxton.	11.3	.06
Sept. 16	....do.....	....do.....	....do.....	-	0
Oct. 8	Big Creek.....	Strong River.....	Lat 31°53', long 90°05', SW¼ sec. 36, T. 1 N., R. 2 E., Choctaw meridian, at bridge on State Highway 20, 5.5 miles west of Pinola.	44.0	.28
Sept. 16	....do.....	....do.....	....do.....	-	.014

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pearl River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Oct. 6	Copiah Creek.....	Pearl River.....	Lat 31°54', long 90°17', SE½ sec. 27, T. 1 N., R. 1 W. Choctaw meridian, at bridge on State Highway 20, ½ mile downstream from Little Copiah Creek and 6½ miles east of Hazlehurst.	47.5	8.37
Sept. 14	....do.....	....do.....	....do.....	73.5	7.14
Oct. 6	....do.....	....do.....	Lat 31°52', long 90°11', SE½ sec. 3, T. 10 N., R. 10 E., Washington meridian, at bridge on county road, 1.0 mile west of Georgetown.		22.7
Sept. 14	....do.....	....do.....	....do.....	-	19.3
Oct. 2	Big Bahala Creek..	....do.....	Lat 31°41', long 90°08', SW¼ sec. 5, T. 8 N., R. 11 E., Washington meridian, at bridge ½ mile upstream from mouth and ¾ miles north of Wanilla on unnamed highway.		20.1
Sept. 14	....do.....	....do.....	....do.....	94	12.0
Oct. 2	Silver Creek.....	....do.....	NE½ sec. 3, T. 7 N., R. 20 W., St. Stephens meridian, at bridge on U. S. Highway 84, at Silver Creek.		95.2
Sept. 15	....do.....	....do.....	....do.....	-	75.6
Oct. 2	White Sand Creek..	....do.....	Lat 31°34', long 89°54', on line between secs. 14 and 15, T. 7 N., R. 19 W., St. Stephens meridian, at bridge 2 miles south from city limits of Prentiss on Highway 13.		16.3
Sept. 15	....do.....	....do.....	....do.....	-	7.36
Oct. 2	East Fork Greens Creek.	Greens Creek.....	Lat 31°28', long 89°54', NE½ sec. 3, T. 5 N., R. 19 W., St. Stephens meridian, at bridge 2 miles upstream from mouth and 5¼ miles north of Goss on Highway 13.		2.23
2	Holliday Creek....	Pearl River.....	Lat 31°21', long 89°53', on line between secs. 35 and 2, on line between T. 4 N. and T. 5 N., R. 19 W., St. Stephens meridian, at bridge 1/8 mile upstream from Illinois Central RR., 1½ miles upstream from mouth, and ½ mile south of Goss on Highway 13.	-	49.8
2	Jones Creek.....	....do.....	Lat 31°16', long 89°50', NW¼ sec. 32, T. 4 N., R. 18 W., St. Stephens meridian, at bridge 1/8 mile upstream from Illinois Central RR. and 1 mile upstream from mouth at northern edge of Columbia on Highway 13.	-	.28
2	Graves Creek.....	....do.....	Lat 31°16', long 89°43', W½ sec. 33, T. 4 N., R. 17 W., St. Stephens meridian, at bridge 1½ miles upstream from mouth and 5½ miles east of city limits of Columbia on Highway 24.	-	13.2
1	Upper Little Creek	....do.....	SE½ sec. 27, T. 3 N., R. 18 W., St. Stephens meridian, at bridge on State Highway 13, 0.5 mile south of Lampton.	115	42.7
1	Ten Mile Creek....	....do.....	Lat 31°10', long 89°50', NW¼ sec. 12, T. 2 N., R. 13 E., St. Stephens meridian, at bridge on Highway 35, 1.5 miles upstream from mouth and 9 miles south of Columbia.	39.9	59.0
1	Lower Little Creek	....do.....	Lat 31°09', long 89°45', SE½ sec. 12, T. 2 N., R. 18 W., St. Stephens meridian, at bridge 2½ miles above mouth and ½ mile from Hub on Highway 13.	-	39.8
Sept. 15	Bogue Chitto.....	....do.....	Lat 31°33', long 90°29', in SW¼ sec. 26, T. 7 N., R. 7 E., Washington meridian, at bridge on U. S. Highway 84, 2½ miles southwest of Brookhaven.	30	.93
15	Big Creek.....	Bogue Chitto.....	Lat 31°27', long 90°27', N½ sec. 36, T. 6 N., R. 7 E., Washington meridian, at bridge ½ mile upstream from mouth and ½ mile north of Bogue Chitto on Highway 51.	-	10.4

Miscellaneous discharge measurements in the south Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, during water year October 1953 to September 1954--Continued

Pearl River basin, Miss.--Continued

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Sept. 15	Albritton Creek...	Bogue Chitto.....	Lat 31°23', long 90°28', S $\frac{1}{2}$ sec. 23, T. 5 N., R. 7 E., Washington meridian, at bridge $\frac{1}{2}$ mile upstream from mouth and 4 miles south of Bogue Chitto on Highway 51.	-	2.69
Oct. 1	Union Creek.....	McGee Creek.....	Lat 31°10', long 90°08', SE $\frac{1}{4}$ sec. 6, T. 2 N., R. 11 E., Washington meridian, at bridge 1 mile upstream from mouth and $\frac{3}{4}$ miles north of Tylertown on Highway 27.	12.6	5.13
1	McGee Creek.....	Bogue Chitto.....	Lat 31°07', long 90°08', N $\frac{1}{2}$ sec. 30, T. 2 N., R. 11 E., Washington meridian, at bridge $\frac{1}{2}$ mile upstream from Fernwood, Columbia & Gulf RR. on city limits east of Tylertown on Highway 24.	130	54.7
22	East Fork Hobolochitto Creek.	Pearl River.....	SW $\frac{1}{4}$ sec. 13, T. 6 S., R. 17 W., St. Stephens meridian, at bridge on U. S. Highway 11, $\frac{1}{2}$ mile north of Picayune.	108	8.36
22	West Fork Hobolochitto Creek.	....do.....	SW $\frac{1}{4}$ sec. 27, T. 5 S., R. 17 W., St. Stephens meridian, $\frac{1}{2}$ mile upstream from George's Branch and 2 $\frac{1}{2}$ miles north of Picayune.	-	32.5
22	Mill Creek.....	Hobolochitto Creek	Lat 30°34', long 89°40', SW $\frac{1}{4}$ sec. 36, T. 5 S., R. 17 W., St. Stephens meridian, at bridge $\frac{1}{2}$ mile upstream from New Orleans & Northeastern RR. and $\frac{1}{4}$ miles north of city limits of Picayune on Highway 11.	-	1.58
22	Turtleskin Creek..	Pearl River.....	Lat 30°24', long 89°38', NE $\frac{1}{4}$ sec. 31, T. 7 S., R. 16 W., St. Stephens meridian, on State Highway 43, 2 miles southeast of Santa Rose.	-	.21

The following table contains determinations of peak discharge made at crest stage by indirect methods at points other than regular gaging stations in the area covered by this report.

Miscellaneous determinations of peak discharge during water year October 1953 to September 1954

Date	Stream	Tributary to or diverting from--	Locality	Drainage area (sq mi)	Discharge (cfs)
Jan. 16	Little Suwannee Creek.	Yellow River.....	Lat 34°00', long 84°01', at county road, $\frac{3}{4}$ miles northwest of Lawrenceville, Gwinnett County, Ga.	9.62	1,860
16	Yellow River.....	Ocmulgee River....	Lat 33°57', long 84°03', at county road, $\frac{3}{4}$ miles west of Lawrenceville, Gwinnett County, Ga.	26.5	2,300
16	....do.....	....do.....	Lat 33°55', long 84°03', at county road, 1 mile east of Gloster, Gwinnett County, Ga.	43.5	2,700
16	Pork Creek.....	Yellow River.....	Lat 33°55', long 84°05', at county road, 0.8 mile west of Gloster, Gwinnett County, Ga.	2.34	470
Dec. 4	Wall Creek.....	Black Creek.....	Lat 31°36', long 89°13', in NW $\frac{1}{4}$ sec. 32, T. 2 N., R. 12 W., St. Stephens meridian, at bridge 2.0 miles upstream from mouth and $\frac{3}{4}$ miles northwest of Brooklyn, Miss.	22.3	6,460
May 1	Eubanks Creek.....do.....	Lat 32°20'10", long 90°09'40", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, T. 6 N., R. 1 E., Choctaw meridian, at bridge on new U. S. Highway 51 in Jackson, Miss., 1,700 ft downstream from Crane Creek and 1 mile upstream from Pearl River.	5.9	3,050

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