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Compilation of Records of Surface Waters of the United States, October 1950 to September 1960

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

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1724



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Prepared under the direction of E. L. HENDRICKS, Chief, Surface Water Branch

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UNITED STATES DEPARTMENT OF THE INTERIOR

STEWART L. UDALL, *Secretary*

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PREFACE

This report contains summaries of streamflow records in the South Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River. It was prepared by the United States Geological Survey in the Water Resources Division, L. B. Leopold, chief, under the general direction of E. L. Hendricks, chief, Surface Water Branch, and F. J. Flynn, chief, Reports Section.

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COMPILATION OF RECORDS OF SURFACE WATERS OF SOUTH ATLANTIC SLOPE AND EASTERN
GULF OF MEXICO BASINS, OGEECHEE RIVER TO PEARL RIVER, 1951-60

PURPOSE AND SCOPE

This volume is one of a series of reports presenting monthly and yearly summaries of streamflow and reservoir data collected by the Geological Survey during the period October 1, 1950, to September 30, 1960. Included with these data are some records furnished by other Federal, State, and private agencies. This series of reports is a condensation of the detailed streamflow information presented in the annual series of reports known as "Surface Water Supply of the United States" for each of the years 1951 through 1960. The area covered by this report is the South Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River.

The purpose of the present series of reports is to make available in summarized form all of the surface-water records collected October 1, 1950, to September 30, 1960, and to continue the series of reports known as Water-Supply Papers 1301-19 and 1372 which summarized all surface-water records through September 30, 1950. The present series of reports includes corrections of errors which have been found in the earlier series. Also included are some records collected prior to October 1, 1950, that were omitted from the 1950 compilation series.

The Geological Survey collected the records mainly in cooperation with State, municipal, and other Federal agencies, and published them in detail in the series of annual reports known as "Surface Water Supply of the United States." Some records furnished by other agencies have been included in the annual reports and in the present series of reports; such records are identified in the station description.

The data presented consist of records of discharge of streams and contents of reservoirs summarized on a monthly and yearly basis. Results of miscellaneous discharge measurements and, in general, stage records have been excluded. Included is a map of the area showing the location of each station (pl. 1). The reports of the present series are generally similar in the type of data they contain and in the form of presentation; moreover, they conform in style with the earlier series of compilation reports so that the entire record for any station up to September 30, 1960, is available in one or two volumes.

All records compiled for these summary reports were examined for major errors. A few revisions were made and the revised figures, noted as such, are included. Some previously unpublished information is included, as well as a few estimates of discharge that were made to fill short gaps in an otherwise complete period of record.

DESCRIPTION OF DATA

The gaging-station records are arranged in downstream order. The order used in this report is the same as that adopted for use in the annual series of reports on surface-water supply beginning with the water year 1951. 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 indentation in the listing of gaging stations in the table of contents represents one rank. This downstream order and system of indentation 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.

As an added means of identification, each station was assigned a number which is shown on the index map and which is a part of the station name in the heading of the description in the text. The numbers are assigned in downstream order in each part (see explanation of "parts" under the heading "Publications," p. 4) beginning with the most upstream station. The numbers are not consecutive because gaps are left to allow for new stations that may be established.

The data presented for most of the gaging stations comprise a description of the station, a table of monthly discharge in cubic feet per second, a table of monthly runoff in inches, and a yearly summary table. The station description gives the name of the river basin, the station number and name, the location, drainage area, records available, types and datums of gages, average discharge, extremes of discharge, general remarks concerning the data, and a credit statement if records were furnished by another agency.

The location of the gaging station and the drainage area are obtained from the best available maps. When more than one site was used during water years 1951-60 and the difference in drainage areas is significant, the area for the latest site is shown first followed by the areas for other sites in chronological order. In some instances drainage-area figures have not been obtained because of the lack of suitable maps or because the boundaries cannot be defined or the effective drainage area determined.

The paragraph "Records available" lists all periods for which there are published records generally equivalent to those at the present site. If equivalent records have been published under another station name, that fact is also noted.

The gage described first is the present gage or the one used most recently. Information is then given in chronological order for all gages used earlier, giving changes in location, type of gage, or datum. The location or datum of all earlier gages is given with reference to the present or most recently used gage. The datum of the gage is the elevation of the zero of the gage above mean sea level. Where information as to datum is not available, the altitude of the gage is given.

The average discharge for a station is the average of all complete water years and is published only if there are five or more complete water years of record. The years used to determine the average are not necessarily consecutive. The average discharge is not published for some stations because of extensive changes in diversion or storage, or other water development, that have occurred upstream.

In general, the momentary maximum and minimum discharges and stages for the entire period of record are published in the "Extremes" paragraph. These are qualified if necessary according to the type of gage used and the completeness of the record. Maximum and minimum discharges at nonrecording gaging stations are qualified as "observed" unless determined from a graph drawn through actual gage heights which approximates the actual hydrograph.

Under "Remarks" information is given on factors which affect the basin runoff characteristics. These include upstream regulation, diversion, and utilization--a history of changes in these items during the period 1951-60 is given when known. Also, references

are made to the records of storage or diversion upstream and to records concerning quality of water, if published.

When discharge records are furnished by another agency, credit is given under "Cooperation."

The streamflow data summarized in this report generally are contained in two monthly tables and one yearly table. The first monthly table is a tabulation of monthly and yearly mean discharges in cubic feet per second. These figures represent discharge passing the station; they are unadjusted for storage or diversion upstream unless otherwise specified under "Remarks" for the individual station. Each monthly figure is the mean flow for the entire month; generally no record for part of a month is tabulated. Likewise, each yearly figure is the mean flow for a full year, and no figure is shown for a partial year. Usually the months are arranged on a water-year basis. Exceptions to this rule are made in connection with seasonal records wherein the months are grouped to give a complete season for each calendar year.

The second monthly table is a tabulation of monthly and yearly runoff in inches. For streams that are subject to considerable regulation, the second table contains the adjusted runoff in inches. The table of runoff in inches is omitted if the data do not represent natural yield without gross error, whether adjusted or unadjusted.

The third table contains a yearly summary of the streamflow data. The column headed "WSP" lists the number of the water-supply paper in which the figures of daily and monthly discharge are published. If a part of the record has been revised and the revision published, then reference is made to both the original report and the one containing the revised record; if the daily discharge record for the entire year has been republished to include the revisions, then only the later report is listed. However, there is no reference in this column for revisions published for the first time in this report as the corresponding revised figures of daily discharge will be published in a water-supply paper which will contain daily records for the period 1961-65. For some stations the third table is omitted; however, the report containing records for any particular year can generally be found by referring to the table given on page 6.

In the third table the momentary maximum discharge for each water year and the date of its occurrence is given if known. For nonrecording gage records, momentary maximums were obtained from graphs drawn through the gage readings. The momentary maximum discharge, however obtained, is not qualified in any way if it is believed to be representative of the absolute maximum for the water year.

The minimum daily discharge for each water year is listed if known. Other data listed in this table are the annual mean discharge and runoff for both the water year and the calendar year. The figures listed for the water year are the same as those given in the yearly columns of the preceding tables. In addition, the annual mean discharge per square mile is listed for the water year. If figures of runoff have been adjusted for regulation or diversion in the preceding table, adjusted figures are listed in the yearly summary table. For a few stations regulation affects monthly figures seriously, but the effect on annual figures is either negligible or can be adequately adjusted for; for these stations the monthly table of runoff in inches is omitted, but the annual runoff is given.

Most canal and diversion records are given in a single table. There are some records for large canals, however, that are published in the same detail as those for streams. Records of reservoirs also are given in a single table which shows the contents at the end of each month.

Revised figures of discharge for water years 1951-60 are not so indicated if they have been published in an annual report, but are noted as "revised" if they have not been published in an annual report. Revised daily figures which have not been published in annual reports will be published in the water-supply paper containing records for water years 1961-65, except for special cases involving only a few figures which are included in this series of reports. Figures that represent corrections of typographical or computational errors whereas no figures of daily discharge have been revised or changed are indicated as "corrected" in this report, except corrected figures of runoff in inches which are not noted if the correction is due solely to a revision of drainage area. Estimates of discharge made to complete months or years for this report are noted as estimates and as "not previously published."

Revisions or corrections of records published in WSP 1304 are included in this report. However, revised figures of runoff in inches or discharge per square mile for records prior to October 1, 1950, resulting solely from a revision of drainage area, are not given. For stations published during at least part of the period 1951-60, the revisions or corrections are published herein with the other data for the station; for stations not operated since the end of the 1950 water year, the revisions or corrections are published in a special section at the conclusion of the report.

PUBLICATIONS

This series of reports comprises 20 volumes of water-supply papers (WSP) as numbered below. The "Part" numbers and the areas covered are the same as those used for the annual series of reports on surface-water supply of the United States since 1951. The boundaries of the parts are indicated on figure 1.

Numbers of water-supply papers for 1960 series of compilation reports

WSP	Part	Area
1721	1-A	North Atlantic slope basins, Maine to Connecticut.
1722	1-B	North Atlantic slope basins, New York to York River.
1723	2-A	South Atlantic slope basins, James River to Savannah River.
1724	2-B	South Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River.
1725	3-A	Ohio River basin except Cumberland and Tennessee River basins.
1726	3-B	Cumberland and Tennessee River basins.
1727	4	St. Lawrence River basin.
1728	5	Hudson Bay and upper Mississippi River basins.
1729	6-A	Missouri River basin above Sioux City, Iowa.
1730	6-B	Missouri River basin below Sioux City, Iowa.
1731	7	Lower Mississippi River basin.
1732	8	Western Gulf of Mexico basins.
1733	9	Colorado River basin.
1734	10	The Great Basin.
1735	11	Pacific slope basins in California.
1736	12	Pacific slope basins in Washington and upper Columbia River basin.
1737	13	Snake River basin.
1738	14	Pacific slope basins in Oregon and lower Columbia River basin.
1739	-	Hawaii.
1740	-	Alaska.

Records prior to September 30, 1950, were summarized in a series of water-supply papers as listed below. Each of these volumes contains a list of the annual reports from which data prior to 1951 were summarized.

Numbers of water-supply papers for 1950 series of compilation reports

WSP	Part	WSP	Part	WSP	Part
1301	1-A	1308	5	1315-A	11-B
1302	1-B	1309	6-A	1315-B	11-A
1303	2-A	1310	6-B	1316	12
1304	2-B	1311	7	1317	13
1305	3-A	1312	8	1318	14
1306	3-B	1313	9	1319	Hawaii
1307	4	1314	10	1372	Alaska

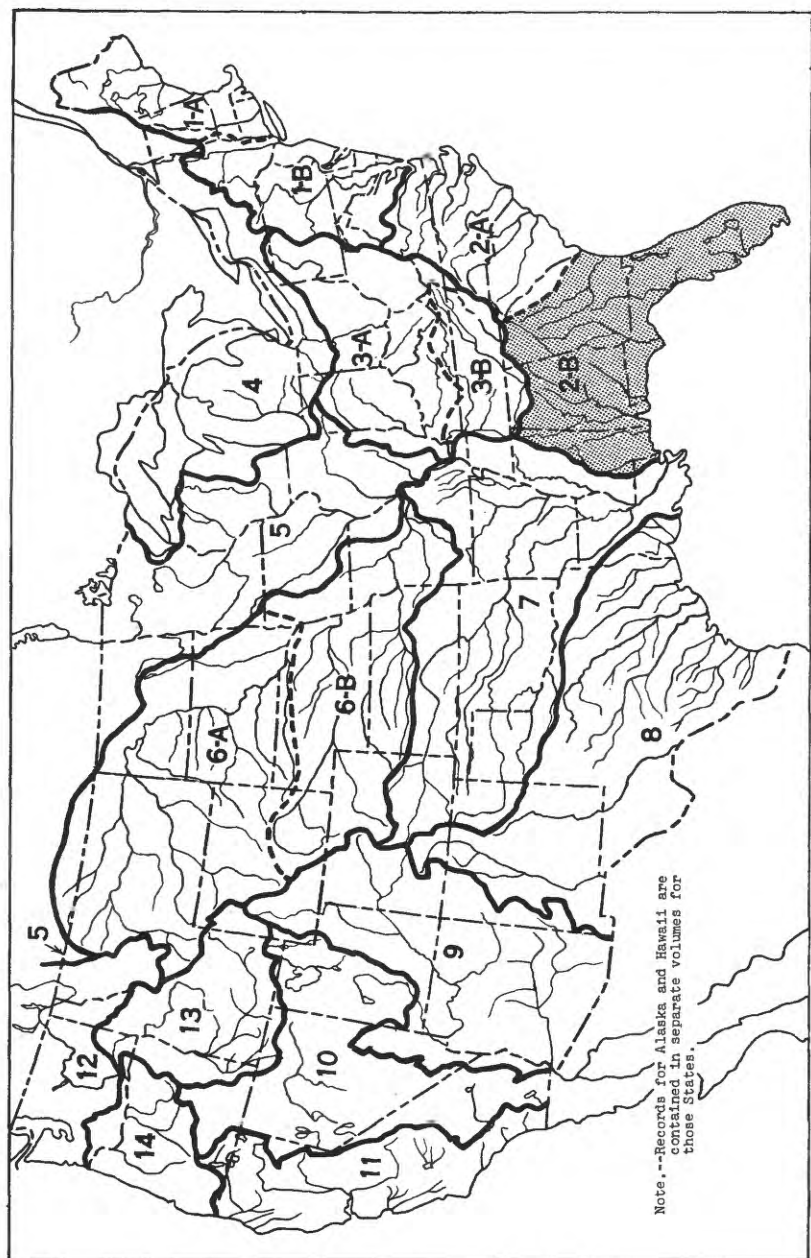


Figure 1.--Map of the conterminous United States showing areas covered by 18 of the 20 volumes on surface water supply. The area covered by this report is shaded.

This report is summarized from the following 10 annual reports which contain records of daily discharge for each of the water years from 1951 to 1960.

Annual water-supply papers, Part 2-B, 1951-60

Water year	WSP	Water year	WSP
1951	1204	1956	1434
1952	1234	1957	1504
1953	1274	1958	1554
1954	1334	1959	1624
1955	1384	1960	1704

In addition to the customary records of discharge collected during the systematic operation of gaging stations there is much additional hydrologic information available, both published and unpublished.

A list of flood reports and other special reports is contained in the introductory pages of each of the annual reports listed above.

Records for many stations have been analyzed by an electronic computer to give: the number of days in each year that the discharge was between selected limits (duration tables); the lowest and highest mean discharges for selected numbers of consecutive days in each year; and other statistical summaries.

Data on low flow or peak flows or both are available for many sites other than gaging stations.

Specific information on unpublished data available can be obtained by writing directly to the district engineer for the State in which the site or gaging station is located.

HYDROLOGIC CONDITIONS

Streamflow, a residual of precipitation after other demands have been met, varies considerably from year to year and from place to place. Figure 2 shows yearly discharge for three gaging stations in South Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River. The pattern of yearly runoff shown by these streams is generally representative of hydrologic conditions in their parts of the report area.

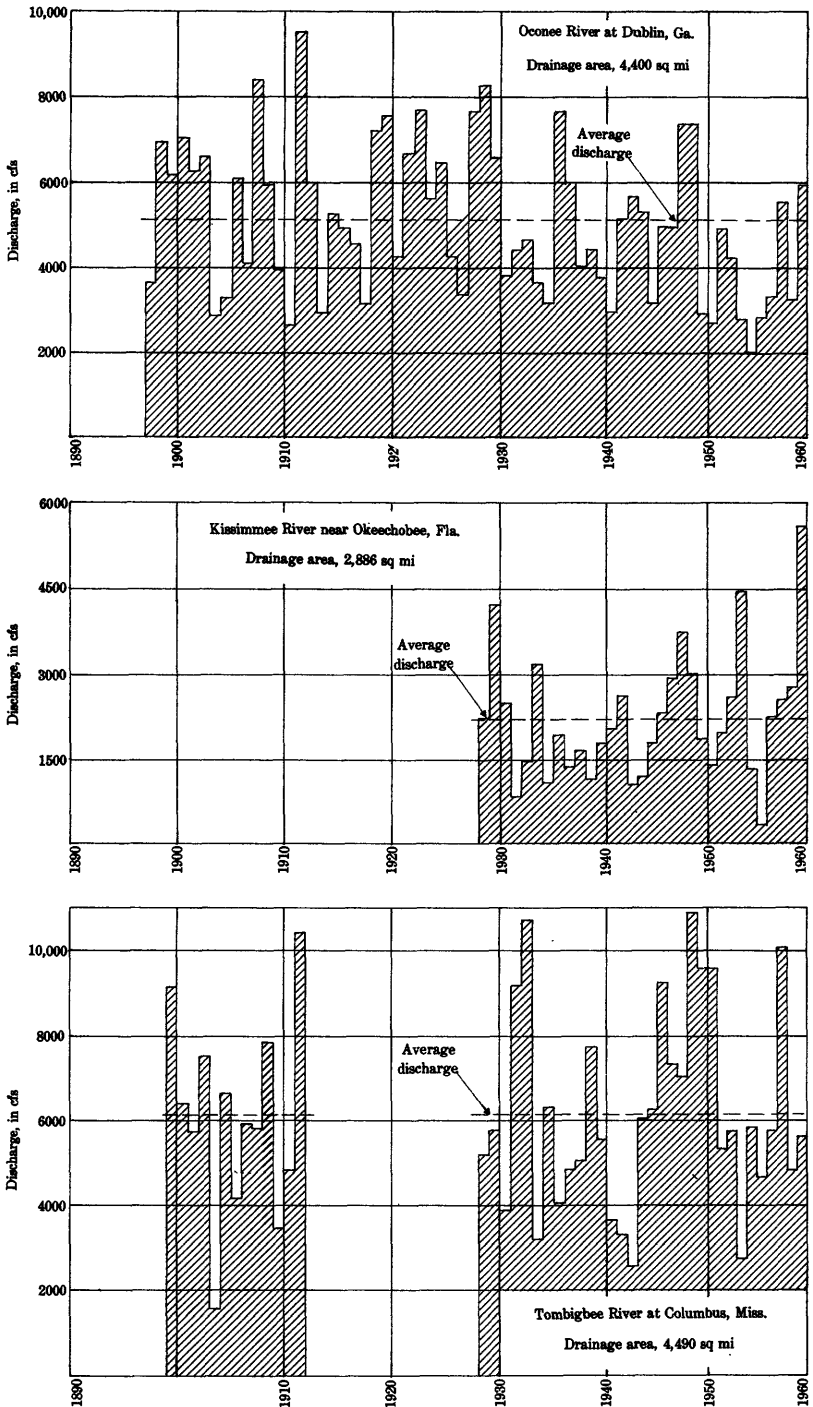


Figure 2.—Yearly discharge at three representative gaging stations.

OGEECHEE RIVER BASIN

2020. 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 1960.

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.--23 years (1937-60), 1,650 cfs.

Extremes.--1937-60: Maximum discharge, 24,600 cfs Aug. 17, 1940, Mar. 27, 1944 (gage height, 12.8 ft); minimum daily, 120 cfs Sept. 5-10, 1954.
Maximum stage known since at least 1840, 17.0 ft in October 1929, from information by local residents. Flood of 1925 reached a stage of 15.9 ft, from information as explained above.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	523	634	1,031	1,619	1,412	1,643	2,148	605	708	463	345	276	947
1952	267	636	988	1,235	2,290	5,367	2,579	1,087	647	308	341	347	1,339
1953	351	428	620	1,399	2,622	4,379	1,879	3,903	575	549	368	884	1,493
1954	1,269	531	2,149	2,360	1,390	1,504	1,492	709	373	230	163	143	1,027
1955	143	253	478	886	1,531	1,029	2,808	936	610	670	593	853	891
1956	486	416	769	621	2,130	3,217	2,558	1,302	409	313	239	248	1,055
1957	516	358	542	988	1,132	1,521	1,996	1,657	1,336	707	391	485	967
1958	2,421	1,847	3,981	2,872	3,492	4,687	4,801	1,649	1,061	1,241	437	277	2,392
1959	292	325	551	952	3,767	4,258	3,067	1,874	1,374	1,128	383	1,061	1,477
1960	3,264	3,312	2,358	2,999	9,303	5,335	6,330	1,528	1,217	952	977	478	3,141

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.31	0.36	0.61	0.96	0.76	0.98	1.24	0.36	0.41	0.28	0.21	0.16	6.64
1952	.16	.37	.59	.73	1.27	3.19	1.48	.65	.37	.18	.20	.20	9.39
1953	.21	.25	.37	.83	1.41	2.61	1.08	2.32	.33	.33	.22	.51	10.47
1954	.75	.31	1.28	1.41	.75	.89	.86	.42	.21	.14	.10	.08	7.20
1955	.09	.14	.28	.53	.82	.61	1.62	.56	.35	.40	.35	.49	6.24
1956	.29	.24	.46	.37	1.19	1.91	1.47	.77	.24	.19	.14	.14	7.41
1957	.31	.21	.32	.59	.61	.90	1.15	.98	.77	.42	.23	.28	6.77
1958	1.44	1.06	2.36	1.71	1.87	2.79	2.76	.98	.61	.74	.26	.16	16.74
1959	.17	.19	.33	.57	2.02	2.52	1.76	.46	.79	.67	.23	.61	10.32
1960	1.94	1.91	1.41	1.79	5.18	3.17	3.64	.91	.70	.57	.58	.27	22.07

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	775	5.41
1951	1204	3,740	Apr. 3, 4, 1951	190	947	0.488	6.64	922	6.48
1952	1234	11,000	Mar. 11, 1952	190	1,339	.690	9.39	1,298	9.10
1953	1274	14,400	May 9, 1953	242	1,493	.770	10.47	1,709	11.98
1954	1334	as 6,600	Oct. 1, 2, 1953	120	1,027	.529	7.20	767	5.37
1955	1384	6,110	Apr. 19, 1955	136	891	.459	6.24	959	6.72
1956	1434	7,310	Mar. 24, 1956	160	1,055	.544	7.41	1,033	7.26
1957	1504	3,220	Apr. 6, 1957	180	967	.498	6.77	1,543	10.79
1958	1554	7,800	Apr. 23, 1958	243	2,392	1.23	16.74	1,795	12.57
1959	1624	6,690	Mar. 10, 11, 1959	262	1,477	.761	10.32	2,128	14.89
1960	1704	19,400	Apr. 7, 1960	374	3,141	1.62	22.07	-	-

a Maximum daily discharge.

2025. 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 1960.

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). Prior to Oct. 1, 1939, staff gage at site 600 ft upstream at same datum.

Average discharge--23 years (1937-60), 2,195 cfs.

Extremes--1937-60: Maximum discharge, 26,300 cfs Mar. 31, 1944 (gage height, 14.7 ft); minimum observed, 131 cfs Sept. 12-14, 1954.

Maximum stage known since at least 1840, 20 ft in October 1929, from data furnished by Central of Georgia Railway Co. Flood of January 1925 reached a stage of 19.5 ft, from information as explained above and flood of April 1936 reached a stage of 15.2 ft (discharge, 30,000 cfs), from information as explained above.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,006	995	1,457	2,862	2,075	2,085	3,456	948	696	630	526	406	1,424
1952	364	756	1,146	1,621	3,097	6,273	4,453	1,697	940	445	612	470	1,818
1953	533	482	714	1,528	2,942	7,415	3,007	4,773	840	716	624	872	2,038
1954	2,483	646	2,519	3,682	1,910	1,896	1,732	1,098	544	270	206	191	1,435
1955	220	296	516	870	1,758	1,250	2,943	1,558	1,219	1,006	977	1,969	1,206
1956	714	433	790	673	2,698	3,748	†3,727	2,341	571	429	279	334	1,369
1957	615	431	527	1,010	1,236	1,601	2,867	2,342	2,192	1,222	675	694	1,282
1958	3,199	1,664	5,601	3,668	4,594	6,821	7,153	3,045	1,277	2,293	686	328	3,359
1959	308	327	531	1,082	4,668	6,520	4,893	1,075	1,569	1,373	709	1,167	1,997
1960	4,347	5,199	3,390	4,128	12,480	7,903	9,049	2,301	1,220	1,239	1,216	659	4,388

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.44	0.42	0.63	1.24	0.82	0.91	1.45	0.41	0.29	0.27	0.23	0.17	7.28
1952	.16	.32	.50	.71	1.26	2.73	1.87	.74	.40	.19	.27	.20	9.35
1953	.23	.20	.31	.67	1.16	3.23	1.26	2.08	.35	.31	.27	.37	10.44
1954	1.08	.27	1.10	1.60	.75	.82	.73	.48	.23	.12	.09	.08	7.35
1955	.10	.12	.22	.38	.69	.54	1.24	.68	.51	.44	.43	.83	6.18
1956	.31	.18	.34	.29	1.10	1.63	1.57	1.02	.24	.19	.12	.14	7.13
1957	.27	.18	.23	1.44	.49	.70	1.20	1.02	.92	.53	.29	.29	6.56
1958	1.40	.70	2.43	1.59	1.80	2.96	3.01	1.33	.54	1.00	.30	.14	17.20
1959	.13	.14	.23	.47	1.83	2.84	2.06	.47	.66	.60	.31	.49	10.23
1960	1.89	2.19	1.48	1.80	5.08	3.44	3.80	1.00	.51	.54	.52	.28	22.53

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	1,096	5.63	-	-
1951	1204	5,000	Apr. 3, 1951	311	1,424	0.537	7.28	1,323	6.77	-	-
1952	1234	12,000	Mar. 16, 1952	230	1,818	.686	9.35	1,775	9.11	-	-
1953	1274	15,800	May 14, 1953	348	2,038	.769	10.44	2,370	12.15	-	-
1954	1334	5,180	Jan. 1, 1954	131	1,435	.542	7.35	1,044	5.34	-	-
1955	1384	6,100	Apr. 24, 1955	205	1,206	.455	6.18	1,283	6.57	-	-
1956	1434	6,700	Mar. 30, 1956	215	1,389	.524	7.13	1,358	6.98	-	-
1957	1504	3,920	Apr. 13, 1957	335	1,282	.484	6.56	2,034	10.41	-	-
1958	1554	9,200	Mar. 12-14, 1958	282	3,559	1.27	17.20	2,573	13.17	-	-
1959	1624	7,850	Mar. 9-10, 1959	291	1,997	.754	10.23	2,983	15.29	-	-
1960	1704	24,000	Apr. 10-11, 1960	464	4,388	1.66	22.53	-	-	-	-

2030. 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.

Records available--May 1937 to September 1960.

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--23 years (1937-60), 427 cfs.

Extremes--1937-60: 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, 0.86 cfs Sept. 8-14, Oct. 25, 26, Nov. 2, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	316	146	392	912	465	469	900	70.4	33.9	20.1	61.1	44.1	310
1952	24.8	78.5	264	284	821	1,382	482	286	169	9.99	99.6	187	338
1953	105	62.6	109	327	818	1,760	581	616	49.3	231	87.8	709	453
1954	971	150	972	889	396	350	106	61.8	8.16	3.05	1.53	1.98	328
1955	1.22	3.02	4.98	5.44	107	52.6	518	64.3	9.51	25.7	118	1,008	158
1956	428	87.9	96.4	86.3	786	707	706	602	134	40.3	49.7	97.7	317
1957	106	56.6	52.9	60.2	88.9	268	484	1,057	827	509	227	134	324
1958	919	520	1,156	867	639	1,546	1,695	422	285	569	44.5	6.68	722
1959	4.07	8.42	23.1	111	1,337	1,915	992	211	336	199	68.5	194	443
1960	649	688	868	796	2,164	1,349	1,721	255	53.3	27.7	10.1	5.19	709

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.66	0.29	0.81	1.68	0.87	0.97	1.81	0.15	0.07	0.04	0.13	0.09	7.57
1952	.05	.16	.55	.59	1.60	2.87	.97	.59	.34	.02	.21	.34	8.29
1953	.22	.13	.23	.68	1.53	3.66	1.17	1.28	.10	.48	.18	1.43	11.09
1954	2.02	.30	2.02	1.84	.74	.73	.21	.13	.02	.006	.003	.004	8.02
1955	.003	.006	.01	.01	.20	.11	1.04	.13	.02	.05	.25	2.03	3.86
1956	.89	.18	.20	.18	1.53	1.46	1.42	1.24	.27	.08	.10	.20	7.75
1957	.22	.11	.11	.12	.17	.56	.97	2.19	1.66	1.06	.47	.27	7.91
1958	1.91	1.05	2.40	1.80	1.20	3.22	3.40	.88	.53	1.19	.09	.01	17.68
1959	.008	.02	.05	.23	2.51	3.98	2.00	.44	.68	.41	.14	.39	10.86
1960	1.35	1.38	1.80	1.65	4.21	2.80	3.46	.53	.11	.06	.02	.01	17.38

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	167	4.08
1951	1204	2,840	Apr. 1, 1951	3.3	310	0.559	7.57	269	6.57
1952	1234	2,130	Mar. 29, 1952	4.0	338	.809	8.29	330	8.11
1953	1274	8,500	Sept. 28, 1953	9.5	453	.816	11.09	607	14.85
1954	1334	3,170	Oct. 2, 1953	.86	328	.591	8.02	152	3.70
1955	1384	2,620	Sept. 17, 1955	.86	158	.285	3.86	209	5.11
1956	1434	2,830	May 7, 1956	7.0	317	.571	7.75	283	6.92
1957	1504	2,760	May 27, 1957	16	324	.584	7.91	525	12.83
1958	1554	3,500	Mar. 11, 1958	2.6	722	1.30	17.68	506	12.40
1959	1624	5,700	Mar. 7-8, 1959	1.3	443	.798	10.86	626	15.31
1960	1704	6,400	Apr. 7, 1960	2.7	709	1.28	17.38	-	-

2045. 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.--456 sq mi.

Records available.--October 1939 to September 1960.

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

Average discharge.--21 years (1939-60), 559 cfs (unadjusted).

Extremes.--1939-60: 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, 54 cfs Oct. 12, 1954.

Remarks.--Records of discharge include sewage effluent (averaging from about 12 cfs in 1951 to about 45 cfs in 1960) from city of Atlanta which diverts for water supply from Chattahoochee River below station at Atlanta.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	301	285	413	408	548	604	687	297	297	417	181	198	385
1952	186	272	919	536	660	2,344	694	447	321	175	325	244	596
1953	175	217	418	969	1,095	910	727	1,101	450	492	235	411	598
1954	247	239	1,082	882	492	569	405	319	259	185	158	84.9	392
1955	66.9	164	214	564	595	480	570	299	197	380	252	150	326
1956	190	223	218	219	722	1,090	1,064	372	215	470	169	586	460
1957	246	234	555	766	581	851	1,219	662	402	306	199	310	527
1958	385	951	748	604	1,341	1,034	1,035	568	372	589	390	208	681
1959	241	234	266	408	764	843	584	384	522	394	178	235	419
1960	418	314	329	1,574	1,447	1,084	1,391	499	402	311	436	277	704

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	417	12.42
1951	1204	3,800	Feb. 22, 1951	78	385	0.844	11.45	417	12.41
1952	1234	12,300	Mar. 4, 1952	122	596	1.31	17.79	548	16.36
1953	1274	5,800	May 1, 1953	150	598	1.31	17.77	682	19.67
1954	1334	5,300	Dec. 5, 1953	64	392	.860	11.66	297	8.84
1955	1384	4,630	Feb. 7, 1955	54	326	.715	9.71	342	10.18
1956	1434	13,000	Mar. 17, 1956	96	460	1.01	13.72	494	14.74
1957	1504	11,800	Apr. 6, 1957	124	527	1.16	15.68	614	18.27
1958	1554	8,860	Feb. 7, 1958	161	681	1.49	20.28	568	16.92
1959	1624	5,140	May 31, 1959	130	419	.919	12.45	446	13.26
1960	1704	8,280	Jan. 31, 1960	142	704	1.54	21.01	-	-

Note.--Monthly figures of discharge per square mile and runoff in inches, October 1950 to September 1960, previously published in water-supply papers, are subject to error because of diversion from Chattahoochee River into South River by city of Atlanta. Those figures are not published herein.

2050. Wildcat Creek near Lawrenceville, Ga.

Location.--Lat 34°00'00", long 84°00'20", on left bank 75 ft upstream from highway bridge, 0.7 mile upstream from mouth, 1.1 mile east of State Highway 20, and 3 $\frac{1}{4}$ miles north of Lawrenceville, Gwinnett County.

Drainage area.--1.59 sq mi.

Records available.--October 1953 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 970 ft (by barometer).

Average discharge.--7 years (1953-60), 1.21 cfs.

Extremes.--1953-60: Maximum discharge, 806 cfs May 6, 1956 (gage height, 8.20 ft), from rating curve extended above 20 cfs on basis of slope-area measurement at gage height 4.95 ft and slope-area estimate at gage height 8.20 ft; no flow for part of each day Sept. 1-6, Oct. 7, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	0.463	0.637	2.20	4.12	1.85	1.86	1.45	0.854	0.537	0.204	0.122	0.123	1.20
1955	.072	.337	.514	1.65	2.93	1.33	1.29	.728	.486	.445	.172	.076	.821
1956	.120	.289	.319	.436	1.60	3.48	2.03	3.20	.900	3.41	.674	1.20	1.47
1957	.743	.967	1.23	2.03	1.73	1.80	4.16	1.40	.634	.197	.065	.183	1.26
1958	.462	1.96	1.87	1.58	2.62	3.06	3.45	1.30	.512	.821	.361	.184	1.51
1959	.337	.401	.610	1.17	1.86	1.89	1.44	1.01	1.34	.333	.101	.196	.884
1960	.433	.421	.748	3.05	3.55	2.50	2.50	1.00	.970	.384	.231	.392	1.34

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	0.34	0.45	1.59	2.99	1.20	1.35	1.02	0.62	0.38	0.15	0.09	0.09	10.27
1955	.05	.24	.38	1.20	1.92	.96	.90	.53	.34	.32	.12	.05	7.01
1956	.09	.20	.23	.32	1.09	2.52	1.43	2.32	.63	2.47	.49	.84	12.63
1957	.45	.68	.89	1.48	1.14	1.30	2.93	1.02	.45	.14	.06	.13	10.67
1958	.35	1.40	1.36	1.15	1.72	2.21	2.42	.94	.36	.59	.26	.13	12.89
1959	.24	.28	.44	.85	1.22	1.37	1.01	.73	.94	.24	.07	.14	7.53
1960	.31	.30	.54	2.21	2.40	1.81	1.75	.75	.68	.28	.17	.28	11.46

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1554	345	Jan. 16, 1954	0.01	1.20	0.755	10.27	1.00	8.56
1955	1554	240	Feb. 6, 1955	.01	.821	.516	7.01	.802	6.86
1956	1554	806	May 6, 1956	.08	1.47	.925	12.63	1.66	14.13
1957	1554	73	Apr. 5, 1957	.02	1.26	.792	10.67	1.37	11.76
1958	1554	42	Apr. 15, 1958	.08	1.51	.950	12.89	1.26	10.74
1959	1624	92	June 1, 1959	.04	.884	.556	7.53	.905	7.72
1960	1704	82	June 7, 1960	.09	1.34	.843	11.46	-	-

2055. Pew Creek near Lawrenceville, Ga.

Location.--Lat 33°56'05", long 84°01'00", on right bank 20 ft upstream from highway bridge, 1 mile upstream from Redland Creek, and $2\frac{1}{4}$ miles southwest of Lawrenceville, Gwinnett County.

Drainage area.--2.23 sq mi.

Records available.--October 1953 to September 1960.

Gage.--Water-stage recorder. Altitude of gage 930 ft (by barometer).

Average discharge.--7 years (1953-60), 2.31 cfs.

Extremes.--1953-60: Maximum discharge, 615 cfs July 15, 1956 (gage height, 6.96 ft), from rating curve extended above 80 cfs on basis of slope-area measurement at gage height 5.95 ft; minimum, 0.12 cfs Aug. 11, 1957.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	1.29	1.40	5.71	6.84	3.55	3.46	2.54	1.75	1.19	0.574	0.414	0.276	2.42
1955	.249	.824	1.02	3.01	5.78	2.31	2.49	1.58	1.55	1.97	.749	.353	1.80
1956	.443	.971	.922	.983	3.62	7.77	4.45	7.52	1.92	7.29	1.03	1.73	3.23
1957	1.27	1.48	2.02	2.63	2.34	2.71	5.86	2.62	1.23	.661	.503	.789	2.00
1958	1.10	3.36	3.36	2.65	4.59	4.86	5.50	2.54	1.31	1.78	.856	.636	2.69
1959	.665	.811	.936	1.71	2.75	2.82	1.94	1.70	3.70	.551	.495	.443	1.53
1960	.992	.846	1.36	5.85	6.80	3.86	5.08	1.60	1.17	.866	.593	.953	2.48

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	0.67	0.70	2.95	3.54	1.66	1.79	1.27	0.90	0.60	0.30	0.21	0.14	14.73
1955	.13	.41	.53	1.56	2.70	1.20	1.25	.82	.78	1.02	.39	.18	10.97
1956	.23	.49	.48	.51	1.75	4.01	2.23	3.88	.96	3.77	.53	.87	19.71
1957	.66	.74	1.04	1.36	1.09	1.41	2.93	1.35	.62	.34	.26	.40	12.20
1958	.57	1.68	1.74	1.37	2.14	2.51	2.76	1.31	.65	.92	.44	.32	16.41
1959	.34	.41	.48	.88	1.28	1.45	.97	.88	1.85	.28	.26	.22	9.30
1960	.51	.42	.70	3.02	3.29	1.99	2.54	.83	.59	.45	.31	.48	15.13

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1554	480	Jan. 16, 1954	0.16	2.42	1.09	14.73	1.88	11.48
1955	1554	273	Feb. 6, 1955	.16	1.80	.807	10.97	1.82	11.10
1956	1554	615	July 15, 1956	.30	3.23	1.45	19.71	3.43	20.95
1957	1554	115	Apr. 5, 1957	.21	2.00	.897	12.20	2.26	13.75
1958	1554	67	Apr. 15, 1958	.54	2.69	1.21	16.41	2.24	13.65
1959	1624	519	June 1, 1959	.22	1.53	.686	9.30	1.60	9.70
1960	1704	150	Apr. 4, 1960	.20	2.48	1.11	15.13	-	-

† Corrected.

2060. Shetley Creek near Norcross, Ga.

Location.--Lat 33°57'20", long 84°09'40", on right bank 150 ft upstream from highway bridge, 1 mile upstream from mouth, and 2.8 miles northeast of Norcross, Gwinnett County.

Drainage area.--0.98 sq mi.

Records available.--October 1953 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 890 ft (from topographic map).

Average discharge.--7 years (1953-60), 0.93 cfs.

Extremes.--1953-60: Maximum discharge, 610 cfs May 6, 1956 (gage height, 7.00 ft. from floodmark), from rating curve extended above 25 cfs on basis of slope-area measurements at gage heights 6.37 and 10.4 ft; minimum, 0.01 cfs Sept. 12, 13, Oct. 6, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	0.518	0.542	2.08	2.31	1.59	1.75	1.32	0.657	0.955	0.216	0.094	0.041	1.00
1955	.050	.241	.316	.908	1.63	.715	.949	.577	.463	.507	.291	.115	.556
1956	.129	.322	.359	.308	1.26	4.02	1.64	2.45	.727	2.50	.486	1.01	1.27
1957	.642	.625	.768	1.25	1.19	1.24	2.72	.804	.521	.315	.119	.178	.860
1958	.395	1.59	1.11	1.15	2.00	2.19	1.95	.885	.411	1.01	.350	.242	1.10
1959	.391	.412	.500	.795	1.18	1.21	1.27	.890	.709	.577	.344	.178	.701
1960	.455	.361	.572	2.45	2.20	1.87	2.14	.928	.559	.443	.237	.318	1.04

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	0.61	0.62	2.44	2.72	1.69	2.06	1.51	0.77	1.09	0.25	0.11	0.05	15.92
1955	.06	.27	.37	1.07	1.73	.84	1.08	.68	.53	.60	.34	.15	7.70
1956	.15	.37	.42	.56	1.39	4.73	1.86	2.88	.83	2.94	.57	1.15	17.65
1957	.76	.71	.90	1.48	1.26	1.46	3.10	.95	.59	.37	.14	.20	11.92
1958	.46	1.81	1.30	1.35	2.12	2.57	2.20	1.02	.47	1.19	.39	.28	15.16
1959	.46	.47	.59	.93	1.25	1.42	1.45	1.05	.81	.68	.40	.20	9.71
1960	.53	.41	.67	2.86	2.42	2.20	2.43	1.09	.64	.52	.28	.36	14.41

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1554	442	Jan. 16, 1954	0.01	1.00	1.02	15.92	0.790	10.95
1955	1554	142	Feb. 6, 1955	.02	.556	.567	7.70	.573	7.94
1956	1554	610	May 6, 1956	.09	1.27	1.30	17.65	1.37	19.08
1957	1554	142	Apr. 5, 1957	.04	.860	.878	11.92	.947	13.12
1958	1554	112	Nov. 25, 1957	.16	1.10	1.12	15.16	.947	15.11
1959	1624	559	July 20, 1959	.08	.701	.715	9.71	.709	9.80
1960	1704	76	Apr. 3, 1960	.11	1.04	1.06	14.41	-	-

* Not previously published.

2065. Yellow River near Snellville, Ga.

Location.--Lat 33°51', long 84°05', on left bank at downstream side of county highway bridge, $3\frac{1}{4}$ miles west of Snellville, Gwinnett County, 4 miles downstream from Sweet-water Creek, $6\frac{1}{2}$ miles northeast of town of Stone Mountain, and $7\frac{1}{2}$ miles upstream from Stone Mountain Creek.

Drainage area.--134 sq mi.

Records available.--October 1942 to September 1960.

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.--18 years (1942-60), 156 cfs.

Extremes.--1942-60: Maximum discharge, 9,500 cfs Nov. 29, 1948 (gage height, 19.4 ft, from floodmark); minimum, 1.5 cfs Oct. 9, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	153	76.5	116	115	145	205	205	75.2	61.3	67.9	20.9	30.2	106
1952	35.9	83.7	454	209	204	706	232	118	67.3	28.4	39.8	51.4	187
1953	30.9	56.1	115	418	323	238	168	294	97.0	90.8	34.8	89.7	162
1954	51.6	58.7	263	388	160	179	128	77.4	64.4	26.1	11.7	4.40	118
1955	3.89	28.1	56.5	162	284	121	132	78.9	64.2	57.0	23.1	10.5	83.7
1956	16.0	37.1	44.0	49.5	178	378	235	396	52.1	283	46.5	104	152
1957	76.2	81.4	107	182	160	188	301	108	60.7	48.0	14.2	20.7	112
1958	39.6	170	178	146	267	290	294	122	58.3	124	42.8	24.5	145
1959	46.2	44.6	53.2	107	192	186	148	102	150	37.5	16.5	21.2	91.2
1960	63.4	52.2	85.1	326	409	246	302	110	74.1	35.9	27.3	56.1	148

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.31	0.64	1.00	0.99	1.12	1.78	1.71	0.65	0.51	0.58	0.18	0.25	10.70
1952	.31	.70	3.91	1.80	1.64	6.08	1.93	1.02	.56	.24	.34	.43	18.96
1953	.27	.47	.99	3.60	2.51	2.05	1.40	2.52	.81	.78	.30	.75	16.45
1954	.44	.49	2.26	3.34	1.24	1.54	1.07	.67	.54	.22	.10	.04	11.95
1955	.03	.23	.48	1.40	2.21	1.04	1.10	.68	.53	.49	.20	.09	8.48
1956	.14	.31	.38	.43	1.43	3.25	1.95	3.41	.43	2.43	.40	.87	15.43
1957	.66	.68	.92	1.57	1.24	1.61	2.51	.93	.51	.41	.12	.17	11.33
1958	.34	1.42	1.53	1.26	2.07	2.49	2.44	1.05	.49	1.07	.37	.20	14.73
1959	.40	.37	.46	.92	1.49	1.60	1.23	.88	1.25	.32	.14	.18	9.24
1960	.55	.44	.73	2.80	3.29	2.12	2.51	.95	.62	.31	.24	.47	15.03

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches		Mean	Runoff in inches
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	130	13.13
1951	1204	1,560	Oct. 20, 1950	5.4	106	0.791	10.70	125	125	12.67
1952	1234	5,570	Dec. 21, 1951	14	187	1.40	18.96	155	155	15.77
1953	1274	3,180	Jan. 10, 1953	17	162	1.21	16.45	177	177	17.91
1954	1354	4,100	Jan. 17, 1954	2.3	118	.881	11.95	93.8	93.8	9.50
1955	1384	3,400	Feb. 7, 1955	1.6	83.7	.625	8.48	84.4	84.4	8.57
1956	1434	7,600	May 7, 1956	12	152	1.13	15.43	166	166	16.86
1957	1504	2,970	Apr. 5, 1957	3.4	112	.836	11.33	122	122	12.36
1958	1554	1,280	Apr. 16, 1958	14	145	1.08	14.73	125	125	12.67
1959	1624	1,400	May 31, 1959	8.3	91.2	.681	9.24	96.0	96.0	9.73
1960	1704	2,460	Jan. 31, 1960	8.3	148	1.10	15.03	-	-	-

2070. Garner Creek near Snellville, Ga.

Location.--Lat 33°51'45", long 84°05'50", on left bank 100 ft downstream from highway culvert, 0.9 mile upstream from mouth, and 4½ miles west of Snellville, Gwinnett County.

Drainage area.--5.54 sq mi.

Records available.--October 1953 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 830 ft (from topographic map).

Average discharge.--7 years (1953-60), 5.10 cfs (revised).

Extremes.--1953-60: Maximum discharge, 727 cfs Mar. 16, 1956 (gage height, 3.09 ft), from rating curve extended above 110 cfs on basis of culvert measurement at gage height 2.98 ft; minimum, 0.52 cfs Sept. 3, Oct. 7, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	3.00	3.30	*8.69	*10.9	*5.27	5.62	*5.48	2.75	3.23	1.81	1.13	0.785	*4.34
1955	.876	1.96	3.43	*10.5	*9.32	*5.16	*6.43	3.86	*4.13	*3.81	1.90	1.26	*4.36
1956	1.65	2.22	2.15	2.37	*7.97	*12.2	*8.46	*7.35	1.78	*7.96	1.91	*3.51	*4.96
1957	2.42	2.91	*4.20	*7.07	5.87	*7.21	*10.9	4.67	3.50	*3.55	1.49	2.09	*4.63
1958	2.86	*6.94	*7.01	*6.44	*10.5	*10.1	*11.4	5.68	*3.81	*6.35	3.58	2.48	*6.40
1959	2.82	2.46	3.09	5.57	*8.18	6.91	5.92	*6.10	*4.96	*3.54	1.42	1.83	*4.38
1960	4.62	3.40	3.97	16.0	14.2	9.47	13.8	5.00	3.04	2.14	2.17	2.26	6.64

* Revised.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	0.62	0.66	*1.81	*2.27	*0.99	1.16	*1.10	0.57	0.65	0.38	0.24	0.16	*10.61
1955	.18	.40	.71	*2.19	*1.75	*1.07	*1.29	.80	*.83	*.79	.40	.25	*10.66
1956	.34	.45	.45	.49	*1.55	*2.54	*1.71	*1.53	.36	*1.66	.40	*.71	*12.19
1957	.50	.59	*.87	*1.48	1.10	*1.50	*2.20	.97	.71	*.70	.31	.42	*11.55
1958	.59	*1.40	*1.46	*1.34	*1.98	*2.10	*2.30	1.19	*.77	*1.33	.74	.50	*15.70
1959	.59	.50	.64	1.16	*1.54	1.44	1.19	*1.27	*1.00	*.74	.30	.37	*10.74
1960	.96	.68	.83	3.33	2.76	1.97	2.78	1.04	.61	.44	.45	.46	16.31

* Revised.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1554	694	Jan. 16, 1954	0.63	*4.34	0.783	*10.61	*3.60	*8.81
1955	1554	*510	Feb. 6, 1955	.57	*4.36	*.787	*10.66	*4.34	*10.61
1956	1554	727	Mar. 16, 1956	.85	*4.96	*.895	*12.19	*5.25	*12.91
1957	1554	*390	Apr. 5, 1957	.85	*4.65	*.836	*11.35	*5.24	*12.84
1958	1554	*189	Feb. 27, 1958	1.6	*6.40	*1.16	*15.70	*5.69	*13.98
1959	1624	*232	July 16, 1959	1.0	*4.38	*.791	*10.74	*4.68	*11.48
1960	1704	418	Apr. 3, 1960	1.2	6.64	1.20	16.31	-	-

* Revised.

* Not previously published.

2075. 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.--378 sq mi.

Records available.--September to December 1897, May 1899 to December 1901, July 1944 to September 1960. 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.--18 years (1899-1901, 1944-60), 460 cfs.

Extremes.--1899-1901, 1944-60: Maximum discharge, 16,200 cfs Nov. 29, 1948 (gage height, 20.3 ft); minimum daily, 10 cfs Oct. 7, 1954.

Flood of Apr. 7, 1936, reached a stage of 29.9 ft, from information furnished by Georgia State Highway Department.

Remarks.--Diurnal fluctuation caused by milldam above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	367	211	318	351	441	544	569	227	187	210	86.7	94.7	300
1952	102	210	880	496	553	1,922	591	336	203	98.6	148	141	475
1953	89.4	133	283	1,091	956	791	500	878	295	303	120	257	473
1954	158	161	773	808	453	456	329	196	181	84.8	46.7	20.4	304
1955	18.1	95.6	180	486	695	392	415	227	145	160	89.3	66.1	244
1956	117	136	148	158	600	973	758	587	139	493	93.7	231	369
1957	192	182	340	565	520	600	886	423	217	181	74.5	90.8	355
1958	167	591	587	448	860	911	900	390	203	345	174	94.0	470
1959	129	129	166	284	562	558	430	293	505	171	84.8	129	284
1960	221	184	263	821	1,267	751	889	519	207	167	135	149	444

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.12	0.62	0.97	1.07	1.22	1.66	1.68	0.69	0.55	0.64	0.26	0.28	10.76
1952	.31	.62	2.69	1.51	1.58	5.86	1.74	1.02	.60	.30	.45	.42	17.10
1953	.27	.39	.86	3.33	2.64	2.41	1.47	2.68	.87	.92	.37	.76	16.97
1954	.48	.48	2.35	2.47	1.20	1.40	.97	.60	.53	.26	.14	.06	10.94
1955	.06	.28	.55	1.49	1.92	1.20	1.23	.69	.43	.49	.27	.20	8.81
1956	.36	.40	.45	.48	1.72	2.96	2.24	1.79	.41	1.50	.29	.68	13.28
1957	.59	.54	1.04	1.72	1.44	1.83	2.61	1.29	.64	.55	.23	.27	12.75
1958	.51	1.74	1.79	1.37	2.37	2.78	2.66	1.19	.60	1.05	.53	.28	16.87
1959	.39	.38	.51	.87	1.55	1.71	1.27	.89	1.50	.52	.26	.38	10.23
1960	.67	.54	.80	2.50	3.61	2.29	2.62	.97	.61	.51	.41	.44	15.97

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	-	342	12.29
1951	1204	2,480	Oct. 21, 1950	24	300	0.794	10.76	325	11.67		
1952	1234	6,080	Dec. 23, 1951	51	475	1.26	17.10	417	15.00		
1953	1274	5,420	Jan. 11, 1953	61	473	1.25	16.97	523	18.76		
1954	1334	4,300	Jan. 18, 1954	11	304	.804	10.94	237	8.52		
1955	1384	4,510	Feb. 8, 1955	10	244	.646	8.81	253	9.13		
1956	1434	7,220	Mar. 17, 1956	23	369	.976	13.28	395	14.24		
1957	1504	5,340	Apr. 6, 1957	29	355	.939	12.75	407	14.62		
1958	1554	3,350	Feb. 7, 1958	71	470	1.24	16.87	393	14.11		
1959	1624	3,080	June 1, 1959	59	284	.751	10.23	305	10.96		
1960	1704	5,420	Feb. 1, 1960	63	444	1.17	15.97	-	-		

ALTAMAHA RIVER BASIN

2100. Lloyd Shoals Reservoir near Jackson, Ga.

Location (revised).--Lat 33°19', long 83°50', at dam on Ocmulgee River, 1 mile upstream from bridge on State Highway 16 and 7 miles east of Jackson, Butts County.

Drainage area.--1,400 sq mi.

Records available.--October 1929 to September 1960.

Gage.--Datum of gage is at mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia Power Co.).

Remarks.--Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 528.0 and 525.0 ft) is equipped with flashboards 308.5 ft wide by 2 ft high and 420 ft wide by 5 ft high. Dam completed in 1910. Total capacity at elevation 530.0 ft (top of flashboards) is 107,000 acre-ft, of which 78,000 acre-ft is usable storage. Figures given herein represent total contents.

Cooperation.--Records for water years 1951-60, not previously published, furnished by Georgia Power Co.

Contents, in acre-feet, on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	90,200	59,200	71,900	54,700	78,200	94,800	98,400	86,200	89,800	90,200	75,000	71,900
1952	65,200	73,000	85,000	91,800	83,800	97,000	95,200	91,000	88,200	80,300	93,400	88,600
1953	68,800	64,600	67,400	97,000	106,000	96,600	102,000	97,000	98,400	89,000	86,200	90,600
1954	73,600	71,600	79,200	90,600	80,000	77,500	85,000	83,800	81,800	69,400	52,300	37,200
1955	35,400	57,100	74,700	89,800	92,600	85,000	93,000	96,600	99,800	98,800	93,400	85,000
1956	80,600	82,600	77,200	80,600	87,800	92,200	94,400	98,400	96,600	92,200	87,800	95,200
1957	93,400	93,000	96,200	108,000	100,000	98,800	89,800	99,300	103,000	101,000	87,400	87,400
1958	88,200	106,000	91,800	91,000	108,000	104,000	91,000	97,500	104,000	103,000	98,800	87,000
1959	77,200	81,000	89,800	90,600	92,200	98,000	102,000	108,000	97,500	96,600	84,600	88,200
1960	91,000	93,000	89,800	108,000	93,400	98,000	97,500	95,700	95,200	98,000	90,200	81,800

2105. 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 1960.

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.--30 years (1906-15, 1939-60), 1,707 cfs (unadjusted).

Extremes.--1906-15, 1939-60: 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.--Flow regulated by Lloyd Shoals Reservoir since November 1910.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	787	1,166	1,003	1,567	1,299	1,606	2,055	1,024	678	799	565	500	1,087
1952	501	612	2,414	1,681	2,247	7,434	2,023	1,364	981	585	603	682	1,784
1953	699	612	996	2,752	3,243	2,927	1,828	3,245	1,269	1,378	568	1,085	1,710
1954	910	683	3,079	2,118	1,671	1,605	986	749	681	597	523	340	1,161
1955	119	98.6	370	1,483	1,894	1,541	1,467	851	503	909	693	539	866
1956	521	571	690	593	2,043	3,165	3,214	1,268	623	1,473	488	1,327	1,326
1957	743	731	1,884	1,936	1,903	2,569	3,541	2,046	1,115	940	618	649	1,554
1958	860	2,582	2,515	1,882	3,467	3,463	3,565	1,514	861	1,462	902	690	1,955
1959	698	527	606	1,077	2,212	2,296	1,873	1,512	2,328	921	685	653	1,258
1960	1,016	807	1,064	2,856	5,157	3,223	3,379	1,348	864	662	801	818	1,819

Monthly and yearly runoff, in inches (adjusted) $\frac{g}{\text{in}}$, of Ocmulgee River near Jackson, Ga.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.79	0.51	0.98	1.04	1.26	1.52	1.66	0.67	0.58	0.65	0.26	0.35	10.27
1952	.32	.58	2.12	1.44	1.60	6.21	1.56	1.05	.73	.37	.66	.47	17.11
1953	.31	.43	.85	2.63	2.50	2.25	1.51	2.57	1.02	.99	.42	.91	16.39
1954	.51	.49	2.61	1.87	1.08	1.27	.87	.59	.51	.50	.22	.07	10.39
1955	.07	.36	.53	1.41	1.43	1.15	1.26	.74	.44	.73	.49	.31	8.92
1956	.36	.48	.49	.53	1.65	2.63	2.56	1.08	.47	1.14	.34	1.14	12.87
1957	.58	.57	1.57	1.73	1.29	2.08	2.67	1.79	.92	.74	.32	.51	14.77
1958	.71	2.12	1.86	1.52	2.77	2.76	2.63	1.31	.76	1.19	.68	.39	18.70
1959	.44	.46	.61	.89	1.64	1.94	1.37	1.30	1.70	.74	.40	.56	12.05
1960	.86	.66	.82	2.56	3.72	2.68	2.64	1.07	.67	.58	.55	.53	17.34

a Adjusted for change in contents in Lloyd Shoals Reservoir.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Observed				Adjusted $\frac{g}{\text{in}}$		Observed	Adjusted $\frac{g}{\text{in}}$	Runoff in inches
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean
		Discharge	Date							
1950	-	-	-	-	-	-	-	1,188	1,203	11.51
1951	1204	3,710	(b)	450	1,087	1,077	0.758	10.27	1,136	1,154
1952	1234	27,100	Mar. 4, 1952	448	1,764	1,787	1.26	17.11	1,660	1,636
1953	1274	11,500	May 1, 1953	466	1,710	1,713	1.21	16.39	1,909	1,925
1954	1334	9,080	Dec. 13, 1953	160	1,161	1,087	.765	10.39	818	812
1955	1384	6,250	Feb. 9, 1955	69	866	932	.656	8.92	966	969
1956	1434	19,600	Mar. 18, 1956	416	1,326	1,340	.944	12.87	1,459	1,485
1957	1504	19,800	Apr. 5, 1957	534	1,554	1,543	1.09	14.77	1,754	1,748
1958	1554	17,200	Feb. 7, 1958	479	1,955	1,954	1.38	18.70	1,626	1,623
1959	1624	28,000	June 2, 1959	506	1,258	1,260	.887	12.05	1,346	1,346
1960	1704	17,500	Mar. 30, 1960	560	1,819	1,810	1.27	17.34	-	-

a Adjusted for change in contents in Lloyd Shoals Reservoir.

b Many days in February 1951.

2113. Towaliga River near Jackson, Ga.

Location.--Lat 33°16', long 84°04', on downstream side of bridge on State Highway 16, 3 miles upstream from Cabin Creek and 6.5 miles west of Jackson, Butts County.

Drainage area.--105 sq mi, approximately.

Records available.--June to September 1960.

Gage.--Water-stage recorder.

Extremes.--June to September 1960: Maximum discharge, 365 cfs June 22 (gage height, 4.85 ft); minimum, 16 cfs Sept. 14.

Remarks.--Records not previously published. Some diurnal fluctuation at low flow caused by milldam above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	55.1	38.5	33.0	28.8	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	0.59	0.42	0.36	0.30	-

2130. 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 December 1911, January 1912 to December 1913 (gage heights and discharge measurements only), October 1928 to September 1960. Monthly discharges only for some periods, published in WSP 1304. 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 Dec. 31, 1913, chain gage at present site and datum. Jan. 10, 1929, to June 25, 1934, water-stage recorder at site 500 ft downstream at present datum.

Average discharge.--50 years (1893-1911, 1928-60), 2,619 cfs.

Extremes.--1893-1913, 1928-60: Maximum discharge, 83,500 cfs Nov. 29, 1948 (gage height, 28.0 ft); minimum daily, 128 cfs Oct. 24, 1954; minimum gage height observed, -1.0 ft Oct. 5, 1904.

Maximum stage known, that of Nov. 29, 1948. Flood of Jan. 19, 1925, reached a stage of 26.0 ft, from floodmarks at Central of Georgia Railroad bridge, 500 ft downstream (discharge, 72,500 cfs).

Remarks.--Flow regulated by Lloyd Shoals Reservoir.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,033	1,354	1,557	1,923	1,786	2,328	3,176	1,440	910	1,098	732	646	1,496
1952	651	945	3,173	2,694	3,631	11,720	3,280	2,032	1,440	759	894	1,019	2,692
1953	861	796	1,292	3,864	4,827	4,463	2,865	6,236	1,490	2,141	880	1,904	2,626
1954	1,339	882	5,071	3,117	2,228	2,505	1,633	1,071	827	642	551	365	1,690
1955	165	186	618	2,230	2,781	2,251	2,837	1,395	732	1,239	904	548	1,314
1956	529	680	871	762	3,471	4,483	4,545	1,609	788	1,637	694	2,085	1,834
1957	1,066	884	3,179	3,009	2,319	4,588	4,929	3,822	1,719	1,366	834	1,112	2,452
1958	1,623	3,837	3,698	3,055	5,611	5,537	5,757	2,330	1,378	2,598	1,127	765	3,073
1959	728	594	763	1,403	3,994	3,543	2,272	1,691	3,839	1,215	820	912	1,796
1960	1,568	1,142	1,353	4,660	8,244	5,412	5,601	1,748	1,013	790	903	850	2,751

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,636	9.91
1951	1204	6,940	Apr. 23, 1951	495	1,496	0.668	9.07	1,567	9.50
1952	1234	46,800	Mar. 5, 1952	529	2,692	1.20	16.37	2,539	15.43
1953	1274	38,400	May 1, 1953	610	2,826	1.17	15.89	2,995	18.12
1954	1334	13,800	Dec. 14, 1953	236	1,690	.754	10.23	1,155	6.99
1955	1384	11,800	Apr. 14, 1955	128	1,314	.587	7.97	1,408	8.53
1956	1434	19,700	Mar. 19, 1956	444	1,834	.819	11.14	2,091	12.71
1957	1504	24,400	Dec. 25, 1956	692	2,452	1.09	14.85	2,786	16.87
1958	1554	21,600	Feb. 8, 1958	692	3,073	1.37	18.61	2,481	15.02
1959	1824	27,500	June 3, 1959	560	1,796	.802	10.85	1,962	11.87
1960	1704	21,600	Mar. 31, 1960	570	2,751	1.23	16.72	-	-

Note.--Monthly figures of runoff in inches, October 1950 to September 1955, previously published in some water-supply papers, are subject to error because of storage in Lloyd Shoals Reservoir. Those figures are not published herein.

2135. 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 1960.

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.--23 years (1937-60), 188 cfs.

Extremes.--1937-60: Maximum discharge, 9,830 cfs Mar. 21, 1944 (gage height, 23.2 ft), from rating curve extended above 6,300 cfs; minimum, 2.3 cfs Oct. 10, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	44.3	40.3	129	116	118	161	235	71.0	39.0	78.8	25.3	30.2	90.5
1952	22.6	47.0	184	139	343	968	200	134	109	33.8	70.7	79.4	194
1953	37.7	45.0	89.0	258	400	280	358	948	124	277	86.8	264	264
1954	150	105	482	237	176	248	132	80.8	45.0	30.7	19.8	6.57	141
1955	5.97	28.5	55.8	169	203	117	252	157	64.8	47.1	24.5	12.1	93.7
1956	12.6	38.3	40.8	43.6	372	383	207	96.7	78.3	73.1	63.1	219	134
1957	60.7	46.3	257	171	184	493	263	603	249	117	59.6	128	220
1958	159	399	239	265	407	480	483	153	95.1	169	51.1	33.8	243
1959	27.1	38.4	60.7	121	460	400	197	96.5	178	78.3	40.9	58.3	144
1960	186	99.3	96.4	468	683	625	505	169	87.0	55.4	51.8	60.5	256

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.28	0.25	0.82	0.73	0.67	1.02	1.44	0.45	0.24	0.50	0.16	0.19	6.75
1952	.14	.29	1.16	.88	2.03	6.13	1.23	.85	.87	.21	.45	.49	14.53
1953	.24	.28	.56	1.64	2.29	1.78	2.20	6.01	.76	1.75	.55	1.62	19.68
1954	.82	.64	3.06	1.50	1.01	1.57	.81	.51	.26	.19	.13	.04	10.54
1955	.04	.16	.35	1.07	1.17	.74	1.54	.99	.40	.30	.16	.07	6.99
1956	.08	.23	.26	.28	2.20	2.42	1.27	.61	.48	.46	.40	1.34	10.03
1957	.39	.28	1.63	1.08	1.05	3.12	1.62	3.82	1.53	.74	.38	.78	16.42
1958	1.01	2.44	1.51	1.68	2.33	3.04	2.96	.97	.57	1.07	.32	.21	18.11
1959	.17	.24	.39	.77	2.64	2.54	1.20	.61	1.09	.48	.26	.56	10.75
1960	1.18	.61	.61	2.96	4.04	3.95	3.09	1.07	.53	.30	.53	.37	19.09

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	102	7.58
1951	1204	1,580	Apr. 23, 1951	6	90.5	0.497	6.75	93.9	6.99
1952	1234	5,700	Mar. 5, 1952	15	194	1.07	14.53	187	14.02
1953	1274	7,790	May 1, 1953	31	264	1.45	19.68	310	23.12
1954	1334	1,580	Dec. 6, 1953	3.4	141	.775	10.54	88.2	6.57
1955	1384	2,090	Apr. 14, 1955	2.5	93.7	.515	6.99	93.9	7.01
1956	1434	1,930	Mar. 16, 1956	7.6	134	.736	10.03	157	11.76
1957	1504	4,040	May 4, 1957	24	220	1.21	16.42	256	19.08
1958	1554	2,520	Mar. 7, 1958	22	243	1.34	18.11	187	13.95
1959	1624	2,250	Feb. 4, 1959	23	144	.791	10.75	165	12.35
1960	1704	2,920	Mar. 31, 1960	22	256	1.41	19.09	-	-

2145. 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 1960.

Gage--Water-stage recorder. Datum of gage is 279.39 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Sept. 24, 1953, staff gage at same site and datum.

Average discharge--17 years (1943-60), 81.0 cfs (revised).

Extremes--1943-60: Maximum discharge, 3,000 cfs Mar. 23, Apr. 23, 1944 (gage height, 8.6 ft, from graph based on gage readings); minimum unregulated, 12 cfs July 25, 1957; minimum daily, 11 cfs July 17, 1957 (caused by construction above gage).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	45.4	42.6	68.5	61.1	66.1	66.1	59.7	47.5	34.8	44.1	31.0	43.2	50.8
1952	29.9	62.5	69.2	53.7	98.4	156	70.8	94.0	52.3	28.8	33.6	140.4	65.7
1953	34.6	48.1	59.5	91.9	114	91.8	101	91.3	46.0	90.5	43.4	86.3	74.6
1954	55.9	57.8	173	97.4	76.8	85.7	64.6	58.3	34.1	37.4	30.0	29.0	66.8
1955	28.4	50.2	55.3	62.6	70.3	51.5	*122	39.7	33.2	38.9	30.9	52.4	*52.7
1956	32.1	42.6	41.5	43.0	84.8	87.2	52.8	37.7	28.4	73.9	24.5	39.1	48.9
1957	46.7	35.8	85.6	52.2	52.5	80.7	71.4	*115	78.5	59.1	38.4	53.5	*62.4
1958	81.9	88.1	84.3	83.5	123	*194	112	70.6	112	*174	71.0	48.4	*104
1959	53.9	63.8	88.2	93.9	186	160	105	79.8	75.7	68.6	68.5	69.2	92.1
1960	111	84.1	84.4	103	*217	162	*204	76.8	89.2	76.3	66.4	61.2	*111

* Revised.

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.48	0.44	0.73	0.65	0.64	0.71	0.62	0.51	0.36	0.47	0.33	0.45	6.39
1952	.32	.65	.74	.57	.98	1.66	.73	1.00	.54	.31	.38	.42	8.28
1953	.37	.50	.64	.98	1.10	.98	1.04	.97	.49	.97	.46	.89	9.38
1954	.60	.60	1.84	1.04	.74	.92	.67	.62	.35	.40	.32	.30	8.40
1955	.30	.52	.59	.67	.68	.55	*1.26	.42	.34	.42	.33	.54	*6.62
1956	.34	.44	.44	.46	.85	.93	.55	.40	.29	.79	.26	.40	6.15
1957	.50	.37	.70	.56	.51	.86	.74	*1.21	.81	.63	.41	.55	*7.85
1958	.87	.91	.90	.89	1.19	*2.08	1.16	.75	1.16	*1.86	.76	.50	*13.03
1959	.58	.66	.94	1.00	1.79	1.71	1.08	.85	.78	.73	.73	.72	11.57
1960	1.19	.87	.90	1.10	*2.17	1.73	*2.11	.82	.92	.81	.71	.63	*13.96

* Revised.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	59.4	7.46		
1951	1274	193	Dec. 30, 1950	21	50.8	0.470	6.39	51.2	6.45		
1952	1274	1,110	May 30, 1952	25	65.7	.608	8.28	64.1	8.08		
1953	1274	490	Sept. 27, 1953	27	74.6	.691	9.38	86.8	10.91		
1954	1354	474	Dec. 14, 1953	24	66.8	.619	8.40	53.8	6.77		
1955	1384	*1,420	Apr. 15, 1955	21	*52.7	*.488	*6.62	*51.2	*6.43		
1956	1434	254	Feb. 7, 1956	15	48.9	.453	6.15	51.6	6.50		
1957	1504	*840	May 5, 1957	11	*62.4	*.578	*7.85	*71.3	*8.96		
1958	1554	*1,040	July 20, 1958	42	*104	*.963	*13.03	*99.6	*12.53		
1959	1624	*568	Feb. 5, 1959	37	92.1	.853	11.57	98.3	12.35		
1960	1704	*1,000	Apr. 5, 1960	44	*111	*1.03	*13.96	-	-		

* Revised.

2154. Big Horse Creek near Lumber City, Ga.

Location--Lat 31°51', long 82°50', on downstream side of highway bridge on State Highway 117, 2.5 miles upstream from mouth and 10 miles southwest of Lumber City, Telfair County.

Drainage area--155 sq mi, approximately.

Records available--September 1958 to September 1960.

Gage--Water-stage recorder.

Extremes--1958-60: Maximum discharge, 3,000 cfs Mar. 7, 1959 (gage height, 13.9 ft); minimum, 1.8 cfs Oct. 29, 1958.

Remarks--Records for water year 1960 not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	3.47	3.69	6.75	16.7	466	859	250	198	188	25.1	30.4	6.66	169
1960	24.4	59.7	167	143	612	318	657	44.7	11.2	35.1	34.0	27.7	175

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	0.03	0.03	0.05	0.12	3.13	6.39	1.80	1.48	1.35	0.19	0.23	0.05	14.85
1960	.18	.43	1.24	1.06	4.26	2.36	4.73	.53	.08	.26	.25	.20	15.38

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	1624	3,000	Mar. 7, 1959	2.3	169	1.09	14.85	169	16.59
1960	-	2,900	Apr. 5, 1960	2.6	175	1.13	15.38	-	-

2155. 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 1960. Gage-height records collected at same site since 1908 are contained in reports of the 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.--24 years (1936-60), 5,341 cfs.

Extremes.--1936-60: Maximum discharge, 70,000 cfs Dec. 8, 1948; maximum gage height, 22.7 ft Dec. 9, 1948; minimum discharge, 808 cfs Oct. 30 to Nov. 3, 1954.

Maximum discharge known since at least 1841, 98,400 cfs Jan. 21, 1925, from rating curve extended above 67,000 cfs on basis of records of peak flow for stations on Oconee, Ocmulgee, and Altamaha Rivers; maximum stage known, 26.3 ft Jan. 21, 1925 (backwater from Oconee River).

Remarks.--Flow regulated by Lloyd Shoals Reservoir.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,385	2,503	2,929	4,263	3,916	4,574	6,556	3,457	1,862	2,490	2,927	1,693	3,276
1952	1,679	2,289	4,169	6,099	7,627	16,740	11,230	4,390	3,812	1,781	1,712	2,243	5,306
1953	1,907	1,780	2,222	5,768	8,524	12,150	9,462	12,930	3,049	4,294	3,091	3,595	5,722
1954	6,440	2,463	9,377	8,864	5,290	4,863	4,492	2,571	1,844	1,684	1,466	1,178	4,219
1955	887	910	1,423	2,924	4,761	3,219	5,931	2,561	1,991	2,050	2,407	4,082	2,741
1956	1,913	1,529	1,997	1,930	7,183	8,198	8,301	4,202	2,178	3,399	1,941	1,847	3,702
1957	4,295	2,190	2,525	5,922	5,204	6,325	10,690	9,359	5,358	3,595	2,838	2,468	5,060
1958	4,065	3,690	10,040	5,984	9,087	15,610	13,170	6,841	3,482	4,599	2,821	1,728	6,754
1959	1,647	1,453	1,754	2,598	10,530	13,570	8,402	3,755	6,630	2,607	2,021	2,008	4,700
1960	2,598	3,555	3,656	5,752	17,820	11,960	18,670	4,755	2,842	2,550	2,393	1,803	6,465

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.53	0.50	0.65	0.95	0.79	1.02	1.42	0.77	0.40	0.55	0.65	0.36	8.59
1952	.37	.49	.93	1.36	1.58	3.72	2.42	.98	.82	.40	.38	.48	13.93
1953	.42	.38	.49	1.28	1.72	2.71	2.04	2.88	.66	.96	.69	.77	15.00
1954	1.43	.53	2.09	1.97	1.06	1.08	.97	.57	.40	.37	.53	.25	11.05
1955	.20	.20	.32	.65	.96	.72	1.27	.57	.43	.46	.54	.88	7.20
1956	.43	.33	.44	.43	1.50	1.82	1.78	.94	.47	.76	.43	.40	9.73
1957	.96	1.47	.56	1.31	1.04	1.41	2.30	2.09	1.15	.80	.63	.53	13.25
1958	.90	.79	2.24	1.34	1.82	3.47	2.85	1.52	.75	1.02	.63	.37	17.68
1959	.37	.31	.39	.58	2.11	3.02	1.81	.84	1.43	.58	.45	.43	12.32
1960	.58	.77	.81	1.28	3.71	2.66	4.02	1.06	.61	.57	.53	.39	16.99

† Corrected.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950								3,293	8.62
1951	1204	11,000	Apr. 1, 1951	1,400	3,276	0.632	8.59	3,320	8.70
1952	1234	34,000	Mar. 15, 1952	1,400	5,306	1.02	13.93	5,118	13.43
1953	1274	35,300	May 13, 1953	1,630	5,722	1.10	15.00	6,771	17.76
1954	1334	16,600	Dec. 26, 1953	1,040	4,219	.814	11.05	2,944	7.72
1955	1384	11,400	Sept. 17, 1955	808	2,741	.529	7.20	2,927	7.68
1956	1434	14,700	Mar. 31, 1956	1,170	3,702	.715	9.73	4,003	10.52
1957	1504	15,200	Apr. 19, 1957	1,800	5,060	.977	13.25	5,802	15.19
1958	1554	24,600	Mar. 16, 17, 1958	1,610	6,754	1.30	17.68	5,660	14.82
1959	1594	17,200	Mar. 17, 18, 1959	1,430	4,700	.907	12.32	5,117	13.41
1960	1704	39,000	Apr. 9, 10, 1960	1,490	6,465	1.25	16.99	-	-

2170. Allen Creek at Talmo, Ga.

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

Drainage area.--17.3 sq mi.

Records available.--July 1951 to September 1960.

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

Average discharge.--9 years (1951-60), 19.9 cfs.

Extremes.--1951-60: Maximum discharge, 2,330 cfs (revised) Mar. 10, 1952 (gage height, 11.5 ft, from floodmark), from rating curve extended above 1,300 cfs on basis of contracted-opening studies at gage heights 11.2 and 12.6 ft; minimum, 1.8 cfs Oct. 6, 7, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	4.25	6.35	-
1952	6.55	9.62	49.6	25.9	30.5	102	41.5	23.9	18.7	12.2	12.8	10.7	28.7
1953	8.98	12.8	19.4	46.1	34.5	36.6	31.8	35.7	19.9	24.7	8.54	17.6	24.7
1954	13.1	16.6	41.2	54.9	26.9	31.5	26.2	18.5	12.6	8.54	6.46	3.34	21.7
1955	5.37	8.10	16.4	23.1	35.8	19.1	20.3	12.6	10.6	8.41	5.95	3.10	13.8
1956	5.20	7.47	7.24	7.53	22.2	28.7	27.5	15.5	7.42	17.6	4.98	9.21	13.3
1957	8.57	10.8	15.9	18.3	22.0	21.5	33.6	16.2	12.3	6.65	5.86	6.49	14.6
1958	10.5	21.8	22.8	19.5	26.9	37.4	42.6	26.0	15.7	30.5	11.5	8.28	22.6
1959	11.3	10.2	11.9	16.5	27.0	27.6	27.3	20.9	17.9	15.6	7.10	8.52	16.7
1960	13.3	10.7	14.2	35.9	47.6	40.7	36.4	21.7	12.9	11.9	9.76	16.8	22.6

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	0.28	0.41	-
1952	0.44	0.62	3.31	1.73	1.90	6.80	2.68	1.59	1.20	.81	.85	.69	22.62
1953	.60	.85	1.29	3.07	2.07	2.44	2.05	2.38	1.28	1.65	.57	1.14	19.37
1954	.87	1.07	2.74	3.66	1.61	2.10	1.68	1.23	.81	.57	.43	.22	16.99
1955	.22	.52	1.09	1.54	2.16	1.27	1.30	.84	.68	.56	.40	.20	10.78
1956	.35	.48	.48	.50	1.38	1.91	1.77	1.03	.48	1.18	.33	.59	10.48
1957	.57	.70	1.06	1.22	1.32	1.43	2.16	1.08	.79	.44	.26	.42	11.45
1958	.70	1.41	1.52	1.30	1.61	2.49	2.74	1.73	.88	2.03	.75	.53	17.69
1959	.75	.66	.73	1.10	1.62	1.84	1.76	1.40	1.15	1.04	.47	.55	13.07
1960	.89	.69	.95	2.40	2.97	2.71	2.34	1.44	.83	.79	.65	1.08	17.74

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234	*2,330	Mar. 10, 1952	4.5	28.7	1.66	22.62	26.6	20.97
1953	1274	744	July 4, 1953	5.6	24.7	1.43	19.37	27.2	21.33
1954	1334	*1,140	Jan. 16, 1954	2.0	21.7	1.25	16.99	18.1	14.14
1955	1384	*1,070	Feb. 6, 1955	2.2	13.8	.798	10.78	13.1	10.26
1956	1434	880	Mar. 16, 1956	2.5	13.3	.769	10.48	14.6	11.50
1957	1504	472	Apr. 5, 1957	2.1	14.6	.844	11.45	16.3	12.75
1958	1554	780	July 6, 1958	5.4	22.6	1.31	17.69	20.7	16.20
1959	1624	552	July 11, 1959	5.1	16.7	.965	13.07	17.2	13.46
1960	1704	536	Feb. 5, 1960	5.4	22.6	1.31	17.74	-	-

* Revised.

2175. 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, January 1929 to March 1932, April 1937 to September 1960 in reports of Geological Survey. Monthly discharge only for some periods, published in WSP 1304.

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, wire-weight 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.--26 years (1901-2, 1929-31, 1937-60), 464 cfs.

Extremes.--1901-2, 1929-32, 1937-60: Maximum discharge observed, 19,600 cfs Feb. 28, 1902 (gage height, 25.5 ft, site and datum then in use); minimum daily, 26 cfs Sept. 7, 1957.

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

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	473	235	347	323	363	594	481	247	261	242	110	152	319
1952	130	226	968	506	622	2,014	738	423	273	153	337	189	550
1953	154	203	322	1,094	938	687	407	736	360	282	140	249	462
1954	180	207	762	1,010	422	508	436	281	231	123	96.2	46.7	360
1955	42.3	138	243	481	772	369	327	199	145	145	109	52.9	249
1956	64.3	113	123	140	474	821	616	297	133	391	83.9	187	286
1957	187	229	304	395	431	514	780	369	204	109	59.0	81.7	304
1958	215	541	513	421	579	801	847	460	247	294	188	114	434
1959	143	170	212	310	533	500	456	606	532	282	117	224	339
1960	255	245	311	747	1,178	646	682	387	280	238	195	328	455

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.37	0.66	1.01	0.94	0.95	1.72	1.35	0.72	0.73	0.70	0.32	0.43	10.90
1952	.58	.63	2.80	1.46	1.68	5.83	2.06	1.22	.77	.44	.98	.53	18.78
1953	.45	.57	.93	3.17	2.46	1.99	1.14	2.13	1.01	.82	.41	.70	15.78
1954	.52	.58	2.20	2.93	1.10	1.48	1.23	.81	.65	.36	.28	.13	12.27
1955	.12	.39	.70	1.40	2.02	1.07	.92	.58	.41	.42	.32	.15	8.50
1956	.19	.32	.56	.41	1.28	2.38	1.73	.86	.37	1.13	.24	.52	9.79
1957	.54	.64	.88	1.14	1.12	1.49	2.19	1.07	.57	.32	.17	.23	10.36
1958	.62	1.52	1.49	1.22	1.51	2.32	2.38	1.34	.69	.85	.54	.32	14.80
1959	.41	.48	.61	.90	1.40	1.45	1.28	1.75	1.50	.82	.34	.63	11.57
1960	.74	.69	.90	2.17	3.19	1.87	1.91	1.12	.79	.69	.56	.92	15.55

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	363	12.37
1951	1204	3,410	Oct. 22, 1950	44	319	0.802	10.90	342	11.67
1952	1234	89,110	Dec. 23, 1951	53	550	1.38	18.78	495	16.92
1953	1274	5,520	Jan. 11, 1953	67	462	1.16	15.78	502	17.15
1954	1334	7,870	Jan. 18, 1954	33	360	.905	12.27	298	10.18
1955	1384	5,600	Feb. 8, 1955	28	249	.626	8.50	238	8.16
1956	1434	6,840	Mar. 18, 1956	31	286	.719	9.79	321	10.98
1957	1504	4,280	Apr. 7, 1957	26	304	.764	10.36	350	11.93
1958	1554	2,560	Apr. 17, 1958	92	434	1.09	14.80	372	12.67
1959	1624	6,120	May 31, 1959	83	339	.852	11.57	363	12.40
1960	1704	3,800	(b)	72	455	1.14	15.55	-	-

a Maximum recorded; may have been slightly higher on or about Mar. 13, 1952.

b Jan. 31 or Feb. 1, 1960.

2185. 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, Greene 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 1932 and October 1936 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--53 years (1903-32, 1936-60), 1,411 cfs.

Extremes.--1903-32, 1936-60: Maximum discharge, 66,800 cfs Aug. 26, 1908 (gage height, 35.4 ft), from rating curve extended above 20,000 cfs on basis of velocity-area studies and computation of flow over Barnett Shoals Dam at gage heights 28.1 and 30.0 ft (corrected); minimum daily discharge, 59 cfs Oct. 8, 1954. Maximum stage known, that of Aug. 26, 1908.

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

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,190	618	977	916	1,024	1,551	1,439	688	758	768	318	383	886
1952	330	567	2,053	1,250	1,557	5,788	1,753	1,092	719	404	828	429	1,402
1953	342	484	672	2,367	2,286	1,916	1,139	2,053	804	709	374	572	1,137
1954	446	483	1,959	2,196	1,089	1,180	1,046	698	521	389	226	108	863
1955	870	332	616	1,208	1,825	955	895	617	380	412	269	138	637
1956	157	300	332	349	1,208	1,986	2,003	708	328	741	193	554	735
1957	447	503	806	1,029	1,068	1,457	1,806	1,140	543	343	215	346	807
1958	1,115	1,784	1,532	1,315	1,950	2,395	2,505	1,255	673	881	553	310	1,551
1959	359	579	488	757	1,567	1,425	1,216	1,283	2,026	845	331	707	942
1960	740	686	828	2,097	3,881	2,100	2,097	1,163	694	652	618	646	1,340

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.26	0.63	1.03	0.97	0.98	1.64	1.47	0.73	0.78	0.81	0.34	0.39	11.03
1952	.35	.58	2.17	1.33	1.54	6.12	1.80	1.15	.74	.43	.88	.44	17.53
1953	.36	.48	.71	2.50	2.20	2.03	1.16	2.17	.82	.75	.40	.59	14.17
1954	†.47	.49	2.08	2.32	1.04	1.24	1.07	.74	.53	.41	.24	.11	10.74
1955	.09	.34	.65	1.28	1.74	1.01	.92	.65	.39	.44	.28	.14	7.93
1956	.17	.31	.35	.37	1.20	2.10	2.05	.75	.34	.78	.20	.57	9.19
1957	.47	.51	.85	1.09	1.02	1.54	1.85	1.21	.56	.36	.23	.35	10.04
1958	1.18	1.83	1.63	1.40	1.86	2.54	2.57	1.33	.69	.93	.58	.32	16.86
1959	.38	.39	.52	.80	1.50	1.51	1.25	1.36	2.08	.89	.35	.72	11.75
1960	.78	.70	.88	2.21	3.84	2.22	2.14	1.23	.71	.69	.65	.66	16.71

† Corrected.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	931	11.56
1951	1204	5,440	Oct. 22, 1950	124	686	0.813	11.03	900	11.21
1952	1234	13,000	Mar. 25, 1952	230	1,402	1.29	17.53	1,278	15.98
1953	1274	8,210	Jan. 13, 1953	166	1,137	1.04	14.17	1,257	15.66
1954	1334	8,910	Jan. 20, 1954	65	863	.792	10.74	706	8.78
1955	1384	7,480	Feb. 10, 1955	59	637	.584	7.93	616	7.68
1956	1434	9,290	Mar. 19, 1956	68	735	.674	9.19	816	10.19
1957	1504	7,580	Apr. 8, 1957	103	807	.740	10.04	1,030	12.85
1958	1554	6,330	Feb. 7, 1958	225	1,351	1.24	16.86	1,083	13.51
1959	1624	13,300	June 2, 1959	238	942	.864	11.75	1,029	12.82
1960	1704	8,910	Feb. 2, 1960	252	1,340	1.23	16.71	-	-

2195. 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.--January 1901 to December 1908, April 1937 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--30 years (1901-8, 1937-60), 556 cfs.

Extremes.--1901-8, 1937-60: Maximum discharge observed, 28,900 cfs Aug. 25, 1908 (gage height, 27.5 ft, datum then in use); minimum daily, 16 cfs Oct. 13, 1954.

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

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	494	228	378	384	451	615	653	250	283	242	133	123	352
1952	104	197	671	464	648	2,621	666	422	261	137	235	143	549
1953	112	162	243	999	925	799	432	802	393	394	132	300	472
1954	197	192	996	695	431	449	347	284	180	167	79.2	39.3	339
1955	25.5	121	207	513	643	401	370	366	132	186	164	105	287
1956	77.4	135	154	173	607	910	1,021	294	205	394	106	550	383
1957	247	220	520	574	531	777	826	706	285	173	98.8	159	424
1958	464	961	692	620	1,066	1,104	1,211	535	277	330	214	105	628
1959	120	150	190	290	704	638	460	644	901	277	125	164	386
1960	204	217	281	922	1,727	965	886	383	234	260	205	154	532

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.30	0.58	1.00	1.02	1.07	1.63	1.67	0.66	0.72	0.64	0.35	0.31	10.95
1952	.28	.50	1.78	1.22	1.61	6.93	1.71	1.11	.67	.36	.62	.37	17.16
1953	.30	.42	.64	2.64	2.21	2.11	1.11	2.12	1.01	1.04	.35	.77	14.72
1954	.52	.49	2.63	1.83	1.03	1.19	.89	.75	.46	.44	.21	.10	10.54
1955	.07	.31	.55	1.36	1.53	1.06	.95	.97	.34	.49	.43	.27	8.33
1956	.21	.35	.41	.46	1.50	2.41	2.61	.78	.52	1.04	.28	1.41	11.98
1957	.65	.58	1.37	1.52	1.27	2.05	2.11	1.87	.69	.46	.26	.41	13.21
1958	1.22	2.46	1.85	1.64	2.54	2.92	3.10	1.42	.71	.87	.57	.27	19.55
1959	.32	.38	.50	.77	1.68	1.68	1.18	1.71	2.31	.73	.33	.42	12.01
1960	.54	.56	.74	2.43	4.27	2.55	2.26	1.01	.60	.69	.54	.39	16.58

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	373	11.61
1951	1204	4,480	Oct. 21, 1950	36	352	0.807	10.95	342	10.63
1952	1234	11,300	Mar. 5, 1952	66	549	1.28	17.16	511	15.96
1953	1274	4,330	Jan. 11, 1953	79	472	1.08	14.72	546	17.00
1954	1334	3,630	Dec. 14, 1953	25	339	.778	10.54	251	7.83
1955	1384	3,590	Feb. 8, 1955	16	267	.612	8.33	268	8.37
1956	1434	7,780	Sept. 26, 1956	34	383	.878	11.98	436	13.59
1957	1504	5,760	Apr. 7, 1957	38	424	.972	13.21	518	16.14
1958	1554	4,720	Feb. 8, 1958	85	628	1.44	19.55	489	15.24
1959	1624	6,650	June 2, 1959	75	366	.885	12.01	406	12.65
1960	1704	6,150	Feb. 1, 1960	61	532	1.22	16.58	-	-

2205. Oconee River near Sparta, Ga.

Location.--Lat 33°19'40", long 83°08'40", at downstream side of left bank pier of bridge on State Highway 16, 4 miles downstream from Richland Creek, 1½ miles upstream from Shoulderbone Creek, 11 miles west of Sparta, Hancock County, and at mile 170.9.

Drainage area.--1,830 sq mi, approximately.

Records available.--October 1949 to April 1953.

Gage.--Water-stage recorder. Datum of gage is 316.3 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department). Prior to Feb. 21, 1951, wire-weight gage at same site and datum.

Extremes.--1949-53: Maximum discharge, 26,300 cfs Mar. 4, 1952 (gage height, 26.0 ft); minimum daily, 140 cfs Sept. 12, 1951.

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

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,795	884	1,637	1,438	1,750	2,244	2,519	1,066	1,186	1,131	471	522	1,384
1952	477	908	3,077	2,004	2,750	10,460	2,889	1,777	1,169	642	1,137	674	2,337
1953	470	635	1,013	3,841	3,916	3,682	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.13	0.54	1.03	0.91	0.98	1.42	1.54	0.67	0.72	0.71	0.30	0.32	10.27
1952	.30	.55	1.94	1.27	1.61	6.60	1.76	1.12	.71	.40	.72	.41	17.39
1953	.30	.39	.64	2.42	2.23	2.32	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,482	11.00
1951	1204	8,880	Oct. 22, 1950	140	1,384	0.756	10.27	1,396	10.36
1952	1234	26,300	Mar. 4, 1952	340	2,337	1.28	17.39	2,139	15.93

2205.5. Whitten Creek near Sparta, Ga.

Location.--Lat 33°23', long 83°01', near right bank on downstream side of bridge on State Highway 15, 5 miles upstream from mouth and 8½ miles northwest of Sparta, Hancock County.

Drainage area.--15 sq mi, approximately.

Records available.--June to September 1960.

Gage.--Water-stage recorder.

Extremes.--June to September 1960: Maximum discharge, 253 cfs Sept. 28 (gage height, 7.33 ft); minimum, 1.8 cfs Sept. 15.

Remarks.--Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	-	6.38	4.22	5.45	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	-	0.49	0.32	0.40	-

2210. Murder Creek near Monticello, Ga.

Location.--Lat 33°25', long 83°40', on left bank 350 ft upstream from bridge on State Highway 229, three-quarters of a mile upstream from Pittman Creek, 1 $\frac{1}{4}$ miles downstream from confluence of Robinson and Sheppard Creeks, and 8 miles north of Monticello, Jasper County.

Drainage area.--24 sq mi, approximately.

Records available.--October 1951 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 498.21 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--9 years (1951-60), 23.8 cfs.

Extremes.--1951-60: Maximum discharge, 2,510 cfs June 2, 1959 (gage height, 7.64 ft); minimum, 0.68 cfs Sept. 10, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	4.58	10.1	23.9	22.5	31.1	147	33.8	15.5	17.4	26.2	9.38	9.41	29.5
1953	6.45	7.78	13.6	58.6	51.7	52.6	34.8	64.9	15.1	17.6	8.40	42.2	29.4
1954	16.2	11.9	56.7	28.6	21.9	28.0	18.3	10.3	6.41	3.93	2.18	1.20	17.2
1955	1.19	4.39	7.54	23.4	17.9	15.9	24.6	9.21	4.86	9.71	8.80	9.95	11.4
1956	12.0	13.0	10.6	10.7	41.2	43.5	59.2	18.9	9.38	16.5	5.87	32.7	22.6
1957	10.1	10.1	51.8	35.6	26.7	51.7	35.0	38.0	16.4	13.9	10.5	32.3	27.7
1958	32.7	46.8	42.2	38.1	68.9	61.2	60.0	28.2	19.0	13.9	8.11	4.88	35.1
1959	4.34	6.58	7.56	11.1	35.2	30.8	18.2	12.7	42.9	8.48	5.77	5.82	15.5
1960	9.67	8.34	9.36	53.4	71.8	65.0	45.6	16.0	9.04	7.20	7.41	7.01	25.7

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.22	0.47	1.15	1.08	1.40	7.06	1.57	0.74	0.81	1.26	0.45	0.44	16.65
1953	.31	.36	.65	1.86	2.24	2.52	1.62	3.11	.70	.85	.40	1.96	16.58
1954	.78	.55	2.72	1.37	.95	1.35	.85	.49	.30	.19	.10	.06	9.71
1955	.06	.20	.36	1.12	.78	.76	1.14	.44	.23	.47	.42	.46	6.44
1956	.58	.60	.51	.51	1.86	2.09	2.76	.91	.44	.79	.28	1.52	12.85
1957	.49	.47	2.49	1.71	1.16	2.48	1.63	1.82	.76	.67	.50	1.51	15.89
1958	1.57	2.18	2.03	1.83	2.99	2.94	2.79	1.35	.88	.67	.39	.23	19.85
1959	.21	.31	.36	.53	1.44	1.48	.85	.61	2.00	.41	.28	.27	8.75
1960	.46	.39	.45	2.56	3.22	3.12	2.12	.77	.42	.35	.36	.33	14.55

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1384	1,860	Mar. 4, 1953	2.6	29.5	1.23	16.65	28.5	16.13
1953	1384	1,190	May 4, 1953	5.5	29.4	1.22	16.58	34.1	19.31
1954	1384	364	Dec. 6, 1953	.81	17.2	.717	9.71	11.1	6.28
1955	1384	415	Sept. 26, 1955	.81	11.4	.475	6.44	13.3	7.51
1956	1434	982	Sept. 26, 1956	3.2	22.6	.942	12.85	25.7	14.61
1957	1504	1,350	Dec. 23, 1956	4.6	27.7	1.15	15.69	31.9	18.02
1958	1554	846	Feb. 6, 1956	3.5	35.1	1.46	19.85	26.4	14.95
1959	1624	2,510	June 2, 1959	3.2	15.5	.646	8.75	16.2	9.17
1960	1704	972	Mar. 30, 1960	3.2	25.7	1.07	14.55	-	-

2225. Sinclair Reservoir near Milledgeville, Ga.

Location.--Lat 33°10', long 83°14', on Oconee River, 1½ miles upstream from Georgia Railroad bridge and 4 miles north of Milledgeville, Baldwin County.

Drainage area.--2,900 sq mi.

Records available.--October 1952 to September 1960.

Gage.--Datum of gage is at mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia Power Co.).

Remarks.--Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 319.0 ft) is equipped with 24 gates 30 ft wide by 21 ft high. Storage began in 1952; water in reservoir first reached minimum pool elevation in 1953. Total capacity at elevation 340.0 ft (top of gages) is 334,000 acre-ft, of which 214,600 acre-ft is usable storage. Figures given herein represent usable contents. Reservoir is used for power development.

Cooperation.--Records not previously published, furnished by Georgia Power Co.

Contents, in acre-feet on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-
1953	0	15,000	53,000	120,000	115,000	100,000	253,000	318,000	325,000	318,000	300,000	316,000
1954	264,300	278,800	249,800	254,600	274,700	298,400	314,500	313,000	301,200	308,500	287,200	248,600
1955	229,400	231,800	247,400	274,700	276,000	297,000	319,000	308,500	319,000	310,000	288,600	272,100
1956	249,800	240,200	229,400	240,200	304,000	322,000	325,000	320,500	322,000	317,500	294,200	328,000
1957	287,200	280,200	307,000	292,800	284,400	311,500	316,000	326,500	319,000	319,000	295,600	301,200
1958	218,600	331,000	280,200	305,500	332,500	308,500	320,500	326,500	322,000	319,000	304,000	273,400
1959	254,600	252,200	243,800	294,200	291,400	310,000	319,000	331,000	316,000	313,000	310,000	292,800
1960	273,400	261,800	233,000	331,000	316,000	334,000	319,000	320,500	313,000	326,500	299,800	283,000

2230. 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 of Georgia Power Co., and at mile 144.9.

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

Records available.--August 1903 to September 1960. Published as "at Fraleys Ferry, near Milledgeville" 1906-31. Monthly discharge only for some periods published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 230.84 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to May 23, 1906, Jan. 1 to Oct. 5, 1909, and Jan. 1, 1932, to Sept. 30, 1939, chain or wire-weight gages at site 900 ft downstream at present datum. May 23, 1906, to Dec. 31, 1908, and Oct. 6, 1909, to Dec. 31, 1931, staff gages at Fraleys Ferry, 7 miles upstream at different datum.

Average discharge.--57 years (1903-60), 3,316 cfs (adjusted for storage).

Extremes.--1903-60: Maximum discharge, 95,000 cfs Aug. 16, 1928 (gage height, 38.7 ft, present site and datum, from floodmark), from rating curve extended above 77,000 cfs; minimum daily, 90 cfs for several days in August and September 1925, and on Apr. 3, 1955. Maximum stage known, 46.7 ft in 1886, at site 900 ft downstream at present datum, from information by Georgia State Highway Department.

Remarks.--Flow regulated by Sinclair Dam beginning November 1952.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,208	1,251	2,315	2,220	2,618	3,281	3,891	1,467	1,549	1,426	696	711	1,965
1952	583	1,234	4,079	2,767	4,202	16,780	3,846	2,350	1,504	798	1,322	921	3,377
1953	651	745	998	4,074	6,114	5,513	1,717	6,126	1,652	2,187	912	1,405	2,660
1954	1,639	672	6,202	4,006	1,907	2,499	1,759	1,440	1,052	420	657	654	1,918
1955	344	441	881	2,443	3,949	1,988	2,306	2,242	507	1,099	1,017	599	1,470
1956	736	953	967	642	4,139	5,381	5,539	1,545	729	1,515	802	1,475	2,022
1957	1,579	1,121	2,776	3,741	3,027	4,690	4,119	4,021	2,049	1,000	952	1,328	2,534
1958	4,443	3,550	5,134	3,828	6,450	7,098	7,001	2,515	1,551	2,312	1,148	920	3,814
1959	806	696	1,152	904	5,297	3,644	2,272	2,217	4,594	1,159	552	1,595	2,047
1960	2,441	1,377	1,841	5,811	11,710	6,369	5,928	1,905	1,506	1,200	1,556	1,153	3,500

Monthly and yearly runoff in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.86	0.47	0.90	0.87	0.92	1.28	1.47	0.57	0.59	0.56	0.27	0.27	9.03
1952	.23	.47	1.59	1.08	1.53	6.56	1.45	.92	.57	.31	.52	.35	15.58
1953	.25	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Monthly figures of runoff in inches, November 1952 to September 1955, previously published in some water-supply papers, are subject to error because of storage in Sinclair Reservoir. Those figures are not published herein.

Yearly discharge, in cubic feet per second, of Oconee River at Milledgeville, Ga.

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted a/			Observed	Adjusted a/	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	-	-	-
1951	1204	11,200	Apr. 23, 1951	231	1,965	-	0.666	9.03	2,142	-	9.84
1952	1234	56,900	Mar. 5, 1952	423	3,377	-	1.14	15.56	1,975	-	9.09
1953	1274	28,500	May 3, 1953	95	2,660	3,096	1.05	14.23	3,082	3,155	14.55
1954	1334	9,420	Dec. 14, 1953	92	1,918	1,827	.619	8.40	3,180	3,452	15.88
1955	1384	8,780	Apr. 14, 1955	90	1,470	1,502	.509	6.91	1,338	1,335	6.12
1956	1434	26,500	Mar. 17, 1956	146	2,022	2,099	.712	9.68	1,553	1,528	7.04
1957	1504	21,900	May 30, 1957	210	2,534	2,497	.846	11.50	2,261	2,368	10.92
1958	1554	32,100	Feb. 7, 1958	252	3,814	3,776	1.28	17.35	3,177	3,140	14.44
1959	1624	29,100	June 3, 1959	302	2,047	2,074	1.703	9.53	2,932	2,882	13.25
1960	1704	40,000	Jan. 31, 1960	298	3,500	3,466	1.18	16.08	2,301	2,266	10.51

† Corrected.

a Adjusted for change in contents in Sinclair Reservoir since November 1952.

2233. Big Sandy Creek near Jeffersonville, Ga.

Location.--Lat 32°48', long 83°25', on downstream side of highway bridge on county road 2.9 miles upstream from Myricks Mill and 9 miles northwest of Jeffersonville, Twiggs County.

Drainage area.--31 sq mi, approximately.

Records available.--October 1958 to September 1960.

Gage.--Water-stage recorder.

Extremes.--1958-60: Maximum discharge, 532 cfs Feb. 14, 1960 (gage height, 4.78 ft); minimum, 4.7 cfs July 1, 1959.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	9.39	9.11	18.8	23.2	49.2	45.7	34.1	10.6	12.8	20.4	10.2	22.7	22.0
1960	41.5	26.7	24.1	37.4	125	73.5	77.2	20.9	16.7	10.9	9.13	12.1	39.2

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	0.35	0.33	0.70	0.86	1.66	1.70	1.23	0.39	0.46	0.76	0.38	0.82	9.64
1960	1.54	.96	.90	1.40	4.35	2.73	2.78	.78	.60	.41	.34	.44	17.23

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date							
1959	1624	158	Feb. 4, 1959	5.3	22.0	0.710	9.64	26.6	-	11.66
1960	1704	532	Feb. 14, 1960	7.3	39.2	1.26	17.23	-	-	-

2235. 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 September 1897 (gage heights only), October 1897 to September 1960. Monthly discharges only for some periods, published in WSP 1304. 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. Prior 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 (Oct. 1, 1933, to July 17, 1934, corrected to present datum). July 18, 1934, to Apr. 14, 1936, water-stage recorder, Apr. 15, 1936, to Oct. 12, 1938, wire-weight gage, and Oct. 13, 1938, to Jan. 20, 1953, water-stage recorder, at site 80 ft upstream at present datum.

Average discharge.--63 years (1897-1960), 5,061 cfs (unadjusted).

Extremes.--1897-1960: 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 at least 1893, that of Apr. 12, 13, 1936.

Remarks.--Flow regulated by Sinclair Reservoir.

Correction.--In WSP 1304, the momentary maximum discharge for the water year 1916 is listed in error; it should be 24,600 cfs July 27, 28, 1916.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,549	1,743	3,071	3,686	3,807	4,517	5,234	1,891	1,773	1,835	1,292	1,002	2,694
1952	843	1,896	5,180	3,740	6,888	23,160	7,037	3,457	2,047	1,111	1,635	1,300	4,867
1953	966	1,086	1,650	5,572	7,802	10,540	3,758	11,760	2,097	2,675	1,428	1,750	4,251
1954	2,449	1,044	8,463	6,365	3,010	3,647	3,104	1,942	1,238	741	731	717	2,800
1955	469	689	1,062	3,163	5,024	2,649	4,364	2,953	851	1,460	1,359	1,264	2,088
1956	1,020	1,241	1,507	1,199	6,098	8,404	7,920	2,395	1,042	1,633	961	1,459	2,889
1957	2,336	1,321	3,224	4,554	4,300	6,852	4,655	5,696	3,398	1,745	1,130	1,345	3,360
1958	4,716	4,194	7,919	5,352	8,974	11,830	11,400	3,951	2,460	5,391	1,387	1,118	5,537
1959	1,115	1,117	1,813	1,870	6,587	7,080	4,480	2,351	6,086	1,613	876	2,526	3,264
1960	3,930	2,917	3,051	7,105	20,620	10,650	13,440	3,359	2,044	2,144	1,908	1,356	5,975

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.67	0.44	0.80	0.97	0.90	1.19	1.33	0.50	0.45	0.48	0.34	0.25	8.32
1952	.22	.48	1.36	.98	1.69	6.06	1.78	.91	.52	.29	.43	.33	15.05
1953	.25	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Monthly figures of runoff in inches November 1952 to September 1955 previously published in some water-supply papers, may be subject to error because of storage in Sinclair Reservoir. Those figures are not published herein.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted ^a			Observed	Adjusted ^a	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	2,812	-	8.67
1951	1204	8,840	Apr. 27, 1951	350	2,694	-	0.612	8.32	2,741	-	8.47
1952	1234	47,800	Mar. 9, 1952	600	4,867	-	1.11	15.05	4,512	\$4,585	\$14.16
1953	1274	33,900	May 8, 1953	368	4,251	\$4,687	\$1.07	\$14.52	4,952	\$5,224	\$16.15
1954	1334	12,100	Dec. 18, 1953	378	2,800	\$2,707	\$6.15	\$8.35	1,974	\$1,971	\$6.08
1955	1384	11,800	Apr. 18, 1955	351	2,088	\$2,120	\$4.82	\$6.54	2,218	2,193	6.76
1956	1434	19,000	Mar. 22, 1956	625	2,889	2,966	.674	9.17	3,152	3,259	10.10
1957	1504	13,000	Mar. 31, 1957	608	3,380	3,343	.760	10.32	4,217	4,180	12.88
1958	1554	19,200	Feb. 13, 1958	840	5,537	5,489	1.25	16.97	4,459	4,409	13.60
1959	1624	22,600	June 7, 8, 1959	728	3,264	3,291	.748	10.15	3,756	3,741	11.55
1960	1704	32,000	Apr. 5, 1960	795	5,975	5,961	1.35	18.46	-	-	-

* Not previously published.

^a Adjusted for change in contents in Sinclair Reservoir since November 1952.

Note.--Yearly figures of discharge per square mile and runoff in inches November 1952 to September 1955, previously published in some water-supply papers, are subject to error because of storage in Sinclair Reservoir. The adjusted yearly figures published herein supersede the previously published unadjusted figures.

2240. Rocky Creek near Dudley, Ga.

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

Drainage area.--62.9 sq mi.

Records available.--October 1951 to September 1960.

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

Average discharge.--9 years (1951-60), 58.5 cfs.

Extremes.--1951-60: Maximum discharge, 2,930 cfs Apr. 5, 1960 (gage height, 10.0 ft); minimum, 0.23 cfs Oct. 6, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	*4.0	*36.0	71.0	55.3	117	187	66.0	17.0	16.1	3.73	15.3	8.02	*49.5
1953	5.70	7.21	17.5	85.5	190	126	123	242	22.3	51.6	12.8	67.3	78.6
1954	43.6	18.1	202	106	56.8	61.6	28.7	17.3	5.19	5.74	2.87	1.41	46.1
1955	1.98	7.32	7.28	11.7	42.8	19.7	94.6	13.8	7.17	19.3	6.55	60.7	24.1
1956	13.1	14.4	15.1	15.5	99.6	127	57.0	15.3	4.48	6.58	2.75	7.95	31.3
1957	16.8	8.77	27.6	29.7	35.4	111	126	144	48.0	71.3	19.9	19.9	55.2
1958	54.9	124	134	97.1	164	281	151	50.5	74.5	81.2	14.4	4.74	102
1959	4.83	7.84	11.3	21.6	185	235	82.2	17.2	15.2	10.6	5.91	31.6	51.5
1960	95.0	84.3	67.4	104	226	165	259	34.7	11.1	6.53	5.17	4.93	87.8

* Not previously published; estimated on basis of records for Big Indian Creek at Perry.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	*0.07	*0.64	1.30	1.01	2.01	3.42	1.17	0.31	0.29	0.07	0.28	0.14	*10.71
1953	.10	.13	.32	1.57	3.14	2.31	2.19	4.44	.40	.95	.23	1.19	16.97
1954	.80	.32	3.70	1.95	.94	1.13	.51	.32	.09	.10	.05	.03	9.94
1955	.04	.13	.13	.21	.71	.36	1.67	.25	.13	.35	.12	1.08	5.18
1956	.24	.26	.28	.28	1.70	2.33	1.01	.28	.08	.12	.05	.14	6.77
1957	.31	.16	.51	.54	.59	2.03	2.23	2.64	.85	1.30	.36	.35	11.87
1958	1.01	2.20	2.46	1.78	2.72	5.15	2.68	.95	1.32	1.49	.26	.08	22.08
1959	.09	.14	.21	.40	3.06	4.31	1.46	.31	.27	.19	.11	.56	11.11
1960	1.74	1.50	1.23	1.90	3.87	3.02	4.60	.64	.20	.12	.09	.09	19.00

* Not previously published; see footnote to preceding table.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234	692	Mar. 24, 1952	-	*49.5	*0.787	*10.71	42.8	9.25
1953	1274	2,390	May 7, 1953	2.9	78.6	1.25	16.97	98.4	21.24
1954	1334	668	Dec. 14, 1953	.66	46.1	1.733	9.94	25.1	5.42
1955	1384	1,350	Apr. 15, 1955	.37	24.1	.383	5.18	26.1	5.63
1956	1434	474	Mar. 17, 1956	1.5	31.3	.498	6.77	32.3	6.97
1957	1504	1,540	Apr. 6, 1957	4.9	55.2	.878	11.87	76.9	16.56
1958	1554	1,540	Mar. 9, 1958	3.3	102	1.62	22.08	78.1	16.85
1959	1624	2,390	Mar. 6, 1959	2.0	51.5	.819	11.11	70.2	15.14
1960	1704	2,930	Apr. 5, 1960	2.0	87.8	1.40	19.00	-	-

* Not previously published.

ALTAMAHA RIVER BASIN

2245. 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 Air Line 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.--October 1937 to December 1955. Monthly discharge only for some periods, published in WSP 1304.

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

Average discharge.--18 years (1937-55), 4,977 cfs (unadjusted).

Extremes.--1937-55: Maximum discharge, 66,300 cfs Dec. 5, 1948 (gage height, 22.6 ft); minimum daily, 470 cfs Oct. 21, 1954 (corrected).
Maximum stage known since at least 1930, 25.5 ft in April 1936, from information by Georgia State Highway Department.

Remarks.--Flow regulated by Sinclair Reservoir.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,499	2,009	3,169	4,511	4,285	4,949	5,798	2,503	1,891	1,874	1,517	1,103	2,985
1952	1,047	2,116	4,576	4,806	7,218	22,750	10,010	3,686	2,591	1,302	1,791	1,465	5,298
1953	1,081	1,114	1,720	5,533	8,320	13,050	5,516	12,620	2,332	2,873	1,767	2,041	4,825
1954	3,825	1,467	9,252	8,131	4,180	4,214	3,653	2,103	1,382	1,044	921	925	3,436
1955	605	735	1,226	3,381	5,485	2,962	5,196	3,216	1,399	1,813	2,005	2,442	2,516
1956	1,674	1,538	1,832	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.56	0.44	0.71	1.02	0.87	1.12	1.26	0.52	0.41	0.42	0.34	0.24	7.91
1952	.24	.46	1.03	1.08	1.52	5.13	2.19	.87	.57	.29	.40	.32	14.10
1953	.24	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Monthly figures of runoff in inches November 1952 to December 1955, previously published in some water-supply papers, may be subject to error because of storage in Sinclair Reservoir. Those figures are not published herein.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	2,994	7.93	-	-
1951	1204	7,950	Apr. 29, 1951	568	2,985	0.584	7.91	2,990	7.93	-	-
1952	1234	44,300	Mar. 11, 1952	748	5,298	1.04	14.10	4,976	13.24	-	-
1953	1274	35,200	May 10, 1953	590	4,825	.944	12.81	5,727	15.21	-	-
1954	1334	13,800	Dec. 21, 1953	550	3,436	.672	9.13	2,420	6.44	-	-
1955	1384	12,000	Apr. 21, 1955	470	2,516	.492	6.69	2,724	7.24	-	-
1956	1384	-	-	-	-	-	-	-	-	-	-

2250. Altamaha River near Baxley, Ga.

Location.--Lat 31°56'20", long 82°21'25", at upstream side of bridge near center of main span on U.S. Highway 1, 2½ miles upstream from Bay Creek, 8 miles downstream from Bullards Creek, 12 miles north of Baxley, Appling County, and at mile 116.9.

Drainage area.--11,600 sq mi, approximately.

Records available.--August 1949 to June 1951.

Gage.--Wire-weight gage. Datum of gage is 61.51 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department).

Extremes.--1949-51: Maximum discharge, 23,300 cfs Sept. 2, 1949 (gage height, 13.5 ft, from graph based on gage readings); minimum, 2,650 cfs Oct. 16-18, 1950.
Flood of Dec. 10, 1948, reached a stage of 25.1 ft, from floodmark.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	5,179	4,560	6,533	10,130	9,138	10,530	14,760	6,545	3,719	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.51	0.44	0.65	1.01	0.82	1.05	1.42	0.65	0.36	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	6,707	7.84	-	-
1951	1204	21,100	Apr. 1, 2, 1951	-	-	-	-	-	-	-	-

2255. Ochopee River near Reidsville, Ga.

Location.--Lat 32°04', long 82°11', on downstream side of pier near center of span of bridge on State Route 56, half a mile downstream from Brazells Creek, 1½ miles downstream from Rocky Creek, 3½ miles west of Reidsville, Tattnall County, 6 miles downstream from Pendleton Creek, and 14 miles upstream from mouth.

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

Records available.--April 1903 to December 1907, April 1937 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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 13, 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.--27 years (1903-7, 1937-60), 938 cfs.

Extremes.--1903-7, 1937-60: Maximum discharge, 15,100 cfs Mar. 3, 1939 (gage height, 19.8 ft); minimum daily, 19 cfs Sept. 12, 13, 1954.

Maximum stage known, 28.4 ft in January 1925, from information furnished by Georgia State Highway Department (discharge, 47,000 cfs).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	439	283	608	1,474	967	958	1,813	210	156	152	114	92.4	601
1952	83.7	237	779	897	1,754	3,387	1,444	500	310	102	151	252	823
1953	211	137	244	852	2,284	3,886	1,689	1,904	186	249	151	760	1,040
1954	1,794	306	1,930	2,071	813	764	384	136	58.9	40.1	30.5	23.0	700
1955	20.8	31.2	67.6	131	654	312	1,422	273	93.5	161	327	1,218	387
1956	474	129	188	173	1,844	1,856	1,393	691	207	83.7	111	266	613
1957	345	136	162	236	268	777	1,476	1,511	1,539	1,067	754	270	714
1958	1,202	990	2,484	1,865	1,749	3,532	3,252	754	233	602	125	57.5	1,404
1959	46	44	58	134	2,140	3,861	1,929	688	1,064	652	196	582	940
1960	1,250	1,946	1,671	1,644	4,751	3,205	4,097	834	444	217	124	84.7	1,673

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.46	0.28	0.63	1.53	0.91	0.99	1.82	0.22	0.14	0.16	0.12	0.09	7.35
1952	.09	.24	.81	.93	1.70	3.52	1.45	.52	.31	.11	.16	.25	10.09
1953	.22	.14	.25	.89	2.14	4.04	1.70	1.98	.19	.26	.16	.76	12.73
1954	1.86	.31	2.00	2.15	.76	.79	.39	.14	.06	.04	.03	.02	8.55
1955	.02	.03	.07	.14	.61	.32	1.43	.28	.09	.17	.34	1.23	4.73
1956	.49	.13	.19	.18	1.79	1.92	1.40	.72	.21	.09	.12	.27	7.51
1957	.36	.14	.17	.25	.27	.81	1.48	1.57	1.55	1.11	.76	.27	8.74
1958	1.24	1.00	2.58	1.94	1.64	3.67	3.27	.78	.23	.62	.13	.06	17.16
1959	.05	.04	.06	.14	2.01	4.01	1.94	.71	1.07	.68	.20	.58	11.49
1960	1.30	1.95	1.74	1.71	4.62	3.33	4.12	.87	.45	.22	.13	.08	20.52

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	331	4.04
1951	1204	4,240	Apr. 2, 1951	43	601	0.541	7.35	582	7.12	
1952	1234	5,420	Mar. 30, 1952	44	823	.741	10.09	780	9.56	
1953	1274	7,140	Mar. 1, 1953	45	1,040	.937	12.73	1,331	16.29	
1954	1334	6,350	Oct. 1, 1953	19	700	.631	8.55	369	4.50	
1955	1384	4,160	Apr. 20, 1955	20	387	.349	4.73	444	5.42	
1956	1434	3,540	Feb. 9, 1956	36	613	.552	7.51	600	7.37	
1957	1504	8,270	July 30, 1957	72	714	.843	8.74	1,054	12.89	
1958	1554	7,610	Mar. 12, 1958	48	1,404	1.26	17.16	1,022	12.49	
1959	1624	6,060	Mar. 7, 1959	-	940	.847	11.49	1,336	16.33	
1960	1704	14,600	Apr. 8, 1960	52	1,673	1.51	20.52	-	-	

2260. 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 1960. 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.--29 years (1931-60), 12,770 cfs.

Extremes.--1931-60: Maximum discharge, 178,000 cfs Apr. 18, 1936 (gage height, 12.03 ft); minimum, 1,430 cfs Oct. 27, 28, Nov. 1, 1954.

Maximum stage known since at least 1800, 14.6 ft-Jan. 23, 1925 (discharge, 300,000 cfs, from rating curve extended above 180,000 cfs).

Corrections.--In WSP 1304, the average discharge for years 1931-50, the water year mean and discharge per square mile for water year 1932, are listed in error; they should be 13,340 cfs, 9,710 cfs, and 0.714 cfs, respectively.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6,427	5,865	7,540	12,310	10,350	11,340	18,720	7,835	4,195	4,670	5,764	3,102	8,160
1952	3,344	5,023	9,123	14,760	16,980	44,770	31,240	9,927	8,262	3,995	4,084	4,336	12,970
1953	3,745	3,233	4,487	11,840	21,450	35,120	22,270	28,430	6,344	7,785	6,168	5,909	13,040
1954	17,895	5,003	19,484	25,435	12,324	11,017	9,869	5,327	5,615	2,691	2,399	2,147	9,797
1955	1,748	1,789	2,688	5,872	11,020	7,033	12,840	6,439	4,493	4,113	5,477	9,062	5,996
1956	5,154	3,557	4,226	4,054	16,960	18,320	21,400	10,800	4,356	5,915	3,867	3,486	8,465
1957	8,587	4,483	4,812	11,370	10,760	12,470	24,840	18,860	14,670	8,377	7,565	4,591	10,920
1958	11,620	8,479	28,960	17,070	26,300	39,640	35,740	18,160	7,757	10,450	5,778	3,452	17,840
1959	3,126	2,703	3,639	4,879	27,010	37,060	24,590	8,461	18,120	6,356	4,291	6,037	12,060
1960	7,446	13,330	11,030	15,610	47,400	37,790	47,580	12,140	6,296	5,899	5,054	3,626	17,610

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.55	0.48	0.84	1.04	0.79	0.96	1.54	0.66	0.34	0.40	0.49	0.25	8.14
1952	.28	.41	.77	1.26	1.35	3.79	2.57	.84	.68	.54	.35	.56	13.00
1953	.32	.27	.38	1.00	1.64	2.97	1.83	2.41	.52	.66	.52	.48	13.00
1954	1.52	.41	1.65	2.18	.94	.93	.81	.45	.30	.23	.20	.18	9.78
1955	.15	.15	.23	.50	.84	.60	1.05	.55	.37	.35	.46	.74	5.99
1956	.44	.29	.36	.34	1.35	1.56	1.75	.92	.36	.50	.33	.29	8.49
1957	.73	.37	.41	.96	.82	1.06	2.04	1.60	1.20	.71	.62	.38	10.90
1958	.98	.70	2.46	1.45	2.01	3.36	3.01	1.54	.64	.89	.49	.28	17.81
1959	.27	.22	.31	.41	2.07	3.14	2.02	1.72	1.48	.54	.36	.50	12.04
1960	.63	1.09	.94	1.33	3.76	3.20	3.90	1.03	.52	.50	.43	.30	17.63

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	7,530	7.51
1951	1204	29,000	Apr. 4-5, 1951	2,320	8,160	0.600	8.14	7,964	7.93
1952	1234	71,400	Mar. 17-19, 1952	2,320	12,970	.954	13.00	12,470	12.51
1953	1274	66,700	May 16, 1953	2,760	13,040	.959	13.00	15,657	15.61
1954	1334	39,600	Dec. 30, 1953	1,870	9,797	.720	9.78	8,735	8.73
1955	1384	22,400	Apr. 26, 1955	1,450	5,996	.441	5.99	6,562	6.55
1956	1434	32,700	Apr. 1, 1956	2,520	8,465	.622	8.49	8,906	8.91
1957	1504	31,400	Apr. 11-14, 1957	3,110	10,920	.803	10.90	13,560	13.53
1958	1554	53,700	Mar. 15-20, 1958	2,940	17,840	1.31	17.81	14,490	14.47
1959	1624	44,500	Mar. 16-21, 1959	2,580	12,060	.887	12.04	13,930	13.90
1960	1704	89,600	Apr. 11-12, 1960	2,800	17,610	1.29	17.63	-	-

2261. Penholoway Creek near Jesup, Ga.

Location.--Lat 31°34'00", long 81°50'18", on downstream side of bridge on U.S. Highway 341, 4 miles southwest of Jesup, Wayne County, and about 9.5 miles upstream from mouth.

Drainage area.--150 sq mi, approximately.

Records available.--July 1958 to September 1960.

Gage.--Water-stage recorder.

Extremes.--1958-60: Maximum discharge, 3,500 cfs Mar. 7, 1959 (gage height, 14.0 ft); minimum, 0.2 cfs Nov. 29, 30, Dec. 1, 4-10, 1958.

Remarks.--Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	283	92.6	10.2	-
1959	75.4	1.47	4.94	80.3	538	1,342	159	70.5	290	217	26.0	217	250
1960	274	160	60.1	69.6	571	344	419	25.9	7.77	55.6	23.7	75.6	172

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	2.18	0.71	0.08	-
1959	0.58	0.01	0.04	0.62	3.74	10.32	1.18	0.54	2.15	1.67	.20	1.62	22.67
1960	2.11	1.19	.46	.53	4.11	2.64	3.11	.20	.06	.43	.18	.56	15.58

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1958	-	-	-	-	1.2	-	-	-	-
1959	-	3,500	Mar. 7, 1959	.2	250	1.67	22.67	285	25.80
1960	-	1,560	Apr. 6, 1960	.4	172	1.15	15.58	-	-

SATILLA RIVER BASIN

2265. Satilla River near Waycross, Ga.

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

Drainage area.--1,200 sq mi, approximately.

Records available.--March 1937 to September 1960.

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.--23 years (1937-60), 904 cfs.

Extremes.--1937-60: Maximum discharge, 39,000 cfs Apr. 4, 1948 (gage height, 22.4 ft, from floodmark); minimum, 6.0 cfs Nov. 3, 4, 1954.

Maximum stage known since at least 1862, that of Apr. 4, 1948. Flood in September 1928 reached a stage of 22.2 ft, from information by Atlantic Coast Line Railroad (discharge, 37,000 cfs).

Remarks.--Atlantic Coast Line Railroad diverted less than 4 cfs from pool at gage for use in shop October 1950 to September 1953. Records of discharge since October 1953 include the diversion.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	423	191	555	508	488	964	2,563	176	33.7	46.1	110	791	568
1952	277	1,003	1,367	910	1,072	2,060	636	181	215	33.4	91.0	102	662
1953	171	473	59.4	209	1,261	1,359	1,829	179	104	380	1,165	1,866	712
1954	3,109	187	1,557	1,811	356	305	125	69.9	21.0	20.6	12.4	13.1	640
1955	752	913	17.6	75.5	248	91.1	400	88.9	24.5	88.8	179	806	168
1956	243	106	63.9	176	1,418	778	465	632	103	430	186	287	404
1957	1,126	291	163	180	119	498	1,006	835	1,746	602	332	358	606
1958	840	293	1,896	1,048	1,107	2,915	4,749	459	992	1,806	460	57.7	1,471
1959	51.1	28.8	31.8	134	2,824	7,212	1,812	997	1,477	572	206	147	1,284
1960	160	447	509	766	3,223	2,112	5,878	450	202	906	679	642	1,333

SATILLA RIVER BASIN

Monthly and yearly runoff, in inches, of Satilla River near Waycross, Ga.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.41	0.18	0.53	0.49	0.42	0.93	2.39	0.17	0.03	0.04	0.11	0.74	6.44
1952	.27	.93	1.31	.87	.96	1.98	.59	.17	.20	.03	.09	.09	7.49
1953	.16	.04	.06	.20	1.09	1.30	1.70	.17	.10	.37	1.12	1.73	8.04
1954	2.99	.17	1.50	1.74	.31	.29	.12	.07	.02	.02	.01	.01	7.25
1955	.007	.008	.02	.07	.22	.09	.37	.09	.02	.09	.17	.75	1.90
1956	.23	.10	.06	.17	1.27	.75	.43	.61	.10	.41	.18	.27	4.58
1957	1.08	.27	.16	.17	.10	.48	.94	1.80	1.62	.58	.32	.33	6.85
1958	.81	.27	1.82	1.01	.96	2.80	4.42	1.41	.92	1.73	.44	.05	16.64
1959	.05	.03	.03	.13	2.45	6.94	1.68	.96	1.37	.55	.20	.14	14.53
1960	.15	.42	.48	.74	2.90	2.03	5.47	.43	.19	.87	.84	.60	15.13

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	520	5.87
1951	1204	7,770	Apr. 4, 1951	22	568	0.473	6.44	691	7.83
1952	1234	2,870	Mar. 4, 5, 6, 1952	17	662	.552	7.49	464	5.24
1953	1274	84,300	Apr. 18, 1953	27	712	.593	8.04	1,100	12.44
1954	1334	13,800	Oct. 1, 1953	6.8	640	.533	7.25	232	2.62
1955	1384	2,220	Sept. 14, 1955	6.2	168	.140	1.90	200	2.26
1956	1434	2,320	Feb. 16, 1956	33	404	.337	4.58	502	5.70
1957	1504	4,300	June 17, 1957	47	806	.505	6.85	729	8.24
1958	1554	9,700	Apr. 16, 1958	26	1,471	1.23	16.64	1,224	13.85
1959	1624	18,800	Mar. 9, 10, 1959	22	1,284	1.07	14.53	1,568	15.48
1960	1704	20,600	Apr. 8, 1960	20	1,333	1.11	15.13	-	-

a Maximum peak discharge; maximum discharge during year, 12,700 cfs at 12:00 p.m. Sept. 30, 1953, stage rising.

2266. Burket Creek near Roper, Ga.

Location.--Lat 31°48', long 82°38', on left bank 50 ft downstream from highway bridge, 2.0 miles upstream from mouth, and 2.1 miles southeast of Roper, Jeff Davis County.

Drainage area.--7.1 sq mi, approximately.

Records available.--July 1956 to September 1960.

Gage.--Water-stage recorder. Prior to Aug. 13, 1956, staff gage at same site and datum.

Extremes.--1956-60: Maximum gage height, 5.02 ft July 19, 1957 (discharge not determined); no flow at times each year.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	7.25	0.58	2.73	-
1957	5.63	0.93	0.94	0.61	0.64	3.80	2.75	6.03	11.5	22.7	3.35	7.93	5.61
1958	6.51	4.63	8.93	5.62	5.82	11.3	19.8	6.16	2.83	12.3	1.31	0	7.11
1959	0	0	0	.28	12.8	39.1	10.0	9.30	11.0	.27	.03	.09	6.87
1960	1.51	1.59	4.25	4.64	24.7	6.83	24.8	1.37	0	0	0	0	5.70

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	1.18	0.09	0.43	-
1957	0.81	0.15	0.15	0.10	0.09	0.62	0.43	0.98	1.81	3.69	.54	1.25	10.72
1958	1.06	.73	1.45	.91	.85	1.83	3.11	1.00	.45	1.99	.21	0	13.59
1959	0	0	0	.04	1.87	6.35	1.57	1.51	1.73	.04	.005	0	13.12
1960	.25	.25	.69	.75	3.75	1.11	3.89	.22	0	0	0	0	10.91

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1957	1504	-	-	0	5.61	0.790	10.72	6.67	12.75
1958	1554	-	-	0	7.11	1.00	13.59	5.42	10.35
1959	1624	-	-	0	6.87	.968	13.12	7.49	14.32
1960	1704	-	-	0	5.70	.803	10.91	-	-

2267. Whitehead Creek near Denton, Ga.

Location.--Lat 31°44', long 82°41', on left bank at downstream side of bridge on U.S. Highway 221 and State Highway 135, 1.0 mile northeast of Denton, Jeff Davis County, and 5.1 miles upstream from mouth.

Drainage area.--28 sq mi, approximately.

Records available.--July 1956 to September 1960.

Gage.--Water-stage recorder. Prior to Sept. 11, 1956, reference point at same site and datum.

Extremes.--1956-60: Maximum discharge, 1,160 cfs Mar. 6, 1959 (gage height, 6.24 ft); no flow at times each year.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	8.25	13.1	0.04	-
1957	11.7	1.36	2.69	1.43	1.38	16.0	11.5	13.3	15.5	1.25	.07	2.66	6.60
1958	8.83	11.3	30.8	23.2	27.8	52.5	90.2	25.1	9.45	40.4	.77	0	26.7
1959	0	0	0	0	50.4	133	31.3	16.9	47.7	5.18	.75	0	23.6
1960	4.19	6.63	19.5	24.2	113	48.0	119	4.04	.05	3.62	1.85	2.87	28.4

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	0.34	0.54	0.002	-
1957	0.48	0.05	0.11	0.06	0.05	0.66	0.46	0.55	0.62	.05	.003	.11	3.20
1958	.36	.45	1.27	.96	1.03	2.16	3.59	1.03	.38	1.66	.03	0	12.92
1959	0	0	0	0	1.87	5.48	1.25	.70	1.90	.21	.03	0	11.44
1960	.17	.26	.80	1.00	4.36	1.97	4.74	.17	.002	.15	.08	.11	13.81

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1957	1504	116	June 9, 1957	0	6.60	0.236	3.20	9.56	4.64		
1958	1554	320	July 4, 1958	0	26.7	.954	12.92	22.4	10.84		
1959	1624	1,160	Mar. 6, 1959	0	23.6	.843	11.44	26.1	12.67		
1960	1704	1,040	Apr. 5, 1960	0	28.4	1.01	13.81	-	-		

2269. Hurricane Creek near Hazlehurst, Ga.

Location.--Lat 31°41', long 82°34', on downstream side of highway bridge, 4.8 miles downstream from Whitehead Creek and 13 miles south of Hazlehurst, Jeff Davis County.

Drainage area.--102 sq mi.

Records available.--July 1956 to September 1960.

Gage.--Water-stage recorder. Prior to Sept. 21, 1956, staff gage at same site and datum.

Extremes.--1956-60: Maximum discharge, 3,580 cfs Mar. 7, 1959 (gage height, 8.15 ft); no flow at times each year.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	42.3	11.0	6.03	-
1957	50.6	9.79	15.0	6.98	4.68	65.5	48.5	57.9	113	122	25.9	60.2	48.5
1958	84.1	57.9	155	85.7	111	194	311	125	39.6	106	2.36	0	106
1959	0	0	0	3.18	182	527	167	149	188	36.8	3.55	.66	104
1960	16.6	41.8	83.3	83.9	388	160	449	33.6	.66	3.63	1.71	2.44	104

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	0.48	0.12	0.07	-
1957	0.57	0.11	0.17	0.08	0.05	0.74	0.53	0.65	1.24	1.38	.29	.68	6.47
1958	.95	.63	1.75	.97	1.14	2.19	3.40	1.42	.43	1.20	.03	0	14.11
1959	0	0	0	.04	1.85	5.96	1.83	1.68	2.05	.42	.04	.007	13.88
1960	.19	.46	.95	.95	4.10	1.81	4.91	.38	.007	.04	.02	.03	13.85

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1957	1504	722	July 21, 1957	0	48.5	0.475	6.47	67.2	8.95		
1958	1554	722	Apr. 18, 1958	0	106	1.04	14.11	80.8	10.78		
1959	1624	3,580	Mar. 7, 1959	0	104	1.02	13.88	116	15.48		
1960	1704	3,180	Apr. 6, 1960	0	104	1.02	13.85	-	-		

SATILLA RIVER BASIN

2270. 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, approximately.

Records available.--October 1951 to September 1960.

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

Average discharge.--9 years (1951-60), 92.2 cfs.

Extremes.--1951-60: Maximum discharge, 4,450 cfs Sept. 29, 1953 (gage height, 9.4 ft); no flow at times each year.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	11.7	132	280	106	169	202	54.9	29.7	120	0.129	7.57	8.28	93.3
1953	8.89	8.10	18.7	59.0	233	205	202	7.75	1.85	6.77	32.4	494	105
1954	221	33.7	213	216	78.0	62.5	12.5	6.10	0	0	0	2.82	71.0
1955	.835	0	2.38	23.3	81.4	11.4	117	1.02	0	1.91	4.81	82.0	26.5
1956	14.8	3.07	3.83	31.8	218	80.5	71.4	61.1	15.1	27.2	35.6	7.09	46.7
1957	58.3	12.6	21.0	14.8	10.5	83.3	86.0	74.6	130	144	50.7	67.7	63.1
1958	128	74.0	233	131	130	269	485	137	51.8	130	4.97	0	148
1959	0	0	.16	6.50	248	730	242	197	242	80.6	22.0	6.07	147
1960	22.5	62.9	108	114	495	217	472	46.9	3.99	21.4	7.15	4.65	129

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.09	0.98	2.16	0.82	1.22	1.56	0.41	0.23	0.89	0.001	0.06	0.06	8.48
1953	.07	.06	.14	.45	1.61	1.58	1.51	.06	.01	.05	.25	3.67	9.46
1954	1.70	.25	1.64	1.66	.54	.48	.09	.05	0	0	0	.02	6.45
1955	.006	0	.02	.18	.57	.09	.87	.008	0	.02	.04	.61	2.41
1956	.11	.02	.03	.24	1.56	.62	.53	.47	.11	.21	.27	.05	4.22
1957	.45	.09	.16	.11	.07	.64	.64	.57	.97	1.11	.39	.50	5.70
1958	.98	.55	1.79	1.01	.90	2.06	3.60	1.05	.38	1.00	.04	0	13.36
1959	0	0	.001	.05	1.72	5.62	1.80	1.51	1.80	.62	.17	.04	13.33
1960	.17	.47	.83	.88	3.56	1.67	3.51	.36	.03	.16	.06	.03	11.73

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1334	798	Dec. 25, 1951	0	93.3	0.622	8.48	60.7	5.52
1953	1334	4,450	Sept. 29, 1953	0	105	.700	9.46	140	12.71
1954	1334	a940	Oct. 3, 1953	0	71.0	.473	6.45	31.7	2.87
1955	1364	460	Apr. 16, 1955	0	26.5	.177	2.41	28.1	2.55
1956	1434	530	Feb. 11, 1956	0	46.7	.311	4.22	52.7	4.76
1957	1504	582	July 23, 1957	0	63.1	.421	5.70	92.1	8.32
1958	1554	910	Apr. 15, 1958	0	148	.987	13.36	111	10.04
1959	1624	3,360	Mar. 8, 1959	0	147	.980	13.33	164	14.80
1960	1704	3,120	Apr. 6 or 7, 1960	0	129	.860	11.73	-	-

a Maximum peak discharge; maximum discharge during year, 1,490 cfs at 12:01 a.m. Oct. 1, 1953, stage falling.

2275. 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 1960.

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.

Average discharge--9 years (1951-60), 369 cfs.

Extremes--1951-60: Maximum discharge, 17,200 cfs Sept. 29, 1953 (gage height, 13.5 ft); no flow Oct. 10 to Nov. 14, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	288	518	1,312	73.6	2.96	46.9	87.8	85.9	-
1952	19.9	310	525	328	445	800	207	167	362	2.01	1.41	2.36	264
1953	10.8	.86	20.1	131	581	478	672	10.1	1.84	537	316	2,363	405
1954	1,361	88.2	856	799	215	180	28.9	10.3	.584	.350	28.8	344	282
1955	.025	.155	.903	81.3	245	53.4	284	58.6	902	62.3	28.8	397	99.8
1956	471	19.4	23.5	96.9	316	176	142	105	43.7	60.0	8.54	25.1	87.7
1957	127	19.4	15.2	13.5	15.7	168	257	258	1,118	288	406	838	231
1958	313	170	1,074	654	552	1,618	2,264	354	262	456	97.8	5.18	652
1959	29.0	4.80	19.0	108	1,140	3,436	1,050	625	1,344	853	267	351	767
1960	239	570	247	345	1,453	858	1,655	173	150	461	194	85.8	530

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	0.46	0.92	2.26	0.13	0.005	0.08	0.16	0.14	-
1952	0.04	0.54	0.94	0.59	.74	1.43	.56	.30	.62	.004	.003	.004	5.57
1953	.02	.001	.04	.23	.94	.85	1.16	.02	.003	.60	.56	4.08	8.50
1954	2.43	.15	1.18	1.43	.35	.32	.05	.02	.001	.0006	.0006	.0005	5.93
1955	.00004	.00003	.002	.15	.39	.10	.49	.10	.02	.11	.05	.69	2.10
1956	.08	.03	.04	.17	.53	.31	.25	.19	.08	.11	.02	.04	1.85
1957	.23	.03	.03	.02	.02	.30	.44	.46	1.93	.51	.72	.14	4.83
1958	.56	.29	1.91	1.16	.89	2.88	3.90	.63	.45	.81	.17	.009	13.66
1959	.05	.008	.03	.19	1.83	6.13	1.82	1.11	2.32	1.52	.48	.61	16.10
1960	.43	.98	.44	.62	2.43	1.53	2.86	.31	.26	.82	.35	.15	11.18

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1274	5,100	Apr. 3, 1951	-	-	-	-	-	-
1952	1274	1,860	June 1, 1952	0.4	264	0.409	5.57	195	4.11
1953	1274	17,200	Sept. 29, 1953	.4	405	.627	8.50	581	12.20
1954	1354	1,610	Jan. 2, 1954	.16	282	.437	5.93	105	2.18
1955	1384	1,180	Apr. 17, 18, 1955	0	99.8	.154	2.10	107	2.25
1956	1434	530	Feb. 17, 1956	.7	87.7	.136	1.85	93.8	1.99
1957	1504	3,760	June 11, 1957	2.2	231	.358	4.83	349	7.30
1958	1554	4,620	Apr. 17, 1957	1.3	852	1.01	13.66	525	10.99
1959	1624	8,860	Mar. 7, 1959	1.8	767	1.19	16.10	850	17.86
1960	1704	6,570	Apr. 8, 1960	3.7	530	.820	11.18	-	-

a Maximum peak discharge; maximum discharge during year 12,200 cfs at 12:01 a.m. Oct. 1, 1953, stage falling.

SATILLA RIVER BASIN

2280. 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.--2,790 sq mi, approximately.

Records available.--March 1930 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--30 years (1930-60), 1,994 cfs.

Extremes.--1930-60: Maximum discharge, 68,100 cfs Apr. 6, 1948 (gage height, 23.9 ft); minimum daily, 21 cfs Nov. 2-5, 7-13, 1954 (revised).

Maximum stage known since at least 1862, 27.2 ft in September 1929 (corrected), from information by Georgia State Highway Department (discharge, 110,000 cfs).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3,953	1,656	1,965	1,665	1,222	1,377	5,566	798	104	171	299	1,571	1,694
1952	860	2,003	2,189	2,338	1,915	3,833	1,498	573	1,289	182	166	180	1,418
1953	266	101	132	407	2,162	2,492	3,313	556	181	1,002	2,903	4,242	1,469
1954	10,960	505	2,277	4,099	1,093	872	446	211	79.7	75.3	43.6	41.4	1,747
1955	25.9	249	48.7	195	714	262	740	310	120	202	324	1,798	391
1956	565	225	161	298	1,961	1,589	878	1,026	208	620	341	345	681
1957	1,854	604	196	282	184	773	2,110	1,545	4,121	1,841	1,685	583	1,274
1958	1,880	563	4,006	2,404	2,191	5,669	9,585	2,644	1,931	3,561	1,192	190	2,990
1959	165	107	99.5	427	4,954	14,430	5,160	1,293	5,907	1,885	1,140	1,070	3,038
1960	1,211	1,622	892	1,659	5,487	5,323	9,915	1,134	515	2,007	1,497	1,242	2,687

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.64	0.66	0.81	0.69	0.46	0.57	2.22	0.33	0.04	0.07	0.12	0.63	8.24
1952	.56	.80	.90	.97	.74	1.58	1.60	.24	.52	.07	.07	.07	6.92
1953	.11	.04	.05	.17	.81	1.03	1.35	.23	.07	.41	1.20	1.70	7.15
1954	4.53	.20	.94	1.70	.41	.36	.18	.09	.03	.03	.02	.02	8.51
1955	.01	.01	.02	.08	.27	.11	.30	.13	.05	.08	.13	.72	1.91
1956	.23	.09	.07	.12	.76	.66	.35	.42	.08	.26	.14	.14	3.32
1957	.56	.24	.08	.11	.07	.32	.84	.64	1.65	.76	.70	.23	6.20
1958	.78	.23	1.66	.99	.82	2.34	3.84	1.09	.77	1.48	.49	.08	14.57
1959	.07	.04	.04	.18	1.85	5.96	2.06	.53	2.36	.78	.47	.43	14.77
1960	.50	.65	.37	.69	2.12	2.20	3.96	.47	.21	.85	.62	.50	13.12

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,803	8.77
1951	1204	15,000	Oct. 24, 1950	80	1,694	0.607	8.24	1,479	7.19
1952	1234	5,360	Mar. 11, 1952	80	1,418	.508	6.92	1,038	5.06
1953	1274	26,220	Apr. 23, 1953	84	1,469	.527	7.15	2,593	12.62
1954	1334	34,600	Oct. 3, 1953	26	1,747	.826	8.51	589	2.88
1955	1384	3,900	Sept. 21, 1955	21	391	.140	1.91	463	2.26
1956	1434	3,420	Feb. 22, 1956	125	681	.244	3.32	782	3.81
1957	1504	6,400	June 17, 1957	163	1,274	.457	6.20	1,639	7.99
1958	1554	19,000	Apr. 20, 1958	127	2,990	1.07	14.57	2,475	12.05
1959	1624	29,700	Mar. 12, 13, 1959	71	3,038	1.09	14.77	3,318	16.14
1960	1704	51,100	Apr. 11-12, 1960	152	2,687	.963	13.12	-	-

a Maximum peak discharge; maximum discharge during the year 32,500 cfs at 12:00 p.m. Sept. 30, 1955, stage rising.

2285. 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, Charlton County, 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 (published as St. Marys River at Moniac), January 1927 to June 1930, July 1932 to June 1934, October 1950 to September 1960.

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 at site 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.--15 years (1921-23, 1927-29, 1932-33, 1950-60), 142 cfs.

Extremes.--1921-23, 1927-30, 1932-34, 1950-60: Maximum discharge, about 6,060 cfs, probably Sept. 19, 1928 (gage height, 19.9 ft, present datum, at site then in use), from rating curve extended above 3,700 cfs; no flow at times.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	914	136	55.2	37.3	30.6	32.9	30.5	1.24	1.36	1.44	7.82	20.3	107
1952	56.7	132	179	129	270	448	72.1	13.3	1.38	.10	22.7	36.9	113
1953	16.9	3.03	1.45	5.56	17.0	9.37	135	13.6	.55	29.3	127	510	71.9
1954	862	58.0	291	247	52.9	33.3	13.0	1.86	.04	0	.01	.02	115
1955	.0003	0	.13	.73	2.26	.40	.82	.23	.05	2.39	70.9	118	16.3
1956	17.1	11.4	2.90	14.2	52.6	28.9	4.14	57.9	11.2	19.2	1.15	1.69	19.5
1957	79.1	18.3	2.00	.62	.59	25.2	71.7	23.8	775	78.5	65.7	51.9	98.8
1958	283	25.5	82.7	83.9	93.7	183	497	108	30.6	68.6	23.2	1.87	124
1959	.20	7.10	6.85	142	226	1203	174	198	124	313	198	200	234
1960	140	98.9	56.7	35.2	239	459	177	19.5	130	261	139	230	165

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6.58	0.95	0.40	0.27	0.20	0.24	0.21	0.009	0.009	0.01	0.06	0.14	9.08
1952	.41	.92	1.29	.93	1.82	3.23	.50	.10	.01	.0007	.16	.28	9.63
1953	.12	.02	.01	.04	.11	.07	.94	.10	.004	.21	.91	3.56	6.09
1954	4.77	.40	2.09	1.78	.34	.24	.09	.01	.0004	0	.00005	.0002	9.72
1955	.00002	0	.0009	.005	.01	.003	.006	.002	.0004	.02	.51	.82	1.38
1956	.12	.08	.02	.10	.35	.21	.03	.42	.08	.14	.008	.01	1.57
1957	.57	.13	.01	.004	.004	.18	.50	.17	5.41	.57	.47	.36	8.38
1958	2.04	.18	.60	.61	1.32	3.47	.78	.21	.49	.17	.01	.01	10.48
1959	.001	.05	.05	1.03	1.47	8.67	1.22	1.43	.86	2.25	1.43	1.40	19.86
1960	1.01	.69	.41	.25	1.61	3.31	1.24	.14	.90	1.88	1.00	1.60	14.04

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1234	4,050	Oct. 22, 1950	0	107	0.669	9.08	44.4	3.77
1952	1234	1,330	Mar. 14, 1952	0	113	.706	9.63	84.2	7.16
1953	1274	1,920	Sept. 27, 1953	0	71.9	.449	6.09	156	13.20
1954	1334	2,140	Oct. 1, 1953	0	115	.719	9.72	29.1	2.46
1955	1384	443	Sept. 8, 1955	0	16.3	.102	1.38	18.9	1.60
1956	1434	312	May 8, 1956	0	18.5	.116	1.57	24.2	2.06
1957	1504	3,110	June 11, 1957	.1	98.8	.618	8.38	124	10.49
1958	1554	1,590	Apr. 11, 1958	.1	124	.775	10.48	91.6	7.76
1959	1624	2,650	Mar. 18, 1959	.1	234	1.46	19.86	258	21.87
1960	1704	1,410	Mar. 19, 1960	1.0	165	1.03	14.04	-	-

ST. MARYS RIVER BASIN

2290. Middle Prong St. Marys River at Taylor, Fla.

Location--Lat 30°26', long 82°17', on line between secs. 2 and 3, T.1 S., R.20 E., near center of span on upstream side of bridge on State Highway 125, 0.5 mile southeast of Taylor, Baker County, and three-quarters of a mile upstream from Little River.

Drainage area--125 sq mi, approximately.

Records available--September 1955 to September 1960.

Gage--Water-stage recorder. Datum of gage is 89.4 ft above mean sea level, datum of 1929 (from elevation of centerline of bridge, furnished by Florida State Road Department).

Average discharge--5 years (1955-60), 90.6 cfs.

Extremes--1955-60: Maximum discharge, 1,790 cfs Apr. 10, 1958 (gage height, 11.96 ft); minimum daily, 0.1 cfs Aug. 24-31, Sept. 12-18, 23, 1956; minimum gage height, 1.15 ft Oct. 29, 1958, June 17, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	1.21	0.95	0.66	0.92	1.64	1.80	1.12	2.72	1.42	1.83	0.50	0.81	1.30
1957	124	64.2	6.49	1.88	1.32	7.10	14.7	13.5	361	36.9	321	100	87.9
1958	185	13.5	57.7	92.2	99.6	207	474	86.0	23.9	68.2	106	17.6	119
1959	.89	1.18	2.23	37.0	46.0	645	122	328	162	64.3	44.4	98.0	130
1960	56.9	45.7	21.7	14.7	165	482	157	11.5	15.3	94.3	178	135	115

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	0.01	0.008	0.006	0.009	0.01	0.02	0.01	0.03	0.01	0.02	0.005	0.007	0.14
1957	1.15	.57	.06	.02	.01	.07	.13	.12	3.22	.34	2.96	.89	9.54
1958	1.71	.12	.53	.85	.83	1.91	4.23	.79	.21	.63	.98	.16	12.95
1959	.008	.01	.02	.34	.38	5.95	1.09	3.03	1.45	.59	.41	.88	14.16
1960	.52	.41	.20	.14	1.42	4.44	1.40	.11	.14	.87	1.64	1.20	12.49

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1955	-	-	-	-	-	-	-	-	-
1956	1504	17	May 7, 1956	0.1	1.30	0.010	0.14	17.4	1.90
1957	1504	1,040	June 11, 1957	.5	87.9	.703	9.54	93.3	10.12
1958	1554	1,790	Apr. 10, 1958	1.2	119	.952	12.95	97.9	10.63
1959	1624	1,400	Mar. 17, 1959	.8	130	1.04	14.16	140	15.25
1960	1704	1,320	Mar. 18, 1960	.8	115	.906	12.49	-	-

2295. South Prong St. Marys River near Sanderson, Fla.

Location.--Lat 30°12', long 82°16', in NW $\frac{1}{4}$ sec.25, T.3 S., R.20 E., near left bank 5 ft downstream from bridge on State Highway 229, 1 mile upstream from small tributary, and $\frac{3}{4}$ miles south of Sanderson, Baker County.

Drainage area.--58 sq mi, approximately.

Records available.--September 1955 to December 1960.

Gage.--Staff gage read twice daily. Datum of gage is 112.67 ft above mean sea level, datum of 1929 (Florida State Road Department bench mark).

Average discharge.--5 years (1955-60), 48.7 cfs.

Extremes.--1955-60: Maximum discharge, 1,060 cfs June 10, 1957 (gage height, 6.16 ft, from floodmark); no flow for many days in most years.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	0.99	0.31	0.12	0.76	8.11	1.85	0.04	2.15	0.87	6.20	0.03	0.08	1.77
1957	34.6	8.59	.31	.06	.03	2.89	13.3	24.6	201	12.4	58.5	22.4	31.5
1958	58.7	1.77	8.11	26.8	38.0	141	178	22.1	23.7	122	97.8	6.08	60.7
1959	.05	.58	2.94	65.2	34.0	354	65.6	220	123	91.8	14.8	96.9	89.8
1960	63.3	38.0	10.5	8.38	108	281	38.7	3.93	1.33	58.6	42.7	60.0	59.6
1961	139	2.51	.21	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	0.02	0.006	0.002	0.02	0.15	0.04	0.0008	0.04	0.02	0.12	0.0006	0.001	0.42
1957	.69	.17	.006	.001	.0005	.06	.26	.49	3.86	.25	1.16	.43	7.38
1958	1.17	.03	.16	.53	.68	2.81	3.43	.44	.46	2.43	1.94	.12	14.20
1959	.001	.01	.06	1.30	.61	7.04	1.26	4.38	2.37	1.82	.29	1.86	21.00
1960	1.26	.73	.21	.17	2.01	5.59	.74	.08	.03	1.16	.85	1.15	13.98
1961	2.76	.05	.004	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1955	1504	-	-	-	-	-	-	-	-
1956	1504	a26	May 7, 1956	0	1.77	0.031	0.42	5.32	1.26
1957	1504	b1,060	June 10, 1957	0	31.5	.543	7.38	55.6	7.87
1958	1554	a597	Apr. 12, 1958	0	60.7	1.05	14.20	55.2	12.91
1959	1624	1,020	May 24, 1959	0	89.8	1.55	21.00	98.9	23.13
1960	1704	906	Mar. 18, 1960	0	59.6	1.03	13.98	62.2	14.59
1961	1704	c491	Oct. 10, 1960	-	-	-	-	-	-

a Maximum observed.

b From Floodmark.

c Maximum during period October to December.

ST. MARYS RIVER BASIN

2300. Turkey Creek at Macclenny, Fla.

Location--Lat 30°16'05", long 82°07'20", in NE $\frac{1}{4}$ sec. 5, T.3 S., R.22 E., near left bank at downstream side of bridge on State Highway 23, 0.9 mile south of Macclenny, Baker County, and 1.8 miles upstream from mouth.

Drainage area--20.9 sq mi.

Records available--September 1955 to September 1960.

Gage--Staff and crest-stage gages. Datum of gage is 102.27 ft above mean sea level, datum of 1929 (Florida State Road Department bench mark).

Average discharge--5 years (1955-60), 30.8 cfs.

Extremes--1955-60: Maximum discharge, 1,160 cfs May 21, 1959 (gage height, 6.94 ft); minimum, 0.2 cfs Apr. 21-24, 1956, minimum gage height, 0.94 ft July 8, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	2.75	1.72	0.96	2.18	6.28	1.33	0.70	76.1	4.49	18.0	1.68	4.39	10.1
1957	68.9	5.05	2.05	1.77	2.30	8.54	8.18	6.13	81.0	10.2	94.9	22.2	26.1
1958	37.1	2.59	4.33	17.2	27.5	48.1	71.7	12.2	24.6	76.5	50.7	6.83	31.9
1959	2.38	6.93	14.5	61.9	32.0	151	34.0	98.8	26.9	90.5	8.26	67.3	49.9
1960	45.5	8.20	2.91	4.10	50.7	87.5	14.6	1.13	1.56	88.1	30.6	94.3	35.8

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	0.15	0.09	0.05	0.12	0.32	0.07	0.04	4.20	0.24	0.99	0.09	0.23	6.59
1957	3.80	.27	.11	.10	.11	.47	.44	.34	4.32	.56	5.23	1.18	16.93
1958	2.05	.14	.24	.95	1.37	2.65	3.83	.67	1.31	4.33	2.80	.36	20.70
1959	.13	.37	.80	3.41	1.80	6.34	1.82	5.45	1.44	4.99	.46	3.59	32.40
1960	2.51	.44	.16	.23	2.62	4.83	.78	.06	.08	4.66	1.69	5.04	23.30

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1955	1504	-	-	-	-	-	-	-	-
1956	1504	1,110	May 6, 1956	0.2	10.1	0.483	6.59	16.1	10.48
1957	1504	1,130	Oct. 17, 1956	.8	26.1	1.25	16.93	23.4	15.16
1958	1554	994	Apr. 10, 1958	.9	31.9	1.53	20.70	30.1	19.57
1959	1624	1,160	May 21, 1959	.3	49.9	2.39	32.40	52.7	34.21
1960	1704	595	Mar. 17, 1960	.6	35.8	1.71	23.30	-	-

2305. 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, Baker County.

Drainage area.--150 sq mi, approximately.

Records available.--January 1950 to September 1960.

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

Average discharge.--10 years (1950-60), 123 cfs.

Extremes.--1950-60: 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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	870	97.6	36.5	27.3	22.4	20.5	15.8	3.99	2.50	2.65	3.93	5.84	93.5
1952	4.10	10.6	17.8	16.7	107	81.9	29.6	12.8	14.3	14.4	20.7	100	35.4
1953	57.1	6.34	5.76	28.4	62.1	37.5	319	12.1	8.86	17.4	418	496	122
1954	598	48.9	560	245	45.0	28.8	23.8	5.15	3.27	3.58	4.60	9.95	133
1955	8.64	3.55	7.54	18.7	56.8	7.51	6.47	3.02	2.18	119	16.5	77.4	25.6
1956	11.6	9.20	6.64	10.6	35.6	16.6	4.04	110	17.3	58.3	6.14	8.03	24.6
1957	213	39.5	8.86	7.99	8.96	33.0	53.4	138	611	32.3	323	138	134
1958	170	13.9	32.3	90.1	112	395	475	62.1	109	343	291	27.3	177
1959	8.40	16.5	30.0	266	124	1,030	175	643	314	327	64.4	306	277
1960	196	82.9	34.6	37.2	333	763	121	15.9	13.1	356	152	377	207

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6.69	0.73	0.28	0.21	0.16	0.16	0.10	0.03	0.02	0.02	0.03	0.04	8.47
1952	.03	.08	.14	.13	.77	.63	.22	.10	.11	.11	.16	.74	3.22
1953	.44	.05	.04	.22	.43	.29	2.37	.09	.07	.13	3.22	3.69	11.04
1954	4.59	.36	4.30	1.88	.31	.22	.18	.04	.02	.03	.04	.07	12.04
1955	.07	.02	.06	.14	.26	.06	.05	.02	.02	.92	.13	.58	2.33
1956	.08	.07	.05	.08	.26	.13	.03	.84	.13	.45	.05	.06	2.23
1957	1.63	.29	.07	.06	.06	.25	.40	1.06	4.54	.25	2.48	1.03	12.12
1958	1.30	.10	.25	.69	.78	3.04	3.53	.48	.81	2.63	2.24	.20	16.05
1959	.06	.12	.23	2.05	.86	7.89	1.30	4.94	2.33	2.51	4.49	2.27	25.05
1960	1.51	.62	.27	.29	2.39	5.86	.90	.12	.10	2.73	1.17	2.80	18.76

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	179	16.18
1951	1234	4,300	Oct. 22, 1950	2.0	93.5	0.623	8.47	11.2	1.02
1952	1234	240	Feb. 27, 1952	2.8	35.4	.236	3.22	38.5	5.50
1953	1274	1,930	Aug. 28, 1953	2.0	122	.813	11.04	218	19.76
1954	1334	2,140	Oct. 1, 1953	2.4	133	.887	12.04	32.5	2.94
1955	1384	454	July 18, 1955	1.3	25.6	.171	2.33	26.2	2.38
1956	1434	1,150	May 7, 1956	2.1	24.6	.164	2.23	44.3	4.02
1957	1504	2,750	June 9, 1957	3.0	134	.893	12.12	130	11.78
1958	1554	2,420	Apr. 10, 1958	5.0	177	1.18	16.05	164	14.81
1959	1624	3,200	May 22, 1959	5.0	277	1.65	25.05	299	27.04
1960	1704	2,570	Mar. 19, 1960	5.4	207	1.38	18.76	-	-

a Maximum day.

2310. 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, Baker County.

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

Records available.--October 1926 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 40.00 ft above mean sea level (levels by Mees and 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.--34 years (1926-60), 652 cfs.

Extremes.--1926-60: 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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4,347	661	220	156	134	116	101	35.5	27.3	36.6	55.3	83.1	504
1952	141	286	296	261	768	861	212	73.2	59.3	52.5	62.8	158	268
1953	117	40.9	36.1	78.0	127	85.8	728	78.3	43.7	114	1,294	2,301	419
1954	5,416	512	1,803	1,268	258	165	112	45.7	28.4	31.3	24.9	64.3	636
1955	61.1	32.5	47.0	75.0	146	46.3	38.6	25.3	20.8	164	126	306	90.1
1956	82.8	51.1	37.9	65.7	177	94.7	38.2	343	80.7	245	54.2	81.5	113
1957	827	231	59.7	44.5	37.8	136	261	260	2,642	287	1,285	666	561
1958	1,115	87.5	342	538	542	1,221	2,515	472	278	822	759	114	735
1959	46.1	73.9	826	695	539	4,928	741	1,812	1,086	1,171	517	1,137	1,074
1960	678	399	217	168	1,165	2,639	734	133	251	1,114	750	1,185	786

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6.96	1.02	0.35	0.25	0.19	0.19	0.16	0.06	0.04	0.06	0.09	0.13	9.50
1952	.23	.44	.47	.42	1.15	1.38	.33	.12	.09	.08	.10	.24	5.05
1953	.19	.06	.06	.12	.18	.14	1.13	.13	.07	.18	2.07	3.57	7.90
1954	5.47	.48	2.89	2.03	.37	.26	.17	.07	.04	.05	.04	.10	11.97
1955	.10	.05	.08	.12	.21	.07	.06	.04	.03	.26	.20	.47	1.69
1956	.13	.08	.06	.11	.27	.15	.06	.55	.13	.39	.09	.13	2.15
1957	1.32	.36	.10	.07	.05	.22	.41	.42	4.09	.46	2.06	1.03	10.59
1958	1.79	.14	.55	.86	.78	1.96	3.90	.76	.43	1.32	1.22	.18	13.89
1959	.07	.11	.13	1.11	.78	7.89	1.15	2.90	1.64	1.87	.83	1.76	20.24
1960	1.09	.62	.35	.27	1.75	4.23	1.14	.21	.39	1.78	1.20	1.84	14.87

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	908	17.10
1951	1204	22,600	Oct. 22, 1950	21	504	0.700	9.50	122	2.31
1952	1234	1,810	Feb. 28, 1952	30	268	.372	5.05	223	4.22
1953	1274	55,600	Aug. 29, 1953	24	419	.582	7.90	871	16.43
1954	1334	11,900	Oct. 2, 1953	18	636	.883	11.97	179	3.36
1955	1384	762	Sept. 15, 1955	16	90.1	.125	1.69	92.7	1.73
1956	1434	2,010	May 8, 1956	24	113	.157	2.15	192	3.66
1957	1504	8,420	June 12, 1957	32	561	.779	10.59	598	11.29
1958	1554	8,020	Apr. 12, 1958	46	735	1.02	13.89	621	11.72
1959	1624	10,000	Mar. 18, 1959	36	1,074	1.49	20.24	1,166	21.99
1960	1704	7,770	Mar. 19, 1960	49	786	1.09	14.87	-	-

a Maximum peak discharge; maximum discharge during year, 7,870 cfs Sept. 28, 1953.

2315. 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, Osceola County, and 2 miles downstream from confluence of Crabgrass and Bull Creeks.

Drainage area.--248 sq mi.

Records available.--October 1953 to September 1960.

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

Average discharge.--7 years (1953-60), 395 cfs.

Extremes.--1953-60: Maximum discharge, 18,400 cfs Oct. 17, 1956 (gage height, 10.95 ft), from rating curve extended above 11,000 cfs; no flow for many days in 1955, 1956, and part of June 28, 1958.

Remarks.--Records of chemical analyses for the period September 1954 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	2,752	501	479	176	33.2	41.7	67.8	18.9	1,533	338	345	950	606
1955	888	564	157	113	194	46.9	54.0	.10	848	610	553	1,289	373
1956	298	20.9	7.98	23.6	17.4	.16	0	0	0	49.5	123	231	64.5
1957	2,930	134	8.39	9.10	10.4	86.8	148	268	399	137	426	645	438
1958	357	15.1	32.8	970	295	726	380	89.4	22.8	34.5	41.9	44.5	252
1959	35.1	37.8	13.7	61.4	114	1,084	259	57.8	629	304	139	957	308
1960	1,189	151	33.5	25.6	266	1,729	146	45.4	840	1,452	698	2,124	726

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	12.79	2.26	2.22	0.82	0.14	0.19	0.31	0.09	6.89	1.57	1.60	4.27	33.15
1955	4.13	2.54	.73	.52	.81	.22	.24	.0005	.04	2.84	2.57	5.80	20.44
1956	1.39	.09	.04	.11	.08	.0007	0	0	0	.23	.57	1.04	3.55
1957	13.62	.60	.04	.04	.04	.40	.67	1.25	1.80	.64	1.98	2.90	23.98
1958	1.66	.07	.15	4.51	1.24	3.37	1.71	.42	.10	.16	.20	.20	13.79
1959	.16	.17	.06	.29	.48	5.04	1.17	.27	2.83	1.41	.65	4.31	16.84
1960	5.53	.68	.16	.12	1.16	8.04	.65	.21	3.78	6.75	3.24	9.55	39.87

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1334	6,880	(a)	0.5	606	2.44	33.15	425	23.28
1955	1384	4,580	Sept. 13, 1955	0	373	1.50	20.44	266	14.56
1956	1434	770	Oct. 16, 1955	0	64.5	.260	3.55	297	16.29
1957	1504	18,400	Oct. 17, 1956	2.8	438	1.77	23.98	212	11.60
1958	1554	2,690	Jan. 26, 1958	.1	252	1.02	13.79	225	12.30
1959	1624	4,170	Mar. 21, 1959	5.9	308	1.24	16.84	417	22.82
1960	1704	10,700	Mar. 19, 1960	2.4	726	2.93	39.87	-	-

a About Oct. 9, or 10, 1950.

2320. St. Johns River near Melbourne, Fla.

Location.--Lat 28°05'03", long 80°45'11", in NE¹/₄ 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, Brevard County.

Drainage area.--874 sq mi.

Records available.--October 1939 to September 1960. Monthly discharge only for October 1939, published in WSP 1304.

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.--21 years (1939-60), 822 cfs.

Extremes.--1939-60: Maximum daily discharge, 18,000 cfs Oct. 18, 1956; maximum gage height, 9.66 ft Sept. 30, 1960; maximum reverse flow measured, 109 cfs Sept. 18, 1950, wind effect; minimum gage height, -0.14 ft Aug. 21, 22, 1956.

Remarks.--Records of chemical analyses for the period September 1954 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,137	1,772	835	348	266	180	228	276	177	184	504	539	623
1952	1,829	959	880	238	216	427	357	122	81.9	70.0	118	380	475
1953	3,012	2,614	880	486	516	213	223	97.5	56.7	191	1,146	5,424	1,235
1954	6,377	2,884	2,131	870	343	96.6	45.0	29.0	1,441	1,207	966	970	1,457
1955	2,387	1,043	707	367	508	158	10.0	0	3.3	1,037	614	1,537	700
1956	849	233	110	101	44.1	3.2	0	10.0	0	11.3	19.4	187	131
1957	4,821	2,658	1,301	512	282	321	341	328	704	455	654	1,321	1,182
1958	1,158	441	286	1,044	1,004	863	736	339	153	145	187	150	540
1959	169	151	109	131	316	1,393	1,177	329	783	1,965	1,315	1,418	774
1960	2,495	2,305	807	246	385	2,608	1,734	421	960	2,273	2,652	4,168	1,756

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	*2.82	*2.26	*1.10	*0.46	*0.32	*0.24	*0.29	*0.36	*0.23	*0.24	*0.67	*0.69	*9.68
1952	2.41	1.22	1.16	.31	.27	.56	.48	.16	.10	.09	.15	.48	7.37
1953	3.97	3.34	1.16	.64	.62	.28	.28	.13	.07	.25	1.51	6.92	19.17
1954	8.41	3.68	2.81	1.15	.41	.13	.06	.04	1.84	1.59	1.27	1.24	22.63
1955	3.15	1.33	.93	.48	.60	.21	.01	0	.004	1.37	.81	1.96	10.85
1956	1.12	.30	.14	.13	.05	.004	0	.01	0	.01	.03	.24	2.03
1957	6.36	3.62	1.72	.68	.34	.42	.43	.43	.90	.60	.86	1.69	18.05
1958	1.53	.56	.38	1.38	1.20	1.14	.94	.45	.20	.19	.25	.19	8.41
1959	.22	.19	.14	.17	.38	1.84	1.50	.43	1.00	2.59	1.73	1.81	12.00
1960	3.29	2.94	1.06	.32	.47	3.44	2.21	.56	1.23	3.00	3.50	5.32	27.34

* Runoff in inches not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	*507	*7.87
1951	1204,1504	9,280	Oct. 21, 1950	-	623	*0.713	*9.68	533	8.29
1952	1234,1504	2,740	Oct. 7, 1951	-	475	.543	7.37	710	11.05
1953	1274,1504	7,950	Sept. 19, 1953	-	1,255	1.41	19.17	1,649	25.60
1954	1334,1504	11,300	Oct. 10, 1953	-	1,457	1.67	22.63	846	13.14
1955	1304	3,290	Oct. 3, 1954	-	700	.801	10.85	452	7.00
1956	1434	al,080	Oct. 13, 1955	-	131	.150	2.03	782	12.17
1957	1504	18,000	Oct. 18, 1956	229	1,162	1.33	18.05	568	8.82
1958	1554	1,780	Jan. 29, 30, 1958	-	540	.618	8.41	417	6.49
1959	1624	3,150	Mar. 23, 1959	89	774	.886	12.00	1,208	18.74
1960	1704	8,720	Sept. 26, 1960	131	1,756	2.01	27.34	-	-

* Not previously published.

a Maximum daily discharge for crest occurring during the year; maximum daily discharge, 1,260 cfs Oct. 1, 1955, stage falling.

2322. Wolf Creek near Deer Park, Fla.

Location.--Lat 28°12'55", long 80°54'03", in NE $\frac{1}{4}$ sec.22, T.26 S., R.34 E., near left bank at upstream side of highway bridge, 8.5 miles north of Deer Park, Osceola County.

Drainage area.--26.3 sq mi.

Records available.--January 1956 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 19.35 ft above mean sea level, datum of 1929.

Extremes.--1956-60: Maximum discharge, 7,700 cfs Oct. 16, 1956, from rating curve extended above 1,400 cfs by logarithmic plotting; maximum gage height, 7.99 ft Mar. 17, 1960; no flow for many days in 1956, 1958, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	7.67	3.30	0.19	0.07	0.03	0.16	20.8	24.7	47.4	-
1957	396	4.88	1.55	1.69	2.28	10.3	16.3	28.9	26.7	16.7	95.2	53.5	55.2
1958	38.3	.81	3.66	53.4	15.4	48.8	30.3	7.07	.36	2.51	3.57	18.0	18.6
1959	1.65	3.29	4.91	17.8	17.1	251	75.6	6.58	53.2	28.8	4.03	73.9	43.2
1960	132	6.32	4.55	3.63	22.6	206	4.23	1.25	19.4	118	38.6	376	77.7

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	0.34	0.14	0.008	0.003	0.001	0.007	0.91	1.08	2.01	-
1957	17.35	0.21	0.07	.07	.09	.45	.69	1.27	1.13	.73	4.17	2.27	28.50
1958	1.68	.03	.16	2.34	.61	2.14	1.29	.31	.02	.11	.16	.76	9.61
1959	.07	.14	.22	.78	.68	10.11	3.21	.29	2.26	1.26	.18	3.14	22.34
1960	5.79	.27	.20	.16	.93	9.01	.18	.05	.82	5.19	1.69	15.94	40.23

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Runoff in inches
		Discharge	Date					
1956	1434	a517	Sept. 29, 1956	0	-	-	-	22.13
1957	1504	7,700	Oct. 16, 1956	.3	55.2	2.10	28.50	12.74
1958	1554	332	Jan. 24, 1958	0	18.6	.707	9.61	8.17
1959	1624	1,690	Mar. 20, 1959	.4	43.2	1.64	22.34	28.17
1960	1704	2,700	Mar. 17, 1960	0	77.7	2.95	40.23	-

a Maximum during period January to September.

2324. St. Johns River near Cocoa, Fla.

Location.--Lat 28°22'10", long 80°52'22", in NW¼ sec.25, T.24 S., R.34 E., on downstream side of bridge on State Highway 520, 0.7 mile downstream from outlet of Lake Poinsett and 8.8 miles west of Cocoa, Brevard County.

Drainage area.--1,237 sq mi.

Records available.--October 1953 to September 1960.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to Oct. 1, 1959, staff gage at site 3.7 miles west on north shore of Lake Poinsett at datum 5.06 ft higher.

Average discharge.--7 years (1953-60), 1,431 cfs.

Extremes.--1953-60: Maximum daily discharge, 10,700 cfs Oct. 11, 1953; maximum gage height observed, 16.96 ft Oct. 11, 1953; minimum daily discharge, 35 cfs June 20, 1956; minimum gage height observed, 8.34 ft June 20, 1956.

Remarks.--Records include inflow from Taylor Creek. Records of chemical analyses and water temperatures for the period December 1952 to September 1960 and specific conductance for the period September 1959 to September 1960, are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	8,873	4,164	2,697	1,542	850	415	216	157	1,488	2,270	1,820	1,522	2,182
1955	2,488	1,928	1,398	929	766	465	265	180	152	680	1,213	1,776	1,022
1956	2,082	1,350	573	291	254	163	109	73.3	48.4	118	111	227	451
1957	4,095	5,851	1,719	1,054	612	545	800	629	700	875	1,369	2,613	1,559
1958	2,859	1,443	823	1,360	1,821	1,728	1,834	1,093	598	339	317	540	1,192
1959	400	376	286	410	602	2,010	2,183	1,114	693	1,654	1,923	1,869	1,146
1960	2,956	2,887	1,650	831	678	3,323	2,857	1,274	1,064	2,851	4,081	5,046	2,462

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	8.27	3.76	2.51	1.44	0.72	0.39	0.19	0.15	1.34	2.12	1.70	1.37	23.96
1955	2.32	1.74	1.30	.87	.64	.43	.24	.17	.14	.63	1.13	1.60	11.21
1956	1.94	1.22	.53	.27	.22	.15	.10	.07	.04	.11	.10	.20	4.95
1957	3.82	3.46	1.60	.98	.52	.51	.54	.59	.63	.82	1.29	2.36	17.12
1958	2.48	1.30	.77	1.27	1.53	1.61	1.47	1.02	.54	.32	.30	.49	13.10
1959	.37	.34	.27	.38	.51	1.87	1.97	1.04	.62	1.73	1.79	1.69	12.58
1960	2.75	2.60	1.54	.77	.59	3.10	2.58	1.19	.96	2.66	3.80	4.55	27.09

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Maximum day		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1704	10,700	Oct. 11, 1953	128	2,182	1.76	23.96	1,346	14.78
1955	1704	3,120	Oct. 15, 1954	127	1,022	.826	11.21	870	9.54
1956	1704	2,320	Oct. 14, 1955	35	451	.365	4.95	922	10.14
1957	1704	8,440	Oct. 24, 1956	412	1,559	1.26	17.12	1,164	12.79
1958	1704	3,630	Oct. 4, 1957	265	1,192	.964	13.10	867	9.53
1959	1704	3,960	Mar. 22, 1959	239	1,146	.926	12.58	1,686	18.49
1960	1704	a9,990	Sept. 25, 1960	554	2,462	1.99	27.09	-	-

a Momentary maximum.

2325. St. Johns River near Christmas, Fla.

Location.--Lat 28°32'35", long 80°56'40", in SW $\frac{1}{4}$ sec.29, T.22 S., R.34 E., on left bank about 15 ft downstream from bridge on State Highway 50, 2 miles upstream from Lake Cone and Tootoosahatchee Creek, and 4.5 miles east of Christmas, Orange County.

Drainage area.--1,418 sq mi.

Records available.--October 1933 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--27 years (1933-60), 1,429 cfs.

Extremes.--1933-60: Maximum discharge, 11,700 cfs Oct. 12, 1953; maximum gage height, 10.81 ft Sept. 28, 1960; no flow Mar. 22-27, Apr. 19, June 12, 13, 1939; minimum gage height, 0.48 ft June 19, 1945.

Remarks.--Records include small inflow from Tootoosahatchee Creek at high stages and do not include diversions through Ellis Canal from St. Johns River Marsh into Indian River. Records of chemical analyses for the period October 1954 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,127	3,273	1,614	893	706	374	230	340	302	468	780	1,454	1,047
1952	3,292	2,191	1,679	976	660	856	899	360	196	123	267	615	1,012
1953	3,409	3,890	1,806	1,059	861	596	1,119	435	221	389	2,332	8,062	2,010
1954	10,130	4,830	3,223	1,927	988	508	303	187	2,271	2,618	2,080	1,569	2,569
1955	2,512	2,228	1,561	993	808	549	351	199	223	764	1,002	1,800	1,084
1956	2,137	1,290	639	374	326	170	93.9	62.9	33.4	102	107	831	514
1957	5,104	4,928	2,165	1,146	641	621	739	811	864	979	1,757	3,262	1,923
1958	2,862	1,481	906	1,538	2,164	2,547	2,315	1,025	467	322	344	498	1,368
1959	432	568	328	687	710	2,462	2,948	1,543	1,090	1,765	1,823	2,272	1,388
1960	2,971	3,088	2,110	1,143	928	4,739	4,072	1,454	1,122	2,829	4,558	6,693	2,978

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	*1.73	*2.58	*1.31	*0.73	*0.52	*0.30	*0.18	*0.28	*0.24	*0.38	*0.63	*1.14	*10.02
1952	2.68	1.72	1.37	.79	.50	.70	.71	.29	.15	.10	.22	.48	9.71
1953	2.77	3.06	1.47	.86	.63	.48	.86	.35	.17	.32	1.90	6.34	19.23
1954	6.24	3.80	2.62	1.57	.73	.41	.24	.15	1.79	2.13	1.69	1.23	24.60
1955	2.04	1.75	1.27	.81	.59	.45	.28	.16	.18	.62	.81	1.42	10.38
1956	1.74	1.02	.52	.30	.25	.14	.07	.05	.03	.08	.09	.65	4.94
1957	4.15	3.88	1.76	.93	.47	.51	.58	.66	.68	.80	1.43	2.57	18.42
1958	2.33	1.17	.74	1.25	1.59	2.07	1.82	.83	.37	.26	.28	.39	13.10
1959	.35	.45	.27	.56	.52	2.00	2.32	1.25	.86	1.43	1.48	1.79	13.28
1960	2.42	2.43	1.72	.93	.71	3.85	3.20	1.18	.88	2.30	3.71	5.27	28.60

* Runoff not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	*814	*7.78
1951	1204	4,910	Oct. 20-25, 1950	88	1,047	*0.738	*10.02	1,062	10.17
1952	1234	4,850	(a)	106	1,012	.714	9.71	1,172	11.24
1953	1274	10,100	Sept. 29, 1953	198	2,010	1.42	19.23	2,779	26.59
1954	1354	11,700	Oct. 12, 1953	130	2,569	1.81	24.60	1,567	15.00
1955	1384	3,000	Oct. 14, 1954	126	1,084	.764	10.38	897	8.60
1956	1434	2,510	Sept. 10, 1956	25	514	.362	4.94	1,193	11.45
1957	1504	10,200	Oct. 18, 1956	434	1,923	1.36	18.42	1,342	12.87
1958	1554	4,010	Oct. 5, 1957	218	1,368	.965	13.10	1,037	9.93
1959	1624	4,980	Mar. 23, 1959	170	1,388	.979	13.28	1,962	18.78
1960	1704	11,000	Sept. 28, 1960	780	2,978	2.10	28.60	-	-

* Not previously published.

a About Oct. 6, 1951.

2332. Little Econlockhatchee River near Union Park, Fla.

Location.--Lat 28°31'29", long 81°14'39", near west end of line between sec.32, T.22 S., R.31 E., and sec.5, T.23 S., R.31 E., near right bank on downstream side of bridge on county road, 3,300 ft upstream from a tributary, 3 miles south of Union Park, Orange County, 8.5 miles east of Orlando, and 12 miles upstream from mouth.

Drainage area.--27.1 sq mi.

Records available.--October 1959 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 56.19 ft above mean sea level, datum of 1929. Prior to Jan. 12, 1960, staff gage at same site and datum.

Extremes.--1959-60: Maximum discharge, 1,640 cfs Mar. 17, 1960 (gage height, 11.64 ft); minimum, 0.2 cfs May 26, 1960 (gage height, 4.99 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	73.2	7.46	4.34	3.72	17.9	193	6.84	0.90	7.36	139	43.3	171	56.0

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	3.11	0.31	0.18	0.16	0.71	8.19	0.28	0.04	0.30	5.92	1.84	7.03	28.07

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1960	1704	1,640	Mar. 17, 1960	0.3	56.0	2.07	28.07	-	-

2335. Econlockhatchee River near Chuluota, Fla.

Location.--Lat 28°40'40", long 81°06'50", in sec.10, T.21 S., R.32 E., on right bank 10 ft downstream from bridge on State Highway 13, 2.6 miles northeast of Chuluota, Seminole County, and 10 miles upstream from mouth.

Drainage area.--260 sq mi, approximately.

Records available.--October 1935 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 2.14 ft above mean sea level (Corps of Engineers bench mark). 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.--25 years (1935-60), 286 cfs.

Extremes.--1935-60: Maximum discharge, 11,000 cfs Mar. 18, 1960 (gage height, 18.69 ft, from floodmark); minimum, 6.7 cfs June 11-13, 15, 1945; minimum gage height, 0.44 ft June 15-17, 1945.

Maximum stage known since at least 1928, that of Mar. 18, 1960.

Remarks.--Records include some flow diverted from Lake Mary Jane in Lake Okeechobee and the Everglades basin through Disston Canal (formerly known as Econlockhatchee Headwaters Canal). Records of chemical analyses for the period November 1954 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,228	177	202	107	165	37.2	75.8	34.1	28.9	493	493	527	299
1952	610	356	170	92.5	216	384	190	53.8	38.9	51.7	86.7	246	208
1953	863	236	65.3	60.7	131	155	379	69.1	43.1	155	1,087	1,908	429
1954	957	395	495	193	60.6	44.0	39.9	27.5	514	211	122	103	265
1955	321	212	84.0	69.3	70.5	35.9	33.3	24.6	22.2	100	285	609	156
1956	259	93.0	66.8	70.7	72.1	24.1	19.7	21.2	23.9	46.9	100	656	121
1957	1,668	200	52.8	40.4	35.9	88.8	150	258	301	207	674	988	391
1958	377	47.5	86.8	329	185	802	400	119	33.4	359	249	77.9	256
1959	756	297	78.4	268	197	1,190	450	143	591	351	334	984	413
1960	782	197	101	78.7	244	1,901	240	45.4	189	2,082	826	2,182	742

Monthly and yearly runoff, in inches, of Econlockhatchee River near Chuluota, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	5.45	0.76	0.89	0.47	0.66	0.17	0.33	0.15	0.12	2.18	2.18	2.26	15.62
1952	2.70	1.53	.75	.41	.90	1.70	.82	.24	.17	.23	.38	1.05	10.88
1953	3.83	1.01	.28	.27	.53	.69	1.63	.31	.19	.68	4.82	8.19	22.43
1954	4.24	1.69	2.19	.86	.24	.20	.14	.12	2.20	.94	.54	.44	13.80
1955	1.43	.91	.57	.31	.28	.16	.14	.11	.10	.44	1.26	2.61	8.12
1956	1.15	.40	.30	.31	.30	.11	.08	.09	.10	.21	.44	2.81	6.30
1957	7.40	.86	.23	.18	.14	.39	.64	1.14	1.29	.92	2.99	4.24	20.42
1958	1.67	.20	.30	1.46	.74	3.56	1.72	.53	.14	1.59	1.10	.33	13.34
1959	.34	1.27	.35	1.19	.79	5.28	1.93	.63	2.54	1.56	1.48	4.22	21.58
1960	3.47	.84	.45	.35	1.01	8.43	1.03	.20	.81	9.23	3.66	9.36	38.84

Yearly* discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	191	9.99
1951	1204	7,350	Oct. 20, 1950	18	299	1.15	15.62	259	13.50
1952	1234	2,000	Oct. 5, 1951	30	208	1.800	10.88	211	11.02
1953	1274	4,080	Sept. 6, 1953	31	429	1.65	22.43	487	25.43
1954	1334	1,970	Oct. 12, 1953	20	265	1.02	13.80	161	8.39
1955	1384	1,350	Sept. 13, 1955	17	156	.600	8.12	139	7.26
1956	1434	2,250	Sept. 12, 1956	14	121	.465	6.30	247	12.94
1957	1504	8,850	Oct. 18, 1956	28	391	1.50	20.42	270	14.10
1958	1554	2,360	Mar. 6, 1958	22	256	.985	13.34	252	13.13
1959	1624	4,290	Mar. 22, 1959	39	413	1.59	21.58	467	24.38
1960	1704	11,000	Mar. 18, 1960	34	742	2.85	38.84	-	-

2350. 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, Seminole County.

Records available.--October 1931 to September 1935 (discharge measurements only), October 1935 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 4.68 ft (corrected) above mean sea level, datum of 1929. Prior to Nov. 6, 1935, reference point at same site. Nov. 6, 1935, to Jan. 18, 1960, staff gage at same site and datum.

Average discharge.--25 years (1935-60), 273 cfs.

Extremes.--1935-60: Maximum discharge observed, 2,060 cfs Sept. 17, 1945; maximum gage height, 6.09 ft Sept. 12, 1960; minimum discharge observed, 105 cfs June 5-13, 1939; minimum gage height, 2.28 ft Sept. 19-23, 27-30, Oct. 1, 2, 14-17, 1958.

Remarks.--Flow includes large ground-water inflow.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	423	280	262	237	270	207	190	182	190	280	249	265	253
1952	296	251	247	227	260	251	225	224	211	221	210	210	236
1953	411	240	220	239	263	275	269	214	248	313	468	523	307
1954	438	301	418	310	257	233	235	216	210	204	239	275	278
1955	333	224	221	231	239	201	216	205	203	284	234	234	236
1956	221	223	201	238	235	195	195	197	194	211	221	201	211
1957	309	238	220	200	188	228	220	297	317	244	328	415	267
1958	283	232	233	329	296	487	303	272	258	273	294	208	289
1959	256	341	243	350	264	594	392	301	321	368	358	417	351
1960	360	287	304	298	434	681	360	278	238	653	530	1,030	454

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	245	-
1951	1204	a1,610	Oct. 19, 1950	172	253	-	-	239	-
1952	1234	551	Oct. 3, 1951	196	236	-	-	243	-
1953	1274	b1,100	Aug. 29, 1953	196	307	-	-	331	-
1954	1334	a640	Oct. 9, 1953	188	278	-	-	246	-
1955	1384	a952	Oct. 10, 1954	185	236	-	-	224	-
1956	1434	a347	Jan. 24, 25, 1956	177	211	-	-	221	-
1957	1504	a748	May 19, Aug. 24	179	267	-	-	266	-
1958	1554	a920	Mar. 3, 1958	196	289	-	-	297	-
1959	1624	a1,280	Mar. 20, 1959	192	351	-	-	360	-
1960	1704	1,950	Mar. 18, 1960	202	454	-	-	-	-

a Maximum observed.

b Maximum daily.

2360. St. Johns River near De Land, Fla.

Location.--Lat 29°01', long 81°23', T.17 S., R.29 E., on left bank about 3,000 ft downstream from Francis P. Whitehair Bridge on State Highway 44 and 5 miles west of De Land, Volusia County.

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

Records available.--October 1933 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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 site of former Crows Bluff Bridge about 1,000 ft upstream at same datum. Auxiliary water-stage recorder at St. Francis Landing, 4½ miles downstream from Whitehair Bridge. Since Oct. 1, 1959, additional auxiliary water-stage recorder at outlet of Lake Monroe near Sanford, 21.3 miles upstream from Whitehair Bridge. Prior to Jan. 16, 1943, an additional auxiliary water-stage recorder 1 mile upstream from Whitehair Bridge.

Average discharge.--27 years (1933-60), 3,318 cfs.

Extremes.--1933-60: Maximum daily discharge, 17,100 cfs Oct. 15, 1953; maximum gage height, 7.17 ft Oct. 11, 12, 1953; maximum daily reverse flow, 3,030 cfs Aug. 23, 1957; minimum gage height known since at least May 28, 1936, 0.52 ft Apr. 2, 1945.

Remarks.--Flow occasionally reversed as result of tide and wind effect.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4,628	8,632	4,956	2,445	2,052	1,273	1,100	1,252	1,033	1,506	2,102	2,696	2,806
1952	6,232	5,040	4,371	2,779	2,117	2,873	2,396	1,148	1,114	908	1,073	2,150	2,687
1953	4,702	7,688	4,624	2,491	2,055	1,931	3,937	2,306	1,193	1,590	3,476	11,180	3,907
1954	15,800	10,680	8,251	6,223	3,270	1,866	1,342	1,009	2,582	5,873	4,083	2,445	5,143
1955	3,819	4,127	3,839	2,575	2,291	1,695	1,595	1,400	1,140	1,932	1,994	2,798	2,402
1956	3,341	2,997	1,944	1,997	1,993	785	890	700	1,060	1,180	1,147	2,163	1,680
1957	4,557	8,911	5,419	2,716	1,403	2,111	2,553	2,484	2,530	2,405	2,722	7,108	3,729
1958	6,073	3,944	2,428	2,538	4,013	5,640	4,967	2,528	465	2,378	1,895	405	3,106
1959	980	3,318	1,852	3,301	2,344	4,587	7,986	4,996	3,678	4,738	4,673	4,654	3,928
1960	6,412	6,120	5,111	3,692	3,587	6,826	9,811	4,445	2,623	6,204	10,280	12,060	6,433

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.80	3.25	1.93	0.95	0.72	0.50	0.41	0.49	0.39	0.59	0.82	1.02	12.87
1952	2.43	1.90	1.70	1.08	.77	1.12	.90	.45	.42	.35	.42	.81	12.35
1953	1.83	2.90	1.80	.97	.72	.75	1.48	.90	.45	.54	1.35	4.21	17.90
1954	6.15	4.02	3.21	2.42	1.15	.73	.51	.39	.97	1.51	1.59	.92	23.57
1955	1.49	1.56	1.50	.92	.81	.66	.53	.55	.43	.75	.78	1.05	11.03
1956	1.30	1.13	.76	.78	.73	.31	.34	.27	.40	.46	.45	.82	7.75
1957	1.77	3.36	2.11	1.06	.49	.82	.89	.97	.95	.94	1.06	2.68	17.10
1958	2.37	1.49	.95	.99	1.41	2.20	1.87	.98	.18	.93	.74	.15	14.26
1959	3.58	1.25	.72	1.29	.82	1.79	3.01	1.95	1.39	1.85	1.82	1.75	18.02
1960	2.50	2.31	1.99	1.44	1.31	2.66	3.70	1.73	.99	2.42	4.00	4.54	29.59

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	2,654	12.17
1951	1204	10,800	Nov. 4, 1950	-	2,806	0.948	12.87	2,598	11.92
1952	1234	a7,500	Oct. 6-10, 1951	620	2,687	.908	12.35	2,795	12.85
1953	1274	b8,560	Nov. 10, 1952	658	3,907	1.32	17.90	5,403	24.75
1954	1334	17,100	Oct. 15, 1953	-	5,143	1.74	23.57	3,212	14.74
1955	1384	5,360	Nov. 29, 1954	c-1,630	2,402	.811	11.03	2,107	9.67
1956	1434	3,690	Oct. 30, 1955	-1,440	1,680	.568	7.75	2,562	11.80
1957	1504	9,910	Nov. 2, 1956	-3,030	3,729	1.26	17.10	3,196	14.67
1958	1554	6,650	Oct. 4, 1957	-5,020	3,106	1.05	14.26	2,573	11.80
1959	1624	9,060	Apr. 8, 1959	-1,620	3,928	1.33	18.02	4,896	22.47
1960	1704	d13,000	Mar. 27-29, 1960	60	6,433	2.17	29.59	-	-

a Estimated average for 5-day period.

b Maximum daily discharge for flood event whose crest occurred in the water year indicated. A higher daily discharge (13,700 cfs) occurred Sept. 30, 1953, on a rising stage that crested in the succeeding water year.

c Maximum reverse flow measured.

d Maximum daily discharge for flood event whose crest occurred in the water year indicated. A higher daily discharge (15,000 cfs) occurred Sept. 21, 30, during a flood whose crest occurred Oct. 16, 1960.

Note.--Negative figures indicate reverse flow.

2365. Big Creek near Clermont, Fla.

Location.--Lat 28°26'51", long 81°44'25", in NE $\frac{1}{4}$ sec.31, T.23 S., R.26 E., near left bank 40 ft downstream from log bridge, 1 mile upstream from Lake Louisa, and 7 $\frac{1}{2}$ miles south-east of Clermont, Lake County.

Drainage area.--68 sq mi, approximately (revised).

Records available.--July 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 98.97 ft above mean sea level, unadjusted.

Extremes.--1958-60: Maximum discharge, 691 cfs Sept. 13, 1960 (gage height, 6.23 ft); minimum, 1.2 cfs Oct. 2, 3, 1958 (gage height, 1.63 ft).

Remarks.--Some interconnection at high stages with Little Creek and Withlacoochee River basin.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	4.13	6.93	-
1959	20.7	33.2	11.8	62.9	31.6	128	168	72.2	63.8	205	152	133	90.5
1960	152	112	58.6	43.5	53.7	268	200	62.3	37.3	54.5	190	413	137

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	0.07	0.11	-
1959	0.35	0.54	0.20	1.07	0.48	2.17	2.76	1.22	1.05	3.47	2.57	2.18	18.06
1960	2.58	1.83	.99	.74	.85	4.54	3.29	1.06	.61	.92	3.21	6.78	27.40

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1958	1624	a16	Sept. 11, 1958	-	-	-	-	-	-
1959	1624	283	July 12, 1959	1.2	90.5	1.33	18.06	112	22.37
1960	1704	691	Sept. 13, 1960	22	137	2.01	27.40	-	-

a Maximum during period July to September.

2366. Little Creek at Cooper's Ranch, near Clermont, Fla.

Location.--Lat 28°25'50", long 81°47'43", in NW $\frac{1}{4}$ sec.3, T.24 S., R.25 E., on left bank 16 ft downstream from bridge on private road at Cooper's Ranch, 4 miles upstream from Lake Louisa, and 8 miles south of Clermont, Lake County.

Records available.--June to September 1960.

Gage.--Water-stage recorder. Datum of gage is 100.83 ft above mean sea level, unadjusted.

Extremes.--1960: Maximum discharge, 400 cfs Sept. 11, 1960 (gage height, 7.03 ft); minimum daily, 2.0 cfs June 1, 1960; minimum gage height, 4.38 ft (estimated) June 1, 1960.

Remarks.--Some interconnection at high stages with Big Creek and Withlacoochee River basin. Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	6.48	32.2	53.6	141	-

Monthly and yearly runoff, in inches, of Palatka Creek near Mascotte, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.26	1.23	1.02	1.02	0.78	0.60	0.38	0.25	0.13	0.19	0.38	0.42	7.66
1952	.75	.65	1.08	1.12	.85	.94	.73	.47	.39	.41	.28	.19	7.85
1953	.32	.33	.29	.36	.31	.31	.42	.48	.37	.34	.65	1.64	5.82
1954	2.62	2.30	2.37	2.25	1.47	1.09	.61	.23	.12	.13	.20	.13	13.52
1955	.12	.10	.11	.07	.06	.04	.04	.02	.01	.02	.02	.15	.76
1956	.33	.48	.73	.41	.27	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	77.9	6.61	
1951	1204	222	Oct. 21, 1950	18	90.3	0.564	7.66	78.3	6.64	
1952	1234	206	Dec. 27, 1951	23	92.1	.576	7.85	73.9	6.30	
1953	1274	a74	May 7, 8-12	26	68.6	.429	5.82	143	12.17	
1954	1334	372	Oct. 10,11,12	14	159	.994	13.52	77.2	6.56	
1955	1384	37	Sept. 28, 29, 30	.7	8.82	.055	.76	23.0	1.97	
1956	1434	b117	Dec. 9, 1955	-	-	-	-	-	-	
1957	-	-	-	-	-	-	-	-	-	
1958	-	-	-	-	-	-	-	-	-	
1959	-	-	-	-	-	-	-	-	-	
1960	-	-	-	-	-	-	-	-	-	

a Maximum peak discharge; maximum discharge during year, 364 cfs Sept. 30, 1953, stage rising.

b Maximum during period October to March.

2377. Apopka-Beauclair Canal near Astatula, Fla.

Location.--Lat 28°43'40", long 81°41'00", in NW¼ sec. 26, T. 20 S., R. 26 E., near left bank 80 ft upstream from lock and dam, 700 ft upstream from bridge on county road, and 2½ miles east of Astatula, Lake County.

Drainage area.--180 sq mi, approximately.

Records available.--July 1942 to June 1948 (discharge measurements only at site 1.5 miles downstream), July 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. July 1942 to June 1948, staff gage at site 1.5 miles downstream at datum 60.68 ft higher. March to June 1958, staff gage at present site and datum. Since July 1958, auxiliary water-stage recorder at downstream side of lock and dam.

Extremes.--1958-60: Maximum daily discharge, 754 cfs Mar. 19, 1960; maximum gage height, 68.29 ft Sept. 25, 1960, affected by wind; lock and dam closed and flow consists of leakage and lockage (estimated as 5 cfs) July 1 to Oct. 7, Oct. 9 to Nov. 4, 1958; minimum gage height, 65.66 ft July 16, 1958, affected by wind.

Remarks.--Flow regulated at station by manipulation of radial gates in spillway by Lake Apopka Recreation and Water Conservation Control Authority.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	5.6	71.5	93.2	133	177	143	299	316	278	230	165	166	173
1960	151	111	124	173	246	422	377	200	114	172	267	320	223

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	0.03	0.03	0.03	-
1959	0.04	0.44	0.60	0.85	1.02	0.91	1.85	2.03	1.73	1.47	1.06	1.03	13.03
1960	.97	.69	.79	1.11	1.48	2.70	2.34	1.28	.71	1.10	1.71	1.99	16.87

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Maximum day		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1959	1624	478	Apr. 22, 1959	-	173	0.961	13.03	191	14.40	
1960	1704	754	Mar. 19, 1960	92	223	1.24	16.87	-	-	

ST. JOHNS RIVER BASIN

2380. Haines Creek at Lisbon, Fla.

Location.--Lat 28°52'20", long 81°46'50", in sec. 2, T.19 S., R.25 E., on left bank at upstream side of Burrell lock and dam, 1,000 ft upstream from bridge on State Highway 44, a quarter of a mile south of Lisbon, Lake County, and 7 miles northeast of Leesburg.

Drainage area.--640 sq mi, approximately.

Records available.--July 1942 to September 1960.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to Aug. 22, 1956, staff gage at site 1,000 ft downstream at datum 58.93 ft higher and Aug. 22, 1956, to Mar. 5, 1957, at present datum. Mar. 6 to Oct. 8, 1957, staff gage at present site and datum. Mar. 6 to Oct. 8, 1957, auxiliary staff gage and since Oct. 9, 1957, auxiliary water-stage recorder at downstream side of lock and dam.

Extremes.--1942-60: Maximum daily discharge, 1,330 cfs Mar. 13, 14, 16, 1958; maximum gage height, 64.50 ft Apr. 5, 7, 8, 1960; no flow Sept. 21 to Dec. 22, 1956, caused by temporary cofferdam at station; minimum gage height, 56.84 ft Jan. 20, 1957 (former site, present datum).

Maximum stage known, about 65.3 ft in 1926, former site, present datum, from information by local residents.

Remarks.--Flow regulated at station by manipulation of radial gates in spillway by Oklawaha Basin Recreation and Water Conservation and Control Authority. Lock-filling tubes are occasionally used to discharge water.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	296	344	341	369	366	323	285	199	164	196	199	193	271
1952	213	213	226	246	277	332	360	285	256	247	208	187	254
1953	232	234	216	210	262	254	301	280	242	246	328	481	273
1954	609	619	717	791	708	618	497	394	339	314	295	266	513
1955	283	268	261	252	250	227	218	176	140	144	140	140	208
1956	136	150	156	175	230	207	164	167	135	132	101	53.1	150
1957	0	0	5.8	20.3	23.6	18.9	14.2	14.0	14.0	14.2	69.2	341	44.3
1958	250	68.5	29.9	168	237	1,010	892	987	381	302	386	139	406
1959	101	104	85.8	276	562	628	886	1,002	939	887	864	892	601
1960	856	652	687	478	709	898	1,122	1,191	1,073	1,008	1,057	995	892

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.53	0.60	0.61	0.66	0.59	0.58	0.46	0.36	0.29	0.35	0.36	0.34	5.73
1952	.38	.37	.41	.44	.47	.60	.63	.51	.45	.44	.38	.33	5.41
1953	.42	.41	.39	.38	.43	.46	.52	.50	.42	.44	.59	.84	5.80
1954	1.10	1.08	1.29	1.42	1.15	1.11	.87	.71	.59	.57	.53	.46	10.88
1955	.51	.47	.47	.45	.41	.41	.38	.32	.24	.26	.25	.24	4.41
1956	.24	.26	.28	.31	.39	.37	.29	.30	.24	.24	.18	.09	3.19
1957	0	0	.01	.04	.04	.03	.02	.03	.02	.03	.12	.60	.94
1958	.45	.12	.05	.30	.39	1.82	1.56	1.78	.66	.54	.69	.24	8.60
1959	.18	.18	.15	.50	.92	1.13	1.55	1.80	1.64	1.60	1.56	1.55	12.76
1960	1.51	1.14	1.24	.86	1.19	1.62	1.96	2.14	1.87	1.81	1.90	1.73	18.97

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	278	5.89
1951	1204	382	Feb. 7, 1951	158	271	0.423	5.73	243	5.15
1952	1234	400	(a)	176	254	.397	5.41	256	5.47
1953	1274	568	Sept. 30, 1953	193	273	.427	5.80	380	8.05
1954	1334	819	Jan. 3, 4, 5, 1954	254	513	.802	10.88	418	8.86
1955	1384	308	Oct. 9, 1954	126	208	.325	4.41	177	3.74
1956	1434	239	Feb. 11, 12, 1956	0	150	.234	3.19	114	2.42
1957	1504	1,010	Sept. 8, 1957	0	44.3	.069	.94	73.2	1.55
1958	1554	1,330	Mar. 13, 14, 16	28	406	.634	8.60	401	8.49
1959	1624	1,050	May 24, 1959	71	601	.939	12.76	760	16.14
1960	1704	1,280	May 14, 1960	301	892	1.39	18.97	-	-

a Mar. 31 to Apr. 2, 1952.

Note.--Flow closed off for construction of lock and dam structure Sept. 21 to Dec. 22, 1956.

2385. 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, 50 ft upstream from bridge on State Highway 464, 600 ft downstream from powerplant, and 0.4 mile southwest of Moss Bluff, Marion County.

Drainage area.--910 sq mi, approximately.

Records available.--February to September 1943 (discharge measurements only), October 1943 to September 1955.

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

Average discharge.--12 years (1943-55), 385 cfs.

Extremes.--1943-55: Maximum discharge, 1,060 cfs Jan. 11, 12, 1954; maximum gage height, 49.49 ft Jan. 11, 1954; minimum discharge, 24 cfs June 27, 29, 30, July 7, 8, 12, 13, 14, 1955; minimum gage height, 40.75 ft June 27, 1955.

Maximum stage known, 50.83 ft Sept. 12, 1960, from Corps of Engineers records (discharge, 1,630 cfs).

Remarks.--Records include flow of old Oklawaha River channel. Flow regulated by powerplant above station. Normal limits of regulation of reservoir insufficient to affect monthly figures of runoff.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	344	330	349	432	439	383	307	253	224	275	283	247	322
1952	260	258	241	238	368	428	407	306	306	293	243	235	298
1953	324	304	255	261	324	263	297	261	317	319	418	634	331
1954	760	785	883	1,017	857	795	577	445	394	401	365	289	630
1955	327	238	235	215	330	235	245	190	158	87.5	164	184	217

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.44	0.40	0.44	0.55	0.50	0.49	0.38	0.32	0.27	0.35	0.36	0.30	4.80
1952	.33	.32	.30	.30	.44	.54	.50	.39	.37	.37	.31	.29	4.46
1953	.41	.37	.32	.33	.37	.33	.36	.33	.39	.40	.53	.78	4.92
1954	.96	.96	1.12	1.29	.98	1.01	.71	.56	.48	.51	.46	.35	9.39
1955	.41	.29	.30	.27	.38	.30	.30	.24	.19	.11	.21	.23	3.23

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	320	4.78
1951	1204	796	Oct. 19, 1950	157	322	0.354	4.80	299	4.47
1952	1234	731	Feb. 17, 1952	190	298	.327	4.46	308	4.61
1953	1274	784	Sept. 27, 1953	138	331	.364	4.92	461	6.86
1954	1334	1,060	Jan. 11, 1954	243	630	.692	9.39	493	7.35
1955	1384	613	Aug. 13, 1955	24	217	.238	3.23	-	-

2390. Oklawaha River near Ocala, Fla.

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

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

Records available.--February 1930 to September 1960.

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 bench mark). Prior to Mar. 2, 1932, staff gage at same site and datum.

Average discharge.--30 years (1930-60), 437 cfs.

Extremes.--1930-60: Maximum discharge, 2,270 cfs Mar. 18, 1960 (gage height, 5.68 ft); minimum, 12 cfs Mar. 4, 1957; minimum gage height, -2.43 ft Mar. 19, 20, 1957.

Remarks.--Flow regulated by powerplant at Moss Bluff, 12 miles above station. Normal limits of regulation of reservoir insufficient to affect monthly figures of runoff. Large seepage losses above station during prolonged periods of low flow.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	520	354	359	474	467	386	316	252	229	254	266	272	345
1952	248	296	282	253	485	488	446	322	288	272	265	294	327
1953	349	252	239	257	337	281	367	290	360	396	648	827	383
1954	855	815	1,023	1,096	893	819	578	434	385	394	376	300	664
1955	359	272	257	228	540	250	245	181	157	98.9	175	228	232
1956	88.1	61.0	67.8	169	290	140	66.8	221	115	112	117	98.5	128
1957	130	59.6	58.1	46.2	29.0	34.3	43.0	48.1	60.3	70.9	231	316	94.1
1958	367	204	193	248	227	1,012	1,232	1,224	802	462	488	256	562
1959	245	259	118	413	611	1,012	1,265	1,148	1,199	1,249	1,276	1,317	843
1960	1,323	1,143	1,018	910	909	1,426	1,603	1,474	1,470	1,440	1,657	1,725	1,342

Monthly and yearly runoff, in inches, of Oklawaha River near Ocala, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.54	0.36	0.38	0.50	0.44	0.40	0.32	0.26	0.23	0.27	0.28	0.28	4.26
1952	.26	.30	.30	.27	.48	.51	.45	.54	.29	.28	.28	.30	4.06
1953	.37	.26	.25	.32	.29	.37	.30	.37	.42	.68	.84	.84	4.74
1954	.90	.83	1.07	1.15	.85	.86	.59	.46	.39	.41	.39	.30	8.20
1955	.38	.28	.27	.24	.32	.26	.25	.19	.16	.10	.18	.23	2.86
1956	.09	.06	.07	.18	.28	.15	.07	.23	.12	.12	.12	.10	1.59
1957	.14	.06	.06	.05	.03	.04	.04	.05	.06	.07	.24	.32	1.15
1958	.38	.21	.20	.26	.21	1.06	1.25	1.28	.81	.48	.51	.26	6.91
1959	.26	.26	.12	.43	.58	1.06	1.28	1.20	1.22	1.31	1.34	1.54	10.40
1960	1.39	1.16	1.07	.95	.89	1.49	1.63	1.55	1.49	1.51	1.74	1.75	16.62

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	359	4.43
1951	-	1,220	Oct. 19, 1950	216	345	0.514	4.26	311	5.84
1952	1234	968	Feb. 18, 1952	209	327	.297	4.06	329	4.08
1953	1274	1,220	Aug. 27, 1953	206	383	.348	4.74	559	6.66
1954	1334	1,470	Dec. 24, 1953	251	664	.604	8.20	512	6.33
1955	1384	673	Oct. 9, 1954	39	232	.211	2.86	175	2.15
1956	1434	359	Feb. 7, 1956	22	128	.116	1.59	131	1.63
1957	1504	490	Sept. 17, 1957	12	94.1	.086	1.16	138	1.69
1958	1554	1,360	Apr. 24, 1958	179	562	.511	6.91	549	6.76
1959	1624	1,740	Mar. 20, 1959	78	943	.766	10.40	1,084	13.58
1960	1704	2,270	Mar. 18, 1960	672	1,342	1.22	16.62	-	-

a Maximum daily.

2395. Silver Springs near Ocala, Fla.

Location (revised).--Discharge measurement site at lat 29°12', long 82°01', in NE¼ sec. 8, T.15 S., R.23 E., 2½ miles downstream from head of springs, and 7 miles northeast of Ocala, Marion County.

Records available.--January to December 1907 (gage heights only), October 1932 to September 1947 (monthly discharge only), October 1947 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder on Sharpes Ferry 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 bench mark). 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, staff gage at same site and datum.

Average discharge.--28 years (1932-60), 813 cfs.

Extremes.--1932-60: Maximum daily discharge, 1,280 cfs Sept. 25-30, 1960; maximum gage height observed at head of springs, 5.50 ft Sept. 6, 1933; minimum daily discharge, 539 cfs May 7, 1957; minimum gage height at head of springs, -0.99 ft June 22, 23, 1956.

Remarks.--Surface inflow between head of springs and measuring site is subtracted when measurable. Prior to Nov. 20, 1959 (corrected), measurements made at site 0.7 mile below head of springs. Discharge computed from relation between artesian pressure at Sharpes Ferry well and discharge at measuring site.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,111	1,120	1,065	1,004	959	910	867	824	788	788	796	806	920
1952	843	837	834	826	824	897	923	891	858	829	815	812	849
1953	814	841	811	778	760	740	745	764	754	764	802	956	793
1954	1,018	993	974	1,024	996	950	906	860	819	784	768	761	904
1955	770	765	740	717	705	695	682	667	652	647	646	652	695
1956	644	628	612	598	587	576	561	554	546	553	564	571	583
1957	591	618	608	589	571	555	550	548	564	568	616	651	598
1958	672	673	658	644	641	683	728	743	732	735	766	768	704
1959	750	767	764	752	748	794	968	980	977	1,007	1,035	1,045	883
1960	1,060	1,033	987	936	899	978	1,148	1,112	1,053	1,067	1,189	1,236	1,058

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Maximum day		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	899	-
1951	-	1,150	Nov. 2-4, 1950	781	920	-	-	854	-
1952	1234	924	Apr. 14, 1952	805	849	-	-	845	-
1953	1274	988	Sept. 27, 1953	730	793	-	-	836	-
1954	1334	1,040	Jan. 10, 11, 16	757	904	-	-	844	-
1955	1384	784	Oct. 29, 1954	643	695	-	-	662	-
1956	1434	652	Oct. 13, 1955	541	583	-	-	577	-
1957	1504	666	Sept. 30, 1957	539	588	-	-	603	-
1958	1554	778	Aug. 27, 1958	632	704	-	-	727	-
1959	1624	1,070	Sept. 25-30, 1959	736	883	-	-	950	-
1960	1704	1,280	Sept. 25-30, 1960	882	1,058	-	-	-	-

2405. Oklawaha River at Eureka, Fla.

Location.--Lat 29°22', long 81°54', in sec.9, T.13 S., R.24 E., on right bank 20 ft upstream from bridge on State Highway 316 in Eureka, Marion County, and 3 miles downstream from Eaton Creek.

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

Records available.--February 1930 to September 1934, September 1943 to December 1952. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 15.44 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to Nov. 19, 1943, staff gage at same site and datum.

Average discharge.--13 years (1930-34, 1943-52), 1,401 cfs.

Extremes.--1930-34, 1943-52: Maximum discharge, 6,260 cfs Sept. 7, 1933 (gage height, 11.00 ft); minimum, 626 cfs Feb. 2, 1933 (gage height, 2.94 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,967	1,697	1,579	1,634	1,521	1,329	1,165	1,004	983	1,097	1,222	1,324	1,377
1952	1,292	1,364	1,315	1,335	1,723	1,687	1,510	1,254	1,174	1,140	1,205	1,178	1,347
1953	1,380	1,173	1,074	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.60	1.33	1.28	1.33	1.12	1.08	0.92	0.82	0.77	0.89	0.99	1.04	13.17
1952	1.05	1.07	1.07	1.09	1.31	1.37	1.19	1.02	.92	.93	.98	.93	12.92
1953	1.12	.92	.87	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary discharge	Maximum Date	Minimum day	Mean	Per square mile	Runoff in inches	Runoff in inches
1950	-	-	-	-	-	-	-	-
1951	1204	3,350	Oct. 21, 1950	948	1,377	0.970	13.17	1,408
1952	1234	2,480	Feb. 19, 1952	1,080	1,347	.949	12.92	1,270
1953	1234	3,700	Oct. 24, 1952	-	-	-	-	1,318

a Maximum during period October to December.

2410. Camps Canal near Rochelle, Fla.

Location.--Lat 29°34'33", long 82°15'00". in SW¹/₄ sec.31, T.10 S., R.21 E., near left bank on downstream side of bridge on State Highway 234, 1.8 miles southwest of Rochelle, Alachua County, and 5 miles upstream from Orange Lake.

Drainage area.--115 sq mi.

Records available.--March 1948 to November 1952 (discharge measurements only), August 1957 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 58.44 ft above mean sea level, datum of 1929. Prior to Aug. 8, 1957, reference point at same site at datum 10.27 ft higher.

Extremes.--1957-60: Maximum discharge, 1,040 cfs Mar. 24, 1959 (gage height, 8.21 ft); minimum daily, 14 cfs Oct. 29, 30, 1958; minimum gage height, 2.05 ft Oct. 30, 1958. Discharge may have been higher in March 1948. Minimum discharge observed, less than 1 cfs June 27, 1951, Aug. 21, Oct. 3, 1952; minimum gage height observed, 1.42 ft June 27, 1951 (present datum).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	-	164	164	-
1958	155	82.5	47.5	37.7	42.1	211	215	161	88.4	79.7	77.2	51.1	104
1959	23.7	37.6	40.2	107	121	504	426	221	276	221	161	174	193
1960	232	159	86.0	55.5	50.0	253	260	103	54.6	99.5	329	336	168

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	-	1.65	1.59	-
1958	1.55	0.80	0.48	0.38	0.38	2.12	2.09	1.61	0.86	0.80	1.77	1.50	12.34
1959	2.24	.36	.40	1.07	1.10	5.05	4.13	2.22	2.68	2.21	1.62	1.68	22.76
1960	2.32	1.54	.86	.56	.47	2.54	2.52	1.03	.53	1.00	3.29	3.26	19.92

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary discharge	Maximum Date	Minimum day	Mean	Per square mile	Runoff in inches	Runoff in inches
1957	1554	a219	Sept. 18, 1957	-	-	-	-	-
1958	1554	269	Mar. 20, 1958	30	104	0.904	12.34	89.0
1959	1624	1,040	Mar. 24, 1959	14	193	1.68	22.76	224
1960	1704	480	Mar. 23, 24, 1960	33	168	1.46	19.92	-

a Maximum during period August to September.

2415. 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 5 ft (revised) 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, Marion County.

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

Records available--October 1946 to September 1955. Monthly discharge only for some periods, published in WSP 1304.

Gage--Water-stage recorder. Datum of gage is 53.41 ft above mean sea level, datum of 1929. Prior to Mar. 28, 1947 (corrected), staff gage at same site and datum.

Average discharge--9 years (1946-55), 117 cfs.

Extremes--1946-55: Maximum discharge, 677 cfs Mar. 17-24, 1948; maximum gage height, 7.81 ft Mar. 17, 1948; no flow May 7 to Sept. 30, 1955.
Maximum discharge measured, 976 cfs Nov. 10, 1941.

Remarks--Orange and Lochloosa Lakes are connected by Cross Creek through which there may be a natural diversion from one lake to the other. Seasonal diversions into or from basin above station by pumpage for drainage or irrigation of pastures in Payne Prairie.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	348	308	190	147	104	70.4	49.5	20.4	5.45	5.86	4.40	10.9	105
1952	70.2	96.7	151	125	133	227	172	95.4	63.5	38.5	28.8	26.5	102
1953	21.4	16.2	10.4	12.3	15.7	11.2	41.3	65.8	45.2	39.9	56.2	258	49.1
1954	418	302	297	398	281	174	118	55.9	32.1	20.7	14.1	8.58	176
1955	7.19	3.76	2.70	1.84	2.29	1.42	.42	.02	0	0	0	0	1.64

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	116	-
1951	1204	401	Oct. 27, 1950	2.6	105	-	-	61.2	-
1952	1234	251	Feb. 27, 1952	23	102	-	-	79.6	-
1953	1274	*a82	May 1, 2, 1953	6.3	49.1	-	-	131	-
1954	1334	467	Oct. 10, 1953	7.7	176	-	-	92.0	-
1955	1384	9.9	Oct. 8, 1954	0	1.64	-	-	-	-

* Not previously published.

a Maximum peak discharge; maximum discharge during year, 382 cfs Sept. 30, 1953, stage rising.

2425. 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 wingwall of culvert on U.S. Highway 301 and State Highway 200, 1.3 miles south of Lochloosa, Alachua County, 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--October 1946 to September 1955. Monthly discharge only for some periods, published in WSP 1304.

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--9 years (1946-55), 32.6 cfs.

Extremes--1946-55: Maximum discharge, 341 cfs Mar. 12, 13, 1948 (gage height, 6.04 ft); no flow on many days.

Remarks--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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	101	82.0	32.2	14.4	5.45	1.22	0.16	0	0	0	0	0.03	19.9
1952	1.22	3.26	10.0	10.0	14.3	33.0	18.0	5.05	1.27	.12	.05	.04	8.02
1953	.65	0	0	.12	.04	.10	.96	.58	.43	.15	2.75	54.0	4.95
1954	99.4	55.2	53.7	88.6	50.9	14.8	5.09	.81	.09	.03	0	0	30.7
1955	0	0	0	0	0	0	0	0	0	0	0	0	0

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date						
1950	-	-	-	-	-	-	-	25.0	-
1951	1204	158	Oct. 22, 23, 24	0	19.9	-	-	2.98	-
1952	1234	45	Feb. 27, 1952	0	8.02	-	-	6.86	-
1953	1274	*a7.2	Oct. 21, 1952	0	4.93	-	-	22.4	-
1954	1334	*108	Oct. 1, 2, 3, 1953	0	30.7	-	-	15.2	-
1955	1384	0	-	0	0	-	-	-	-

* Revised.

a Maximum peak discharge; maximum discharge during year, 106 cfs Sept. 30, 1953, stage rising.

Note.--Figures of runoff, in acre-feet, not previously published.

2430. Orange Creek at Orange Springs, Fla.

Location.--Lat 29°30'34", long 81°56'47", in sec.25, T.11 S., R.23 E., near right bank at downstream side of bridge on State Highway 315, a quarter of a mile northwest of Orange Springs, Marion County, and 1¼ miles upstream from Little Orange Creek.

Drainage area.--431 sq mi.

Records available.--November 1941 to June 1942 (discharge measurements only), July 1942 to December 1952, October 1955 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 19.81 ft above mean sea level, datum of 1929. Prior to Oct. 18, 1955, staff gage at same site and datum.

Average discharge.--15 years (1942-52, 1955-60), 182 cfs.

Extremes.--1942-52, 1955-60: Maximum discharge, 1,340 cfs Mar. 11, 1948 (gage height, 8.72 ft); minimum daily, 2.0 cfs May 31, June 1, 3-5, 9-14, 1956; minimum gage height, 1.47 ft June 5, 6, 1956.

Maximum discharge measured, 1,490 cfs Nov. 16, 1941 (gage height, 9.01 ft). Maximum stage known, 10.6 ft (present datum) in October 1941, from information by local resident (discharge, 2,400 cfs, from rating curve extended above 1,500 cfs).

Remarks.--Records include some flow diverted, during periods of high stages, from Santa Fe Lake in Suwannee River basin through Lochloosa Creek.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	612	430	286	214	161	125	67.8	25.8	12.2	14.7	19.0	37.2	167
1952	166	207	253	198	287	344	242	129	88.6	60.0	57.5	56.8	172
1953	75.4	31.4	23.4	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	11.1	6.60	5.67	9.97	11.9	5.72	6.45	7.04	8.11	15.1	10.9	8.06	8.88
1957	55.4	11.4	8.00	6.89	7.65	14.1	14.0	22.2	36.5	22.6	97.4	82.5	31.7
1958	32.3	12.6	14.4	32.8	36.2	200	270	185	112	81.1	59.0	33.0	89.2
1959	37.8	51.3	48.6	91.4	91.7	452	744	504	558	627	517	541	356
1960	403	302	158	122	137	401	503	303	245	399	599	834	367

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.64	1.11	0.76	0.57	0.39	0.34	0.18	0.07	0.03	0.04	0.05	0.10	5.28
1952	.44	.54	.68	.53	.67	.92	.63	.34	.23	.16	.15	.15	5.44
1953	.20	.08	.06	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	.03	.02	.02	.03	.03	.02	.02	.02	.02	.04	.03	.02	.30
1957	.15	.03	.02	.02	.02	.04	.04	.06	.09	.06	.26	.21	1.00
1958	.09	.03	.04	.09	.09	.53	.70	.49	.29	.22	.16	.09	2.82
1959	.10	.13	.13	.24	.22	1.21	1.95	1.35	1.44	1.68	1.38	1.40	11.21
1960	1.08	.78	.42	.33	.34	1.07	1.30	.81	.64	1.07	1.60	2.16	11.60

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	186	5.86
1951	1504	1,040	Oct. 21, 1950	8.4	167	0.387	5.28	109	3.43
1952	1504	655	Oct. 2, 1951	37	172	.399	5.44	131	4.12
1953	1504	a382	Oct. 22, 1952	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-
1956	1434	102	June 26, 1956	2.0	8.88	.021	.30	13.2	.43
1957	1504	538	Sept. 21, 1957	4.8	31.7	.074	1.00	30.4	.96
1958	1554	354	Apr. 10, 11, 1958	10	89.2	.207	2.82	95.7	3.02
1959	1624	1,020	Mar. 20, 1959	22	356	.826	11.21	417	13.13
1960	1704	1,230	Mar. 18, 1960	100	367	.852	11.60	-	-

a Maximum during period October to December.

2435. Oklawaha River near Orange Springs, Fla.

Location.--Lat 29°30'15", long 81°54'45", in sec.29, T.11 S., R.24 E., on left bank at Jordans Ferry and mouth of Orange Creek, 2 miles east of Orange Springs, Marion County.

Drainage area.--2,010 sq mi, approximately (includes that of Orange Creek).

Records available.--February 1930 to December 1952.

Gage.--Staff gage. Datum of gage is 7.12 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to Oct. 1, 1936, at site a quarter of a mile downstream at same datum.

Average discharge.--22 years (1930-52), 1,672 cfs.

Extremes.--1930-52: Maximum discharge, 9,760 cfs Sept. 9, 1933 (gage height, 12.00 ft, from floodmarks); minimum observed, 741 cfs on several days January to June 1933; minimum gage height observed, 2.46 ft Feb. 2, 1933.

Remarks.--Records include flow of Orange Creek.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,705	2,130	1,878	2,082	1,863	1,560	1,344	1,145	1,103	1,181	1,285	1,471	1,645
1952	1,684	1,775	1,856	1,722	2,131	2,196	1,948	1,555	1,370	1,350	1,359	1,332	1,683
1953	1,590	1,337	1,216	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.55	1.18	1.08	1.19	0.97	0.89	0.75	0.66	0.61	0.68	0.74	0.82	11.12
1952	.97	.99	1.05	.99	1.14	1.26	1.08	.88	.76	.76	.78	.74	11.40
1953	.91	.74	.70	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Maximum observed		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,684	11.37
1951	1204	4,380	Oct. 22, 1950	1,060	1,645	0.818	11.12	1,526	10.32
1952	1234	3,040	Feb. 27, 1952	1,210	1,683	.837	11.40	1,587	10.74
1953	1234	2,020	Oct. 23, 24, 1952	-	-	-	-	-	-

a Maximum during period October to December.

2440. 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 near boat dock at Riverside Landing, 8½ miles east of Orange Springs, Marion County.

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

Records available.--October 1943 to September 1960.

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

Average discharge.--17 years (1943-60), 2,080 cfs.

Extremes.--1943-60: Maximum discharge, 7,830 cfs Mar. 20, 1960 (gage height, 9.80 ft); minimum, 697 cfs Apr. 28, 29, 1957 (gage height, 3.19 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3,549	2,874	2,337	2,345	2,151	1,870	1,542	1,272	1,223	1,342	1,458	1,581	1,962
1952	2,162	2,184	2,151	1,885	2,495	2,625	2,234	1,794	1,658	1,534	1,590	1,581	1,989
1953	2,038	1,612	1,392	1,649	1,526	1,424	2,094	1,408	1,445	1,525	2,303	3,764	1,848
1954	4,210	3,169	3,846	3,860	3,183	2,778	2,184	1,703	1,519	1,497	1,388	1,334	2,556
1955	1,563	1,354	1,316	1,271	1,360	1,172	1,116	1,019	975	937	945	1,172	1,182
1956	1,002	858	878	971	1,057	883	807	903	812	870	809	828	890
1957	1,159	974	871	827	784	816	771	781	956	999	1,633	1,595	1,015
1958	1,447	1,130	1,110	1,221	1,173	2,512	2,588	2,384	2,016	1,707	1,842	1,521	1,708
1959	1,297	1,542	1,308	1,685	1,802	3,612	3,915	3,281	3,378	3,536	3,285	3,909	2,715
1960	3,501	3,065	2,636	2,502	2,356	4,176	3,850	3,153	3,198	3,799	4,555	4,936	3,480

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.95	1.53	1.28	1.29	1.07	1.03	0.82	0.70	0.65	0.74	0.80	0.84	12.70
1952	1.19	1.16	1.18	1.04	1.28	1.44	1.19	.98	.88	.84	.87	.84	12.89
1953	1.12	.86	.76	.91	.76	.78	1.11	.77	.77	.84	1.26	2.00	11.94
1954	2.31	1.68	2.11	2.12	1.58	1.53	1.16	.94	.81	.82	.76	.71	16.53
1955	.86	.72	.72	.70	.67	.64	.59	.56	.52	.51	.52	.62	7.63
1956	.55	.46	.48	.53	.54	.48	.43	.50	.43	.48	.44	.44	5.76
1957	.64	.52	.48	.45	.39	.45	.41	.43	.51	.55	.90	.85	6.58
1958	.79	.60	.61	.67	.58	1.38	1.37	1.31	1.07	.94	1.01	.70	11.03
1959	.71	.82	.72	.93	.89	1.98	2.08	1.80	1.79	1.94	1.80	2.08	17.54
1960	1.92	1.63	1.45	1.37	1.21	2.29	2.05	1.73	1.70	2.09	2.50	2.62	22.56

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	2,061	13.35
1951	1204	5,540	Oct. 23, 1950	1,150	1,962	0.934	12.70	1,772	11.47
1952	1234	4,180	Oct. 3, 1951	1,360	1,989	.947	12.89	1,867	12.10
1953	1274	4,950	Sept. 1, 1953	1,180	1,846	.879	11.94	2,368	15.30
1954	1334	5,480	Oct. 4, 1953	1,240	2,556	1.22	16.53	1,967	12.73
1955	1384	1,870	Oct. 16, 1954	839	1,182	.563	7.63	1,057	6.82
1956	1434	1,200	Oct. 3, 1955	722	890	.424	5.76	912	5.91
1957	1504	2,410	Aug. 10, 11, 1957	639	1,015	.493	6.58	1,073	6.94
1958	1554	2,840	Mar. 12, 13, 1958	1,090	1,708	.813	11.03	1,746	11.28
1959	1624	6,520	Mar. 21, 1959	1,190	2,715	1.29	17.54	3,140	20.29
1960	1704	7,830	Mar. 20, 1960	2,140	3,480	1.66	22.56	-	-

2445. 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, Volusia County.

Drainage area.--120 sq mi, approximately.

Records available.--January 1951 to September 1960.

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.

Average discharge.--9 years (1951-60), 101 cfs.

Extremes.--1951-60: Maximum discharge, 1,600 cfs Mar. 19, 1960; maximum gage height, 8.72 ft Sept. 24, 1953; minimum discharge, 0.2 cfs July 31, Aug. 1, 2, 1952; minimum gage height, 0.97 ft June 23, 24, 1956.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	57.8	81.3	24.8	6.94	2.02	0.90	103	65.6	95.1	-
1952	383	158	103	65.8	220	205	95.8	9.46	2.65	1.11	12.4	239	124
1953	349	80.8	18.2	16.9	51.6	76.5	249	33.6	5.40	10.4	197	860	162
1954	561	151	225	147	35.3	20.5	11.8	9.38	6.77	8.26	10.0	4.72	96.8
1955	71.3	26.5	26.8	20.5	30.9	11.4	6.27	2.67	1.37	4.86	15.0	11.6	19.2
1956	20.5	26.9	11.4	6.70	9.48	3.58	1.12	1.71	1.00	4.07	19.8	9.40	9.64
1957	176	39.9	6.28	3.22	2.56	2.09	1.57	2.26	65.0	60.5	249	143	63.0
1958	165	19.0	7.94	46.5	65.5	382	103	81.2	10.8	132	120	34.8	98.3
1959	123	142	32.7	148	77.8	331	213	42.4	92.7	219	155	233	151
1960	170	68.9	24.7	32.4	116	539	168	14.3	69.8	564	320	322	185

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	0.56	0.71	0.24	0.06	0.02	0.008	0.99	0.63	0.88	-
1952	3.68	1.47	0.99	0.63	1.98	1.97	.89	.09	.02	.01	.12	2.22	14.07
1953	3.36	.75	.17	.16	.45	.73	2.31	.32	.05	.10	1.89	8.00	18.29
1954	5.39	1.22	2.17	1.42	.31	.20	.11	.09	.06	.08	.10	.04	11.19
1955	.68	.27	.26	.20	.27	.11	.06	.03	.01	.05	.14	.11	2.19
1956	.20	.25	.11	.06	.09	.03	.01	.02	.01	.04	.19	.09	1.10
1957	1.69	.37	.06	.03	.02	.02	.01	.02	.60	.58	2.39	1.33	7.12
1958	1.59	.18	.08	.45	.57	3.67	.96	.78	.10	1.27	1.15	.32	11.12
1959	1.19	1.32	.31	1.42	.67	3.18	1.98	.41	.86	2.10	1.49	2.17	17.10
1960	1.64	.64	.24	.31	1.04	5.18	1.57	.14	.65	3.50	3.08	2.99	20.98

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	a226	July 19, 1951	-	-	-	-	-	-
1952	1234	697	Oct. 4, 1951	0.2	124	1.03	14.07	108	12.21
1953	1274	1,490	Sept. 24, 1953	2.3	162	1.35	18.29	201	22.79
1954	1334	759	Oct. 10, 1953	3.0	98.8	.823	11.19	31.9	3.62
1955	1584	162	Oct. 15, 1954	.8	19.2	.160	2.19	13.5	1.54
1956	1434	71	Nov. 10, 1955	.6	9.64	.080	1.10	23.4	2.66
1957	1504	501	Oct. 16, 1956	.8	83.0	.525	7.12	60.6	6.85
1958	1554	608	Mar. 10, 1958	5.1	98.3	.819	11.12	107	12.09
1959	1624	649	Mar. 21, 1959	16	151	1.26	17.10	149	16.80
1960	1704	1,600	Mar. 19, 1960	5.7	185	1.54	20.98	-	-

a Maximum peak discharge; maximum discharge during period January to September, 495 cfs Sept. 30, 1951, stage rising.

2450. Etonia Creek near Florahome, Fla.

Location--Lat 29°44'05", long 81°51'45", in sec.2, T.9 S., R.24 E., at left bank 130 ft downstream from highway bridge and 1.5 miles east of Florahome, Putnam County.

Drainage area--172 sq mi.

Records available--December 1949 to September 1951.

Gage--Water-stage recorder. Datum of gage is 69.00 ft above mean sea level (Corps of Engineers bench mark). Prior to July 13, 1950, at site 30 ft upstream at same datum.

Extremes--1949-51: Maximum discharge, 745 cfs Oct. 19, 1950 (gage height, 4.91 ft), from rating curve extended above 240 cfs; minimum, 2.9 cfs June 5, 1950; minimum gage height, 0.00 ft June 3-5, 11, 1951.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	170	73.2	40.3	39.3	28.8	28.6	22.6	13.1	7.22	13.1	17.8	17.9	39.5

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.14	0.47	0.27	0.26	0.17	0.19	0.15	0.09	0.05	0.09	0.12	0.12	3.12

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	49.0	3.86
1951	1204	745	Oct. 19, 1950	5.3	39.5	0.230	3.12	-	-

2452. Rice Creek near Palatka, Fla.

Location--Lat 29°41'57", long 81°39'48", in E₁ sec.23, T.9 S., R.26 E., near center of span on upstream side of bridge on U.S. Highway 17, three-quarters of a mile upstream from mouth and 4 miles north of Palatka, Putnam County.

Drainage area--353 sq mi.

Records available--March 1959 to September 1960.

Gage--Water-stage and deflection-meter recorders. Datum of gage is 4.40 ft below mean sea level, datum of 1929.

Extremes--1959-60: Maximum daily downstream flow, 453 mcf (millions of cubic feet) Mar. 18, 1960; minimum daily, 2.34 mcf Aug. 27, 1959; maximum daily upstream flow, 105 mcf Sept. 24, 1960; on some days in each year no upstream flow occurred. Maximum gage height, 8.06 ft Sept. 26, 1960; minimum, 3.55 ft Feb. 18, 1960.

Remarks--Flow affected by tide; volumes as published in WSP 1624 and 1704 are daily totals and do not represent net downstream or upstream volumes for each ebb or flood tide. Flow computed using continuous velocity record obtained from recording deflection meter. Records include undetermined amount of water diverted from ground-water supplies by Hudson Pulp and Paper Corp.

Maximum and minimum daily volumes, in millions of cubic feet

Year	WSP	Downstream flow				Upstream flow		
		Maximum day		Minimum day		Maximum day		Minimum day
		Date	Volume	Date	Volume	Date	Volume	
1959a/	1624	Mar. 21	326	Aug. 27	2.34	Sept. 28	77.0	(b)
1960	1704	Mar. 18	453	June 1	19.7	Sept. 24	105	(b)

a Period March to September.

b On some days no upstream flow occurred.

Note--Maximum and minimum volumes of flow downstream and upstream are daily totals in millions of cubic feet and do not represent net downstream or upstream volumes for each ebb or flood tide.

2454. South Fork Black Creek near Camp Blanding, Fla.

Location.--Lat 29°56'33", long 81°53'52", on line between secs. 27 and 28, T.6 S., R.24 E., near right bank on upstream side of bridge on State Highway 21, 2.1 miles upstream from Ates Creek, 6 miles southeast of main entrance to Camp Blanding, Clay County, and 6 miles southwest of Penney Farms.

Drainage area.--34.8 sq mi.

Records available.--October 1957 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 41.92 ft above mean sea level, datum of 1929.

Extremes.--1957-60: Maximum discharge, 3,240 cfs May 20, 1959 (gage height, 11.24 ft), from rating curve extended above 730 cfs; minimum, 14 cfs for many days in October 1958; minimum gage height, 1.48 ft Oct. 14, 1958.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	49.9	27.8	25.2	31.9	34.5	53.6	47.2	31.9	21.1	23.3	25.7	19.1	32.6
1959	17.7	25.2	33.8	48.5	38.0	105	61.7	131	93.1	76.4	50.3	92.0	64.5
1960	60.0	39.7	34.8	32.7	38.2	68.2	49.8	31.3	28.6	68.7	67.8	89.7	50.8

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	1.65	0.89	0.84	1.08	1.03	1.78	1.51	1.06	0.68	0.77	0.85	0.61	12.73
1959	.59	.81	1.12	1.81	1.14	3.48	1.98	4.33	2.98	2.53	1.67	2.95	25.19
1960	1.99	1.27	1.15	1.08	1.18	2.28	1.60	1.04	.92	2.28	2.25	2.88	19.90

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1958	1554	288	Oct. 2, 1957	15	32.6	0.937	12.73	30.4	11.87
1959	1624, 1704	3,240	May 20, 1959	14	64.5	1.85	25.19	69.3	27.08
1960	1704	806	Sept. 11, 1960	22	50.8	1.46	19.90	-	-

2455. South Fork Black Creek near Penney Farms, Fla.

Location.--Lat 29°58'45", long 81°51'08", in NE $\frac{1}{4}$ sec.13, T.6 S., R.24 E., on right bank at upstream side of bridge on State Highway 16, 0.7 mile downstream from Greens Creek, $2\frac{1}{2}$ miles west of Penney Farms, Clay County, and $9\frac{1}{2}$ miles west of Green Cove Springs.

Drainage area.--134 sq mi.

Records available.--October 1939 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--21 years (1939-60), 158 cfs.

Extremes.--1939-60: Maximum discharge, 13,900 cfs Oct. 19, 1944 (gage height, 26.33 ft, from floodmarks), from rating curve extended above 11,000 cfs; minimum, about 9.4 cfs June 24, 1955; minimum gage height, 0.52 ft Aug. 18, 1954.

Remarks.--Records of chemical analyses and water temperatures for the period October 1958 to September 1959 are published in report of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	586	89.9	82.1	80.0	69.9	78.5	52.0	25.5	24.3	46.3	63.8	68.2	106
1952	98.5	175	102	66.7	199	109	70.3	72.9	99.0	86.9	81.6	207	113
1953	236	63.6	39.5	131	181	114	524	41.9	45.7	127	885	452	237
1954	313	120	432	151	117	89.5	69.1	39.5	29.8	33.8	22.3	34.2	122
1955	72.4	31.2	36.7	69.7	125	43.1	32.5	18.6	16.2	43.8	26.6	127	53.0
1956	59.1	25.8	26.5	45.5	109	34.5	28.2	84.2	153	152	72.6	48.9	69.8
1957	222	44.3	35.5	30.5	34.0	81.3	40.6	47.6	176	160	237	184	108
1958	196	50.5	51.0	101	102	315	223	81.2	39.7	58.1	133	35.8	116
1959	55.9	122	196	271	129	593	171	747	326.7	254	228	356	289
1960	173	77.6	67.3	66.8	124	431	172	59.8	143	530	271	529	221

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	5.04	0.75	0.71	0.69	0.54	0.68	0.43	0.22	0.20	0.40	0.55	0.57	10.78
1952	.85	1.45	.88	.57	1.60	.94	.59	.63	.82	.75	.70	1.73	11.51
1953	2.03	.53	.34	1.13	1.41	.98	4.36	.36	.38	1.09	7.61	3.76	23.98
1954	2.69	1.00	3.71	1.50	.91	.77	.58	.34	.25	.29	.19	.28	12.31
1955	.62	.26	.32	.60	.97	.37	.27	.16	.13	.38	.23	1.06	5.37
1956	.51	.21	.23	.39	.88	.30	.24	.72	1.27	1.31	.63	.41	7.10
1957	1.91	.37	.29	.26	.26	.70	.34	.41	1.46	1.38	2.04	1.53	10.95
1958	1.69	.42	.44	.87	.80	2.70	1.86	.70	.33	.50	1.15	.30	11.76
1959	.48	1.02	1.68	2.33	1.00	5.10	1.42	6.43	2.67	2.18	1.97	2.96	29.24
1960	1.49	.65	.58	.57	1.00	3.71	1.43	.51	1.19	4.56	2.33	4.41	22.43

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	138	13.97
1951	1204	7,970	Oct. 19, 1950	15	106	0.791	10.78	73.6	7.46
1952	1234	1,110	Feb. 17, 1952	27	113	.843	11.51	111	11.23
1953	1274	5,790	Apr. 20, 1953	29	237	1.77	23.98	281	28.48
1954	1334	2,550	Dec. 24, 1953	19	122	.910	12.31	60.2	6.11
1955	1384	608	Sept. 13, 1955	(a)	53.0	.396	5.37	50.5	5.12
1956	1434	809	June 22, 1956	12	69.8	.521	7.10	85.8	8.72
1957	1504	2,410	Oct. 17, 1956	18	108	.806	10.95	108	10.93
1958	1554	1,600	Apr. 16, 1958	24	116	.866	11.76	122	12.39
1959	1624	12,500	May 21, 1959	24	289	2.16	29.24	284	28.78
1960	1704	4,690	Sept. 12, 1960	31	221	1.65	22.43	-	-

a About 9.4 cfs (occurred during period of no gage-height record).

ST. JOHNS RIVER BASIN

2458. North Fork Black Creek near Highland, Fla.

Location.--Lat 30°06'48", long 81°59'00", in SE $\frac{1}{4}$ sec.27, T.4 S., R.23 E., on downstream side of bridge on State Highway 218, 3.9 miles east of Highland, Clay County, and 7.6 miles northwest of Middleburg.

Drainage area.--48.9 sq mi.

Records available.--October 1957 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 55.30 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Extremes.--1957-60: Maximum discharge, 2,000 cfs Mar. 18, 1960 (gage height, 8.60 ft); minimum, 1.4 cfs June 17, 1958 (gage height, 0.86 ft).

Remarks.--Records of chemical analyses and water temperatures for the period October 1958 to September 1959 are published in report of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	87.5	20.7	24.9	44.3	60.0	120	74.6	16.8	7.65	61.6	51.1	9.30	48.3
1959	18.7	41.9	79.3	140	84.4	308	116	173	80.1	60.0	44.8	238	116
1960	69.3	25.9	20.8	24.1	74.8	167	113	19.3	24.2	136	77.8	202	79.4

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	2.06	0.47	0.58	1.04	1.28	2.83	1.70	0.40	0.17	1.45	1.21	0.21	13.41
1959	.44	.96	1.87	3.31	1.80	7.27	2.66	4.08	1.83	1.41	1.06	5.44	32.13
1960	1.63	.59	.49	.57	1.65	3.93	2.57	.45	.55	3.20	1.83	4.61	22.07

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1958	1554	521	Feb. 27, 1958	1.5	48.3	0.988	13.41	48.9	13.56
1959	1624	1,960	Sept. 13, 1959	5.3	116	2.37	32.13	114	31.57
1960	1704	2,000	Mar. 18, 1960	4.5	79.4	1.62	22.07	-	-

2460. North Fork Black Creek near Middleburg, Fla.

Location.--Lat 30°06'47", long 81°54'24", in NE $\frac{1}{4}$ sec.33, T.4 S., R.24 E., at left bank a third of a mile upstream from Big Branch, 4 miles northwest of Middleburg, Clay County, and 6 $\frac{1}{4}$ miles upstream from confluence with South Fork.

Drainage area.--174 sq mi.

Records available.--October 1931 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 0.62 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Mar. 31, 1933 (corrected), staff gage at site three-eighths of a mile downstream at different datum. Mar. 31, 1933 (corrected), to Apr. 28, 1955, staff gage at same site and datum.

Average discharge.--29 years (1931-60), 176 cfs.

Extremes.--1931-60: 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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1028	68.9	68.0	64.0	71.9	67.0	52.2	14.9	14.4	22.9	89.0	63.1	137
1952	58.7	112	68.6	47.8	199	107	65.9	32.7	65.5	58.7	42.0	292	94.8
1953	114	27.7	26.9	163	93.6	112	416	21.5	28.4	97.3	666	693	205
1954	543	121	616	151	70.4	77.1	55.1	26.4	15.2	16.4	7.25	37.6	146
1955	65.6	20.5	33.9	76.4	122	32.1	30.9	19.6	12.6	39.5	17.1	141	50.4
1956	116	83.9	35.5	80.5	138	43.2	26.8	141	102	185	85.8	71.8	92.4
1957	670	61.9	37.8	35.6	39.1	84.0	59.6	51.6	235	140	446	212	174
1958	291	50.1	63.6	130	171	405	349	56.8	47.0	163	242	57.0	169
1959	63.6	124	233	534	252	1,310	304	713	263	392	103	690	417
1960	205	81.4	64.9	72.2	278	644	346	49.2	64.9	477	194	788	272

Monthly and yearly runoff, in inches, of North Fork Black Creek near Middleburg, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6.81	0.44	0.45	0.42	0.43	0.44	0.33	0.10	0.09	0.15	0.59	0.40	10.65
1952	.39	.72	.45	.32	1.23	.71	.42	.22	.42	.39	.28	1.87	7.42
1953	.75	.18	.18	1.08	.56	.74	2.67	.14	.18	.64	4.41	4.45	15.98
1954	3.60	.77	4.08	1.00	.42	.51	.35	.18	.10	.11	.05	.24	11.41
1955	.43	.13	.22	.51	.73	.21	.20	.13	.08	.26	.11	.91	3.92
1956	.77	.54	.23	.53	.85	.29	.17	.95	.65	1.23	.57	.46	7.22
1957	4.44	.40	.25	.24	.23	.56	.38	.34	1.51	.93	2.95	1.36	13.59
1958	1.93	.32	.42	.86	1.02	2.88	2.24	.38	.30	1.08	1.60	.37	13.20
1959	.42	.79	1.54	3.54	1.51	8.68	1.95	4.72	1.69	2.60	.68	4.42	32.54
1960	1.36	.52	.43	.48	1.72	4.27	2.22	.33	.42	3.16	1.29	5.05	21.25

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	222	17.33
1951	1204	8,120	Oct. 19, 1950	5.7	137	0.787	10.65	58.1	4.51
1952	1234	1,270	Sept. 24, 1952	10	94.8	.545	7.42	89.0	6.97
1953	1274	4,890	Aug. 28, 1953	7.5	205	1.18	15.98	299	23.32
1954	1334	2,810	Dec. 26, 1953	3.9	146	.839	11.41	48.0	3.74
1955	1384	819	Sept. 15, 1955	5.4	50.4	.290	3.92	60.0	4.68
1956	1434	873	June 30, 1956	11	92.4	.531	7.22	138	10.77
1957	1504	6,580	Oct. 17, 1956	25	174	1.00	15.59	145	11.17
1958	1554	2,590	Apr. 11, 1958	25	169	.971	15.20	170	13.28
1959	1624	6,160	May 22, 1959	36	417	2.40	32.54	412	32.10
1960	1704	6,420	Mar. 18, 1960	23	272	1.56	21.25	-	-

2465. St. Johns River at Jacksonville, Fla.

Location.--Lat 30°19'13", long 81°39'32", in NW¹ sec.24, T.2 S., R.26 E., near right bank on downstream side of Main Street Bridge at Jacksonville, Duval County, 2.4 miles upstream from Arlington River, and 25 miles upstream from mouth.

Drainage area.--7,610 sq mi, approximately.

Records available.--February 1954 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 10.00 ft below mean sea level, unadjusted. Upper auxiliary water-stage recorder at same datum, 7.9 miles upstream from base gage. Lower auxiliary water-stage recorder at same datum, 5.1 miles downstream from base gage.

Extremes.--1954-60: Maximum volume of flow downstream, 4,720 mcf (millions of cubic feet) Dec. 10, 1954; minimum downstream, 570 mcf Oct. 6, 7, 1958; maximum upstream volume, 3,480 mcf July 25, 1957; minimum upstream, 120 mcf Sept. 11, 1960; maximum gage height, 13.81 ft Sept. 26, 1960; minimum, 8.10 ft Dec. 30, 1956.

Remarks.--Flow affected by tide; variations in ocean level increase or decrease the flow by causing variable changes in basin storage. Volumes published manual reports are those occurring during each ebb and flood tide; they should not be used to compute daily, monthly, or yearly mean discharges. At the time of a volume measurement, one or more discharge measurements and/or a continual measurement of the velocity at one point in the stream are made; a point velocity-discharge relation is used to determine the continuous record of changing discharge. Using small increments of time, partial volumes are determined from the continuous record of changing discharge; the total volume for the flood or ebb tide is determined by a summation of the partial volumes.

Maximum and minimum volumes of flow downstream and upstream, in millions of cubic feet

Year	WSP	Downstream flow				Upstream flow			
		Maximum		Minimum		Maximum		Minimum	
		Date	Volume	Date	Volume	Date	Volume	Date	Volume
1954a	1554	June 3, 1954	3,710	Feb. 25, 1954	970	May 30, 1954	3,250	Apr. 17, 1954	780
1955	1554	Dec. 10, 1954	4,720	Oct. 7, 8, 1954	1,080	June 21,22,1955	3,080	Sept.10, 1955	580
1956	1554	July 7, 1956	3,990	Oct. 23, 1955	1,010	May 8, 1956	3,350	Dec. 9, 1955	1,000
1957	1554	July 6, 1957	3,710	Oct. 12, 1956	830	July 25, 1957	3,480	Oct. 17, 1956	700
1958	1554	Mar. 6, 1958	3,540	Aug. 5, 1958	890	June 16,17,1958	2,980	Feb. 15, 1958	810
1959	1624	May 20, 1959	5,600	Oct. 6, 7, 1958	570	(b)	2,850	Jan. 16, 1959	400
1960	1704	Mar.20,22,1960	3,340	May 2, 1960	750	June 8, 1960	3,000	Sept.11, 1960	120

a Period February to September.

b Nov. 11, 1958, June 18, 1959.

2470. 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, St. Johns County.

Drainage area--23.3 sq mi.

Records available--October 1939 to September 1960. Monthly discharge only for October 1939, published in WSP 1304.

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

Average discharge--21 years (1939-60), 22.9 cfs.

Extremes--1939-60: Maximum discharge, 1,370 cfs Oct. 21, 1941 (gage height, 9.31 ft); minimum, 0.1 cfs June 6, 7, 1958.
Maximum stage known, about 13 ft Feb. 9, 1919, from information by local resident.

Remarks--Records of chemical analyses and water temperatures for the period October 1955 to September 1957 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	70.8	17.6	3.68	6.30	7.65	2.76	0.96	0.54	0.80	0.82	0.85	2.66	9.69
1952	43.7	62.6	15.0	6.79	31.6	18.0	5.54	1.15	.83	.64	.59	9.16	16.2
1953	132	17.6	2.34	5.60	4.15	21.9	72.1	4.45	.82	1.13	130	213	50.6
1954	101	11.4	33.8	19.2	5.96	4.85	1.58	.85	.69	.47	.36	.55	15.2
1955	1.91	6.94	2.35	9.82	12.9	2.11	1.05	.69	.67	1.88	1.70	4.70	3.83
1956	24.4	3.93	1.28	2.98	13.7	2.77	1.02	.93	.53	.68	.40	.38	4.40
1957	7.71	1.62	.87	.85	1.23	3.17	2.45	5.61	33.8	42.1	123	27.8	21.0
1958	78.6	3.73	2.31	11.9	13.7	78.4	18.5	2.76	.86	.77	.55	.53	17.9
1959	3.21	7.32	14.5	53.3	14.0	130	37.6	7.43	7.50	4.77	14.0	37.2	27.8
1960	40.1	45.3	11.5	6.07	16.9	127	13.8	1.27	2.39	9.92	24.8	110	34.1

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3.50	0.84	0.18	0.31	0.34	0.14	0.05	0.03	0.04	0.04	0.04	0.13	5.64
1952	2.16	3.00	.74	.34	1.46	.89	.27	.06	.04	.03	.03	.44	9.46
1953	6.55	.84	.12	.28	.19	1.08	3.45	.22	.04	.06	6.43	10.22	29.48
1954	4.99	.55	1.67	.95	.27	.24	.08	.04	.03	.02	.02	.03	8.89
1955	.09	.33	.12	.49	.58	.10	.05	.03	.03	.09	.08	.23	2.22
1956	1.21	.19	.06	.15	.63	.14	.05	.05	.03	.03	.02	.02	2.58
1957	.38	.08	.04	.04	.05	.16	.12	.28	1.62	2.08	6.08	1.33	12.26
1958	3.89	.18	.11	.59	.61	3.88	.89	.14	.04	.04	.03	.03	10.43
1959	.16	.35	.72	2.64	.63	6.44	1.80	.37	.36	.24	.69	1.78	16.18
1960	1.98	2.16	.57	.30	.78	6.28	.66	.06	.11	.49	1.23	5.25	19.87

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	11.6	6.75
1951	1204	661	Oct. 19, 1950	0.4	9.69	0.416	5.64	12.0	7.02
1952	1234	333	Nov. 11, 1951	.4	16.2	.695	9.46	18.9	11.07
1953	1274	738	Oct. 23, 1952	.6	50.6	2.17	29.48	50.1	29.18
1954	1334	362	Oct. 9, 1953	.3	15.2	.652	8.89	3.80	2.22
1955	1384	53	Jan. 26, 1955	.4	3.83	.164	2.22	5.40	3.14
1956	1434	63	Oct. 11, 1955	.2	4.40	.189	2.58	2.76	1.62
1957	1504	576	Aug. 23, 1957	.4	21.0	.901	12.26	27.4	15.94
1958	1554	372	Oct. 3, 1957	.2	17.9	.788	10.43	12.8	7.48
1959	1624	537	Mar. 20, 1959	.3	27.8	1.19	16.18	33.7	19.66
1960	1704	936	Mar. 18, 1960	.5	34.1	1.46	19.87	-	-

2480. Spruce Creek near Samsula, Fla.

Location.--Lat 29°03'01", long 81°02'48", in SE $\frac{1}{4}$ sec. 1, T.17 S., R.32 E., on left bank 25 ft upstream from bridge on State Highway 40A, 1 $\frac{1}{2}$ miles north of Samsula, Volusia County, 8 miles west of New Smyrna, and 10 miles upstream from Turnbull Bay.

Drainage area.--32 sq mi, approximately.

Records available.--May 1951 to September 1960.

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

Average discharge.--9 years (1951-60), 35.1 cfs.

Extremes.--1951-60: Maximum discharge, 798 cfs Oct. 8, 1953 (gage height, 15.49 ft); minimum, 0.1 cfs for several days in 1951 and 1952; minimum gage height, 3.60 ft Aug. 19, 1954.

Remarks.--Some diversions for irrigation above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	0.24	0.15	0.72	1.95	24.7	-
1952	115	20.0	6.24	2.89	40.2	25.4	7.50	.78	4.37	1.32	29.4	43.5	24.7
1953	105	8.67	3.92	3.99	18.6	74.6	69.3	15.4	.91	31.7	142	281	63.0
1954	195	24.1	42.8	11.0	3.08	2.55	4.62	3.61	1.03	1.12	1.14	3.72	24.8
1955	14.7	25.4	4.00	4.52	5.59	1.03	1.68	.85	1.06	2.29	5.75	14.8	6.77
1956	73.1	17.9	9.09	44.0	15.1	2.15	.50	.40	.51	3.46	.44	4.48	14.0
1957	42.5	2.50	.85	.65	.65	2.09	3.21	2.81	9.35	128	172	133	41.8
1958	99.9	6.15	8.42	42.0	25.1	85.2	17.4	5.94	4.29	14.3	27.1	6.50	28.9
1959	42.5	55.2	5.36	55.5	10.2	123	95.5	16.5	89.4	40.2	27.9	16.7	48.3
1960	83.2	30.2	14.3	8.28	93.3	107	10.8	.48	7.10	93.9	106	214	63.8

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	0.008	0.005	0.03	0.07	0.86	-
1952	4.14	0.70	0.22	0.10	1.36	0.92	0.28	.03	.15	.05	1.06	1.52	10.51
1953	3.79	.30	.14	.14	.60	2.69	2.42	.55	.03	1.14	5.13	9.79	26.72
1954	7.01	.84	1.54	.40	.10	.09	.16	.13	.04	.04	.04	.13	10.52
1955	.53	.88	.14	.16	.18	.04	.06	.03	.04	.08	.21	.52	2.87
1956	2.63	.63	.33	1.58	.51	.08	.02	.01	.02	.12	.02	.02	5.97
1957	1.53	.09	.03	.02	.02	.08	.11	.10	.33	4.60	6.20	4.63	17.75
1958	3.60	.21	.30	1.51	.82	3.11	.61	.21	.15	.51	.98	.23	12.24
1959	1.53	1.92	.19	2.00	.33	4.43	3.33	.59	3.12	1.45	1.01	.58	20.48
1960	3.00	1.05	.51	.30	3.15	3.84	.38	.02	.25	3.38	3.81	7.46	27.15

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	a122	Sept. 18, 1951	-	-	-	-	-	-
1952	1234	432	Oct. 2, 1951	0.1	24.7	0.772	10.51	22.7	9.68
1953	1274	529	Sept. 7, 1953	.3	63.0	1.97	26.72	75.2	31.88
1954	1334	798	Oct. 8, 1953	.4	24.8	.775	10.52	6.33	2.68
1955	1384	224	Nov. 14, 1954	.3	6.77	.212	2.87	11.6	4.91
1956	1434	284	Oct. 4, 1955	.4	14.0	.438	5.97	9.47	4.03
1957	1504	510	July 19, 1957	.4	41.8	1.31	17.75	47.7	20.21
1958	1554, 1624	344	(b)	.4	28.9	.903	12.24	27.8	11.77
1959	1624	404	Mar. 20, 1959	1.5	48.3	1.51	20.48	50.5	21.40
1960	1704	713	Sept. 11, 1960	.2	63.8	1.99	27.15	-	-

a Maximum peak discharge recorded during period May to September; discharge may have been greater Sept. 30, 1951, during period of no gage-height record, stage probably rising.
b Oct. 1, 1957, Mar. 2, 1958.

2490. Eau Gallie River near Eau Gallie, Fla.
(Formerly published as Elbow Creek near Eau Gallie)

Location.--Lat 28°07'56", long 80°39'19", in SW $\frac{1}{4}$ sec.17, T.27 S., R.37 E., at left bank on downstream side of highway bridge, $\frac{1}{2}$ miles west of Eau Gallie, Brevard County, and 2 miles upstream from mouth.

Drainage area.--2.69 sq mi.

Records available.--September 1954 to April 1955 (discharge measurements only), May 1955 to September 1957. Occasional low-flow measurements, 1957-60.

Gage.--Staff gage. Datum of gage is 1.05 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Extremes.--1955-57: Maximum discharge, 830 cfs Oct. 16, 1956 (gage height, 6.50 ft, from floodmarks), from rating curve extended above 180 cfs by logarithmic plotting; minimum daily, 0.2 cfs June 16-22, 24, 1957; minimum gage height observed, 2.20 ft July 24, 25, 1956.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1955	-	-	-	-	-	-	-	-	1.69	0.94	1.46	2.42	-
1956	3.51	0.83	0.94	0.93	0.88	0.53	0.78	0.46	.51	1.11	.84	1.75	1.09
1957	31.5	1.55	.92	.94	.90	2.05	2.42	1.08	.65	1.67	7.10	7.12	4.88

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1955	-	-	-	-	-	-	-	-	101	58	90	144	-
1956	216	50	58	57	51	32	46	28	30	68	51	104	791
1957	1,940	92	57	58	50	126	144	66	39	103	436	423	3,530

Note.--Figures given herein prior to October 1956 not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff	Mean	Runoff		
		Discharge	Date						Inches	Acre-feet	
1955	1434	a13	June 28, 1955	-	-	-	-	-	-	-	-
1956	1434	b25	Oct. 13, 1955	0.3	1.09	0.405	5.53	791	3.52	17.83	2,560
1957	1504	830	Oct. 16, 1956	.2	4.88	1.81	24.62	3,530	-	-	-

* Not previously published.

a Maximum observed during period May to September.

b Maximum daily discharge.

2495. 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, $\frac{1}{2}$ miles west of the city hall in Melbourne, Brevard County, and $2\frac{1}{2}$ miles upstream from Indian River.

Drainage area.--12.6 sq mi.

Records available.--March 1951 to September 1960.

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

Average discharge.--9 years (1951-60), 15.6 cfs (11,290 acre-ft per year).

Extremes.--1951-60: Maximum discharge, 608 cfs Oct. 16, 1956 (gage height, 9.98 ft), from rating curve extended above 300 cfs on basis of velocity-area studies; minimum, 1.8 cfs June 25, 26, 27, 28, 1951; minimum gage height, 2.69 ft May 19, 1954.

Remarks.--Records of chemical analyses for the period November 1954 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	14.2	7.27	3.04	5.95	10.1	16.6	-
1952	39.4	27.8	10.3	7.38	10.4	14.3	5.94	4.58	3.07	5.65	6.31	14.0	12.4
1953	61.7	21.5	8.34	7.34	9.41	10.5	13.8	9.09	6.05	6.75	23.8	66.8	20.4
1954	89.9	35.1	23.2	8.78	6.94	7.23	7.18	10.9	45.6	14.7	10.9	20.9	23.5
1955	25.2	15.0	9.04	9.59	8.46	6.29	5.52	5.10	8.32	6.63	5.07	9.53	9.49
1956	10.7	5.95	6.13	6.93	5.53	5.80	6.22	5.00	3.83	7.15	5.00	8.08	6.37
1957	59.6	7.69	5.30	6.25	6.50	10.2	11.8	5.79	5.68	8.78	19.4	13.8	13.5
1958	10.5	7.75	7.62	20.4	16.8	23.9	14.9	7.89	9.04	8.38	15.9	13.6	13.0
1959	17.3	12.1	10.1	13.1	14.9	30.5	15.8	10.3	23.9	12.4	14.6	23.7	16.6
1960	22.8	15.1	11.7	9.65	15.6	37.0	16.0	17.5	21.4	40.8	27.8	66.3	25.1

Monthly and yearly discharge, in acre-feet, of Crane Creek at Melbourne, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	846	447	181	366	619	985	-
1952	2,420	1,650	633	454	601	879	353	281	182	348	388	834	9,020
1953	3,790	1,280	513	451	522	645	819	559	360	415	1,460	3,970	14,780
1954	5,530	2,090	1,430	540	386	445	427	672	2,710	902	672	1,240	17,040
1955	1,550	893	556	590	470	387	328	314	495	408	312	567	6,870
1956	657	354	377	426	318	356	370	308	228	440	307	481	4,620
1957	3,670	458	326	394	561	627	689	356	338	537	1,190	822	9,780
1958	644	461	468	1,260	932	1,470	888	492	538	515	977	809	9,450
1959	1,060	718	624	805	830	1,880	938	636	1,420	765	918	1,410	12,000
1960	1,400	899	718	605	898	2,280	950	1,070	1,270	2,510	1,710	3,950	18,260

Note.--Figures given herein prior to October 1956 not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	-	-	-
1951	1204	a125	Sept. 30, 1951	b1.8	-	-	-	-	-	-	-
1952	1234	296	Oct. 2, 1951	2.4	12.4	0.984	13.45	9,020	13.6	14.75	9,900
1953	1274	444	Oct. 21, 1952	4.0	20.4	1.62	22.02	14,780	25.2	27.16	18,250
1954	1334	539	Oct. 9, 1953	4.5	23.5	1.87	25.34	17,040	15.2	16.36	10,990
1955	1384	76	Oct. 30, 1954	3.1	9.49	.753	10.24	6,870	7.26	7.84	5,260
1956	1434	61	Sept. 18, 1956	3.2	6.37	.506	6.88	4,620	10.6	11.44	7,680
1957	1504	608	Oct. 16, 1956	4.2	13.5	1.07	14.51	9,760	9.50	10.23	6,880
1958	1554	173	Feb. 26, 1958	5.0	13.0	1.03	14.06	9,450	14.2	15.29	10,280
1959	1624	179	June 18, 1959	5.9	16.6	1.32	17.88	12,000	17.4	18.79	12,620
1960	1704	320	Sept. 24, 1960	8.3	25.1	1.99	27.16	18,260	-	-	-

a Maximum during period March to September.

b Minimum day during period March to September.

Note.--Figures of runoff, in acre-feet, for water years 1952-56 not previously published.

2500. Turkey Creek near Palm Bay, Fla.

Location.--Lat 28°00'46", long 80°36'28", in Spt sec. 27, T.28 S., R.37 E., on left bank 500 ft upstream from powerline crossing, 2.2 miles southwest of Palm Bay, Brevard County, 2.6 miles upstream from Indian River, and 4½ miles south of Melbourne.

Drainage area.--95.5 sq mi.

Records available.--October 1954 to December 1955 (discharge measurement only), January 1956 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 1.03 ft below mean sea level, datum of 1929. Prior to Jan. 11, 1956, staff gage at same site and datum.

Extremes.--1956-60: Maximum discharge, 2,790 cfs Oct. 16, 1956 (gage height, 13.73 ft, from floodmark); minimum, 22 cfs July 16, 1958 (gage height, 1.77 ft).

Remarks.--An undetermined amount of water is diverted into the St. Johns River by pumps in the Melbourne-Tillman drainage district.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	43.8	36.0	29.4	37.7	43.3	42.5	56.2	58.4	145	-
1957	931	366	136	106	52.3	108	81.8	104	85.8	119	154	195	205
1958	135	41.4	63.7	353	182	250	105	40.2	32.5	44.8	57.7	55.8	112
1959	87.0	51.3	41.2	66.6	85.4	274	93.1	52.0	326	147	120	172	126
1960	311	112	64.1	41.8	97.9	478	101	136	396	517	208	770	202

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	2,690	2,070	1,800	2,250	2,660	2,530	3,460	3,590	8,650	-
1957	57,240	21,780	8,360	6,500	2,910	6,630	4,870	6,370	5,100	7,330	9,490	11,600	148,200
1958	8,280	2,460	3,920	21,700	8,990	16,360	6,230	2,470	1,930	2,760	3,550	3,320	80,970
1959	5,350	3,050	2,530	4,090	4,740	16,880	5,540	3,200	19,410	9,050	7,390	10,220	91,450
1960	19,120	6,680	3,940	2,570	5,630	28,410	6,040	8,350	23,550	31,760	12,820	45,810	195,700

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Acre-feet		Mean	Acre-feet		
		Discharge	Date								
1956	1434	a572	Sept. 10, 1956	-	-	-	-	161	117,100	-	-
1957	1504	2,790	Oct. 16, 1956	32	205	148,200	104	75,460	-	-	-
1958	1554	1,100	Jan. 24, 1958	23	112	80,970	107	77,240	-	-	-
1959	1624	1,110	Mar. 20, 1959	27	126	91,450	152	110,300	-	-	-
1960	1704	1,640	Sept. 23, 1960	28	270	195,700	-	-	-	-	-

a Maximum during period January to September.

2520. Fellsmere Canal near Fellsmere, Fla.

Location.--Lat 27°49'18", long 80°36'27", in NW¼ sec.2, T.31 S., R.37 E., near right bank on downstream side of bridge on State Highway 507, 3.3 miles north of Fellsmere, Indian River County, and 5.9 miles upstream from North Prong Sebastian Creek.

Drainage area.--78.4 sq mi.

Records available.--February 1955 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 7.90 ft above mean sea level, datum of 1929.

Average discharge.--5 years (1955-60), 153 cfs (110,800 acre-ft per year).

Extremes.--1955-60: Maximum discharge, 1,880 cfs Oct. 16, 1956 (gage height, 13.20 ft, from floodmark); minimum, 24 cfs May 22, 27, 1956; minimum gage height, 1.54 ft June 7, 8, 9, 1958.

Remarks.--Records include undetermined amount of flow diverted from Blue Cypress Lake for irrigation. Records of chemical analyses for the period October 1954 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	106	112	95.3	97.4	126	124	70.8	98.2	-
1956	179	57.5	68.5	61.1	53.1	38.6	35.0	31.8	37.7	103	123	265	87.9
1957	712	185	88.3	61.8	61.0	100	66.4	125	144	124	309	207	183
1958	123	38.8	63.5	239	159	181	141	46.5	46.2	86.7	163	45.7	111
1959	148	57.4	53.9	71.7	65.6	328	104	63.0	502	186	110	220	159
1960	314	112	64.9	49.1	125	317	142	72.1	282	290	222	689	223

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	5,860	6,910	5,670	5,990	7,470	7,650	4,350	5,840	-
1956	11,000	3,420	4,210	3,760	3,050	2,380	2,080	1,960	2,250	6,320	7,570	15,790	63,790
1957	43,760	10,980	5,430	3,800	3,390	6,160	3,950	7,700	8,550	7,650	19,020	12,320	132,700
1958	7,540	2,310	3,910	14,710	8,820	11,150	8,390	2,860	2,750	5,330	10,020	2,720	80,510
1959	9,100	3,420	3,320	4,410	3,640	20,180	6,160	3,870	29,890	11,450	6,770	13,120	115,300
1960	19,290	6,660	3,990	3,020	7,190	19,490	8,450	4,430	16,800	17,840	13,630	41,000	161,800

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-
1955	1434	a373	July 2, 1955	-	-	-	-	-
1956	1434	1,010	Sept.10, 1956	25	87.9	63,790	145	105,300
1957	1504	1,880	Oct. 16, 1956	37	183	132,700	119	86,280
1958	1554	723	Jan. 27, 1958	29	111	80,510	114	82,590
1959	1624	1,460	June 19, 1959	33	159	115,300	179	129,400
1960	1704	1,760	Sept.24, 1960	40	223	161,800	-	-

a Maximum during period February to September.

2525. North Canal near Vero Beach, Fla.

Location--Lat 27°41'32", long 80°25'00", in SE $\frac{1}{4}$ sec.15, T.32 S., R.39 E., on left bank 600 ft upstream from bridge on U.S. Highway 1 and 3.9 miles north of Vero Beach, Indian River County.

Records available--November 1950 to September 1960.

Gage--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to Feb. 27, 1952, at site 50 ft downstream at datum 0.81 ft lower. Feb. 27, 1952, to Nov. 5, 1957, at bridge 600 ft downstream at present datum.

Extremes--1950-60: Maximum discharge, 1,790 cfs Sept. 23, 1960 (from floodmarks); maximum gage height, 11.78 ft June 18, 1959; minimum daily discharge, 3 cfs July 1, 2, 1952, Mar. 9-12, 15, 17, 20, 1956.

Remarks--Considerable pumping into canal for drainage above station. Since Sept. 7, 1954, low flow regulated by control dam 2 miles upstream. Records of chemical analyses for the period November 1954 to September 1959 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	18.2	15.2	23.2	16.9	65.9	22.9	12.2	12.8	22.5	18.0	-
1952	92.2	38.3	19.6	21.6	35.9	22.1	16.3	13.3	11.6	11.5	16.6	16.9	26.3
1953	78.1	20.4	18.8	11.9	12.6	19.7	20.2	14.8	13.3	35.9	46.6	97.4	32.6
1954	162	38.4	25.7	19.8	17.3	16.5	23.1	18.4	110	34.5	28.9	48.9	45.4
1955	53.5	38.6	12.3	13.5	12.5	18.5	14.7	7.6	15.2	12.2	31.2	9.8	20.0
1956	15.4	7.0	7.2	4.5	4.8	4.0	12.7	5.2	5.2	21.5	9.4	75.2	14.3
1957	175	24.3	10.6	31.7	22.2	35.4	30.1	45.0	16.9	13.2	37.4	59.5	42.0
1958	54.5	9.41	8.52	50.4	19.9	18.7	20.6	11.1	14.1	10.7	9.28	10.0	19.6
1959	8.18	7.89	7.60	10.1	7.22	47.1	13.5	11.5	118	56.3	32.4	51.4	31.0
1960	66.6	20.8	10.8	9.82	27.4	76.7	14.2	22.2	34.6	35.6	25.4	280	51.6

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	1,120	934	1,290	1,040	3,920	1,410	726	787	1,380	1,070	-
1952	5,670	2,280	1,200	1,330	2,070	1,380	968	819	692	710	1,020	1,010	19,130
1953	4,800	1,220	1,150	754	700	1,210	1,200	910	789	2,210	2,870	5,790	25,580
1954	9,970	2,280	1,580	1,220	960	1,020	1,580	1,150	6,540	2,120	1,780	2,810	32,890
1955	3,290	2,300	754	851	692	1,150	873	466	906	748	1,920	581	14,490
1956	944	417	440	278	278	244	758	321	307	1,510	579	4,480	10,360
1957	10,740	1,450	655	1,950	1,240	2,170	1,790	2,760	1,000	813	2,300	3,540	30,410
1958	3,350	560	512	3,100	1,100	1,030	1,220	683	839	656	569	597	14,220
1959	503	469	468	620	401	2,900	803	704	7,040	3,460	1,990	3,060	22,420
1960	4,090	1,240	664	804	1,570	4,720	847	1,360	2,060	2,190	1,440	16,650	37,440

Note.--Figures given herein prior to October 1951 not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30				Calendar year			
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet	
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	a293	Apr. 20, 1951	-	-	-	30.0	21,710	
1952	1234	456	Oct. 2, 1951	3	26.3	19,150	23.6	17,150	
1953	1274	417	Sept. 18, 1953	8	32.6	23,580	41.8	30,240	
1954	1334	695	Oct. 8, 1953	7	45.4	32,890	35.1	25,400	
1955	1584	350	Nov. 15, 1954	7	20.0	14,490	13.7	9,950	
1956	1434	774	Sept. 9, 1956	3	14.3	10,360	29.5	21,400	
1957	1504	1,280	Oct. 16, 1956	8	42.0	30,410	30.4	21,980	
1958	1554	490	Oct. 3, 1957	6.7	19.6	14,220	15.5	11,250	
1959	1624	1,210	June 18, 1959	5.2	31.0	22,420	37.2	26,970	
1960	1704	1,790	Sept. 23, 1960	8.3	51.6	37,440	-	-	

a Maximum during period November to September.

2530. Main Canal at Vero Beach, Fla.

Location.--Lat 27°38'54", long 80°24'10", in SE¼ sec.35, T.32 S., R.39 E., on right bank 8 ft upstream from dam, 700 ft upstream from U.S. Highway 1, and 0.6 mile northwest of Vero Beach, Indian River County.

Records available.--January 1949 to September 1960.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to Mar. 20, 1952, at datum 0.74 ft lower. Mar. 20, 1952, to Sept. 30, 1956, at datum 0.02 ft lower.

Extremes.--1949-60: Maximum discharge, 1,900 cfs Sept. 23, 1960 (gage height, 14.21 ft); minimum, 1.2 cfs Jan. 26, 1959; minimum gage height, 8.20 ft Oct. 1, 1958, Jan. 26, 1959.

Remarks.--Considerable pumping into canal for drainage above station. Slight regulation at low flow by control above station. Records of chemical analyses for the period November 1954 to September 1959 are published in reports of the Geological Survey.

Cooperation.--Records prior to October 1950 not previously published, computed from gage-height record furnished by Soil Conservation Service.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1949	-	-	-	*25.8	*28.9	*31.4	*33.2	*27.6	*66.8	*64.8	*134	*107	-
1950	*114	*50.3	*39.9	*28.7	*23.3	*24.8	*32.6	*41.8	*33.2	*40.5	*38.9	*31.8	*41.8
1951	199	53.1	27.0	21.9	44.0	26.2	93.6	33.5	27.4	43.9	59.3	35.4	55.5
1952	183	69.8	30.1	32.4	57.4	40.5	28.1	29.0	27.9	33.0	42.1	37.8	51.0
1953	184	47.5	33.5	28.3	26.7	31.7	27.6	23.8	33.4	63.4	76.2	222	66.6
1954	271	73.5	43.4	30.4	30.2	30.9	49.7	35.6	189	67.3	35.4	76.0	77.9
1955	149	104	18.7	30.5	29.2	34.6	32.0	18.0	27.6	33.2	31.0	37.6	45.5
1956	32.8	5.69	5.39	29.7	46.9	43.1	56.6	35.3	38.8	76.0	70.4	151	49.1
1957	267	52.5	53.4	77.4	77.1	94.0	72.5	91.3	69.4	66.6	77.6	106	92.4
1958	95.9	58.5	54.0	112	67.6	82.7	84.6	65.0	81.0	77.6	54.6	50.5	73.6
1959	40.2	42.4	54.0	63.5	54.6	118	72.0	89.2	203	116	93.1	143	90.8
1960	129	93.2	69.4	54.3	96.3	166	106	92.7	157	150	96.5	440	137

* Not previously published.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1949	-	-	-	*1,590	*1,600	*1,930	*1,980	*1,700	*3,970	*3,990	*3,230	*6,380	-
1950	*6,990	*2,990	*2,460	*1,760	*1,300	*1,530	*1,940	*2,570	*1,970	*2,490	*2,390	*1,890	*30,280
1951	*12,250	*3,160	*1,660	*1,350	*2,440	*1,610	*5,570	*2,060	*1,630	*2,700	*3,650	*2,110	*40,190
1952	11,270	4,150	1,850	1,990	3,500	2,490	1,670	1,780	1,660	2,030	2,590	2,250	37,030
1953	11,320	2,830	2,060	1,740	1,480	1,950	1,640	1,460	1,990	3,900	4,680	13,190	48,240
1954	16,690	4,370	2,670	1,870	1,680	1,900	2,960	2,190	11,260	4,140	2,180	4,520	56,430
1955	9,160	6,200	1,150	1,870	1,620	2,120	1,900	1,110	1,640	2,040	1,910	2,240	32,950
1956	2,020	339	332	1,820	2,700	2,650	3,370	2,170	2,310	4,670	4,330	8,960	35,670
1957	16,450	3,120	3,280	4,760	4,280	5,780	4,310	5,620	4,130	4,100	4,770	6,290	66,890
1958	5,770	3,480	3,320	6,880	3,750	5,090	5,030	3,990	4,820	4,770	3,360	3,010	53,270
1959	2,470	2,520	3,320	3,910	3,030	7,280	4,280	5,480	12,070	7,160	5,730	8,490	65,740
1960	7,960	5,550	4,270	3,340	5,540	10,230	6,320	5,700	9,360	9,240	5,930	26,160	99,600

Not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1949	-	*800	Aug. 27, 1949	-	-	-	*60.5	*43,810
1950	-	*625	Oct. 11, 1949	*21	*41.8	*30,280	*48.2	*34,910
1951	1204	1,380	Oct. 18, 1950	12	55.5	*40,190	*55.8	*40,390
1952	1234	990	Oct. 2, 1951	16	51.0	37,030	49.6	35,970
1953	1274	835	Sept. 18, 1953	18	66.6	48,240	77.0	55,760
1954	1354	997	Oct. 9, 1953	3.2	77.9	56,430	67.9	49,200
1955	1384	791	Nov. 14, 1954	3.6	45.5	32,950	26.4	19,140
1956	1434	1,020	Sept. 9, 1956	4.3	49.1	35,670	76.9	55,830
1957	1504	1,450	Oct. 16, 1956	5.3	92.4	66,890	78.2	56,610
1958	1554	820	June 28, 1958	5.0	73.6	53,270	67.7	49,010
1959	1624	1,470	June 18, 1959	3.3	90.8	65,740	104	75,210
1960	1704	1,900	Sept. 23, 1960	9.9	137	99,600	-	-

* Not previously published.

a Maximum during period January to September.

2535. South Canal near Vero Beach, Fla.

Location--Lat 27°36'11", long 80°23'24", in SW $\frac{1}{4}$ sec.13, T.33 S., R.39 E., on right bank 1,000 ft upstream from bridge on State Highway 605 and 2.5 miles south of Vero Beach, Indian River County.

Records available--October 1950 to September 1960.

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 1,000 ft downstream at datum 1.26 ft lower. Feb. 28, 1952, to Nov. 6, 1957, 20 ft upstream from bridge at datum 0.46 ft lower.

Extremes--1950-60: Maximum discharge, 1,670 cfs Sept. 23, 1960 (gage height, 10.59 ft); minimum daily, 2 cfs Aug. 14-16, 1956.

Remarks--Considerable pumping into canal for drainage above station. Since Jan. 6, 1956, low flow regulated by control above station. Records of chemical analyses for the period November 1954 to September 1959 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	114	27.5	19.5	21.3	22.0	21.1	86.8	29.2	13.0	32.4	20.9	28.0	36.4
1952	141	41.1	25.0	22.6	27.9	21.4	19.0	18.1	17.5	21.8	26.7	22.4	33.8
1953	137	30.6	23.8	19.3	17.7	20.7	18.7	16.2	18.7	36.2	34.3	90.9	38.8
1954	132	51.9	38.0	25.2	27.4	26.7	40.4	27.3	112	29.7	35.5	57.2	50.3
1955	91.4	81.0	49.6	39.6	38.8	35.5	33.5	32.5	42.6	50.0	41.5	30.2	47.3
1956	36.2	49.1	51.4	12.2	5.8	4.9	4.9	5.2	4.9	10.2	5.0	104	24.4
1957	171	19.7	8.9	28.8	33.0	38.0	49.0	28.9	15.9	12.9	80.4	98.1	47.2
1958	71.6	8.24	6.13	71.2	23.1	13.3	12.6	7.76	7.83	8.53	6.15	16.4	21.2
1959	8.96	15.1	11.5	6.75	5.23	70.3	19.9	18.0	139	74.4	36.1	85.4	40.9
1960	82.3	20.3	9.99	10.4	27.3	74.2	32.2	39.2	85.5	49.1	32.1	280	61.6

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	*7,020	*1,640	*1,200	*1,310	*1,220	*1,300	*5,160	*1,800	*774	*1,990	*1,290	*1,670	*26,370
1952	8,670	2,440	1,540	1,390	1,610	1,320	1,130	1,110	1,040	1,340	1,640	1,330	24,560
1953	8,400	1,820	1,480	1,190	984	1,270	1,110	996	1,110	2,350	2,110	5,410	28,090
1954	8,140	3,090	2,340	1,550	1,520	1,640	2,400	1,680	6,660	1,830	2,180	3,410	36,440
1955	5,620	4,820	3,050	2,440	2,150	2,180	2,000	2,000	2,540	3,070	2,550	1,800	34,220
1956	2,220	2,920	3,160	748	335	301	290	321	294	629	307	6,190	17,720
1957	10,520	1,170	543	1,770	1,830	2,330	2,910	1,780	948	795	3,710	5,840	34,150
1958	4,400	491	377	4,380	1,290	819	751	477	466	524	378	978	15,330
1959	551	901	708	415	291	4,330	1,190	1,110	8,270	4,570	2,220	5,080	29,640
1960	5,060	1,210	614	637	1,570	4,560	1,920	2,410	5,090	3,020	1,970	16,650	44,710

* Not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30				Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean
		Discharge	Date				
1950	-	-	-	-	-	-	-
1951	1204	707	Oct. 18, 1950	4	36.4	*26,370	40.3
1952	1234	690	Oct. 2, 1951	11	33.8	24,560	32.5
1953	1274	446	Oct. 25, 1952	6	38.8	28,090	41.4
1954	1334	603	Oct. 8, 1953	12	50.3	36,440	50.2
1955	1384	468	Oct. 9, 1954	20	47.3	24,220	40.1
1956	1434	1,130	Sept. 9, 1956	2	24.4	17,720	29.8
1957	1504	1,220	Oct. 16, 1956	7	47.2	34,150	37.6
1958	1554	560	Oct. 1, 1957	3.4	21.2	15,330	16.9
1959	1624	1,310	June 18, 1959	3.7	40.9	29,640	47.5
1960	1704	1,670	Sept. 23, 1960	8.2	61.6	44,710	-

* Not previously published.

2550. Lake Okeechobee, Fla.

Location.--Center of lake, lat 26°57', long 80°50', in southern Florida.Surface area.--700 sq mi (448,000 acres), at elevation 14 ft above mean sea level, from data furnished by Corps of Engineers.Records available.--October 1931 to September 1960 in reports of Geological Survey. 1912 to 1914 in reports or files of Corps of Engineers and 1915 to 1931 in reports or files of Everglades Drainage District.Gage.--Three staff gages read once daily at Hurricane Gate No. 2, Hurricane Gate No. 6, and Port Mayaca. Datum of gages is at mean sea level (levels by Corps of Engineers). 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. Prior to Oct. 1, 1933, at datum 1.01 ft lower. Oct. 1, 1933, to Sept. 30, 1946, at datum 1.44 ft lower.Extremes.--1931-60: Maximum average daily contents observed, 5,840,000 acre-ft Nov. 2, 1947 (elevation, 18.77 ft); maximum elevation, 24.0 ft Aug. 26, 1949, at Hurricane Gate No. 4 (wind effect); minimum average daily contents observed, 2,130,000 acre-ft Aug. 17, 1956 (elevation, 10.14 ft).Remarks.--Reservoir is formed by diked natural lake. Stage of lake regulated by gates at several lake outlets. Total usable capacity of lake, 1,300,000 acre-ft between elevations 12.6 and 15.6 ft. Lake is used to store water for flood control and irrigation. Figures given herein represent total contents.Cooperation.--Records not previously published, furnished by Corps of Engineers.

Contents, in thousands of acre-feet, on last day of month												
Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	3,500	3,500	3,500	3,360	3,360	3,160	3,200	3,120	3,080	3,240	3,450	3,540
1952	4,300	4,060	4,020	3,920	4,020	3,800	3,410	3,200	3,120	3,200	3,410	3,620
1953	4,400	4,160	4,100	4,160	4,020	3,660	3,450	3,120	3,320	3,540	3,660	4,500
1954	5,260	4,960	4,500	4,200	4,060	3,800	3,620	3,320	3,580	3,580	3,360	3,660
1955	3,760	3,760	3,760	3,760	3,700	3,500	3,320	3,120	3,360	3,360	3,360	3,410
1956	3,280	3,160	3,080	3,000	2,920	2,700	2,520	2,380	2,240	2,210	2,180	2,340
1957	3,000	3,000	3,000	3,080	3,120	3,240	3,320	3,410	3,280	3,320	3,540	3,980
1958	3,880	3,920	4,200	4,540	4,100	4,100	3,840	3,360	3,200	3,240	3,260	3,410
1959	3,450	3,360	3,500	3,500	3,410	3,660	3,500	3,410	4,060	4,020	3,600	3,920
1960	4,440	4,300	4,060	3,920	4,060	3,840	3,660	3,280	3,410	3,500	3,700	4,860

2560. Fisheating Creek near Venus, Fla.

Location.--Lat 27°03'57", long 81°25'52", in SW $\frac{1}{4}$ sec.21, T.39 S., R.29 E., near right bank on downstream side of bridge on State Highway 731, 2.2 miles downstream from Bootheel Creek, $\frac{1}{2}$ miles west of Venus, Highlands County, and 14 miles upstream from Palmdale gage.

Drainage area.--195 sq mi, approximately.

Records available.--February 1955 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 46.52 ft above mean sea level, datum of 1929.

Average discharge.--5 years (1955-60), 191 cfs (138,300 acre-ft per year).

Extremes.--1955-60: Maximum discharge, 5,120 cfs June 18, 1959; maximum gage height, 16.98 ft Sept. 11, 1960; no flow at times in some years.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	4.53	1.38	1.36	6.13	108	148	143	-
1956	5.79	0.25	0.40	0.44	0.64	0	0	0	0	.18	0	5.46	1.10
1957	45.9	4.03	.60	.45	4.31	66.5	9.04	42.5	121	110	326	419	96.1
1958	406	33.7	51.0	346	109	206	210	160	98.1	340	326	53.2	197
1959	52.0	13.6	14.4	21.6	12.6	222	54.4	27.5	652	638	525	652	258
1960	958	110	36.7	15.5	193	426	63.7	38.9	125	273	906	1,641	401

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	278	82	84	365	6,650	9,120	8,520	-
1956	356	15	25	27	37	0	0	0	0	11	0	325	796
1957	2,820	240	27	28	239	4,090	538	2,610	7,210	6,770	20,040	24,940	69,560
1958	24,960	2,010	3,130	21,300	6,080	12,680	12,530	9,870	5,840	20,890	20,030	3,170	142,500
1959	5,200	811	882	1,340	699	13,630	3,240	1,690	36,800	39,240	32,290	50,720	186,500
1960	58,880	6,580	2,260	956	11,080	26,180	4,980	2,390	7,440	16,780	55,700	97,650	290,900

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-
1955	1434	a340	Sept. 2, 1955	0	-	-	-	-	-	-	-
1956	1434	23	Sept.10, 1956	0	1.10	0.0056	0.07	*796	4.82	0.33	3,500
1957	1504	1,820	Aug. 24, 1957	0	96.1	.493	6.68	69,560	133	9.27	96,570
1958	1554	3,180	Aug. 12, 1958	11	197	1.01	13.69	142,500	162	11.27	117,300
1959	1624	5,120	June 18, 1959	6.7	258	1.32	17.93	186,500	344	23.97	249,400
1960	1704	5,020	Sept.11, 1960	3.1	401	2.06	27.98	290,900			

* Not previously published.

a Maximum during period February to September.

2565. Fisheating Creek at Palmdale, Fla.

Location.--Lat 26°55'56", long 81°18'54", in SW¼ 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, Glades County, and 16 miles upstream from Lake Okeechobee.

Drainage area.--435 sq mi, approximately.

Records available.--April 1931 to September 1960.

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 and Mar. 16, 1949, to Jan. 23, 1956, water-stage recorder, at site 450 ft upstream at same datum.

Average discharge.--29 years (1931-60), 282 cfs (204,200 acre-ft per year).

Extremes.--1931-60: 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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	107	22.8	6.89	1.45	12.3	0.23	0	0	0	18.5	254	585	83.9
1952	3,822	272	96.7	18.5	32.4	34.6	14.9	20.3	37.1	197	335	150	425
1953	1,229	256	49.1	70.9	65.7	9.15	2.27	0	1,206	842	1,475	2,509	644
1954	2,086	355	182	60.1	23.2	27.2	1.86	0	403	876	841	822	459
1955	448	92.0	64.6	55.3	50.8	4.61	.21	2.05	13.7	173	232	280	119
1956	56.6	6.68	1.83	.52	.69	0	0	0	0	2.09	3.24	92.2	13.6
1957	171	25.0	.97	.67	9.01	183	15.4	81.6	397	322	754	1,053	252
1958	1,071	91.1	96.1	589	322	357	486	362	276	581	583	101	412
1959	105	34.6	33.4	59.1	18.4	393	91.6	16.2	1,106	1,204	644	1,266	415
1960	1,734	288	117	62.0	463	777	146	55.4	186	398	1,276	2,556	671

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6,570	1,360	423	89	681	14	0	0	0	1,140	15,620	34,830	60,730
1952	235,000	16,200	5,940	1,140	1,860	2,130	898	1,250	2,200	12,100	20,620	8,940	308,300
1953	75,590	15,240	3,020	4,360	3,650	563	135	0	71,790	51,770	90,720	149,300	466,100
1954	128,500	21,120	9,960	3,700	1,290	1,670	99	0	23,980	53,830	39,440	48,920	332,300
1955	27,520	5,470	3,970	3,270	2,820	283	12	126	816	10,650	14,260	16,650	85,850
1956	3,480	397	100	32	39	0	0	0	0	128	199	5,490	9,860
1957	10,510	1,490	60	41	500	11,280	919	5,020	23,620	19,770	46,390	62,630	182,200
1958	65,850	5,420	5,910	36,220	17,880	21,970	28,930	22,240	16,400	35,710	35,860	5,990	298,400
1959	6,480	2,060	2,050	3,630	1,020	24,180	5,450	994	65,790	74,000	59,590	75,320	300,500
1960	106,600	17,150	7,200	5,810	26,650	47,790	8,670	3,410	11,040	24,450	78,470	152,100	487,300

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	25.3	0.78	18,340
1951	1204	1,430	Sept. 5, 1951	0	83.9	0.193	2.61	60,730	428	13.34	309,500
1952	1274	51,400	Oct. 3, 1951	0	425	1.977	13.50	308,300	200	6.26	145,000
1953	1274	6,200	Aug. 30, 1953	0	644	1.48	20.10	466,100	734	22.92	531,700
1954	1334	7,520	Oct. 10, 1953	0	459	1.06	14.32	332,300	290	9.05	209,900
1955	1384	8644	Aug. 1, 1955	0	119	.274	3.71	85,850	73.0	2.28	52,860
1956	1434	258	Sept. 9, 1956	0	13.6	.031	.43	9,860	24.7	.77	17,950
1957	1504	3,800	Aug. 25, 1957	0	252	.579	7.86	182,200	342	10.66	247,400
1958	1554	3,230	Aug. 13, 1958	33	412	.947	12.87	298,400	320	10.01	231,800
1959	1624	6,220	June 20, 1959	5.5	415	.954	12.96	300,500	586	18.28	424,000
1960	1704	7,250	Sept. 13, 1960	11	671	1.54	21.00	487,300	-	-	-

a Maximum peak discharge; maximum discharge during year, 1,340 cfs Oct. 1, 1954, stage falling.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2615. 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 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, Osceola County.

Drainage area.--111 sq mi.

Records available.--October 1949 to September 1960. Monthly discharge only for October 1949, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 57.08 ft above mean sea level (levels by Corps of Engineers). Since Oct. 1, 1955, auxiliary water-stage recorder on west shore of Lake Mary Jane, 2 miles from mouth of canal.

Average discharge.--11 years (1949-60), 129 cfs (93,390 acre-ft per year).

Extremes.--1949-60: Maximum daily discharge, 990 cfs Sept. 27, 1960; maximum gage height, 8.26 ft Sept. 26, 27, 1960; maximum daily reverse flow, 17 cfs Sept. 10, 11, 1956; minimum gage height, 1.88 ft July 1, 1950.

Remarks.--Records include small diversion from Brick Lake through Brick-Alligator Canal.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	143	171	102	76.2	58.0	37.4	30.6	22.7	20.4	68.5	218	200	96.6
1952	286	262	219	128	105	133	131	61.2	45.6	83.2	88.1	97.8	137
1953	252	265	141	118	140	108	185	116	68.9	87.5	206	598	190
1954	602	310	361	221	118	80.2	60.8	45.0	190	142	116	75.3	194
1955	117	117	90.5	58.8	67.4	54.9	34.5	13.1	5.38	30.1	118	223	77.4
1956	119	61.4	44.1	30.7	21.8	14.2	9.11	5.39	2.87	1.85	-75	19.0	27.5
1957	330	248	86.1	54.6	40.7	38.8	97.5	102	102	74.3	88.0	156	118
1958	167	75.4	50.9	78.0	95.2	148	154	87.4	48.5	71.1	61.7	38.9	89.8
1959	21.7	16.6	11.6	32.3	63.3	227	288	174	150	237	223	242	141
1960	326	234	133	95.3	82.8	349	280	145	148	228	408	670	258

Note.--Negative figure indicates reverse flow.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	8,770	10,200	6,270	4,680	3,780	2,300	1,820	1,400	1,210	4,210	13,380	11,920	69,940
1952	17,590	15,570	13,460	7,850	6,040	8,180	7,820	3,760	2,710	5,120	5,420	5,820	99,340
1953	15,510	15,820	8,670	7,270	7,750	6,630	11,010	7,120	4,100	5,380	12,690	35,600	137,600
1954	36,990	18,470	22,210	13,580	6,540	4,930	3,620	2,760	11,330	8,780	7,110	4,480	140,800
1955	7,200	6,960	5,570	3,610	3,740	3,380	2,050	808	320	1,850	7,250	13,270	56,010
1956	7,320	3,660	2,710	1,890	1,250	872	542	331	171	113	-47	1,130	19,940
1957	20,270	14,780	5,290	3,360	2,260	2,380	5,800	6,260	6,040	4,570	5,410	9,290	85,710
1958	10,300	4,490	3,130	4,790	5,290	9,120	9,180	5,370	2,890	4,370	3,800	2,320	65,050
1959	1,330	990	713	1,980	3,520	13,970	17,160	10,700	8,940	14,600	13,710	14,420	102,000
1960	20,070	13,900	8,160	5,860	4,760	21,430	16,640	8,940	8,810	14,030	25,100	39,870	187,600

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	69.2	8.46	50,100	
1951	1204	320	Oct.23-27, 1950	14	96.6	0.870	11.82	69,940	126	15.43	
1952	1234	363	Nov.23,24, 1951	41	137	1.23	16.78	99,340	128	15.66	
1953	1274	a418	Oct. 28, 1952	59	190	1.71	23.22	137,600	242	29.59	
1954	1334	703	Oct. 1, 1953	24	194	1.75	23.78	140,800	114	13.99	
1955	1384	273	Sept.11,12,1955	2.9	77.4	.697	9.46	56,010	69.0	8.44	
1956	1434	b156	Oct. 1, 1955	-17	27.5	.248	3.39	19,940	64.2	7.88	
1957	1504	b701	Oct. 23, 1956	28	118	1.06	14.47	85,710	87.4	10.69	
1958	1554	b221	Oct. 5, 1957	30	89.8	.809	10.99	65,050	69.3	8.48	
1959	1624	b429	Mar. 24, 1959	8.2	141	1.27	17.26	102,000	195	23.66	
1960	1704	b990	Sept.27, 1960	63	258	2.32	31.68	187,600	-	-	

a Maximum peak discharge; maximum discharge during year, 701 cfs Sept. 30, 1953, stage rising.

b Maximum day.

Note.--Negative figure indicates reverse flow. Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2629. Boggy Creek near Taft, Fla.

Location--Lat 28°22'16", long 81°18'39", in NE¹ sec.28, T.24 S., R.30 E., on left bank 350 ft west of Boggy Creek Road, 450 ft downstream from Boggy Creek Swamp, 2.0 miles upstream from bridge on State Highway 530, 3.5 miles upstream from mouth, and 5.5 miles southeast of Taft, Orange County.

Drainage area--83.6 sq mi.

Records available--September 1959 to September 1960.

Gage--Water-stage recorder. Datum of gage is 56.08 ft above mean sea level, datum of 1929. Water-stage recorder for station East Tohopekaliga-Tohopekaliga Canal is used as an auxiliary gage for this station.

Extremes--1959-60: Maximum discharge, 3,680 cfs Mar. 18, 1960 (gage height, 13.64 ft, from floodmarks); minimum, 4.4 cfs June 2, 1960 (gage height, 2.96 ft).

Remarks--Some diversion to ground water through drainage wells in lakes above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	-	-	232	-
1960	177	24.5	17.0	12.9	50.4	484	54.2	16.3	16.5	169	126	467	135

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	-	-	13,810	-
1960	10,870	1,460	1,050	794	2,900	29,770	3,230	1,000	981	10,380	7,730	27,800	97,960

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff		
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet	
1959	1704	-	-	-	-	-	-	-	-	-	-	-
1960	1704	3,680	Mar. 18, 1960	4.9	135	1.61	21.98	97,960	-	-	-	-

2635. St. Cloud Canal near St. Cloud, Fla.
(Formerly published as East Tohopekaliga-Tohopekaliga Canal near St. Cloud)

Location--Lat 28°15'30", long 81°16'57", in NE¹ sec.2, T.26 S., R.30 E., in boat basin on south shore of East Lake Tohopekaliga at St. Cloud, Osceola County, and 1¹/₂ miles east of lake outlet.

Drainage area--300 sq mi.

Records available--January 1942 to September 1960. Published as East Tohopekaliga-Tohopekaliga Canal near St. Cloud.

Gage--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to Mar. 5, 1943, staff gage at site on south shore of East Lake Tohopekaliga at datum 53.99 ft (revised) higher. Mar. 5, 1943, to Dec. 31, 1949, staff gage at present site at datum 51.38 ft (revised) higher. Jan. 1, 1950, to Sept. 30, 1956, staff gage at site 300 ft downstream from lake outlet at datum 52.32 ft higher.

Average discharge--18 years (1942-60), 266 cfs (192,600 acre-ft per year).

Extremes--1942-60: Maximum discharge, 1,600 cfs Sept. 30, 1960 (gage height, 62.30 ft, affected by wind); no flow for many days in some years.

Remarks--Records do not include diversions from Lake Mary Jane through Disston Canal (formerly known as Econlockhatchee Headwaters Canal), in St. Johns River basin.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	163	331	282	239	206	147	110	83.0	60.0	119	314	329	198
1952	485	469	491	395	512	305	295	209	164	137	125	150	295
1953	193	323	304	256	236	212	285	308	247	226	291	629	293
1954	1052	848	797	633	420	306	224	144	222	297	295	240	458
1955	214	195	184	143	121	88.6	64.8	9.73	1.18	.99	17.1	55.3	91.0
1956	98.7	92.8	84.7	71.8	67.6	40.5	9.69	6.16	.02	0	0	9.36	40.1
1957	326	644	423	269	204	159	158	170	187	191	210	323	272
1958	382	275	204	196	203	343	409	332	233	226	198	141	262
1959	95.4	73.0	50.3	65.9	88.4	249	492	440	361	502	590	664	306
1960	845	739	499	337	254	599	902	556	378	403	719	1,175	617

Monthly and yearly discharge, in acre-feet, of St. Cloud Canal near St. Cloud, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	10,000	19,710	17,310	14,700	11,440	9,070	6,560	5,100	3,570	7,300	19,280	19,570	143,600
1952	29,790	27,900	30,180	24,320	17,940	18,750	17,410	12,830	9,750	8,430	7,590	8,940	213,800
1953	11,840	19,230	18,670	15,730	13,110	13,060	16,980	18,910	14,710	14,200	17,920	37,420	211,800
1954	64,660	50,440	48,990	38,930	23,340	18,800	13,310	8,800	13,220	18,260	18,140	14,270	331,200
1955	13,150	11,580	11,330	8,780	6,690	5,450	3,860	598	70	61	1,050	3,290	65,910
1956	6,070	5,520	5,210	4,410	3,890	2,490	577	379	12	0	0	557	29,100
1957	20,070	38,330	26,040	16,510	11,360	9,780	9,390	10,440	11,150	11,760	12,920	19,230	197,000
1958	23,500	16,340	12,570	12,030	11,260	21,120	24,320	20,410	13,850	13,930	12,150	8,360	189,900
1959	5,870	4,350	3,090	3,930	4,910	15,330	29,260	27,040	21,490	30,840	36,270	39,510	221,900
1960	51,980	43,970	30,710	20,720	14,620	36,860	53,650	34,190	22,500	24,810	44,240	69,790	448,000

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff	Mean	Runoff		
		Discharge	Date						Inches	Acre-feet	
1950	-	-	-	-	-	-	-	183	8.29	132,700	-
1951	1204	a349	Nov. 14, 1950	48	198	0.660	8.97	143,600	255	11.52	184,500
1952	1234	523	Nov. 29, 1951	112	295	0.983	13.36	213,800	242	10.98	175,700
1953	1274	b357	Apr. 29, 1953	162	293	0.977	13.24	211,800	450	20.38	326,100
1954	1334	1,110	Oct. 13, 1953	107	458	1.53	20.70	331,200	281	12.70	203,200
1955	1364	(c)	-	0	91.0	1.303	4.13	65,910	64.4	2.94	46,650
1956	1434	d103	Oct. 15, 1955	0	40.1	1.134	1.83	29,100	133	6.05	96,740
1957	1504	723	Nov. 3, 1956	39	272	0.907	12.32	197,000	228	10.32	165,000
1958	1554	446	Apr. 21, 1958	120	262	0.873	11.87	189,900	208	9.42	150,800
1959	1624	666	Sept. 28, 1959	39	306	1.02	13.88	221,900	463	20.97	335,200
1960	1704	1,800	Sept. 30, 1960	243	617	2.06	28.00	448,000	-	-	-

a Maximum peak discharge; maximum discharge during year, 428 cfs Sept. 30, 1951, stage rising.

b Maximum peak discharge; maximum discharge during year, 969 cfs Sept. 30, 1953, stage rising.

c No independent peak during year; maximum discharge, 236 cfs Oct. 12, 1954, stage falling.

d Maximum day.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2638. Shingle Creek at airport, near Kissimmee, Fla.

Location.--Lat 28°18'14", long 81°27'04", on line between secs. 18 and 19, T.25 S., R.29 E., near center of span on downstream side of bridge on State Highway 530, 1 mile northwest of Kissimmee Airport, and 3 miles west of Kissimmee, Osceola County.

Drainage area.--86.4 sq mi (revised).

Records available.--October 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 60.66 ft above mean sea level, datum of 1929.

Extremes.--1958-60: Maximum discharge, 3,320 cfs Mar. 18, 1960 (gage height, 11.00 ft); no flow for many days in some years.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	1.36	24.0	11.3	55.4	21.6	304	114	29.3	74.6	154	147	213	96.2
1960	199	33.6	12.4	13.3	45.2	506	45.4	.37	20.4	216	157	564	151

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	84	1,430	892	3,400	1,200	18,690	6,790	1,800	4,430	9,440	9,050	12,850	69,660
1960	12,260	2,000	765	816	2,600	31,100	2,700	23	1,210	13,270	9,660	33,590	110,000

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff	Mean	Runoff		
		Discharge	Date						Inches	Acre-feet	
1959	1624	1,250	Mar. 20, 1959	0.3	96.2	1.11	15.12	69,660	114	17.90	62,480
1960	1704	3,320	Mar. 18, 1960	0	151	1.75	23.88	110,000	-	-	-

2640. Cypress Creek at Vineland, Fla.

Location.--Lat 28°23'25", long 81°31'11", in NW¹ sec.21, T.24 S., R.28 E., at upstream side of culverts on State Highway 535, 1 mile west of Vineland, Orange County.

Drainage area.--30.3 sq mi (revised).

Records available.--August 1945 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 96.20 ft above mean sea level, datum of 1929. Prior to June 13, 1946, staff gage at same site and datum.

Average discharge.--15 years (1945-60), 11.0 cfs (7,960 acre-ft per year).

Extremes.--1945-60: Maximum discharge, 354 cfs Sept. 11, 1960 (gage height, 4.66 ft); no flow for many days in most years.

Remarks.--Some diversions by pumping above station for irrigation.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	5.04	0.73	3.05	1.35	2.65	0.48	0.69	0.06	0.05	3.66	7.73	4.86	2.54
1952	6.41	7.96	2.32	.92	2.66	3.87	1.36	.11	.03	.02	.06	1.07	2.24
1953	3.45	.95	.37	.62	1.33	.63	3.85	.42	1.24	2.75	10.8	57.2	6.96
1954	82.2	37.0	46.4	26.7	11.5	5.37	2.00	.60	1.57	1.54	2.22	.75	18.3
1955	1.55	1.09	.75	.65	.58	.08	.12	.06	.25	1.57	1.67	2.04	.87
1956	.88	.50	.18	.33	.34	.01	0	.003	.04	.06	.02	.05	.20
1957	6.20	.96	.20	.07	.08	.47	1.14	1.89	1.66	2.12	2.85	4.48	1.86
1958	2.19	.28	.54	2.54	2.91	15.1	20.0	9.76	2.75	2.59	1.62	1.20	5.14
1959	.37	1.96	1.21	6.08	1.45	32.3	35.4	14.2	20.8	48.4	74.4	72.4	25.9
1960	74.4	32.4	12.3	6.91	12.3	82.3	51.9	19.5	10.5	28.5	44.0	110	40.7

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	310	43	187	83	147	30	41	3.8	3.2	225	475	289	1,840
1952	394	473	143	57	164	238	81	6.9	1.6	1.2	3.6	64	1,630
1953	212	56	23	38	74	39	229	26	74	169	665	3,400	5,000
1954	5,050	2,200	2,850	1,640	640	330	119	37	93	95	136	45	13,240
1955	96	65	46	40	32	5.0	6.9	3.8	15	97	103	121	631
1956	54	30	11	20	20	.8	0	.2	2.2	4.0	1.2	3.0	146
1957	381	57	12	4.6	4.4	29	68	116	99	130	175	267	1,343
1958	135	17	33	156	162	931	1,190	600	164	159	99	71	3,720
1959	23	116	74	374	81	1,990	2,110	875	1,240	2,980	4,580	4,310	18,750
1960	4,580	1,930	757	548	708	5,060	3,090	1,200	627	1,760	2,710	6,560	29,530

Note.--Figures given herein prior to October 1956 not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	1.37	0.61	991
1951	1204	57	Aug. 6, 1951	0	2.54	0.084	1.14	1,840	3.19	1.42	2,310
1952	1234	50	(a)	0	2.24	.074	1.00	1,630	1.25	.55	908
1953	1274	135	Sept. 27, 1953	0	6.96	.230	3.08	5,000	20.5	9.16	14,810
1954	1334	1106	Nov. 25, 1953	0	18.3	.604	8.19	13,240	4.82	2.07	3,340
1955	1384	13	Aug. 25, 1955	0	.87	.029	.36	631	.72	.30	519
1956	1434	1.9	Jan. 23, 1956	0	.20	.0066	.08	146	.69	.31	501
1957	1504	82	Oct. 16, 1956	0	1.86	.061	.83	1,343	1.49	.66	1,080
1958	1554	40	Apr. 10, 1958	.1	5.14	.170	2.30	3,720	5.18	2.32	3,740
1959	1624	117	Aug. 17, 18, 1959	.1	25.9	.655	11.57	18,750	35.6	15.93	25,810
1960	1704	354	Sept. 11, 1960	4.9	40.7	1.34	18.26	29,530	-	-	-

a About Nov. 20, 1951.

b Maximum peak discharge; maximum discharge, 131 cfs Oct. 1, 1953, stage falling.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2650. South Port Canal near St. Cloud, Fla.
(Formerly published as Tohopekaliga-Cypress Canal near St. Cloud)

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 Tohopekaliga and 8.6 miles southwest of St Cloud, Osceola County.

Drainage area.--540 sq mi, approximately, includes part of watershed in Reedy Creek Swamp, which is indeterminate.

Records available.--January 1942 to September 1960 (published as Tohopekaliga-Cypress Canal near St. Cloud).

Gage.--Water-stage recorder. Datum of gage is 48.76 ft above mean sea level (levels by Corps of Engineers). Prior to Jan. 1, 1950, water-stage recorder on west shore of Lake Tohopekaliga at datum 1.60 ft higher. Jan. 1, 1950, to Sept. 19, 1951, staff gage at same site and datum. Since Oct. 1, 1951, auxiliary water-stage recorder on south shore of Cypress Lake near head of Hatchineha Canal (formerly Cypress-Hatchineha Canal).

Average discharge.--18 years (1942-60), 508 cfs (367,800 acre-ft per year).

Extremes.--1942-60: Maximum daily discharge, 3,400 cfs Sept. 24, 1960; maximum gage height, 10.56 ft Sept. 24, 1960 (wind affected); maximum daily reverse flow, about 228 cfs Oct. 23, 1952; minimum gage height observed, -0.83 ft May 23, 1956.

Remarks.--Records include overflow from Lake Tohopekaliga along shoreline three-quarters of a mile northeast of canal at high stages.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	316	538	466	420	382	299	250	204	126	176	421	515	342
1952	763	779	851	668	548	582	584	389	280	231	189	186	504
1953	130	300	342	315	307	303	417	455	379	357	653	1,801	479
1954	2,336	1,594	1,630	1,220	859	619	430	320	274	309	392	345	861
1955	344	344	314	268	241	193	137	58.4	43.0	78.2	108	91.7	185
1956	170	174	150	120	114	62.9	12.5	3.72	3.39	4.04	3.49	6.21	68.7
1957	591	891	665	486	374	334	339	361	517	628	614	761	532
1958	751	517	402	374	392	659	779	624	425	339	304	248	485
1959	190	158	123	162	190	470	964	820	690	912	1,215	1,618	627
1960	1,776	1,407	895	674	550	1,507	1,736	948	663	740	1,335	2,482	1,225

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	19,460	32,010	28,660	25,800	21,230	18,370	14,850	12,550	7,490	10,820	25,910	30,660	247,800
1952	46,920	46,380	52,340	41,040	31,540	35,800	34,770	23,890	16,650	14,220	11,640	11,040	366,200
1953	8,010	17,870	21,040	19,350	17,050	18,610	24,840	27,980	22,540	21,920	40,140	107,200	364,600
1954	145,600	94,850	100,200	75,010	46,810	38,050	25,620	19,670	16,510	18,990	24,090	20,510	623,500
1955	21,370	20,470	19,520	16,480	13,560	11,860	8,150	3,570	2,560	4,810	6,620	5,460	133,800
1956	10,470	10,340	9,240	7,390	6,560	3,870	741	229	202	249	215	370	49,880
1957	24,050	53,040	40,890	29,880	20,780	20,540	20,180	22,220	30,750	38,610	37,760	46,460	385,200
1958	46,170	30,740	24,720	22,990	21,780	40,550	46,370	38,370	25,280	20,820	18,670	14,750	351,200
1959	11,650	9,380	7,540	9,930	10,540	28,890	57,360	50,440	41,030	56,080	74,720	96,260	453,800
1960	109,200	83,740	54,440	41,460	31,620	92,670	103,300	58,290	39,440	45,520	82,100	147,700	889,500

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	354	256,000
1951	1204	a597	Oct. 30, 1950	93	342	\$247,800	433	313,300
1952	1234	966	Nov. 28, 29, 1951	156	504	\$366,200	368	267,500
1953	1274	(b)	-	-228	479	\$346,600	892	638,300
1954	1334	c2,650	Oct. 9, 1953	246	861	\$623,500	478	345,800
1955	1384	c362	Oct. 30, 1954	-66	185	\$133,900	142	102,900
1956	1434	c187	Nov. 20, 1955	.2	68.7	\$49,880	190	137,800
1957	1504	1,060	Nov. 9, 1956	7.0	532	\$385,200	509	368,800
1958	1554	c872	Apr. 16, 17, 1958	224	485	\$51,200	384	278,200
1959	1624	c1,900	Sept. 24-26, 1959	104	627	\$453,800	929	672,600
1960	1704	c3,400	Sept. 24, 1960	517	1,225	\$89,500	-	-

* Not previously published.

a Maximum daily discharge for flood event whose crest occurred during year; maximum daily discharge during year, 642 cfs Sept. 30, 1951, stage rising.

b No independent peak during year; maximum daily discharge, 2,440 cfs Sept. 29, 30, 1953, stage rising.

c Maximum daily.

Note.--Negative figures indicate reverse flow.

2660. Canoe Creek near St. Cloud, Fla.

Location (revised).--Lat 28°04'42" long 81°15'39", in NW¼ sec.6, T.28 S., R.31 E., near right bank on downstream side of bridge on State Highway 523, 13 miles south of St. Cloud, Osceola County.

Drainage area.--86.5 sq mi (includes area drained by Brick Lake).

Records available.--November 1949 to July 1959.

Gage.--Water-stage recorder. Datum of gage is 48.17 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Apr. 10, 1957, at site 20 ft downstream at same datum.

Average discharge.--8 years (1950-58), 67.1 cfs (48,580 acre-ft per year).

Extremes.--1949-59: Maximum discharge, 2,190 cfs Oct. 16, 1956 (gage height, 12.17 ft); no flow for many days in 1950, 1956; minimum gage height, 3.80 ft May 6-8, 14-16, 1956. Flood in 1935 (before channel was improved) reached a stage of 13.5 ft, from information by Florida State Road Department.

Remarks.--Records do not include diversions through Brick-Alligator Canal above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	281	51.0	20.1	16.2	24.8	6.45	18.2	8.99	2.29	22.9	71.8	58.7	48.9
1952	230	149	78.0	22.7	22.8	97.1	35.8	5.18	1.74	45.4	18.7	14.3	60.3
1953	324	102	26.8	45.6	96.7	74.8	105	17.4	18.6	4.78	94.1	483	116
1954	722	198	166	66.5	14.3	7.78	7.72	2.77	102	119	40.7	65.9	127
1955	171	42.9	21.6	16.0	35.2	21.5	15.5	5.09	13.6	61.9	65.9	175	53.9
1956	64.5	20.8	11.2	9.39	9.60	1.92	12	.01	.06	.18	.85	9.63	10.7
1957	412	148	36.7	10.7	9.40	21.2	38.5	134	51.3	23.5	50.4	98.3	86.8
1958	71.4	11.8	5.12	46.3	38.2	67.7	48.9	20.2	6.57	60.4	13.7	5.64	33.1
1959	3.10	3.16	2.23	14.8	42.8	303	107	52.3	102	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	17,270	3,030	1,240	996	1,380	396	1,080	553	136	1,410	4,420	3,500	35,410
1952	14,110	8,840	4,800	1,390	1,310	5,970	2,130	319	104	2,790	1,150	850	43,760
1953	19,950	6,080	1,650	2,800	5,370	4,600	6,270	1,070	1,110	292	5,790	28,710	83,690
1954	44,410	11,780	10,180	4,090	793	479	460	170	6,070	7,340	2,500	3,920	92,190
1955	10,520	2,550	1,330	985	1,960	1,320	921	313	812	3,800	4,050	10,430	38,990
1956	3,960	1,240	688	577	552	118	7.1	.6	3.8	11	53	573	7,780
1957	25,310	8,900	2,260	660	522	1,300	2,290	8,260	3,050	1,440	3,100	5,850	62,840
1958	4,390	704	315	2,850	2,120	4,170	2,910	1,240	391	3,710	843	336	23,980
1959	190	188	137	911	2,370	18,630	6,370	3,210	6,070	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff		
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet	
1950	-	-	-	-	-	-	-	-	35.8	5.61	25,890	-
1951	1204	1,550	Oct. 19, 1950	0.8	48.9	0.565	7.69	35,410	57.5	9.04	41,620	-
1952	1234	796	Oct. 3, 1951	.2	60.3	.697	9.48	43,760	60.2	9.46	43,690	-
1953	1274	11,160	Oct. 21, 1952†	2.0	116	1.34	18.15	83,690	169	26.52	122,400	-
1954	1334	1,360	Oct. 10, 1953	1.2	127	1.47	19.98	92,190	55.6	8.72	40,220	-
1955	1384	431	Oct. 10, 1954	4.1	53.9	.623	8.46	38,990	42.1	6.61	30,480	-
1956	1434	128	Oct. 14, 1955	0	10.7	.124	1.69	7,780	52.7	8.30	38,270	-
1957	1504	2,190	Oct. 16, 1956	5.9	86.8	1.00	13.62	62,840	44.0	6.90	31,880	-
1958	1554	183	July 6, 1958	2.7	33.1	1.383	5.18	23,980	26.4	4.12	19,080	-
1959	1624	816	Mar. 20, 1959	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-

† Corrected.

a Maximum during period October to July.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2665. 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, Polk County, and 3 miles downstream from Davenport Creek.

Drainage area.--115 sq mi, approximately, revised (includes part of watershed in Reedy Creek Swamp, which is indeterminate).

Records available.--October 1939 to September 1959.

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.--1939-59: Maximum discharge, 534 cfs Mar. 21, 1959; maximum gage height, 4.08 ft Aug. 30, 1953, Oct. 18, 1956; minimum discharge, 2.4 cfs June 15, 1956; minimum gage height, 0.78 ft June 3, 1945.

Remarks.--Natural flow of stream affected by several canals which divert an undetermined amount of water into Shingle Creek basin.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	159	63.6	104	68.6	69.2	22.7	50.4	49.3	29.1	156	124	58.5	80.0
1952	85.4	141	96.2	51.0	74.2	109	69.2	21.6	12.5	39.9	46.7	37.8	65.3
1953	67.2	42.2	28.8	37.3	44.1	41.2	106	38.6	36.9	54.3	227	411	94.4
1954	291	171	206	114	58.2	39.0	22.2	14.3	36.3	42.8	78.0	72.3	96.0
1955	67.0	35.6	35.4	33.8	40.2	13.1	15.8	7.50	15.5	71.4	67.1	97.2	41.6
1956	51.5	40.9	33.2	32.5	36.9	12.3	6.65	9.15	4.89	18.8	17.9	27.9	24.4
1957	160	51.5	24.0	25.7	31.0	53.6	80.6	93.4	99.2	98.5	76.3	137	77.6
1958	70.5	22.0	28.5	78.2	78.9	185	119	37.1	13.1	25.9	26.6	31.8	59.7
1959	21.0	39.5	34.4	88.7	47.9	210	136	58.7	117	193	169	204	110
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	9,770	3,780	6,410	4,220	3,850	1,400	3,000	3,030	1,730	9,610	7,600	3,480	57,880
1952	5,250	8,380	5,910	3,140	4,270	6,690	4,120	1,330	743	2,460	2,870	2,250	47,410
1953	4,130	2,510	1,770	2,290	2,450	2,530	6,280	2,370	2,200	3,340	13,970	24,480	68,320
1954	17,900	10,180	12,650	7,030	3,230	2,400	1,320	877	2,180	2,630	4,800	4,300	69,480
1955	4,120	2,120	2,170	2,080	2,230	803	940	461	921	4,390	4,130	5,790	30,160
1956	3,170	2,440	2,040	2,000	2,120	757	396	563	291	1,160	1,100	1,660	17,700
1957	9,820	3,060	1,480	1,460	1,720	3,300	4,800	5,740	5,900	6,060	4,690	8,130	56,160
1958	4,340	1,310	1,750	4,810	4,380	11,350	7,090	2,280	777	1,590	1,640	1,890	43,210
1959	1,290	2,350	2,120	5,450	2,660	12,920	8,110	3,610	6,960	11,890	10,390	12,170	79,920
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30				Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean
		Discharge	Date				
1950	-	-	-	-	-	-	59.1
1951	1204	381	Oct. 21, 1950	12	80.0	57,880	79.4
1952	1234	405	Nov. 21, 1951	8.6	65.3	47,410	50.0
1953	1274	513	Aug. 30, 1953	5.4	94.4	68,320	139
1954	1334	4345	Nov. 28, 1953	3.4	96.0	69,480	51.3
1955	1364	218	Sept. 10, 1955	4.2	41.6	30,160	40.6
1956	1434	83	Oct. 3, 1955	2.5	24.4	17,700	33.6
1957	1504	502	Oct. 18, 1956	16	77.6	56,160	68.0
1958	1554	306	Mar. 7, 1958	7.9	59.7	43,210	57.4
1959	1624	534	Mar. 21, 1959	13	110	79,920	-
1960	-	-	-	-	-	-	-

a Maximum peak discharge; maximum discharge during year 450 cfs Oct. 1, 1953, stage falling.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2667. Horse Creek at Davenport, Fla.

Location.--Lat 28°10'31", long 81°35'54", in SE $\frac{1}{4}$ sec.34, T.26 S., R.27 E., on right bank 5 ft downstream from bridge on county highway, 75 ft upstream from Atlantic Coast Line Railroad bridge, and a quarter of a mile north of Davenport, Polk County.

Drainage area.--22.8 sq mi.

Records available.--June to September 1960.

Gage.--Water-stage recorder. Datum of gage is 101.40 ft above mean sea level, datum of 1929.

Extremes.--June to September 1960: Maximum discharge, 358 cfs Sept. 12, 13, 1960 (gage height, 8.20 ft); minimum, 5.5 cfs June 16, 1960 (gage height, 2.27 ft).

Remarks.--Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	15.3	78.8	56.6	126	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	909	4,840	3,480	7,490	-

2670. 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 a quarter of a mile downstream from Lake Pierce and 7 miles northeast of Lake Wales, Polk County.

Drainage area.--58.9 sq mi.

Records available.--October 1947 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 72.70 ft above mean sea level (Corps of Engineers bench mark).

Average discharge.--13 years (1947-60), 57.6 cfs (41,700 acre-ft per year).

Extremes.--1947-60: Maximum daily discharge, 235 cfs Sept. 17, 18, 1960; maximum gage height, 6.02 ft Sept. 15, 1960 (affected by wind); minimum discharge, 7.6 cfs Apr. 10, 1956 (gage height, 2.73 ft, affected by wind).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	47.8	51.2	46.5	41.5	38.8	30.6	37.7	31.1	29.8	46.2	59.1	69.0	44.1
1952	73.8	58.1	55.5	44.8	41.3	48.7	48.5	39.5	45.6	56.5	67.8	78.0	54.9
1953	85.6	92.3	74.3	66.5	63.9	53.6	45.5	37.9	49.0	52.8	59.5	129	67.4
1954	166	119	129	102	68.6	56.3	47.5	41.2	58.5	56.5	59.1	45.5	79.3
1955	42.7	41.9	41.6	37.9	41.4	35.7	37.1	24.3	25.5	35.8	38.9	48.1	37.5
1956	37.5	29.8	26.7	26.0	24.7	15.3	10.5	11.9	12.3	27.8	33.0	49.6	25.4
1957	52.0	42.7	31.4	27.9	31.7	38.9	40.8	52.8	49.7	41.9	51.2	60.6	43.5
1958	53.5	35.2	30.0	44.6	50.0	57.1	58.3	41.3	25.9	46.6	42.2	41.9	43.7
1959	32.4	38.9	32.0	38.3	43.2	82.6	97.2	77.6	86.1	107	95.7	111	70.3
1960	125	107	73.5	65.0	64.3	111	120	79.0	76.8	88.7	142	199	104

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,940	3,050	2,860	2,550	2,150	1,880	2,550	1,910	1,770	2,840	3,630	4,110	31,940
1952	4,540	3,460	3,410	2,750	2,380	3,000	2,890	2,430	2,710	3,470	4,170	4,640	39,850
1953	5,260	5,490	4,570	4,090	3,550	3,290	2,710	2,330	2,920	3,250	3,660	7,660	48,780
1954	10,200	7,060	7,910	6,270	3,810	3,460	2,830	2,530	3,480	3,470	3,630	2,710	57,360
1955	2,620	2,490	2,560	2,330	2,500	2,190	2,210	1,490	1,520	2,200	2,390	2,860	27,160
1956	2,310	1,780	1,640	1,600	1,420	940	626	733	734	1,710	2,030	2,950	18,470
1957	3,200	2,540	1,930	1,720	1,760	2,390	2,430	3,250	2,960	2,580	3,150	3,610	31,520
1958	3,290	1,980	1,840	2,750	2,780	3,510	3,470	2,540	1,540	2,860	2,590	2,490	31,640
1959	1,990	2,320	1,970	2,350	2,400	5,080	5,790	4,770	5,130	6,560	5,880	6,610	50,850
1960	7,710	6,340	4,520	3,990	3,700	6,820	7,110	4,860	4,570	5,460	8,740	11,960	75,680

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	32.1	7.39	23,240	
1951	1204	81	Sept.30, 1951	19	44.1	0.749	10.17	31,940	47.7	10.98	34,500
1952	1234	92	Oct. 2, 3, 1951	30	54.9	.932	12.69	39,850	60.3	13.94	43,760
1953	1274	a114	Oct. 27, 1952	26	67.4	1.14	15.52	48,780	81.0	18.66	58,630
1954	1334	191	Oct. 9, 1953	36	79.3	1.35	18.28	57,360	55.1	12.70	39,860
1955	1384	54	(b)	17	37.5	.637	8.64	27,160	34.8	8.02	25,220
1956	1434	59	Sept.18, 1956	8.8	25.4	.431	5.87	18,470	28.1	6.49	20,410
1957	1504	74	May 19, 1957	24	43.5	.739	10.02	31,520	42.7	9.85	30,960
1958	1554	69	Apr. 16, 1958	15	43.7	.742	10.07	31,640	42.6	9.80	30,810
1959	1624	129	Sept.18,19,1959	29	70.3	1.19	16.19	50,850	87.2	20.10	63,140
1960	1704	c235	Sept.17,18,1960	52	104	1.77	24.09	75,680	-	-	-

a Maximum peak discharge; maximum discharge during year, 158 cfs Sept. 30, 1953, stage rising.

b Nov. 20, 1954, Sept. 11, 1955.

c Maximum daily discharge.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2675. Kissimmee River near Lake Wales, Fla.
(Formerly published as Hatchineha-Kissimmee Canal near Lake Wales)

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 Kissimmee River, 3½ miles upstream from Lake Kissimmee and 14 miles east of Lake Wales, Polk County.

Drainage area.--Indeterminate. Total drainage area of Kissimmee River above site of staff gage at Camp Mack and Cypress-Kissimmee Canal above station is 1,185 sq mi.

Records available.--January 1942 to September 1960 (published as Hatchineha-Kissimmee Canal near Lake Wales).

Gage.--Water-stage recorder. Datum of gage is 47.23 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to Oct. 1, 1949, water-stage recorder on northwest shore of Lake Hatchineha at same datum. Oct. 1, 1949, to Sept. 30, 1950, staff gage at Camp Mack 1.6 miles downstream at datum 0.48 ft lower. Since Sept. 11, 1953, auxiliary water-stage recorder on northwest shore of Lake Kissimmee.

Average discharge.--18 years (1942-60), 872 cfs (631,300 acre-ft per year).

Extremes.--1942-60: Maximum daily discharge, 4,800 cfs Sept. 30, 1960, crest occurred Oct. 1, 1960; maximum daily discharge for flood event whose crest occurred during period, 4,230 cfs Mar. 26, 1960; maximum gage height, 9.74 ft Oct. 9, 1953 (affected by wind); minimum daily discharge, 27 cfs July 28, 1956; minimum gage height, -0.04 ft July 28, 1956 (affected by wind).

Remarks.--Discharge measurements are made about 1½ miles downstream near staff gage at Camp Mack. Records do not include diversions above Lake Hatchineha which consist of overflow from Cypress Lake and Hatchineha Canal and natural drainage from marshland south of Cypress Lake. Diversions are confined at high stages in secs. 34, 35, 36, T.28 S., R.30 E., at Cypress-Kissimmee Canal, 1.1 miles upstream from Lake Kissimmee and 4.6 miles downstream from Cypress Lake.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	777	1,070	805	736	675	500	452	399	273	275	689	864	626
1952	1,255	1,228	1,435	1,205	963	999	997	717	543	529	492	547	910
1953	712	956	784	694	690	615	750	727	665	649	903	2,132	861
1954	2,181	1,847	2,082	1,620	1,152	941	760	505	599	600	612	588	1,125
1955	847	598	541	446	477	377	318	161	108	135	286	534	402
1956	476	357	297	253	242	154	66.2	35.3	30.9	40.2	37.4	62.7	171
1957	505	1,394	1,027	784	680	732	803	971	997	1,124	1,270	1,538	986
1958	1,439	907	687	656	721	974	1,169	1,033	759	627	503	425	826
1959	512	308	265	567	559	1,324	1,901	1,520	1,475	1,915	2,003	2,531	1,208
1960	2,502	2,355	1,608	1,227	1,033	2,406	2,753	1,758	1,367	1,675	2,716	2,756	2,099

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	47,790	63,680	49,490	45,280	37,510	30,750	26,910	24,520	16,220	16,930	42,380	51,400	452,900
1952	77,140	73,060	88,220	74,100	55,390	61,430	59,340	44,100	32,280	32,560	30,260	32,550	660,400
1953	43,800	56,880	48,200	42,030	38,330	37,840	44,630	44,690	39,590	39,910	60,410	126,900	623,200
1954	134,100	109,900	128,000	99,610	64,010	57,880	45,230	31,040	35,640	36,920	37,660	35,010	815,000
1955	52,110	35,570	33,240	27,420	26,480	23,200	18,920	9,920	6,400	8,330	17,590	31,770	291,000
1956	29,250	21,220	18,240	15,540	13,910	9,440	3,940	2,170	1,840	2,470	2,300	3,730	124,000
1957	31,060	82,950	63,150	48,200	37,760	45,020	47,760	59,690	59,340	69,080	78,110	91,520	713,600
1958	88,500	53,970	42,230	40,360	40,050	59,900	69,560	63,520	45,150	38,560	30,930	25,320	598,000
1959	19,160	18,350	16,290	22,570	31,030	81,380	113,100	93,460	87,750	117,800	123,100	150,600	874,600
1960	153,900	140,100	98,860	75,460	59,400	147,900	163,800	108,100	82,510	103,000	167,000	223,500	1,524,000

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	591	428,100
1951	1204	a1,350	Oct. 29, 30, 1950	225	626	452,900	733	530,300
1952	1234	a1,500	Nov. 29, 1951	457	910	660,400	786	570,900
1953	1274	2,700	Sept. 30, 1953	506	861	623,200	1,169	846,300
1954	1334	2,820	Oct. 1, 1953	360	1,126	815,000	779	563,900
1955	1384	a994	Oct. 14, 1954	90	402	291,000	330	238,700
1956	1434	b126	Apr. 11, 1956	27	171	124,000	320	232,500
1957	1504	1,720	Sept. 30, 1957	65	986	713,600	996	721,200
1958	1554	1,700	Oct. 5, 6, 7, 1957	371	826	598,000	645	467,200
1959	1624	2,790	Sept. 22-25, 1959	239	1,208	874,600	1,676	1,214,000
1960	1704	c4,230	Mar. 26, 1960	911	2,099	1,524,000	-	-

a Momentary maximum.

b Maximum peak discharge; maximum discharge during year, 577 cfs Oct. 1, 1955, stage falling.

c Maximum daily discharge for flood event whose crest occurred during year; maximum daily discharge, 4,800 cfs Sept. 30, 1960, crest occurred Oct. 1, 1960.

Note.--Figures of discharge, in acre-feet, for water years 1951-56, not previously published.

2690. 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 about 3 miles downstream from bridge on State Highway 60 and Lake Kissimmee and 22 miles east of Frostproof, Polk County.

Drainage area--1,609 sq mi at State Highway 60 (includes areas drained by Lake Wechyakapka and Lake Marian).

Records available--October 1933 to September 1960.

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--27 years (1933-60), 1,243 cfs (899,900 acre-ft per year).

Extremes--1933-60: Maximum discharge, 8,820 cfs Oct. 5 or 6, 1948; maximum gage height, 13.16 ft Oct. 9, 1953 (from floodmark); maximum reverse flow measured, 1.190 cfs Oct. 17, 1956; minimum gage height, 0.79 ft Sept. 25, 1956 (affected by wind).

Remarks--Records of chemical analyses for the period September 1952 to June 1953, are published in report of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	552	998	996	921	898	818	752	657	547	549	645	782	758
1952	1,590	1,426	1,532	1,406	1,214	1,124	1,189	940	783	717	666	659	1,087
1953	1,166	1,679	1,314	1,078	1,004	928	904	882	811	790	1,073	2,843	1,204
1954	5,792	4,354	5,843	2,559	2,218	1,896	1,252	1,033	970	977	958	893	2,233
1955	956	977	898	791	725	650	572	415	310	333	367	454	619
1956	536	498	444	365	328	267	172	106	88.9	70.2	85.2	97.4	257
1957	167	958	969	901	841	832	848	902	1,026	1,063	1,148	1,300	912
1958	1,684	1,439	1,207	1,325	1,508	1,599	1,739	1,353	1,070	972	906	814	1,300
1959	713	635	566	540	569	1,032	1,972	1,864	2,345	2,907	3,008	3,485	1,640
1960	4,104	4,003	3,011	2,273	1,982	2,881	3,820	2,446	2,528	2,606	3,651	5,413	3,226

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	33,920	59,400	61,230	56,820	49,890	50,290	44,720	40,420	32,540	33,770	39,680	46,510	549,000
1952	85,440	84,670	94,200	86,500	69,840	69,120	70,730	57,790	46,600	44,080	40,930	39,220	789,300
1953	71,690	99,930	80,810	66,250	55,800	57,040	53,810	54,230	48,240	44,570	65,990	169,200	871,600
1954	356,200	259,100	236,300	157,300	123,200	116,600	74,480	63,500	57,710	60,090	58,880	53,120	1,616,000
1955	58,140	58,140	54,570	48,650	40,270	39,980	34,020	25,550	18,430	20,500	22,560	27,030	448,500
1956	32,980	29,620	27,310	23,660	18,890	16,430	10,240	6,520	5,290	4,320	5,240	5,800	186,300
1957	10,250	56,980	59,590	55,400	46,700	51,130	50,490	55,450	61,050	65,380	70,570	77,360	680,400
1958	103,500	85,650	74,240	81,480	83,720	98,300	103,500	83,170	63,670	59,790	55,700	46,420	941,100
1959	43,640	37,600	34,790	33,230	31,800	63,450	117,300	114,600	139,500	178,700	185,000	207,400	1,187,000
1960	252,300	238,200	185,100	139,800	114,000	177,100	227,300	150,400	150,400	160,200	224,500	322,100	2,341,000

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	763	6.43	552,300
1951	1204	1,120	Nov. 25, 1950	322	758	0.471	6.39	549,000	910	7.68	659,000
1952	1234	61,650	Dec. 17, 1951	618	1,087	0.676	9.20	789,300	1,071	9.05	777,200
1953	1274	62,010	Oct. 29, 1952	676	1,204	0.748	10.15	871,600	2,031	17.13	1,471,000
1954	1334	7,170	Oct. 9, 1953	860	2,233	1.39	18.84	1,616,000	1,293	10.93	936,400
1955	1384	1,140	Oct. 30, 1954	272	619	0.385	5.24	448,500	507	4.28	366,900
1956	1434	a563	Oct. 15, 1955	52	257	0.160	2.18	186,300	307	2.60	223,200
1957	1504	c1,040	Nov. 23, 1956	-1,190	912	0.567	7.69	660,400	1,101	9.30	796,900
1958	1554	2,140	Apr. 16, 1958	762	1,300	0.808	10.99	941,100	1,097	9.27	794,200
1959	1624	3,980	Sept. 28, 1959	496	1,640	1.02	13.66	1,187,000	2,412	20.38	1,746,000
1960	1704	d5,140	Apr. 5, 1960	1,760	3,226	2.00	27.29	2,341,000	-	-	-

a Maximum daily.

b Maximum peak discharge; maximum discharge during year, 4,480 cfs Sept. 30, 1953, stage rising.

c Maximum peak discharge; maximum discharge during year, 1,520 cfs Sept. 30, 1957, stage rising.

d Maximum peak discharge; maximum daily discharge during year, 6,830 cfs Sept. 30, 1960, stage rising.

Note.--Negative figure indicates reverse flow. Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2695. Reedy Creek near Frostproof, Fla.

Location.--Lat 27°43'13", long 81°28'40", in SW $\frac{1}{4}$ sec.1, T.32 S., R.28 E., on left bank 15 ft upstream from highway bridge, 100 ft downstream from Reedy Lake, and $3\frac{1}{2}$ miles southeast of Frostproof, Polk County.

Drainage area.--62.2 sq mi.

Records available.--October 1946 to September 1960. Prior to October 1957, published as Reedy Lake Outlet near Frostproof.

Gage.--Water-stage recorder and concrete control with removable boards. Datum of gage is 76.05 ft above mean sea level, datum of 1929.

Average discharge.--14 years (1946-60), 40.8 cfs (29,540 acre-ft per year).

Extremes.--1946-60: Maximum discharge, 166 cfs Oct. 2-6, 1948 (corrected); maximum gage height, 4.64 ft Sept. 30, 1960 (wind affected); minimum daily discharge, 0.1 cfs Mar. 21-23, 29, Apr. 22, 1956; minimum gage height, 1.30 ft May 21, 1955 (wind affected).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	38.4	41.0	34.4	28.1	27.6	18.2	27.0	17.6	9.69	27.1	42.2	49.7	30.1
1952	49.5	38.6	33.4	26.9	27.8	28.1	22.5	15.5	17.5	16.8	15.0	20.1	26.1
1953	29.9	33.0	29.4	29.7	30.0	28.6	28.0	21.2	29.8	30.5	30.5	52.3	31.1
1954	103	94.0	107	96.1	75.8	59.0	56.9	46.9	64.7	61.0	51.5	43.2	71.7
1955	49.5	40.7	33.3	31.2	32.1	23.7	23.1	11.1	10.4	33.3	33.4	34.8	29.7
1956	22.8	13.0	14.0	13.9	13.1	1.75	.31	2.44	24.1	27.8	23.5	33.9	15.9
1957	42.8	35.4	25.0	20.8	26.4	34.2	38.7	40.6	47.1	38.5	46.0	42.3	36.5
1958	46.5	29.0	24.6	40.1	45.7	48.6	52.0	43.6	35.2	34.6	34.2	34.0	39.0
1959	25.6	26.5	25.1	30.1	30.9	39.6	41.3	33.3	48.0	56.3	54.0	65.8	39.9
1960	75.4	65.4	52.6	44.5	44.9	49.8	54.3	40.0	34.7	37.8	71.2	102	56.1

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,360	2,440	2,120	1,730	1,530	1,120	1,610	1,080	577	1,670	2,600	2,960	21,800
1952	3,040	2,300	2,050	1,650	1,600	1,790	1,340	954	1,040	1,030	920	1,200	18,910
1953	1,840	1,960	1,810	1,850	1,670	1,760	1,670	1,300	1,770	1,870	1,880	3,110	22,490
1954	6,350	5,590	6,580	5,910	4,210	3,630	3,390	2,880	3,850	3,750	5,160	2,570	51,880
1955	3,050	2,420	2,050	1,920	1,780	1,460	1,370	680	619	2,040	2,050	2,070	21,510
1956	1,400	774	860	857	753	108	18	150	1,430	1,710	1,440	2,020	11,520
1957	2,630	2,100	1,540	1,280	1,470	2,100	2,300	2,500	2,800	2,370	2,830	2,520	26,440
1958	2,860	1,720	1,510	2,470	2,540	2,990	3,090	2,680	2,100	2,130	2,100	2,020	28,210
1959	1,570	1,580	1,540	1,850	1,710	2,430	2,460	2,040	2,850	3,580	3,320	3,920	28,850
1960	4,640	3,950	3,240	2,740	2,580	3,060	3,230	2,460	2,060	2,320	4,380	6,090	40,750

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year			
		Momentary maximum		Minimum	Mean	Per square mile	Runoff		Mean	Runoff		
		Discharge	Date	day			Inches	Acres-foot		Inches	Acres-foot	
1950	-	-	-	-	-	-	-	-	24.4	5.34	17,690	
1951	1204	a54	Oct. 21-24, 1950	5.4	30.1	0.484	6.58	21,800	30.8	6.70	22,270	
1952	1234	57	Oct. 2, 1951	7.7	26.1	.420	5.70	18,910	23.6	5.15	17,130	
1953	1274	b42	Oct. 21, 1952	8.2	31.1	.500	6.77	22,490	48.9	10.68	35,410	
1954	1334	116	Oct. 9, 1953	32	71.7	1.15	15.63	51,880	56.5	12.31	40,870	
1955	1384	c54	Oct. 30, 1954	.2	29.7	.477	6.49	21,510	23.5	5.13	17,020	
1956	1434	38	Sept. 18, 1956	.1	15.9	.256	3.49	11,520	20.3	4.46	14,760	
1957	1504	a52	(d)	15	38.5	.587	7.95	26,440	36.3	7.91	26,260	
1958	1554	a61	Apr. 16, 1958	21	39.0	.627	8.49	28,210	37.0	8.06	26,810	
1959	1624	a76	Sept. 17-19, 1959	19	39.9	.641	8.70	28,850	49.7	10.86	35,990	
1960	1704	a138	Sept. 28, 30, 1960	2.9	56.1	.902	12.27	40,750	-	-	-	

a Maximum daily.

b Maximum peak discharge; maximum discharge during year, 82 cfs Sept. 30, 1953, stage rising.

c Maximum independent peak discharge; maximum discharge during year, 57 cfs Oct. 2, 1954, occurred on recession following peak of Sept. 27, 1954.

d Aug. 24, 25, Sept. 30, 1957.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2700. Carter Creek near Sebring, Fla.

Location.--Lat 27°31'55", long 81°23'16", in SE $\frac{1}{4}$ sec. 11, T.34 S., R.29 E., near right bank 12 ft downstream from bridge on county road, $\frac{3}{4}$ miles upstream from Arbuckle Creek, $\frac{1}{4}$ miles downstream from Bonnet Lake, and $\frac{1}{4}$ miles northeast of Sebring, Highlands County.

Drainage area.--38.8 sq mi.

Records available.--October 1954 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 56.75 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to Nov. 16, 1954, staff gage at same site and datum.

Average discharge.--6 years (1954-60), 36.5 cfs (26,420 acre-ft per year).

Extremes.--1954-60: Maximum discharge, 552 cfs Sept. 11, 1960 (gage height, 11.05 ft), from rating curve extended above 190 cfs by logarithmic plotting; minimum daily, 4.6 cfs May 27, 1956; minimum gage height, 6.46 ft Dec. 6, 1955 (affected by pumpage).

Remarks.--Regulation by Bonnet Lake control above station. Since May 2, 1955, small diversions downstream of station for irrigation.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	48.6	36.3	26.9	26.3	24.8	17.1	15.3	11.0	9.51	15.7	10.3	14.6	21.4
1956	12.3	10.5	10.3	10.6	10.4	8.02	7.35	6.04	10.6	9.73	18.4	19.6	11.1
1957	32.2	18.6	15.0	15.1	12.5	17.0	24.3	36.6	36.0	33.6	43.5	51.8	28.1
1958	66.5	31.6	26.7	56.0	48.9	61.5	51.3	33.9	39.0	53.6	40.0	44.3	46.1
1959	29.3	21.9	23.2	21.7	19.6	39.0	22.6	16.7	54.2	103	86.5	121	46.6
1960	130	78.7	45.3	31.8	52.3	47.4	42.9	31.6	30.8	49.6	102	146	65.6

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	#2,990	#2,160	#1,650	#1,620	#1,370	#1,050	#910	#677	#566	#968	#635	#871	#15,470
1956	#754	#625	#633	#650	#598	#493	#437	#371	#631	#598	#1,150	#1,170	#8,090
1957	1,980	1,100	920	928	693	1,040	1,450	2,250	2,140	2,070	2,670	3,080	20,320
1958	4,090	1,880	1,640	3,440	2,710	3,780	3,050	2,080	2,320	3,290	2,460	2,630	33,370
1959	1,800	1,310	1,420	1,330	1,090	2,400	1,340	1,050	5,230	6,310	5,320	7,200	33,780
1960	7,970	4,680	2,780	1,950	3,010	2,910	2,550	1,940	1,830	3,050	6,260	8,660	47,590

* Not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-
1955	1434	a85	Nov. 14, 1954	7.5	21.4	0.552	7.48	#15,470	14.8	5.16	#10,680
1956	1434	101	Aug. 28, 1956	4.6	11.1	.286	3.90	#8,090	15.9	4.86	10,080
1957	1504	310	Oct. 16, 1956	9.1	28.1	.724	9.83	20,320	33.1	11.58	23,930
1958	1554	133	Jan. 24, 1958	17	46.1	1.19	16.14	33,370	41.9	14.65	30,290
1959	1624	315	June 18, 1959	11	46.6	1.20	16.33	33,780	61.7	21.60	44,680
1960	1704	552	Sept. 11, 1960	20	65.6	1.69	23.01	47,590	-	-	-

* Not previously published.
a Maximum observed.

2705. Arbuckle Creek near De Soto City, Fla.

Location.--Lat 27°27'30", long 81°18'15", in SW $\frac{1}{4}$ sec.2, T.35 S., R.30 E., on left bank 0.4 mile downstream from Arbuckle Branch, 1.6 miles upstream from bridge on U.S. Highway 98, 2.6 miles upstream from Lake Istokpoga, and $\frac{6}{8}$ miles east of De Soto City, Highlands County.

Drainage area.--385 sq mi (excludes area drained by Lake Weehyakapka and includes area drained by Lake Sebring).

Records available.--June 1939 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 35.51 ft above mean sea level, datum of 1929. Prior to June 24, 1942, water-stage recorder; June 24, 1942, to Oct. 19, 1943, staff gage; and Oct. 20, 1943, to Oct. 10, 1954, water-stage recorder, at site 1.6 miles downstream at same datum. Since Oct. 11, 1954, water-stage recorder at lower site used as auxiliary gage.

Average discharge.--21 years (1939-60), 411 cfs (297,600 acre-ft per year).

Extremes.--1939-60: Maximum discharge, 7,380 cfs Sept. 23, 1948 (gage height, 8.71 ft, site then in use), from rating curve extended above 5,300 cfs; minimum, 4.3 cfs May 19, 27, 28, 1956.

Remarks.--Records include small diversions into Lake Arbuckle from Lake Weehyakapka through Blue Jordan Swamp. Since Mar. 3, 1955, records do not include surface runoff from 6.0 sq mi which has been diverted from basin by agricultural developments.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	450	273	154	118	116	78.9	509	101	69.3	679	698	498	514
1952	801	344	200	135	192	225	194	101	93.9	153	282	285	250
1953	1,016	645	238	226	185	172	382	205	561	515	579	1,886	549
1954	2,559	763	888	475	299	220	242	209	893	560	419	615	682
1955	493	233	182	163	147	98.3	94.3	46.2	37.0	132	102	163	158
1956	109	57.7	42.5	39.5	35.9	22.4	9.38	9.73	32.3	46.1	107	216	60.5
1957	829	248	112	93.3	86.0	219	321	566	540	731	794	701	439
1958	647	193	170	506	477	544	481	257	202	321	235	274	359
1959	145	68.5	106	143	132	659	304	177	1,272	841	775	1,582	517
1960	1,541	712	296	230	383	539	570	233	270	497	1,547	2,445	772

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	27,690	16,260	9,460	7,230	6,460	4,850	30,300	6,240	4,130	41,780	42,940	29,630	227,000
1952	49,250	20,470	12,270	8,310	11,030	13,840	11,530	6,220	5,590	10,010	17,320	15,750	181,600
1953	62,490	38,400	14,620	13,910	10,290	10,560	21,530	12,630	33,350	31,680	35,580	112,200	397,240
1954	157,300	45,410	54,570	29,180	16,590	13,520	14,420	12,840	53,160	34,410	25,780	36,570	493,700
1955	50,290	13,850	11,200	10,020	8,150	6,040	5,610	2,840	2,200	8,110	6,280	9,730	114,300
1956	6,690	3,430	2,610	2,430	2,060	1,370	558	598	1,920	2,830	6,570	12,850	43,920
1957	51,000	14,740	6,860	5,740	4,780	13,440	19,120	34,830	32,130	44,920	46,640	41,710	318,100
1958	39,770	11,510	10,440	31,140	26,510	33,480	28,610	15,770	12,000	19,740	14,440	16,320	259,700
1959	8,950	4,080	6,540	8,770	7,310	40,500	18,080	10,870	75,700	51,710	47,650	94,130	374,300
1960	94,720	42,400	18,220	14,120	22,060	33,150	33,930	14,310	16,040	30,560	95,110	145,500	560,100

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year			
		Momentary		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff		
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet	
1950	-	-	-	-	-	-	-	-	129	4.56	93,640	
1951	1204	-	July 26, 1951	55	314	0.816	11.04	227,000	353	12.44	255,600	
1952	1234	1,610	Oct. 4, 1951	71	250	0.649	8.84	181,600	296	10.46	215,100	
1953	1274	2,720	Oct. 23, 1952	68	549	1.43	19.33	397,240	745	26.24	539,000	
1954	1334	5,490	Oct. 10, 1953	126	682	1.77	24.07	493,700	403	14.22	291,800	
1955	1384	a296	Nov. 16, 17, 1954	20	158	0.410	5.57	114,300	99.1	3.50	71,710	
1956	1434	275	Sept. 10, 11, 1956	4.8	60.5	0.157	2.16	43,920	143	5.06	103,800	
1957	1504	2,920	Oct. 17, 1956	61	439	1.14	15.48	318,100	424	14.96	307,200	
1958	1554	1,490	Oct. 1, 1957	86	359	0.932	12.64	259,700	301	10.59	217,600	
1959	1624	4,680	June 19, 1959	53	517	1.34	18.24	374,300	704	24.84	510,100	
1960	1704	4,900	Sept. 12, 1960	146	772	2.01	27.27	560,100	-	-	-	

a Maximum peak discharge; maximum discharge during year, 902 cfs Oct. 1, 1954, stage falling.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2710. Stearns Creek near Lake Placid, Fla.

Location.--Lat 27°19'22", long 81°25'09", in NE $\frac{1}{4}$ sec.28, T.36 S., R.29 E., on upstream side of county bridge, 250 ft downstream from Lake June-in-Winter, 1.0 mile upstream from Lake Francis, and 3.6 miles northwest of town of Lake Placid, Highlands County.

Drainage area.--44.0 sq mi.

Records available.--March 1955 to September 1960.

Gage.--Water-stage recorder and sheet pile, stoplog control. Datum of gage is 65.38 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to May 24, 1955, at site on Lake June-in-Winter. Since July 6, 1960, and Aug. 18, 1955, to November 1958, auxiliary staff gage 50 ft downstream from control at same datum.

Extremes.--1955-60: Maximum daily discharge, 431 cfs Sept. 17, 1960; maximum gage height, 10.26 ft Sept. 10, 1960 (wind affected); no flow Mar. 23 to Apr. 3, 1960; minimum daily gage height, 7.22 ft June 3, 4, 1956.

Remarks.--Records do not include diversions through Placid-Huntley Canal into Josephine Creek. Flow regulated at station by manipulation of stoplogs in control by Central and Southern Florida Flood Control District.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	0.03	0.57	4.52	30.4	15.7	0.30	-
1956	0.24	0.27	0.20	0.10	0.16	0.20	.20	.20	.20	.10	.10	.10	0.18
1957	.17	.20	.40	.40	.40	3.89	9.88	18.1	17.3	21.2	29.2	48.5	12.7
1958	75.6	22.5	6.73	45.9	54.9	47.0	69.3	72.8	23.4	24.5	50.9	34.1	44.0
1959	7.00	.82	.30	.31	1.80	27.5	28.4	16.1	49.3	56.6	164	207	46.7
1960	190	49.3	17.0	20.0	48.4	47.3	61.7	24.0	50.3	128	225	295	96.4

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	2.0	35	269	1,870	841	18	-
1956	15	16	12	6.1	8.9	12	12	12	12	12	6.1	6.0	130
1957	11	12	25	25	22	245	588	1,110	1,030	1,310	1,800	2,890	9,070
1958	4,650	1,340	414	2,820	3,050	2,890	4,130	4,480	1,390	1,510	3,130	2,030	31,830
1959	430	49	18	19	100	1,690	1,690	989	2,940	3,480	10,090	12,310	33,800
1960	11,680	2,930	1,050	1,250	2,780	2,910	3,670	1,480	2,990	7,860	15,860	17,560	70,000

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Maximum day		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-
1955	1434	a42	July 2-4, 1955	-	-	-	-	-	-	-	-
1956	1434	-	-	-	0.18	0.0041	0.06	#130	0.19	0.057	135
1957	1504	b34	June 13, 1957	-	12.5	.284	3.86	9,070	21.3	6.57	15,420
1958	1554	c149	Oct. 3, 1957	-	44.0	1.00	13.55	31,830	35.8	11.03	25,930
1959	1624	271	Sept. 20, 1959	-	46.7	1.06	14.40	33,800	67.6	20.87	48,970
1960	1704	431	Sept. 17, 1960	0	96.4	2.19	29.83	70,000	-	-	-

Not previously published.

a Maximum during period March to September.

b Maximum peak discharge; maximum daily discharge, 130 cfs Sept. 30, 1957, stage rising.

c Momentary maximum.

2715. Josephine Creek near De Soto City, Fla.

Location.--Lat 27°22'26", long 81°23'37", in SE $\frac{1}{4}$ 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, Highlands County.

Drainage area.--109 sq mi (excludes area drained by Lake Sebring).

Records available.--October 1946 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 52.99 ft above mean sea level, datum of 1929 (State Road Department bench mark). Prior to May 21, 1952, at site half a mile upstream at datum 0.89 ft higher.

Average discharge.--14 years (1946-60), 118 cfs (85,430 acre-ft per year).

Extremes.--1946-60: Maximum discharge, 1,780 cfs Sept. 23, 1948 (gage height, 11.56 ft, site and datum then in use); minimum, 0.3 cfs May 22, 1956 (affected by pumpage); minimum gage height, 1.49 ft Apr. 8, 1956 (affected by pumpage).

Remarks.--Diversions for irrigation of citrus groves above station during dry periods.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	44.1	36.3	22.0	14.1	21.4	10.1	50.2	26.0	6.64	68.6	99.5	97.3	41.4
1952	187	97.7	69.9	49.3	54.5	58.3	45.8	38.1	44.3	54.3	102	132	76.1
1953	130	101	58.2	52.5	47.5	51.3	25.1	18.4	115	187	228	457	121
1954	601	267	201	128	84.1	64.7	52.0	31.0	111	171	214	280	183
1955	156	86.9	74.3	63.6	56.1	50.2	17.5	8.74	15.8	56.1	53.0	99.6	59.9
1956	56.9	25.9	18.3	14.0	10.9	4.96	1.89	0.75	3.12	3.13	10.5	30.3	15.1
1957	101	44.7	20.2	16.7	18.6	43.6	51.5	57.7	52.7	92.2	150	237	73.9
1958	238	90.1	64.1	127	158	177	177	131	88.2	113	140	110	133
1959	51.9	33.5	25.4	27.9	23.4	71.1	76.1	31.4	142	248	348	439	127
1960	486	230	123	81.5	120	149	187	78.4	119	272	614	770	268

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,710	2,180	1,350	865	1,190	621	2,990	1,600	395	4,220	6,120	5,790	30,010
1952	10,280	5,820	4,300	3,030	3,130	3,580	2,730	2,340	2,630	3,340	6,240	7,830	55,250
1953	7,990	6,010	3,580	3,230	2,640	1,930	1,490	1,010	6,840	11,480	14,040	27,200	87,440
1954	36,940	15,870	12,350	7,780	4,670	3,980	3,090	1,910	6,590	10,490	13,190	15,480	132,300
1955	9,570	5,170	4,570	3,910	3,120	1,860	1,040	537	941	3,450	3,260	5,930	43,360
1956	3,500	1,540	1,120	863	629	305	112	65	186	192	648	1,800	10,960
1957	6,210	2,660	1,240	1,030	924	2,680	3,070	3,550	3,140	5,870	9,200	14,110	53,480
1958	14,660	5,360	3,940	7,800	7,680	10,880	10,530	8,070	5,250	6,970	8,590	8,550	96,290
1959	3,190	1,990	1,560	1,720	1,300	4,370	4,530	1,930	8,470	15,250	21,370	26,130	91,810
1960	29,870	13,690	7,580	5,010	6,900	9,150	9,940	4,820	7,100	16,720	37,740	45,810	194,300

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	21.5	2.88	15,550
1951	1204	-	220	Sept. 5, 1951	3.9	41.4	0.380	5.16	61.0	7.60	44,190
1952	1234	497	Oct. 2, 1951	1.8	76.1	6.98	9.50	55,250	72.2	9.01	52,430
1953	1274	889	Sept. 19, 1953	7.5	121	1.11	15.05	87,440	187	23.25	135,000
1954	1334	1,180	Oct. 10, 1953	20	183	1.68	22.76	132,300	119	14.87	86,470
1955	1384	a170	Sept. 22, 1955	6.0	59.9	.550	7.46	43,360	41.7	5.18	30,210
1956	1434	b53	Aug. 29, 1956	.5	15.1	.139	1.87	10,960	20.6	2.56	14,910
1957	1504	c268	Aug. 25, 1957	11	73.9	.678	9.21	53,480	93.0	11.59	67,330
1958	1554	598	Oct. 3, 1957	45	133	1.22	16.56	98,290	109	13.60	79,070
1959	1624	658	Sept. 17, 1959	17	127	1.17	15.80	91,810	188	23.43	136,200
1960	1704	1,110	Sept. 11, 1960	30	268	2.46	33.42	194,300	-	-	-

a Maximum peak discharge; maximum discharge during year, 234 cfs Oct. 1, 1954, stage falling.

b Maximum peak discharge; maximum discharge during year, 98 cfs Oct. 1, 1955, stage falling.

c Maximum peak discharge; maximum discharge during year, 380 cfs Sept. 30, 1957, stage rising.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2720. Istokpoga Canal near Cornwell, Fla.

Location.--Lat 27°22'56", long 81°09'45", in SE $\frac{1}{4}$ sec.30, T.35 S., R.32 E., on downstream side near center of bridge on U.S. Highway 98, 100 ft downstream from Seaboard Air Line Railroad bridge, $\frac{1}{2}$ miles upstream from Kissimmee River, and $\frac{1}{4}$ miles northwest of Cornwell, Highlands County.

Drainage area.--624 sq mi.

Records available.--October 1933 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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, and Aug. 19, 1949, to Mar. 9, 1955, water-stage recorder and May 15, 1942, to Aug. 19, 1949, staff gage, at site a quarter of a mile downstream at same datum. Since June 3, 1953, auxiliary water-stage recorder 1.3 miles upstream.

Average discharge.--27 years (1933-60), 460 cfs (333,000 acre-ft per year).

Extremes.--1933-60: Maximum discharge, 2,240 cfs Sept. 25, 26, 1960; maximum gage height, 11.41 ft Oct. 12, 1953; no flow May 22 to June 15, 1949, and many days during period February to June 1956, caused by temporary dams upstream.

Remarks.--Slight regulation at low flow by manipulation of stoplogs in control above station since June 1949. Some diversions at times during high water from Lake Istokpoga into Indian Prairie and Harney Pond canals when levees on southeast shore of lake are overtopped or washed out. Records of chemical analyses for the period November 1954 to September 1958, are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	88.2	68.0	48.4	44.6	79.3	47.5	414	601	272	400	687	665	285
1952	1,003	844	561	200	51.7	77.6	279	302	428	339	353	358	399
1953	666	713	477	199	215	158	254	469	508	665	736	1,432	543
1954	1,657	1,390	1,317	1,026	754	510	278	350	742	907	856	858	888
1955	883	649	390	290	276	168	97.3	34.9	40.6	274	321	158	299
1956	20.3	.41	.31	.29	.08	.01	.01	.06	.22	.82	1.91	5.03	2.48
1957	433	688	190	86.7	6.56	538	573	577	618	784	930	1,131	553
1958	1,132	625	171	589	860	827	868	685	544	632	598	543	672
1959	224	46.8	49.5	52.6	126	438	744	441	700	1,300	1,221	1,453	568
1960	1,624	1,394	906	416	469	707	1,082	612	519	648	1,562	1,979	977

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	5,420	4,050	2,970	2,750	4,410	2,920	24,640	36,960	16,170	24,620	42,220	39,540	206,670
1952	61,850	50,210	34,490	12,280	1,820	4,770	16,620	19,560	25,440	20,820	21,720	21,310	289,700
1953	40,930	42,410	29,340	12,230	11,950	9,730	15,140	28,840	30,210	40,890	45,260	86,430	293,400
1954	101,900	82,730	81,000	63,100	40,760	51,360	16,540	21,520	44,170	55,790	52,660	51,030	642,600
1955	54,300	38,600	23,980	17,850	15,300	10,330	5,790	2,140	2,420	16,860	19,710	9,390	216,700
1956	1,250	24	19	18	4.8	.08	.08	4.0	13	51	117	299	1,800
1957	26,630	40,970	11,650	5,330	3,640	33,060	54,100	55,500	36,780	48,200	57,170	67,280	400,300
1958	69,630	37,210	10,540	36,220	47,770	50,840	51,670	42,110	32,370	59,840	36,760	32,300	486,300
1959	13,780	2,780	3,040	3,230	6,980	26,950	44,280	27,100	41,650	19,910	75,070	86,480	411,200
1960	99,850	82,970	55,710	25,580	26,970	43,500	64,410	37,630	19,010	39,840	96,040	117,800	709,300

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Maximum day		Minimum day	Mean	Per square mile	Runoff	Mean	Runoff		
		Discharge	Date								
1950	-	-	-	-	-	-	-	101	2.21	73,050	-
1951	1204	al,050	Apr. 23, 1951	4.4	285	0.457	6.21	206,870	470	14.24	340,600
1952	1234	al,130	Oct. 2, 1951	16	399	.639	8.70	289,700	353	7.68	256,000
1953	1274	1,810	Sept. 28, 1953	79	543	.870	11.82	393,400	755	16.42	546,300
1954	1334	1,860	Oct. 9, 1953	248	888	1.42	19.31	642,600	682	14.84	493,800
1955	1364	952	Oct. 15, 1954	13	299	.479	6.50	216,700	140	3.03	101,100
1956	1434	46	Oct. 3, 5, 1955	0	2.48	.0040	.06	1,800	110	2.40	79,760
1957	1504	1,190	Sept. 10, 17, 1957	7.1	553	.886	12.02	400,300	606	13.17	438,400
1958	1554	1,260	Oct. 4, 1957	143	672	1.08	14.62	486,300	537	11.67	386,500
1959	1624	1,670	Sept. 25, 1959	45	568	.910	12.35	411,200	870	18.93	630,200
1960	1704	2,240	Sept. 25, 26, 1960	266	977	1.57	21.32	709,300	-	-	-

a Momentary maximum.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

2725. Kissimmee River near Cornwell, Fla.

Location.--Lat 27°21'44", long 81°03'03", in sec.8, T.36 S., R.33 E., on fender pile at downstream end of right pier of bridge on State Highway 700, 3 miles southeast of Cornwell Post Office, Highlands County, and 10½ miles downstream from Istokpoga Canal.

Drainage area.--2,703 sq mi.

Records available.--October 1948 to September 1951. Gage-height records collected at same site April 1928 to January 1931 are contained in reports or files of the Everglades Drainage District and June 1931 to June 1959 in files of the Geological Survey.

Gage.--Staff gage. Datum of gage is 24.64 ft (revised) above mean sea level (Corps of Engineers bench mark).

Extremes.--1948-51: Maximum discharge, 16,800 cfs Oct. 5-7, 1948, from rating curve extended above 4,000 cfs; maximum gage height observed, 10.81 ft Oct. 6, 1948; minimum discharge observed, 314 cfs Sept. 25, 1950 (gage height, 1.12 ft).
Flood in August 1928, resulting from hurricane, reached a peak stage of 11.3 ft.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,450	1,420	1,096	1,032	1,085	906	1,440	1,508	921	1,338	1,618	1,421	1,271

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	89,160	84,520	67,400	63,450	60,280	55,710	85,690	92,730	54,820	82,300	99,510	84,580	920,200

Note.--Figures given herein not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	1,013	5.09	733,200
1951	1204	4,000	Oct. 26, 1950	338	1,271	0.470	6.39	920,200	-	-	-

Note.--Figures of runoff, in acre-feet, not previously published.

2730. Kissimmee River near Okeechobee, Fla.

Location.--Lat 27°14'18", long 80°58'57", in sec.25, T.37 S., R.33 E., on downstream end of left pier of bridge on State Highway 70, 9.4 miles west of Okeechobee, Okeechobee County, and 16 miles upstream from Lake Okeechobee.

Drainage area.--2,886 sq mi.

Records available.--October 1928 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 1.37 ft below mean sea level, datum of 1929. Prior to Apr. 28, 1949, staff gage at same site and datum.

Average discharge.--32 years (1928-60), 2,211 cfs (1,601,000 acre-ft per year).

Extremes.--1928-60: Maximum discharge, 17,800 cfs Oct. 14, 1953; maximum gage height, 29.34 ft Oct. 7, 1948; minimum daily discharge, 68 cfs May 29 to June 5, 1956; minimum gage height observed, 15.19 ft Aug. 7, 1956.
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 of chemical analyses and water temperatures for the period October 1953 to September 1960 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,427	1,693	1,147	1,080	1,105	917	1,452	1,681	939	1,510	1,975	1,581	1,377
1952	3,939	2,733	2,286	1,804	1,527	1,335	1,394	1,469	1,580	1,566	1,716	1,938	1,943
1953	3,579	3,813	2,397	1,827	1,611	1,466	1,533	1,485	1,429	1,658	2,518	7,463	2,562
1954	11,780	7,678	6,984	5,399	3,715	2,769	1,941	1,632	3,424	3,253	2,344	2,321	4,449
1955	2,619	1,950	1,616	1,336	1,233	925	745	492	470	1,130	1,126	1,124	1,232
1956	802	547	467	395	326	263	171	161	99.0	125	140	465	326
1957	3,398	2,289	1,375	1,151	1,019	1,402	1,667	2,229	1,905	2,461	3,468	4,554	2,249
1958	4,247	2,671	1,786	2,315	2,959	3,111	3,097	2,626	1,951	2,072	1,915	1,812	2,545
1959	1,350	834	710	734	807	1,712	2,725	2,233	4,484	5,897	5,351	6,128	2,752
1960	8,118	6,688	4,517	3,059	2,983	3,793	5,992	3,866	2,850	3,990	9,293	11,860	5,584

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	87,750	100,700	70,530	66,390	61,390	56,380	86,420	103,400	55,890	92,830	121,400	94,060	997,100
1952	242,200	162,600	140,600	110,900	87,810	82,100	82,950	90,350	94,020	96,280	105,500	115,300	1,411,000
1953	220,000	228,900	147,400	112,300	89,450	90,170	91,240	91,340	85,050	102,000	154,900	444,100	1,855,000
1954	724,200	456,900	428,400	332,000	303,500	170,200	115,500	100,300	203,700	200,000	144,100	136,100	5,221,000
1955	161,000	116,000	99,370	82,140	68,490	56,880	44,320	30,250	27,980	69,480	69,230	66,900	892,000
1956	49,320	32,530	28,740	24,310	18,740	16,170	10,150	7,110	5,890	7,660	8,600	27,650	236,900
1957	208,900	136,200	84,540	70,770	56,590	86,200	99,170	137,100	113,400	151,300	213,300	271,000	1,628,000
1958	261,100	158,900	109,800	142,300	164,400	191,300	184,300	161,500	116,100	127,400	117,700	107,800	1,843,000
1959	81,810	49,600	43,630	45,120	44,800	105,300	162,100	137,300	266,800	362,600	329,000	364,600	1,993,000
1960	493,200	397,900	277,800	198,100	171,600	232,600	356,500	237,700	169,600	245,400	571,400	705,700	4,054,000

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff		
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet	
1950	-	-	-	-	-	-	-	-	1,081	5.09	782,200	-
1951	1204	3,740	Oct. 28, 1950	400	1,377	0.477	6.47	997,100	1,773	8.33	1,284,000	-
1952	1234	7,280	Oct. 4, 1951	1,220	1,943	.673	9.17	1,411,000	2,010	9.49	1,459,000	-
1953	1274	a5,750	Oct. 29, 1952	1,250	2,562	.888	12.05	1,855,000	3,966	18.65	2,871,000	-
1954	1334	17,800	Oct. 14, 1953	1,420	4,449	1.54	20.93	3,221,000	2,744	12.92	1,987,000	-
1955	1384	2,960	Oct. 15, 1954	320	1,232	.427	5.79	892,000	865	4.06	626,200	-
1956	1434	b853	Sept. 10, 1956	68	326	.113	1.56	236,900	766	3.63	555,900	-
1957	1504	8,620	Oct. 22, 1956	196	2,249	.779	10.58	1,628,000	2,388	11.23	1,729,000	-
1958	1554	5,390	Oct. 7, 8, 1957	1,590	2,545	.882	11.96	1,843,000	2,055	9.65	1,488,000	-
1959	1624	8,440	June 25, 1959	645	2,752	.954	12.93	1,993,000	4,133	19.43	2,993,000	-
1960	1704	15,000	Sept. 30, 1960	2,360	5,584	1.93	26.31	4,054,000	-	-	-	-

a Maximum peak discharge; maximum discharge during year, 8,440 cfs Sept. 28, 1953, for flood event whose crest occurred during the next water year.

b Maximum peak discharge; maximum discharge during year, 903 cfs Oct. 1, 1955, stage falling.

Note.--Figures of runoff, in acre-feet, prior to 1957 water year, not previously published.

2740. Taylor Creek near Basinger, Fla.

Location--Lat 27°23'36", long 80°53'42", in SE $\frac{1}{4}$ sec.26, T.35 S., R.34 E., near right bank about 500 ft downstream from county road bridge, 0.9 mile downstream from small tributary, and 8.5 miles east of Basinger, Okeechobee County.

Drainage area--15.7 sq mi.

Records available--June 1955 to September 1960.

Gage--Water-stage recorder. Datum of gage is 29.10 ft above mean sea level, datum of 1929. Prior to Apr. 14, 1960, at site about 500 ft upstream at same datum.

Average discharge--5 years (1955-60), 18.7 cfs (13,540 acre-ft per year).

Extremes--1955-60: Maximum discharge, 2,540 cfs Oct. 15, 1956 (gage height, 7.88 ft), from rating curve extended above 1,100 cfs by logarithmic plotting; no flow at times in most years.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	24.1	28.5	8.31	-
1956	3.99	0.24	0.33	0.54	0.32	0.13	2.27	15.6	0.55	.70	1.16	46.3	5.97
1957	125	1.12	.31	.54	.58	7.45	11.9	10.5	12.6	15.2	46.5	76.3	25.8
1958	12.8	.21	2.17	30.8	4.40	28.5	8.70	2.24	1.12	21.6	11.5	10.6	11.3
1959	8.00	.79	.97	6.54	2.46	45.3	2.39	6.10	74.0	2.13	5.24	5.74	13.3
1960	82.7	8.33	6.01	1.36	14.2	48.8	1.17	.18	38.3	61.8	26.2	154	36.9

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	1,480	1,750	494	-
1956	245	14	20	33	18	7.9	135	957	33	43	72	2,760	4,340
1957	7,660	67	19	33	32	458	706	647	747	935	2,860	4,540	18,700
1958	790	12	133	1,890	245	1,750	518	138	66	1,330	707	628	8,210
1959	492	47	60	402	157	2,790	142	375	4,400	131	322	342	9,640
1960	5,080	496	569	84	816	3,000	70	11	2,280	3,800	1,610	9,160	26,780

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-
1955	1434	a402	July 2, 1955	-	-	-	-	-	-	-	-
1956	1434	326	Sept. 18, 1956	0	5.97	0.380	5.17	44,340	16.3	14.09	11,800
1957	1504	2,540	Oct. 15, 1956	0	25.8	1.64	22.34	18,700	16.4	14.20	11,890
1958	1554	402	Mar. 12, 1958	0	11.3	.720	9.78	8,210	10.9	9.39	7,870
1959	1624	1,050	June 18, 1959	0	13.3	.847	11.52	9,640	20.7	17.90	14,990
1960	1704	886	Mar. 18, 1960	0	36.9	2.35	31.95	26,780	-	-	-

* Not previously published.

a Maximum during period June to September.

2745. Taylor Creek above Okeechobee, Fla.

Location.--Lat 27°17'03", long 80°49'20", in NW $\frac{1}{4}$ sec.3, T.37 S., R.35 E., near right bank on downstream side of county bridge, 0.8 mile downstream from small tributary canal, 2.8 miles north of Okeechobee, Okeechobee County, and 7.6 miles upstream from Lake Okeechobee.

Drainage area.--98.7 sq mi.

Records available.--June 1955 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 18.22 ft above mean sea level, datum of 1929.

Average discharge.--5 years (1955-60), 145 cfs (105,000 acre-ft per year).

Extremes.--1955-60: Maximum discharge, 6,930 cfs Oct. 16, 1956 (gage height, 9.20 ft); no flow at times in some years.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	116	121	128	-
1956	31.1	2.73	3.06	3.36	1.31	0.31	0.05	56.8	25.0	25.5	1.54	233	31.8
1957	839	19.3	3.42	4.88	6.94	61.2	80.6	192	132	213	451	564	216
1958	125	8.06	22.2	215	43.4	162	39.0	14.4	7.77	186	149	106	90.6
1959	41.9	12.5	11.0	41.4	28.5	283	28.2	13.7	825	122	64.3	244	142
1960	392	171	34.2	21.4	262	303	26.8	8.11	247	188	360	956	246

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	7,150	7,420	7,620	-
1956	1,910	162	188	207	75	19	3.0	3,500	1,490	1,570	95	13,890	23,110
1957	51,600	1,150	210	300	385	3,760	4,790	11,820	7,830	13,090	27,730	33,590	156,300
1958	7,670	480	1,370	13,200	2,410	9,950	2,320	888	463	11,420	9,150	6,300	65,620
1959	2,580	745	674	2,540	1,580	17,400	1,680	840	49,100	7,510	3,950	14,540	103,100
1960	24,090	10,150	2,100	1,320	15,070	18,620	1,590	498	14,670	11,560	22,110	56,860	178,600

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-
1955	1384	a439	July 4, 1956	-	-	-	-	-	-	-	-
1956	1434	404	Sept.12,13,1956	0	31.8	0.322	4.38	+23,110	102	14.01	73,810
1957	1504	6,930	Oct. 16, 1956	2.5	216	2.19	29.69	156,300	156	21.44	112,800
1958	1554	793	Jan. 26, 1958	1.0	90.6	.918	12.48	65,620	83.0	11.43	60,100
1959	1624	4,440	June 19, 1959	3.7	142	1.44	19.60	103,100	187	25.75	135,500
1960	1704	2,390	Sept.26, 1960	4.1	246	2.49	33.94	178,600	-	-	-

* Not previously published.

a Maximum during period June to September.

LAKE OKEECHOBEE AND THE EVERGLADES

2765. St. Lucie Canal at Lake Okeechobee, Fla.

Location (revised).--Lat 26°59', long 80°37', in sec.22, T.40 S., R.37 E., on downstream side of left pier of bridge on U.S. Highway 441 at Lake Okeechobee, and 23.9 miles upstream from lock near Stuart, Martin County.

Records available.--April 1931 to September 1952. Prior to October 1946, published at St. Lucie Canal at lock 1, at Lake Okeechobee.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to Jan. 17, 1934, staff gage at site a quarter of a mile downstream at different datum. Jan. 17, 1934, to Mar. 15, 1951, water-stage recorder at site 0.7 mile downstream at datum 1.56 ft lower. Since Jan. 17, 1934, auxiliary water-stage recorder 10.8 miles downstream.

Extremes.--1931-52: Maximum daily discharge, 7,470 cfs Nov. 2, 6, 1951. Lock closed on many days in most years; net flow during these periods consists of leakage and lockage through Stuart lock (generally less than 10 cfs).

Remarks.--Flow regulated by lock near Stuart. Records include flow through lock, and leakage and lockage. Records of chemical analyses for the period October 1954 to September 1959 are published in reports of the Geological Survey.

Cooperation.--Since July 1951, records furnished by Corps of Engineers.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	10	10	10	10	10	10	10	10	10	10	10	10	10
1952	6,398	2,180	10	10	10	10	10	10	10	10	10	10	729

Note.--Figures given herein not previously published; estimated or partly estimated on basis of records of leakage and lockage.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	615	595	615	615	555	615	595	615	595	615	615	595	7,240
1952	393,400	129,700	615	615	575	615	595	615	595	615	615	595	529,200

Note.--Figures given herein not previously published; estimated or partly estimated on basis of record of leakage and lockage.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	*10	*7,240
1951	1204	-	-	-	*10	*7,240	*731	*529,100
1952	1234	7,470	Nov. 2, 6, 1951	-	*729	*529,200	-	-

* Not previously published.

2768. Monreve Ranch drainage canal near Stuart, Fla.

Location.--Lat 27°03'40", long 80°19'11", in SE $\frac{1}{4}$ sec.22, T.39 S., R.40 E., on right bank, 12 ft upstream from dam, 200 ft upstream from mouth, and 10 miles southwest of Stuart, Martin County.

Drainage area.--6.20 sq mi.

Records available.--June 1959 to September 1960.

Gage.--Water-stage recorder and steel-plate control. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers bench mark).

Extremes.--1959-60: Maximum discharge, 765 cfs Sept. 23, 1960 (gage height, 19.78 ft), from rating curve extended above 170 cfs by logarithmic plotting; minimum, 0.7 cfs June 12, 13, 1960 (gage height, 16.10 ft).

Remarks.--Flow occasionally regulated by stoplog control 1,500 ft upstream. Discharge includes flow diverted from the St. Lucie Canal for irrigation.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	15.4	8.94	15.1	-
1960	28.8	20.3	10.5	3.65	7.73	3.04	9.49	6.77	11.1	19.5	6.91	65.0	16.0

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	945	549	895	-
1960	1,770	1,210	648	225	445	187	565	417	659	1,200	425	3,870	11,620

Yearly discharge, in cubic feet per second, of Monreve Ranch drainage canal near Stuart, Fla.

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1959	1704	a242	June 18, 1959	-	-	-	-	-
1960	1704	765	Sept. 23, 1960	0.7	16.0	11,620	-	-

a Maximum during period June to September.

Note.--Figures of discharge per square mile and runoff in inches, previously published in some water-supply papers, are subject to error because of diversions from St. Lucie Canal for irrigation above station. Those figures are not published herein and should not be used.

2770. St. Lucie Canal at lock, near Stuart, Fla.

Location.--Lat 27°06'39", long 80°17'06", in Hanson Grant, T.39 S., R.41 E., at upstream end of right lock wall, 6.3 miles southwest of Stuart, Martin County.

Records available.--October 1952 to September 1960. Gage-height records collected at same site since December 1924 are contained in files of the Everglades Drainage District and 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. Sept. 5, 1952, to Jan. 1, 1955, auxiliary water-stage recorder at Arundel Bridge, 1.9 miles upstream.

Extremes.--1952-60: Maximum daily discharge, 10,500 cfs Oct. 10, 1953; lock closed and flow consists of leakage and lockage (generally less than 10 cfs) during several periods in each year.

Remarks.--Flow regulated by lock near Stuart. Records of chemical analyses for the period November 1954 to September 1959 are published in reports of the Geological Survey.

Cooperation.--Records furnished by Corps of Engineers.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	*3,118	*4,335	*10	*10	*10	*10	*10	*10	*10	*10	*5,659	7,711	*1,742
1954	9,325	8,315	8,293	*3,445	*10	*10	*10	*1,012	5,162	6,245	5,758	*1,793	*4,152
1955	*635	*10	*12.2	*10	*10	*10	*10	*10	*10	*10	*10	*10	63.3
1956	*10	*10	*61.5	*10	*10	*10	*10	*10	*10	*10	*10	*10	14.4
1957	*10	*10	*10	*10	*10	*10	*10	*746	*1,503	*10	*1,376	6,385	*835
1958	*4,088	*10	*10	*3,295	5,986	3,777	6,117	5,322	*2,148	*2,382	1,599	*466	*2,916
1959	*10	*10	*10	*10	*10	*10	*1,872	*1,605	4,344	6,519	6,331	6,480	*2,276
1960	6,722	7,078	4,463	1,699	1,423	2,644	3,359	2,791	1,442	2,542	5,533	6,924	3,889

* Not previously published; estimated or partly estimated on basis of record of leakage and lockage.

Monthly and yearly runoff, in thousands of acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	*191.7	*258.0	*0.6	*0.6	*0.6	*0.6	*0.6	*0.6	*0.6	*0.6	*348.0	458.8	*1,261
1954	573.3	494.8	509.9	*211.8	*6	*6	*6	*62.2	307.2	384.0	354.1	*106.7	*3,006
1955	*59.0	*6	*7	*6	*6	*6	*6	*6	*6	*6	*6	*6	*45.8
1956	*6	*6	*3.8	*6	*6	*6	*6	*6	*6	*6	*6	*6	*10.4
1957	*6	*6	*6	*6	*6	*6	*6	*45.8	*89.4	*6	*84.6	380.0	*604.7
1958	*251.4	*6	*6	*202.6	332.4	232.2	364.0	327.3	*127.8	*146.5	98.3	*27.7	*2,111
1959	*6	*6	*6	*6	*6	*6	111.4	*98.7	258.5	400.8	399.3	395.6	*1,648
1960	413.3	421.2	274.4	104.5	81.8	162.6	198.7	171.6	65.8	156.3	340.2	412.0	2,822

* Not previously published; estimated or partly estimated on basis of record of leakage and lockage. Figures less than 1,000 acre-ft are rounded, but totals are computed from unrounded figures.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum daily		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-
1953	1274	10,200	Oct. 22, 1952	-	*1,742	*1,261,000	*3,300	*2,389,000
1954	1334	10,500	Oct. 10, 1953	-	*4,152	*3,006,000	*2,028	*1,468,000
1955	1384	1,850	Oct. 15, 1954	-	*63.3	*45,830	*14.4	*10,400
1956	1434	716	Dec. 14, 1955	-	*14.4	*10,420	*10	*7,260
1957	1504	7,030	Sept. 10, 1957	-	*835	*604,700	*1,182	*855,500
1958	1554	7,450	Jan. 26, 1958	-	*2,916	*2,111,000	*2,570	*1,881,000
1959	1624	6,950	June 23, 1959	-	*2,276	*1,648,000	3,805	2,755,000
1960	1704	8,870	Sept. 29, 1960	-	3,889	2,822,000	-	-

* Not previously published.

2777. Southwest Fork Loxahatchee River at S-46, near Jupiter, Fla.

Location.--Lat 26°56'02", long 80°08'31", in NW $\frac{1}{4}$ sec.3, T.41 S., R.42 E., on upstream side near center of bridge on State Highway 706, 200 ft upstream from control structure 46, 2.4 miles upstream from mouth, and 3 miles west of Jupiter, Palm Beach County.

Records available.--February 1959 to September 1960.

Gage.--Dual water-stage and gate-opening recorder, and deflection-meter recorder. Datum of gage is 0.18 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Extremes.--1959-60: Maximum discharge, 4,210 cfs June 18, 1959; maximum gage height, 15.60 ft July 2, 1959; no flow for many days each year; minimum gage height, 7.57 ft Mar. 18, 1960.

Remarks.--Flow is regulated by automatic, electrically-operated sluice gates in control structure 46, and is occasionally diverted by upstream pumping for agricultural and commercial purposes. Discharge computed from continuous velocity record obtained from recording deflection meter. Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	95.9	246	71.0	424	262	254	437	-
1960	666	317	178	57.1	41.4	47.7	50.7	23.5	139	247	154	1,053	246

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	5,900	14,650	4,360	25,230	16,130	15,610	26,000	-
1960	40,930	18,870	10,950	3,510	2,380	2,930	1,820	1,440	8,290	15,210	9,480	62,650	178,460

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1959	-	4,210	June 18, 1959	0	-	-	-	-
1960	-	3,420	Sept. 8, 1960	0	246	178,460	-	-

a Maximum during period February to September.

2780. West Palm Beach Canal at HGS-5, 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, Palm Beach County, 200 ft upstream from U.S. Highway 441.

Records available.--November 1939 to September 1960.

Gage.--Water-stage and deflection-meter recorders. 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. Jan. 14, 1954, to Feb. 24, 1956, water-stage recorder at same site and datum. Since May 1940, auxiliary water-stage recorder below lock and dam, 700 ft downstream.

Extremes.--1939-60: Maximum daily discharge, 1,610 cfs Oct. 2, 1959; 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.--Flow regulated at station by operation of hurricane gates. Flow occasionally reversed after periods of considerable rainfall because of downstream natural drainage and pumpage from agricultural lands in the Everglades. Discharge computed from continuous velocity record obtained from recording deflection meter in hurricane gate chamber. Records of chemical analyses for the period October 1953 to September 1959 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-350	-133	330	414	402	409	371	454	375	126	85.5	64	228
1952	-67.5	56.8	321	491	264	416	477	336	98.8	125	31.3	82.6	219
1953	-290	54.0	358	375	328	418	401	454	286	-70.6	-528	-185	132
1954	-19.0	0	9.7	364	300	186	268	294	-287	-679	63.9	-296	17.4
1955	-91.5	267	231	221	207	432	432	523	-40.6	54.9	59.4	158	204
1956	384	335	125	255	133	312	293	114	306	55.9	-45.4	-411	155
1957	-200	67.8	147	47.3	72.8	0	0	0	37.3	38.8	.4	0	17.0
1958	1.9	143	211	486	487	117	235	241	314	179	332	181	229
1959	0	137	0	96.2	81.4	42.4	0	148	0	377	1,156	1,183	269
1960	301	27.4	296	685	402	582	543	566	394	76.9	125	0	334

Note.--Negative figures indicate reverse flow.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	21,500	7,900	20,290	25,460	22,320	25,170	22,080	27,900	22,290	7,760	5,260	381	165,300
1952	-4,150	3,380	19,720	30,180	15,160	25,610	28,400	20,650	5,880	7,660	1,930	4,920	159,300
1953	-17,850	3,210	22,000	23,060	18,210	25,720	23,880	27,900	16,990	-4,340	-32,470	-17,020	95,290
1954	-1,170	0	595	23,610	16,640	11,430	15,940	18,080	-17,100	-41,750	3,930	-17,630	12,580
1955	-5,630	15,890	14,200	13,560	11,480	26,580	25,710	32,170	-2,420	3,380	3,650	9,410	148,000
1956	23,590	19,950	7,710	15,700	7,660	19,170	17,430	7,010	18,180	3,440	-2,790	-24,460	112,600
1957	-12,320	4,030	9,030	2,910	4,040	0	0	0	2,220	2,390	28	0	12,330
1958	115	8,500	12,980	29,890	27,040	7,200	13,970	14,810	18,690	10,990	20,420	1,080	165,700
1959	0	8,170	0	5,920	4,520	2,610	0	9,100	0	23,200	71,110	70,410	195,000
1960	18,500	1,630	18,190	42,090	23,140	35,780	32,290	34,790	23,440	4,730	7,670	0	242,200

Note.--Negative figures indicate reverse flow.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date							
1950	-	-	-	-	-	-	318	230,200		
1951	1204	584	Apr. 3, 1951	-1,130	228	165,300	245	177,600		
1952	1234	583	Apr. 5, 1952	-397	219	159,300	204	147,800		
1953	1274	586	June 1, 1953	-736	132	95,290	121	87,360		
1954	1334	582	Apr. 2, 1954	-1,110	17.4	12,580	52.0	37,610		
1955	1384	785	Apr. 27, 1955	-643	204	148,000	241	174,800		
1956	1434	623	Oct. 27, 1955	-824	155	112,600	85.5	62,080		
1957	1504	247	Feb. 15, 1957	-717	17.0	12,330	45.8	33,180		
1958	1554	1,120	Jan. 16, 1958	-260	224	165,700	210	152,300		
1959	1624	al. 340	Aug. 11, 1959	0	269	195,000	311	225,200		
1960	1704	1,610	Oct. 2, 1959	0	334	242,200	-	-		

a Maximum daily discharge for flood event whose crest occurred during the year; maximum daily discharge, 1,550 cfs Sept. 30, 1959, stage rising.

Note.--Negative figures indicate reverse flow.

2784.5. West Palm Beach Canal above S-5A, near Loxahatchee, Fla.

Location.--Lat 26°41'05", long 80°22'15", in SW $\frac{1}{4}$ sec.32, T.43 S., R.40 E., near south bank, 500 ft upstream from pump station S-5A, 0.3 mile upstream from Levee 8 Canal, 1.1 miles downstream from bridge on U.S. Highway 441 and confluence with Cross Canal, and 6 miles west of Loxahatchee, Palm Beach County.

Records available.--October 1957 to September 1960.

Gage.--Deflection-meter recorder. Auxiliary water-stage recorders at pump station S-5A, and control structure 5A-W, 0.3 mile downstream. Datum of gages is at mean sea level, datum of 1929.

Extremes.--1957-60: Maximum daily discharge, 3,820 cfs June 19, 1959; maximum gage height, 14.02 ft Oct. 3, 1957; maximum daily reverse flow, 277 cfs Apr. 10, 1959; minimum gage height, 8.41 ft Oct. 23, 1959.

Remarks.--Flow regulated primarily by pumpage at S-5A and to a lesser extent by operation of control structure 5A-W. Flow occasionally reversed at S-5A-W by upstream pumping or by inversion of head because of prolonged pumping at S-5A. Major regulation above station occurs in Cross Canal, $\frac{1}{2}$ miles upstream, and at Hurricane Gate Structure 5 at Lake Okeechobee, 20 miles upstream. Discharge computed from continuous velocity record obtained from recording deflection vane and from head-gate-opening-discharge relations. Records of chemical analyses for the period November 1957 to September 1959 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	506	145	763	2,149	722	594	460	551	387	300	398	363	613
1959	278	52.9	223	88.1	67.9	328	58.7	398	885	1,169	1,894	2,040	625
1960	1,132	538	426	543	518	492	840	533	434	653	712	1,779	716

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	51,100	8,610	46,900	132,200	40,090	35,890	27,380	33,870	23,020	18,460	24,460	21,590	443,600
1959	17,110	5,150	13,690	5,420	3,770	20,190	2,300	24,490	52,680	71,880	116,500	121,400	452,600
1960	69,630	32,000	26,210	33,390	29,780	30,260	50,010	32,740	25,810	40,140	43,790	105,900	519,700

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30				Calendar year			
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet	
		Discharge	Date						
1958	1624	3,350	Dec. 24, 1957	-162	613	443,600	540	390,900	
1959	1624	3,820	June 19, 1959	-277	625	452,600	754	546,100	
1960	1704	3,640	Sept. 26, 1960	-45	716	519,700	-	-	

Note.--Negative figures indicate reverse flow to west.

2785. Diversions to Conservation Area No. 1 at S-5A and S-5A-S, near Loxahatchee, Fla.

Location.--Lat 26°41'00", long 80°22'10", in S $\frac{1}{2}$ sec.32, T.43 S., R.40 E., at pump station S-5A, $\frac{1}{2}$ miles downstream from Cross Canal and 6 miles west of Loxahatchee, Palm Beach County.

Records available.--October 1957 to September 1960.

Gage.--Dual water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Auxiliary deflection-meter recorders 500 ft upstream and in Levee 8 Canal. Auxiliary water-stage recorders above S-5A-W, below S-5A-E and in Levee 8 Canal.

Extremes.--1957-60: Maximum daily discharge, 5,220 cfs Sept. 27, 1960; maximum daily reverse flow, 317 cfs Oct. 16, 1958.

Remarks.--Flow is comprised of S-5A pumpage and discharge through control structure 5A-S. Normal flow is considered as that to the south into Conservation Area No. 1. Flow is affected by S-5A pumpage, and regulation of Cross Canal, $\frac{1}{2}$ miles upstream, and Hurricane Gate Structure No. 5, 20 miles upstream. Discharge computed from continuous velocity record obtained from recording deflection vanes and from head-gate-opening-discharge relations.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	507	9.3	751	2,605	318	191	62.7	223	30.3	56.3	123	157	424
1959	97.3	43.2	300	172	47.9	429	242	353	1,322	1,114	1,586	1,995	644
1960	1,326	612	12.8	0	109	98.6	377	68.8	71.7	385	500	2,637	514

Monthly and yearly discharge, in acre-feet, of Diversions to Conservation Area No. 1 at S-5A and S-5A-S, near Loxahatchee, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	51,200	551	46,170	160,200	17,680	11,720	3,730	13,730	1,800	3,460	7,580	9,360	307,200
1959	5,980	2,570	18,460	10,590	2,660	26,380	14,420	21,730	78,690	68,470	97,550	118,700	466,200
1960	81,510	36,430	785	0	6,290	6,070	22,430	4,230	4,270	23,560	30,750	156,900	373,200

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1958	1624	4,300	Jan. 3, 1958	-156	424	307,200	354	256,500
1959	1624	5,120	June 20, 1959	-317	844	466,200	771	557,900
1960	1704	5,220	Sept. 27, 1960	-11	514	373,200	-	-

Note.--Negative figures indicate reverse flow to north.

2785.5. Levee 8 Canal at West Palm Beach Canal, near Loxahatchee, Fla.

Location--Lat 26°41'05", long 80°21'35", in SE¼ sec.32, T.43 S., R.40 E., at upstream side and in center of span of bridge on U.S. Highway 441, 50 ft above mouth and confluence with West Palm Beach Canal, 0.2 mile east of pump station S-5A, and 6 miles west of Loxahatchee, Palm Beach County.

Records available--October 1957 to September 1960.

Gage--Water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929.

Extremes--1957-60: Maximum daily discharge, 2,100 cfs Sept. 28, 1960; maximum gage height, 19.10 ft Sept. 27, 1960, from floodmarks; maximum daily reverse flow, 75 cfs June 17, 1958; minimum gage height, 9.60 ft Jan. 20, 1958.

Remarks--Flow regulated by operation of S-5A-E, S-5A-S, S-5A-W just downstream and pumpage at S-5A. Gate operation and pumpage occasionally reverses the flow. Discharge computed from continuous velocity record obtained from recording deflection meter.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	619	102	212	820	214	136	192	272	114	185	222	269	281
1959	212	163	194	241	197	175	342	250	570	546	482	505	323
1960	601	691	212	136	154	142	175	162	192	397	425	937	352

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	58,040	6,040	13,030	50,400	11,910	8,340	11,450	16,700	6,800	11,360	13,640	15,990	203,720
1959	13,050	9,690	11,920	14,830	10,950	10,750	20,350	15,350	33,900	33,600	29,660	30,070	234,100
1960	36,980	41,120	13,030	8,350	8,880	8,740	10,400	9,990	11,410	24,430	26,120	55,770	255,200

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1958	1624	1,510	Jan. 25, 1958	-75	281	203,720	250	181,300
1959	1624	1,600	June 21, 1959	0	323	234,100	401	290,600
1960	1704	2,100	Sept. 28, 1960	1	352	255,200	-	-

Note.--Negative figures indicate reverse flow to north.

2786. West Palm Beach Canal below S-5A-E, near Loxahatchee, Fla.

Location--Lat 26°41'05", long 80°21'50", in SE $\frac{1}{4}$ sec.32, T.43 S., R.40 E., near left bank, 350 ft downstream from control structure 5A-E and 6 miles west of Loxahatchee, Palm Beach County.

Records available--September 1955 to September 1960.

Gage--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Auxiliary water-stage recorder in Levee 8 Canal 50 ft above S-5A-E.

Extremes--1955-60: Maximum daily discharge, 960 cfs Oct. 3, 1959; maximum gage height, 16.13 ft Sept. 26, 1960; maximum daily reverse flow, 805 cfs Sept. 18, 1960; minimum gage height, 6.13 ft Oct. 9, 1958.

Remarks--Normal flow to east regulated at S-5A-E by Central and Southern Florida Flood Control District for irrigation and drainage. Flow diverted above station through S-5A-S and by pumpage at S-5A. Flow materially affected by regulation of Cross Canal $\frac{1}{2}$ miles upstream and Hurricane Gate Structure No. 5, 20 miles upstream. Discharge computed from head-gate-opening-discharge relations.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	#276	-
1956	393	196	56.2	77.9	141	160	151	23.6	103	43.8	-1.8	-7	112
1957	0	10.9	9.8	33.0	0	0	0	403	438	457	389	592	195
1958	623	240	231	382	629	546	625	611	481	438	496	475	480
1959	393	172	116	157	217	74.0	138	294	133	602	790	551	304
1960	409	617	625	679	563	536	638	626	554	667	637	74.0	553

* Not previously published.

Note.--Negative figures indicate reverse flow.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	#16,450	-
1956	24,160	11,670	3,460	4,790	8,100	9,850	8,990	1,450	6,130	2,690	-109	-40	81,140
1957	0	651	605	2,030	0	0	0	24,760	26,060	28,120	23,890	35,220	141,300
1958	38,290	14,280	14,190	23,500	34,950	33,570	37,210	37,570	28,620	26,790	30,500	28,250	347,700
1959	24,180	10,260	7,130	9,660	12,060	4,550	8,230	18,080	7,910	37,000	48,570	32,770	220,400
1960	25,140	36,890	38,450	41,740	32,360	32,930	37,960	38,500	32,960	41,030	39,170	4,400	401,300

* Not previously published.

Note.--Negative figures indicate reverse flow.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-
		a613	Sept. 30, 1955					
1956	1624	b419	Nov. 5, 1955	-72	112	81,140	59.4	43,110
1957	1624	780	Sept. 29, 1957	-238	195	141,300	286	206,800
1958	1624	762	Oct. 20, 1957	0	480	347,700	446	322,500
1959	1624	926	Aug. 28, 1959	-104	304	220,400	386	279,100
1960	1704	960	Oct. 3, 1959	-805	553	401,300	-	-

a Maximum during period August to September; not previously published.

b Maximum daily discharge for flood event whose crest occurred during the year; maximum daily discharge, 599 cfs Oct. 1, 1955, stage falling.

Note.--Negative figures indicate reverse flow.

2790. West Palm Beach Canal at West Palm Beach, Fla.

Location.--Lat 26°38'40", long 80°03'32", in NE¹ sec.16, T.44 S., R.43 E., 50 ft from left bank on downstream side of left pier of Florida East Coast Railway bridge, 800 ft upstream from lock, dam, and bridge on State Highway 805 on Poinsettia Avenue, and 4.9 miles south of courthouse in West Palm Beach, Palm Beach County.

Records available.--November 1939 to September 1960.

Gage.--Water-stage and deflection-meter recorders. Datum of gage is at mean sea level (State Road Department bench mark). Prior to Apr. 26, 1940, staff gage and Apr. 26, 1940, to Dec. 20, 1949, water-stage recorder, 800 ft downstream at datum 0.25 ft higher. Dec. 20, 1949, to June 3, 1959, water-stage recorder 800 ft downstream at same datum.

Extremes.--1939-60: Maximum daily discharge, 5,320 cfs Apr. 18, 1942; maximum gage height, 10.89 ft Oct. 13, 1947, present datum; minimum daily discharge, 30 cfs or less during periods of leakage only, December 1956 and January 1957, based on estimates; 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.--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 affected by control structures 20 miles upstream. Discharge computed using continuous velocity record from a recording deflection meter.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,011	1,400	626	445	566	316	555	562	689	1,089	1,061	1,177	876
1952	2,546	1,334	679	517	718	594	488	431	307	860	1,289	994	899
1953	2,141	1,726	737	734	742	466	515	369	664	1,210	1,689	2,490	1,124
1954	2,978	1,624	731	541	379	558	860	873	2,062	2,031	1,353	1,866	1,328
1955	1,383	858	551	236	389	338	291	308	849	1,054	937	744	663
1956	496	139	162	137	114	40.0	40.0	68.1	131	254	387	657	219
1957	281	134	50.0	406	401	420	439	1,214	896	806	1,347	1,338	646
1958	1,100	332	686	1,415	831	986	860	1,266	861	721	756	957	900
1959	592	321	265	366	345	362	496	505	1,590	1,315	1,376	1,243	733
1960	1,956	1,442	957	770	739	707	868	805	1,014	883	1,027	2,480	1,136

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	123,700	83,290	38,520	27,370	31,440	19,450	33,000	34,560	40,990	66,970	85,220	70,020	634,500
1952	156,500	79,350	41,730	31,760	41,300	36,510	29,030	26,530	18,260	52,890	79,240	59,160	652,300
1953	131,600	102,700	45,340	45,130	41,210	28,620	30,630	22,700	39,520	74,380	103,900	148,200	813,900
1954	183,100	96,630	44,950	33,290	21,040	34,320	51,170	53,660	122,700	124,900	85,010	111,000	961,800
1955	85,010	51,060	33,890	14,490	21,620	20,760	17,340	18,910	50,510	64,830	57,630	44,290	480,300
1956	30,510	8,250	9,980	8,420	6,570	2,460	2,380	4,190	7,770	15,620	23,780	39,070	159,000
1957	17,250	8,000	3,070	24,960	22,250	25,800	26,110	74,620	53,340	49,590	82,840	79,640	467,500
1958	67,630	19,780	42,150	87,010	46,170	60,650	51,150	77,860	51,220	44,330	46,470	56,930	651,400
1959	36,360	19,110	16,300	22,510	19,150	22,250	29,540	31,070	94,640	80,870	84,610	73,940	530,400
1960	120,300	85,800	58,860	47,350	42,510	43,460	51,630	49,470	60,360	54,310	63,120	147,600	824,800

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	894	647,000
1951	1204	4,160	Oct. 19, 1950	226	876	634,500	821	666,600
1952	1234	4,060	Oct. 16, 1951	232	899	652,300	901	654,300
1953	1274	4,020	Sept. 19, 20, 1953	288	1,124	813,900	1,186	859,000
1954	1334	5,160	June 20, 1954	-	1,328	961,800	1,115	807,000
1955	1384	2,260	Oct. 3, 1954	-	663	480,300	496	359,100
1956	1434	2,430	Sept. 10, 1956	-	219	159,000	191	138,600
1957	1504	3,160	Aug. 30, 1957	-	646	467,500	786	568,700
1958	1554	2,810	Jan. 4, 1958	257	900	651,400	820	593,600
1959	1624	4,300	June 21, 1959	68	733	530,400	999	723,500
1960	1704	5,050	Oct. 21, 1959	565	1,136	824,800	-	-

LAKE OKEECHOBEE AND THE EVERGLADES

2805. Hillsboro Canal below HGS-4, near South Bay, Fla.

Location.--Lat 26°42'00", long 80°42'45", in SW $\frac{1}{4}$ sec.35, T.43 S., R.36 E., 15 ft from south bank, 200 ft downstream from confluence with North New River Canal, 1,000 ft downstream from hurricane gate structure No. 4 and pump structure No. 2 at Lake Okeechobee, and 2 $\frac{1}{2}$ miles north of South Bay, Palm Beach County.

Records available.--March 1957 to September 1960.

Gage.--Deflection-meter recorder. Water-stage recorder on North New River Canal used for gage heights at this station. Datum of gage is at mean sea level, datum of 1929.

Extremes.--1957-60: Maximum discharge, 1,270 cfs Apr. 8, 1958; maximum gage height, 13.62 ft Oct. 6, 1958; maximum reverse flow, 1,690 cfs May 29, 1958; minimum gage height, 8.60 ft Sept. 23, 1960.

Remarks.--Flow regulated by hurricane gates and pump station at Lake Okeechobee. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades, or by the operation of pump structure No. 2. Discharge computed from continuous velocity record obtained from a recording deflection meter. Records of chemical analyses for the period July 1957 to September 1959 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-241	-314	-277	-324	-429	-353	-
1958	-40.2	175	27.6	226	217	86.9	65.4	-14.3	-118	-200	-246	-194	-
1959	-131	-48.7	-205	-224	-70.0	-332	-65.6	71.0	-240	-195	-179	-309	-2.8
1960	-240	-276	-314	-239	-134	-4.3	38.3	17.1	-89.1	-376	-332	-537	-207

Note.--Negative figures indicate flow toward Lake Okeechobee.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-14,320	-19,330	-16,510	-19,930	-26,360	-20,980	-
1958	-2,470	10,420	1,700	13,890	12,060	5,340	3,890	-879	-7,030	-12,280	-15,150	-11,520	-2,030
1959	-8,080	-2,900	-12,630	-13,800	-3,890	-20,420	-3,190	4,370	-14,280	-11,970	-10,920	-18,390	-116,800
1960	-14,770	-16,400	-19,290	-14,710	-7,730	-264	2,280	1,050	-5,300	-23,110	-20,420	-31,940	-150,600

Note.--Negative figures indicate flow toward Lake Okeechobee.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30				Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean
		Discharge	Date				
1957	1504	a831	May 31, 1957	-	-	-	-
1958	1554	1,270	Apr. 8, 1958	-821	-2.8	-2,030	-48.7
1959	1624	712	May 14, 1959	-1,070	-161	-116,800	-198
1960	1704	863	Apr. 12, 1960	-1,150	-207	-150,600	-

a Maximum during period March to September.

Note.--Negative figures indicate flow toward Lake Okeechobee.

2806. Hillsboro Canal at Belle Glade, Fla.

Location.--Lat 26°41'20", long 80°40'35", in SE $\frac{1}{4}$ sec.31, T.43 S., R.37 E., on right bank on pier of footbridge in Belle Glade, Palm Beach County, three-quarters of a mile upstream from bridge on U.S. Highway 441 and 2 $\frac{1}{2}$ miles southeast of Lake Okeechobee.

Records available.--January 1940 to September 1950, October 1954 to June 1957.

Gage.--Staff gage. Datum of gage is at mean sea level, datum of 1929. Prior to Mar. 15, 1944, water-stage recorder at site three-quarters of a mile downstream at datum 1.69 ft lower, and Mar. 15, 1944, to Jan. 12, 1955, at same datum. Jan. 13, 1955, to Mar. 7, 1956, water-stage recorder at site half a mile upstream at same datum. Mar. 8, 1956, to Jan. 31, 1957, water-stage recorder at same site and datum.

Extremes.--1940-50, 1954-57: Maximum daily discharge, 492 cfs Oct. 5, 1955, Feb. 27, 1957; maximum daily reverse flow, 1,500 cfs Jan. 22, 1957.

Remarks.--Flow regulated by hurricane gates and pump (since Jan. 21, 1957) at Lake Okeechobee and by drainage pumps. Discharge computed using three daily observations of velocity. Records of chemical analyses for the period October 1954 to June 1957 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1955	41.5	238	247	224	146	298	153	227	-129	46.3	153	331	165
1956	90.3	169	14.2	16.4	-20.9	50.4	171	105	-53.3	-65.6	-53.1	-217	17.4
1957	-146	51.2	32.9	-135	-90.2	-266	-194	-233	-306	-	-	-	-

Note.--Negative figures indicate flow toward Lake Okeechobee.

Monthly and yearly discharge, in acre-feet, of Hillsboro Canal at Belle Glade, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1955	2,550	14,160	15,200	13,750	8,130	18,320	9,100	13,950	-7,680	2,850	9,390	19,710	119,400
1956	5,550	10,070	873	1,010	-1,200	3,100	10,190	6,450	-3,170	-4,040	-3,270	-12,920	12,640
1957	-8,960	3,050	2,020	-8,290	-5,010	-16,360	-11,570	-14,340	-18,210	-	-	-	-

Note.--Negative figures indicate flow toward Lake Okeechobee.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30				Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean
		Discharge	Date				
1955	1384	467	Sept. 20, 1955	-496	165	119,400	144
1956	1434	492	Oct. 5, 1955	-512	17.4	12,640	-107
1957	1504	a492	Feb. 27, 1957	b-1,500	-	-	-

a Maximum during period October to June.

b Maximum daily reverse flow during period October to June.

Note.--Negative figures indicate flow toward Lake Okeechobee.

2812. Hillsboro Canal at S-6, near Shawano, Fla.

Location.--Lat 26°28'25", long 80°26'55", in NE¼ sec. 4, T.46 S., R.39 E., 20 ft from southwest bank, 500 ft upstream from pump structure 6, and 7 miles southeast of Shawano, Palm Beach County.

Records available.--October 1957 to September 1960.

Gage.--Dual water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929. Prior to Oct. 1, 1959, at datum 0.44 ft lower.

Extremes.--1957-60: Maximum daily discharge, 2,680 cfs Sept. 26, 1960; maximum gage height, 14.74 ft Dec. 25, 1957; no flow for many days in each year; minimum gage height, 7.35 ft May 14, 1959.

Remarks.--Flow regulated by pumpage at S-6, by hurricane gates and pump station at Lake Okeechobee, and by drainage and irrigation pumps upstream.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	370	5.1	479	1,326	269	589	178	218	61.2	25.0	43.2	191	315
1959	138	5.2	76.5	31.2	12.8	108	41.4	193	690	556	50.0	354	188
1960	431	271	6.5	4.4	19.6	30.5	62.0	26.3	26.7	119	293	1,695	247

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	22,750	303	29,430	81,510	14,950	36,230	10,620	13,410	3,640	1,540	2,660	11,360	228,400
1959	8,480	309	4,700	1,920	710	6,620	2,460	11,870	41,040	34,170	3,070	21,070	136,400
1960	26,500	16,130	403	272	1,120	1,880	3,690	1,610	1,590	7,330	18,010	100,800	179,300

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30				Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean
		Discharge	Date				
1958	1624	2,290	Dec. 24, 1957	0	315	228,400	262
1959	1624	2,620	June 19, 1959	0	188	136,400	229
1960	1704	2,680	Sept. 26, 1960	0	247	179,300	-

2815. Hillsboro Canal near Deerfield Beach, Fla.

Location.--Lat 26°19'39", long 80°07'59", in SW $\frac{1}{4}$ sec.35, T.47 S., R.42 E., 600 ft upstream from dam, 2 miles west of Deerfield Beach, Broward County, and 4.4 miles east of State Highway 7.

Records available.--November 1939 to September 1960.

Gage.--Water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to Apr. 15, 1940, staff gage at upstream end of lock at datum 0.92 ft lower. Apr. 15, 1940, to May 7, 1958, water-stage recorder at upstream end of lock. July 31, 1947, to Jan. 7, 1958, and since Dec. 4, 1959, auxiliary water-stage recorder at downstream end of lock or at site 500 ft downstream from lock. Sept. 30, 1953, to Oct. 20, 1958, auxiliary water-stage recorder at Powerline Road, 1.3 miles upstream.

Extremes.--1939-60: Maximum daily discharge, 3,490 cfs Oct. 12, 1947; maximum gage height, 12.58 ft Dec. 24, 1957; no flow on several days in 1939, 1940, 1958, 1959; minimum gage height, 1.46 ft Sept. 27, 1955 (caused by temporary maintenance operation at dam).

Remarks.--Flow 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. At times, discharge computed from continuous velocity record obtained from a recording deflection meter.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,038	631	242	136	227	52.4	226	123	202	496	734	789	409
1952	1,536	679	138	85.5	290	156	98.1	161	99.0	377	602	642	406
1953	1,297	798	129	209	97.9	59.3	66.7	61.6	207	625	1,184	1,640	533
1954	1,952	1,256	550	74.7	82.1	116	344	547	1,515	1,449	1,112	1,525	877
1955	1,087	184	87.2	69.8	70.6	66.5	53.3	68.5	442	1,016	793	349	361
1956	99.1	51.2	75.0	43.1	32.1	30.0	30.0	30.0	35.8	53.7	56.7	159	58.0
1957	124	47.6	25.8	222	114	42.4	199	431	99.8	247	267	830	221
1958	422	30.4	373	604	651	426	311	364	418	221	199	128	344
1959	114	75.5	231	143	89.6	227	92.8	125	651	1,033	1,020	959	399
1960	714	256	115	22.1	63.3	37.3	129	62.4	147	59.2	252	880	228

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	63,830	37,530	14,900	8,340	12,590	3,220	13,450	7,590	12,050	30,520	45,150	46,960	296,100
1952	94,460	40,390	8,500	5,260	16,710	9,570	5,840	9,910	5,890	23,180	36,990	38,200	294,900
1953	79,750	47,450	7,930	12,840	5,430	3,650	3,970	3,790	12,340	38,400	72,810	97,590	386,000
1954	120,000	73,540	32,610	4,590	4,560	7,160	20,470	33,610	90,140	89,120	68,370	90,720	634,900
1955	66,830	10,930	5,360	4,290	3,920	4,090	3,170	4,210	26,270	62,500	48,760	20,790	261,100
1956	6,100	3,050	4,610	2,650	1,840	1,840	1,790	1,840	2,130	3,300	3,490	9,440	42,090
1957	7,600	2,830	1,590	13,630	6,340	2,600	11,850	26,520	5,940	15,180	16,430	49,380	159,900
1958	25,930	1,810	22,950	37,140	36,140	26,210	16,520	22,390	24,900	13,570	12,260	7,600	249,400
1959	6,980	4,490	14,220	8,800	4,980	13,970	5,520	7,680	38,720	63,520	62,710	57,050	288,600
1960	43,920	15,210	7,080	1,360	3,640	2,290	7,690	3,830	8,760	3,640	15,490	52,370	165,300

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet	
		Discharge	Date						
1950	-	-	-	-	-	-	421	304,800	
1951	1204	2,380	Oct. 18, 1950	-	409	296,100	447	323,200	
1952	1234	2,480	Oct. 17, 1951	-	406	294,900	395	286,700	
1953	1274	2,340	Sept. 19, 1953	-	533	386,000	659	477,000	
1954	1334	2,680	Oct. 9, 1953	-	877	634,900	679	491,900	
1955	1384	1,800	Oct. 2, 1954	-	361	261,100	265	191,800	
1956	1434	888	Sept. 10, 1956	-	58.0	42,090	55.6	40,340	
1957	1504	2,800	Jan. 22, 1957	-	221	159,900	274	198,600	
1958	1554	2,280	Dec. 24, 1957	0	344	249,400	310	224,400	
1959	1624	2,620	June 19, 1959	0	399	288,600	455	329,200	
1960	1704	2,660	Sept. 12, 1960	-	228	165,300	-	-	

2835. North New River Canal below HGS-4, near South Bay, Fla.

Location.--Lat 26°41'50", long 80°42'50", in SW $\frac{1}{4}$ sec.35, T.43 S., R.36 E., 30 ft from west bank, 800 ft downstream from confluence with Hillsboro Canal, 1,600 ft downstream from hurricane gate structure No. 4 and pump structure No. 2 at Lake Okeechobee, and 2 $\frac{1}{2}$ miles north of South Bay, Palm Beach County.

Records available.--February 1957 to September 1960.

Gage.--Water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers bench mark).

Extremes.--1957-60: Maximum discharge, 2,250 cfs Apr. 8, 1958; maximum gage height, 13.62 ft Oct. 6, 1958; maximum reverse flow, 3,470 cfs July 25, 1959; minimum gage height, 8.60 ft Sept. 23, 1960.

Remarks.--Flow regulated by hurricane gate and pump station at Lake Okeechobee. Flow occasionally reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades. Discharge computed from continuous velocity record obtained from a recording deflection meter. Records of chemical analyses for the period October 1957 to September 1959 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	319	355	245	253	276	266	-59.2	-844	-
1958	-563	223	-250	-1,487	-283	-652	-265	121	247	197	238	21.2	-207
1959	-16.1	264	186	262	383	90.9	151	226	-739	-939	-317	-781	-105
1960	-526	-422	298	243	424	496	460	490	553	255	-138	-1,902	4.4

Note.--Negative figures indicate flow toward Lake Okeechobee.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	17,710	21,680	14,600	15,540	16,410	16,380	-3,640	-50,210	-
1958	-34,630	13,240	-15,340	-91,420	-15,730	-40,100	-15,770	7,420	14,720	12,130	14,660	1,260	-149,560
1959	-992	15,690	11,440	16,110	21,250	5,590	9,000	13,890	-44,000	-57,750	-19,500	-46,490	-75,760
1960	-32,360	-25,090	18,310	14,940	24,410	30,500	27,390	30,130	21,000	15,660	-8,520	-113,200	3,180

Note.--Negative figures indicate flow toward Lake Okeechobee.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 50				Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean
		Discharge	Date				
1957	1504	a593	Feb. 20, 1957	-	-	-	-
1958	1554	2,250	Apr. 8, 1958	-2,560	-207	-149,560	-120
1959	1624	772	Jan. 6, 1959	-3,080	-105	-75,760	-195
1960	1704	2,140	Apr. 12, 1960	-3,070	4.4	3,180	-

a Maximum daily discharge during period February to September.

Note.--Negative figures indicate flow toward Lake Okeechobee.

2836. North New River Canal at South Bay, Fla.

Location.--Lat 26°40', long 80°43', in sec.14, T.44 S., R.36 E., near right bank on downstream side of bridge on State Highway 80 in South Bay, Palm Beach County, 2.5 miles south of Lake Okeechobee.

Records available.--November 1939 to January 1957 (prior to March 1942, monthly discharge and discharge measurements only).

Gage.--Staff gage. Datum of gage is at mean sea level, datum of 1929. Prior to Apr. 11, 1956, at site 410 ft downstream at same datum.

Extremes.--1939-57: Maximum daily discharge, 1,040 cfs Sept. 30, 1947; maximum gage height observed, 16.39 ft Oct. 15, 16, 1947; maximum daily reverse flow, 2,900 cfs Jan. 22, 1957; minimum gage height observed, 8.18 ft June 30, 1956.
Flood of July 27, 28, 1926, reached a stage of 20.56 ft from records by Everglades Drainage District.

Remarks.--Flow regulated by hurricane gates and pumps (since Jan. 21, 1957) at Lake Okeechobee and by drainage pumps. Discharge computed using twice-daily observations of velocity. Records of chemical analyses for the period October 1953 to January 1957 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	245	234	243	235	272	303	419	394	375	266	136	225	278
1952	125	-35.2	177	353	243	325	456	417	400	325	139	91.7	250
1953	215	-51.7	132	289	333	458	500	479	412	304	280	340	307
1954	236	1.60	-3.61	465	510	512	590	544	54.8	14.0	32.8	161	258
1955	310	431	388	443	503	487	389	414	185	169	201	246	346
1956	293	315	374	317	327	216	318	468	140	177	265	-13.0	267
1957	-6.90	121	61.2	-216	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Negative figures indicate flow toward Lake Okeechobee.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	15,050	13,920	14,930	14,460	15,100	18,620	24,910	24,200	22,290	16,360	8,380	13,370	201,600
1952	7,660	-1,980	10,910	21,700	13,980	19,980	25,940	25,660	23,820	20,000	8,520	5,460	181,600
1953	13,210	-3,080	8,150	17,740	18,520	28,140	29,770	29,440	24,540	18,680	17,190	20,250	222,500
1954	14,540	95	-222	28,260	28,300	31,460	35,100	33,470	3,260	861	2,020	9,590	187,100
1955	19,050	25,670	23,860	27,270	27,910	29,950	23,170	25,470	10,990	10,410	12,360	14,610	250,700
1956	18,030	18,730	23,020	19,460	18,810	13,270	18,950	28,800	8,350	10,860	16,290	-772	193,800
1957	-424	7,170	3,760	13,260	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Negative figures indicate flow toward Lake Okeechobee.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	345	249,900
1951	1204	594	Dec. 19, 1950	-379	278	201,600	241	174,300
1952	1234	677	Jan. 7, 1952	-58	250	181,600	253	183,300
1953	1274	642	Apr. 20, 1953	-137	307	222,500	302	218,700
1954	1334	755	Apr. 8, 1954	-338	258	187,100	333	241,300
1955	1384	705	Mar. 22, 1955	-86	346	250,700	334	241,900
1956	1434	575	May 17, 1956	-	267	193,800	199	144,500
1957	1504	512	Oct. 16, 1956	a-2,900	-	-	-	-
1958	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-

a Extreme during period October to January.

Note.--Negative figures indicate flow toward Lake Okeechobee.

2850. 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, Broward County.

Records available.--November 1939 to September 1960.

Gage.--Water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers bench mark). 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. Since Dec. 9, 1959, deflection-meter recorder near left bank 20 ft upstream from lock and dam.

Extremes.--1939-60: Maximum daily discharge, 3,280 cfs Nov. 19, 1947; maximum gage height, 10.83 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.--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. Since Dec. 9, 1959, discharge computed from continuous velocity record obtained from a recording deflection meter.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	974	822	411	250	277	160	262	295	189	623	845	841	497
1952	1,319	1,058	517	264	312	215	173	264	222	480	742	864	537
1953	1,353	1,156	674	570	691	132	168	122	260	641	918	1,145	652
1954	1,496	1,377	1,031	883	664	689	840	909	1,248	1,472	1,240	1,332	1,101
1955	1,537	770	414	292	199	165	185	169	442	732	624	461	487
1956	478	125	116	175	78.2	50.0	34.7	62.9	51.0	92.5	36.8	221	127
1957	372	83.4	20.0	20.0	67.8	139	388	654	520	578	716	1,163	395
1958	1,145	401	476	1,164	1,073	993	984	931	975	959	977	864	912
1959	346	243	489	468	393	404	207	183	872	1,421	1,305	1,303	638
1960	1,110	1,047	1,213	743	353	310	318	436	615	530	484	733	659

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	59,880	48,900	25,260	15,350	15,400	9,840	15,580	18,170	11,250	38,290	51,930	50,040	359,900
1952	81,100	65,570	51,760	18,200	17,920	13,210	10,310	16,260	13,230	29,480	45,640	51,390	390,100
1953	83,200	68,760	41,410	35,070	38,360	8,090	9,980	7,520	15,470	39,390	56,420	68,120	471,800
1954	91,990	81,940	63,420	54,270	36,850	42,390	49,970	55,880	74,280	90,510	76,240	79,240	797,000
1955	82,210	45,840	25,440	17,970	11,040	11,370	10,890	10,360	26,290	45,030	38,390	27,420	352,200
1956	29,380	7,450	7,110	10,740	4,500	3,070	2,060	3,870	3,030	5,690	2,260	13,140	92,300
1957	22,900	4,960	1,230	1,230	3,760	8,570	23,110	40,240	30,940	35,510	44,000	69,230	285,700
1958	70,390	23,880	29,280	71,550	59,590	61,050	58,570	57,240	58,000	58,970	60,080	51,390	660,000
1959	21,280	14,480	30,070	28,760	21,820	24,860	12,320	11,280	51,900	87,390	80,210	77,540	461,900
1960	68,270	62,290	74,560	45,660	20,280	19,050	18,920	26,830	36,620	32,610	29,780	43,640	478,500

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	584	423,100
1951	1204	1,690	Oct. 19, 1950	-	497	359,900	556	402,300
1952	1234	1,460	Oct. 23, 1951	-	537	390,100	561	407,000
1953	1274	1,860	Oct. 29, Nov. 3	-	652	471,800	712	515,800
1954	1334	1,700	Oct. 20, 1953	521	1,101	797,000	985	713,100
1955	1384	1,580	Oct. 20, 1954	75	487	352,200	335	242,700
1956	1434	923	Oct. 13, 1955	-	127	92,300	107	77,450
1957	1504	1,360	Sept. 22, 1957	-	395	285,700	525	380,100
1958	1554	1,600	Jan. 3, 1958	199	912	660,000	832	602,300
1959	1624	2,040	June 19, 1959	36	658	461,900	830	601,200
1960	1704	1,540	Sept. 24, 1960	135	659	478,500	-	-

2854. South New River Canal at S-9, near Davie, Fla.

Location.--Lat 26°03'40", long 80°26'30", in SW $\frac{1}{4}$ sec.27, T.50 S., R.39 E., 20 ft from south bank, 300 ft east of pump structure 9, half a mile west of U.S. Highway 27, and 13 miles west of Davie, Broward County.

Records available.--October 1957 to September 1960.

Gage.--Dual water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to Oct. 1, 1959, at datum 0.03 ft higher.

Extremes.--1957-60: Maximum discharge, 2,310 cfs June 5, 1960; maximum gage height, 5.66 ft June 5, 1960; maximum reverse flow, 654 cfs July 25, 1959; minimum gage height, -0.29 ft May 9, 1958.

Remarks.--Flow is to the west but is briefly reversed at times by seepage after periods of pumpage. Flow regulated by pumpage at S-9 and by pumpage into the canal from agricultural lands to the east during and after periods of heavy rainfall. Discharge computed from continuous velocity record obtained from recording deflection vane.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	465	241	214	409	177	200	101	293	137	125	107	156	220
1959	90.3	26.5	142	61.9	3.8	81.2	4.4	43.3	416	415	355	*472	177
1960	365	436	279	144	45.4	7.2	52.3	13.6	189	102	128	515	189

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	28,600	14,560	13,170	25,130	9,820	12,270	6,000	18,030	8,180	7,690	6,580	9,300	159,100
1959	5,550	1,580	8,710	3,810	208	4,990	262	2,660	24,750	25,540	21,830	28,080	128,000
1960	22,460	25,920	17,170	8,870	2,610	448	3,110	847	11,240	6,270	7,880	30,630	137,500

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30				Calendar year			
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet	
		Discharge	Date						
1958	1624	2,290	Dec. 24, 1957	0	220	159,100	164	118,800	
1959	1624	2,010	June 21, 1959	0	177	128,000	245	177,700	
1960	1704	2,310	June 5, 1960	0	189	137,500	-	-	

2861. South New River Canal at S-13, near Davie, Fla.

Location.--Lat 26°03'57", long 80°12'32", in SW $\frac{1}{4}$ sec.25, T.50 S., R.41 E., 18 ft from north bank, 150 ft upstream from pump structure 13, 300 ft west of U.S. Highway 441, and 1.5 miles east of Davie, Broward County.

Records available.--March 1957 to September 1960.

Gage.--Dual water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929.

Extremes.--1957-60: Maximum discharge, 1,000 cfs Jan. 18, 1959; maximum gage height, 3.45 ft Sept. 23, 1960; maximum reverse flow, 352 cfs Nov. 13, 1958; minimum gage height, -0.65 ft Apr. 8, 1959.

Remarks.--Flow is affected by tide and is occasionally reversed. Flow is regulated by pumpage and operation of gate at S-13. Flow is affected by regulation of S-13A, 5 miles upstream, and by upstream withdrawals from the canal during the growing season and pumpage into the canal during high water. Discharge computed from continuous velocity record obtained from recording deflection meter. Records of chemical analyses for the period March 1957 to September 1959 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	301	371	298	283	358	347	302	-
1958	267	264	357	326	278	319	260	326	387	371	239	264	303
1959	231	239	317	353	248	326	248	161	400	367	316	376	299
1960	269	320	289	305	514	323	264	249	516	327	364	510	320

Monthly and yearly discharge, in acre-feet, of South New River Canal at S-13, near Davie, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	18,480	22,070	18,340	16,840	21,990	21,310	18,000	-
1958	16,420	15,700	20,710	20,060	15,470	19,590	15,460	20,030	23,020	22,840	14,670	15,730	219,700
1959	14,210	14,210	19,520	21,680	13,790	20,060	14,750	9,920	23,800	22,540	19,460	22,390	216,300
1960	16,530	19,030	17,760	18,780	18,040	19,830	15,710	15,280	18,810	20,110	22,360	30,350	232,600

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1957	1624	a974	Apr. 19, 1957	-	-	-	-	-
1958	1624	945	Feb. 5, 1958	103	303	219,700	297	214,800
1959	1624	1,000	Jan. 18, 1959	5	299	216,300	306	221,700
1960	1704	996	Jan. 21, 1960	94	320	232,600	-	-

a Maximum during period March to September.

2863. Snake Creek Canal at S-29, at North Miami Beach, Fla.

Location.--Lat 25°55'41", long 80°09'22", in SE $\frac{1}{4}$ sec.9, T.52 S., R.42 E., on downstream side of bridge on West Dixie Highway in North Miami Beach, Dade County, 25 ft from right bank, 0.3 mile upstream from salinity-control structure 29, and 0.4 mile upstream from mouth.

Records available.--January 1959 to September 1960.

Gage.--Water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929 (Dade County bench mark).

Extremes.--1959-60: Maximum daily discharge, 2,430 cfs Sept. 11, 1960; maximum gage height, 3.55 ft Sept. 10, 1960; no flow for many days each year; minimum gage height, -0.46 ft Nov. 30, 1959.

Remarks.--Flow is affected by tide and is occasionally reversed. Flow is regulated by the operation of salinity-control structure 29 and by some upstream pumpage for irrigation. Discharge computed from continuous velocity record obtained from recording deflection meter. Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	138	44.4	181	6.1	65.5	610	726	805	779	-
1960	840	836	338	97.1	35.4	66.7	266	202	680	330	451	1,353	457

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	8,490	2,460	11,120	363	4,030	36,330	44,630	49,520	46,360	-
1960	51,650	49,780	20,760	5,970	2,040	4,100	15,820	12,400	40,470	20,290	27,750	80,540	331,600

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1959	-	a2,000	June 21, 1959	0	-	-	450	325,500
1960	-	2,430	Sept. 11, 1960	0	457	331,600	-	-

a Maximum during period January to September.

LAKE OKEECHOBEE AND THE EVERGLADES

2864. Miami Canal at HGS-3 and S-3, at Lake Harbor, Fla.

Location.--Lat 26°41'55", long 80°48'25", in SE¹ sec.35, T.43 S., R.35 E., at hurricane gate structure No. 3 and pump structure No. 3 at Lake Okeechobee, 0.4 mile upstream from U.S. Highway 27, in Lake Harbor, Palm Beach County.

Records available--December 1939 to June 1943 (published as Miami Canal at Lake Harbor), October 1957 to September 1960. Prior to October 1940 monthly discharge only, published in WSP 1304.

Gage.--Dual water-stage recorder and two deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929. Dec. 1, 1939, to June 30, 1943, staff gage at site 0.4 mile downstream at same datum. Oct. 1, 1957, to Sept. 30, 1959, at present site at datum 0.17 ft higher.

Extremes.--1939-43, 1957-60: Maximum daily discharge, 910 cfs Jan. 18, 1959; maximum gage height (Miami Canal), 15.14 ft Mar. 21, 1960; maximum daily reverse flow, 2,420 cfs June 21, 1959; minimum gage height (Miami Canal), 8.25 ft Sept. 22, 1960.

Remarks--Flow regulated by hurricane gates and pump station at Lake Okeechobee. Discharge is summation of HGS-3 flow and S-3 pumpage. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades, or by the operation of pump structure No. 3. Discharge computed from continuous velocity record obtained from recording deflection meters.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-300	4.6	-330	-849	-225	-486	-316	-92.7	-71.4	-272	-53.5	-150	-263
1959	-98.4	176	-49.1	128	116	-38.0	220	213	-678	-622	-394	-577	-135
1960	-572	178	0	60.5	35.8	45.4	-54.0	36.3	-246	-363	-546	-1,614	-290

Note.--Negative figures indicate flow toward Lake Okeechobee.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-18,430	276	-20,320	-52,180	-12,490	-29,890	-18,770	-5,700	-4,250	-16,700	-3,290	-8,920	-190,700
1959	-6,050	10,460	-3,020	7,870	6,470	-2,340	13,070	13,070	-40,370	-38,220	-24,240	-34,350	-97,650
1960	-35,200	-16,520	0	3,720	2,060	2,790	-3,210	2,230	-14,650	-22,340	-23,540	-96,040	-210,800

Note.--Negative figures indicate flow toward Lake Okeechobee.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1958	1704	157	Aug. 21, 1958	-1,700	-263	-190,700	-208	-150,800
1959	1704	910	Jan. 18, 1959	-2,420	-135	-97,650	-208	-150,800
1960	1704	320	May 18, 1960	-2,320	-290	-210,800	-	-

Note.--Negative figures indicate flow toward Lake Okeechobee.

2885. Miami Canal at water plant, Hialeah, Fla.

Location.--Lat 25°49'38", long 80°17'15", in SW¹/₄ sec.18, T.53 S., R.41 E., on left bank at Miami waterplant in Hialeah, Dade County, on U.S. Highway 27, half a mile upstream from 54th Street Bridge.

Records available.--January 1940 to February 1959.

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.

Extremes--1940-59: 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.--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 period October 1953 to September 1960 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

[illegible]

Monthly and yearly discharge, in acre-feet, of Miami Canal at water plant, Hialeah, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	32,910	47,250	49,300	31,360	16,510	3,310	4,000	2,490	99	17,590	33,300	31,470	269,589
1952	49,240	48,860	47,970	31,880	32,020	16,740	8,740	3,810	4,280	21,240	35,540	27,900	328,220
1953	60,290	81,880	70,670	63,560	55,410	41,120	30,410	14,660	19,560	26,040	36,070	53,130	552,800
1954	93,380	87,630	79,930	64,040	44,280	44,680	43,510	45,910	66,720	63,650	48,900	55,230	737,900
1955	63,850	59,990	57,680	48,830	42,100	40,430	29,580	12,130	30,020	41,820	39,190	43,690	509,300
1956	43,390	41,210	42,210	31,710	21,890	5,000	4,110	5,660	8,630	12,460	15,270	25,460	257,000
1957	21,230	21,730	15,530	7,500	8,150	17,610	22,700	39,690	23,120	31,870	42,260	42,120	394,990
1958	55,690	51,700	56,630	64,140	47,440	51,540	50,860	56,490	61,270	55,390	40,950	39,470	651,600
1959	39,780	32,860	40,390	32,130	23,960	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	426	308,460
1951	1204	982	Nov. 24, 25, 1950	0	372	269,589	395	286,199
1952	1234	878	Dec. 5, 1951	-	452	328,220	544	394,990
1953	1274	1,560	Oct. 28, 1952	-	764	552,800	830	600,900
1954	1334	1,600	Oct. 9, 10, 1953	620	1,019	737,900	909	658,400
1955	1384	1,120	Oct. 2, 3, 1954	-	704	509,300	628	454,600
1956	1434	834	Oct. 15, 1955	-	354	257,000	260	188,700
1957	1504	926	May 2, 1957	-	405	293,500	551	399,000
1958	1554	1,310	May 29, 1958	614	872	631,600	802	580,600
1959	1624	a768	Oct. 21, 1958	-	-	-	-	-
1960	-	-	-	-	-	-	-	-

a Maximum during period October to February.

2886. Miami Canal at N.W. 36th Street, Miami, Fla.

Location.--Lat 25°48'29", long 80°15'44", in NE $\frac{1}{4}$ sec. 29, T.53 S., R.41 E., at downstream end of N.W. 36th Street Bridge fender on right bank in Miami, Dade County, 200 ft upstream from salinity control, 1.4 miles upstream from Tamiami Canal, and 5.7 miles upstream from mouth.

Records available.--February 1959 to September 1960.

Gage.--Water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929 (Dade County bench mark).

Extremes.--1959-60: Maximum discharge, 1,900 cfs Oct. 2, 1959; maximum gage height, 4.87 ft Sept. 10, 1960; maximum reverse flow, 450 cfs June 13, 1960; minimum gage height, -0.44 ft Apr. 17, 1960.

Remarks.--Flow affected by tide and is occasionally reversed. Some seepage losses above station into city of Miami well field for recharge of ground-water withdrawals. Natural flow materially affected by levee and control structures 14 miles upstream. Discharge computed from continuous velocity record obtained from a recording deflection meter. Records of chemical analyses for the period April 1959 to September 1960, are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	401	537	323	274	592	791	825	1,058	-
1960	1,051	1,050	1,041	835	756	729	662	682	637	681	848	1,146	843

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	22,290	33,020	19,220	16,830	35,240	48,610	50,730	62,970	-
1960	64,620	62,490	64,010	51,320	43,510	44,840	39,420	41,900	37,920	41,850	52,120	68,180	612,200

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1959	1624	a920	July 23, 1959	-	-	-	-	-
1960	1704	1.900	Oct. 2, 1959	416	843	612,200	-	-

a Maximum daily discharge for flood event whose crest occurred during the period February to September; maximum discharge, 1,240 cfs Sept. 30, 1959, stage rising.

2890. 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, Dade County.

Records available.--November 1939 to September 1960. 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.--1939-60: Maximum daily discharge, 17,000 cfs Oct. 12, 1947, from rating curve extended above 9,800 cfs; maximum gage height, 10.3 ft (estimated) present datum, Oct. 12, 1947; maximum daily reverse flow, 2.0 cfs May 1-10, 1949; no flow on several days in some years; minimum gage height observed, 1.46 ft June 11, 1945.

Remarks.--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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,858	570	180	110	45.7	3.7	4.8	0	0	178	428	474	324
1952	968	917	454	89.5	103	6.2	1.22	.37	18.3	335	518	852	356
1953	2,176	1,788	809	562	577	125	11.4	3.6	35.3	372	746	2,127	777
1954	3,947	3,949	2,743	1,662	574	239	57.7	184	1,572	1,769	1,805	2,635	1,768
1955	2,711	1,857	1,408	744	318	34.2	0	0	148	229	369	1,219	756
1956	753	414	168	53.8	13.3	.1	0	0	.8	100	261	543	193
1957	1,408	463	82.6	2.9	2.0	9.5	2.1	181	202	472	786	1,758	448
1958	4,019	2,499	1,380	2,365	2,973	2,526	2,068	2,281	2,513	2,427	1,400	1,194	2,290
1959	933	519	407	330	148	104	36.7	126	1,615	3,049	3,514	3,680	1,194
1960	3,994	4,560	3,741	2,358	1,419	707	350	75.9	335	535	1,055	4,912	2,001

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	114,100	33,900	11,080	6,770	2,540	230	288	0	0	10,940	26,320	28,210	234,400
1952	59,540	54,580	27,950	5,500	5,940	379	73	23	1,080	20,580	31,860	50,730	259,300
1953	135,800	106,400	49,730	34,530	32,060	7,670	678	220	2,100	22,890	45,870	126,600	562,500
1954	242,700	225,000	168,600	102,200	31,900	14,680	3,430	11,340	33,550	108,800	111,000	156,800	1,280,000
1955	186,700	110,500	86,600	45,770	17,890	2,100	0	0	8,810	14,100	22,690	75,510	547,500
1956	46,320	24,640	10,340	3,310	764	79	0	0	49.6	6,170	16,070	32,340	140,000
1957	86,470	27,550	3,850	178	113	583	127	11,120	12,030	29,050	48,360	104,600	324,000
1958	247,100	148,700	84,830	145,400	165,100	155,300	123,000	127,900	149,500	153,600	86,080	71,070	1,658,000
1959	57,380	30,890	25,050	20,320	8,210	6,400	2,190	7,740	96,080	187,500	203,800	219,000	864,600
1960	245,600	271,300	230,000	145,000	81,600	43,480	20,850	4,670	19,960	32,910	64,880	292,500	1,453,000

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30				Calendar year		
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	323	233,800
1951	1204	2,610	Oct. 15, 1950	0	324	234,400	300	217,400
1952	1234	a1,510	Sept. 25, 1952	b.2	356	258,500	559	406,100
1953	1274	3,860	Sept. 23, 1953	0	777	562,500	1,269	918,900
1954	1334	4,450	Nov. 1, 2, 1953	10	1,768	1,280,000	1,376	997,500
1955	1384	3,170	Oct. 2, 3, 1954	0	756	547,500	366	265,000
1956	1434	910	Oct. 13, 14, 1955	0	193	140,000	243	176,600
1957	1504	c2,320	Oct. 17-19, 1956	0	448	324,000	949	686,800
1958	1554	5,140	May 25, 1958	910	2,290	1,658,000	1,782	1,290,000
1959	1624	5,010	Sept. 23, 1959	0	1,194	864,600	2,069	1,498,000
1960	1704	a8,300	Sept. 10, 1960	0	2,001	1,453,000	0	-

a Momentary maximum.

b Minimum measured.

c Maximum daily discharge for flood event whose crest occurred during the year; maximum daily discharge, 2,780 cfs Sept. 29, 30, 1957, stage rising.

2895. Tamiami Canal near Coral Gables, Fla.

Location--Lat 25°45'43", long 80°19'42", in SW $\frac{1}{4}$ sec.3, T.54 S., R.40 E., on upstream side of footbridge, 25 ft from south bank, half a mile upstream from Coral Gables Canal, 2.5 miles west of Coral Gables, Dade County, 3.5 miles downstream from Snapper Creek Canal, and 6.2 miles upstream from mouth.

Records available--January 1940 to June 1943, October 1959 to September 1960.

Gage--Water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929. January 1940 to June 1943, staff gage at same site at datum 0.22 ft lower.

Extremes--1940-43, 1960: Maximum daily discharge, 554 cfs Sept. 23, 1960, maximum gage height observed, 6.05 ft Sept. 21, 1940; minimum daily discharge, 3.0 cfs Apr. 7-16, 1943; minimum gage height, 1.55 ft Apr. 6, 1960.
Maximum stage known, 8.71 ft Oct. 12, 1947, from staff-gage reading.

Remarks--The flow is slightly affected by tide and is regulated at Dade-Broward levee 7.5 miles upstream and at salinity barrier 1.2 miles downstream. The canal is blocked by levee 30, 10.5 miles upstream. Flow is diverted to and from Snapper Creek Canal 3.5 miles upstream. Records of chemical analyses for the period March 1941 to June 1948 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	352	376	331	295	288	258	286	227	224	191	197	432	288

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	21,620	22,360	20,350	18,170	16,590	15,890	17,010	13,950	13,340	11,750	12,120	25,720	208,900

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1960	1704	554	Sept. 23, 1960	136	288	208,900	-	-

2907. Snapper Creek Canal at S-22, near South Miami, Fla.

Location--Lat 25°40'11", long 80°17'03", in NW $\frac{1}{4}$ sec.7, T.55 S., R.41 E., 15 ft from right bank, 300 ft upstream from salinity-control structure 22, 1.4 miles upstream from mouth, and 2 $\frac{1}{2}$ miles south of South Miami, Dade County.

Records available--February 1959 to September 1960.

Gage--Water-stage and deflection-meter recorders. Datum of gage is at mean sea level, datum of 1929.

Extremes--1959-60: Maximum daily discharge, 2,080 cfs Sept. 11, 1960; maximum gage height, 5.67 ft Sept. 10, 1960; no flow May 7-13, 1959, Apr. 15-18, May 20-28, 1960; maximum reverse flow, 1,220 cfs Sept. 10, 1960, from hurricane storm tide; minimum gage height, -0.59 ft Mar. 26, 1959.

Remarks--Flow affected by tide and operation of S-22 and is occasionally reversed. Some seepage losses above station into city of Miami southwest well field for recharge of ground water withdrawals. Discharge computed from continuous velocity record obtained from recording deflection meter. Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	172	236	209	114	556	636	677	927	-
1960	1,036	1,063	831	567	438	203	330	182	449	326	425	1,065	575

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	9,570	14,520	12,450	6,990	33,100	39,100	41,600	55,160	-
1960	63,670	63,260	51,110	34,870	25,200	12,460	19,640	11,180	26,710	20,030	26,150	63,350	417,600

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1959	-	1,320	Sept. 23, 1959	0	-	-	-	-
1960	-	2,080	Sept. 11, 1960	0	575	417,600	-	-

a Maximum daily during period February to September.

2910. 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, Collier County, and 7 $\frac{1}{2}$ miles upstream from mouth.

Records available.--July to December 1951 (discharge measurements only), January 1952 to September 1960.

Gage.--Water-stage recorder. Datum of gage is at mean sea level (State Road Department bench mark). Prior to Jan. 24, 1952, staff gage at same site and datum.

Extremes.--1952-60: Maximum daily discharge, 263 cfs Oct. 24-26, 1959; maximum gage height, 6.43 ft Sept. 10 or 11, 1960; no flow May 17, 18, 1952; minimum gage height, 0.99 ft May 12, 1955.

Flood in October 1947 reached a stage of about 7 ft, from information by local resident.

Remarks.--Flow regulated by operation of dams at, above, and below station. Overbank flow not included in discharge figures.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	79.0	51.8	27.3	10.3	28.1	74.7	92.4	92.4	-
1953	110	87.7	69.5	61.0	58.0	44.2	44.3	29.1	27.8	56.4	95.5	118	66.9
1954	130	111	99.5	80.4	60.0	71.0	84.9	91.2	102	113	119	114	98.3
1955	123	105	88.6	64.5	46.1	33.7	29.1	19.4	135	198	196	221	105
1956	163	63.8	72.8	29.2	34.6	.74	.10	27.8	21.9	11.4	15.1	49.1	40.9
1957	50.1	29.5	23.9	9.6	11.4	80.1	33.8	56.7	73.8	124	167.	178	70.2
1958	195	156	124	218	200	204	192	173	194	202	209	197	189
1959	188	142	117	123	97.7	88.3	42.9	68.7	177	171	201	212	136
1960	231	248	220	160	103	89.0	86.5	67.3	94.1	147	168	152	147

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	4,540	3,190	1,620	631	1,670	4,590	5,680	5,500	-
1953	6,770	5,220	4,280	3,750	3,220	2,720	2,640	1,790	1,650	3,470	5,870	7,040	48,420
1954	8,020	6,630	6,120	4,940	3,330	4,370	5,050	5,610	6,050	6,930	7,320	6,800	71,170
1955	7,580	6,240	5,450	3,970	2,670	2,070	1,730	1,190	8,040	12,190	12,020	13,130	76,310
1956	10,040	3,800	4,480	1,790	1,990	45	6.0	1,710	1,310	704	926	2,920	29,710
1957	3,080	1,760	1,470	591	635	4,920	2,010	3,490	4,390	7,600	10,260	10,600	50,810
1958	12,020	9,370	7,650	13,410	11,080	12,560	11,430	10,630	11,560	12,440	12,830	11,710	136,700
1959	11,540	8,480	7,170	7,580	5,430	5,430	2,550	4,220	10,530	10,480	12,360	12,640	98,410
1960	14,210	14,780	13,500	9,810	5,940	5,470	5,150	4,140	5,600	9,010	10,340	9,020	107,000

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum day		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-
1952	1234	a162	Oct. 26, 1951	0	-	-	64.3	46,670
1953	1274	127	Sept. 25, 1953	12	66.9	48,420	73.1	52,920
1954	1334	146	Oct. 10, 1953	53	98.3	71,170	96.2	69,670
1955	1364	242	Sept. 9, 10, 1955	9	105	76,310	104	75,330
1956	1434	196	Oct. 5, 1955	-	40.9	29,710	24.4	17,710
1957	1504	196	Sept. 27, 1957	-	70.2	50,810	157	73,540
1958	1554	237	Jan. 24, 1958	96	189	136,700	186	134,800
1959	1624	222	May 30, 1959	7	136	98,410	157	113,700
1960	1704	263	Oct. 24-26, 1959	45	147	107,000	-	-

a Maximum discharge measured.

2915. Imperial River near Bonita Springs, Fla.

Location.--Lat 26°20'05", long 81°45'20", in SE $\frac{1}{4}$ sec.36, T.47 S., R.25 E., on right bank $\frac{1}{2}$ miles east of Bonita Springs, Lee County.

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 (1940-54), 86.0 cfs.

Extremes.--1940-54: Maximum discharge, 2,890 cfs Sept. 12, 1940; maximum gage height, 12.74 ft Oct. 2, 1951; no flow June 28 to July 3, 1940; minimum gage height, 0.96 ft June 30, 1940.
Flood of June 15, 1936, reached a stage of 13.4 ft, from floodmarks.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	7.01	2.16	1.75	1.25	1.07	0.99	0.91	0.86	0.61	127	236	116	41.8
1952	809	44.1	3.13	1.32	1.52	1.69	1.02	.91	2.35	104	118	174	106
1953	234	67.2	8.37	7.05	21.4	1.44	1.54	.91	16.6	84.3	139	457	86.6
1954	350	73.9	18.1	4.21	1.36	1.45	1.40	1.37	2.67	75.2	86.4	129	62.7
1955	119	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	431	128	108	77	60	61	54	53	36	7,820	14,500	6,930	30,260
1952	49,720	2,620	193	81	88	104	61	56	140	6,410	7,260	10,330	77,060
1953	14,410	4,000	515	433	1,190	88	91	56	986	5,180	8,540	27,210	62,700
1954	21,510	4,400	1,110	259	76	89	84	84	159	4,620	5,310	7,690	45,390
1955	7,330	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30				Calendar year		
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	31.1	22,530
1951	1204	636	Aug. 23, 1951	0.5	41.8	30,260	113	82,120
1952	1234	2,810	Oct. 2, 1951	.6	106	77,060	59.9	43,460
1953	1274	909	Sept. 21, 1953	.7	86.6	62,700	97.8	70,790
1954	1334	801	Oct. 9, 1953	.7	62.7	45,390	-	-
1955	1334	-	-	-	-	-	-	-

LAKE OKEECHOBEE AND THE EVERGLADES

2920. 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, Glades County, 0.5 mile downstream from hurricane gate and lock 1 at Lake Okeechobee Outlet and 15 miles upstream from lock 2.

Records available.--October 1938 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--1938-60: 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. Records include flow through lock, leakage and lockage. Records of chemical analyses for the period November 1954 to September 1959 are published in reports of the Geological Survey.

Cooperation.--Records furnished by Corps of Engineers, since July 1951.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	10	10	10	10	10	10	10	10	10	10	10	10	10
1952	\$2,071	\$3,818	\$1,184	\$110	\$989	\$3,178	\$3,228	\$2,126	\$959	\$10	\$10	\$197	\$1,487
1953	\$1,656	\$3,118	\$43.2	\$10	\$2,560	\$3,369	\$3,059	\$1,365	\$10	\$89.0	\$2,648	\$1,163	\$1,629
1954	\$2,477	\$4,289	\$4,469	\$4,499	\$4,158	\$3,994	\$3,984	\$3,889	\$3,117	\$2,733	\$3,385	\$933	\$3,496
1955	\$1,728	\$224	10	10	\$203	\$441	\$166	10	\$541	\$2,777	\$2,087	10	\$693
1956	10	10	10	10	\$80.0	\$76.9	\$79.1	\$31.3	10	10	10	10	\$28.7
1957	10	10	10	10	10	10	10	\$1,458	\$2,914	\$2,676	\$2,964	\$2,447	\$1,049
1958	\$2,352	10	10	\$2,355	\$4,040	\$3,431	\$3,287	\$3,539	\$1,146	\$956	\$722	\$555	\$1,856
1959	10	10	10	10	44.8	10	\$2,072	\$1,222	\$1,472	\$5,041	\$2,868	\$2,768	\$1,321
1960	\$2,321	\$3,872	\$3,277	\$1,287	\$43	\$2,805	\$3,713	\$3,202	\$2,026	\$1,851	\$2,782	\$2,032	\$2,504

* Not previously published; estimated or partly estimated on basis of record of leakage and lockage.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	\$615	\$595	\$615	\$615	\$555	\$615	\$595	\$615	\$595	\$615	\$615	\$595	\$7,240
1952	\$27,200	\$27,200	\$72,810	\$6,760	\$6,910	\$195,400	\$192,100	\$130,800	\$57,080	\$615	\$615	\$11,700	\$1,079,000
1953	\$100,600	\$105,600	\$2,660	\$615	\$142,200	\$207,200	\$182,000	\$120,200	\$595	\$5,470	\$162,800	\$69,180	\$1,179,000
1954	\$152,300	\$255,200	\$276,600	\$276,700	\$230,900	\$245,600	\$237,000	\$239,100	\$185,500	\$168,100	\$208,100	\$65,500	\$2,531,000
1955	\$106,300	\$15,300	\$615	\$615	\$11,290	\$27,110	\$9,900	\$615	\$32,190	\$170,800	\$128,400	\$595	\$501,700
1956	\$615	\$595	\$615	\$615	\$4,600	\$4,730	\$4,710	\$1,920	\$595	\$615	\$615	\$595	\$20,820
1957	\$615	\$595	\$615	\$615	\$555	\$615	\$595	\$89,620	\$173,400	\$164,500	\$182,200	\$145,600	\$759,500
1958	\$144,600	\$595	\$615	\$144,800	\$224,400	\$211,000	\$195,600	\$217,600	\$68,210	\$58,790	\$44,370	\$33,020	\$1,544,000
1959	\$15	\$595	\$615	\$615	\$2,480	\$615	\$123,300	\$75,150	\$7,610	\$87,000	\$176,400	\$164,200	\$19,200
1960	\$142,700	\$20,400	\$201,500	\$79,160	\$48,520	\$172,400	\$220,900	\$196,900	\$120,600	\$115,800	\$171,100	\$119,700	\$1,818,000

* Not previously published; estimated or partly estimated on basis of record of leakage and lockage.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Maximum daily		Minimum day	Mean	Per square mile	Acre-feet	Mean	Acre-feet
		Discharge	Date						
1950	-	-	-	-	-	-	-	\$91.4	\$66,180
1951	1204	-	-	-	10	-	\$7,240	\$598	\$432,700
1952	1234	4,500	Oct. 20, 1951	-	\$1,487	-	\$1,079,000	\$1,296	\$940,800
1953	1274	4,060	Nov. 6, 1952	-	\$1,629	-	\$1,179,000	\$2,175	\$1,574,000
1954	1334	4,770	Dec. 22, 1953	-	\$3,496	-	\$2,531,000	\$2,717	\$1,967,000
1955	1384	3,780	Oct. 17, 1954	-	\$693	-	\$501,700	\$529	\$383,300
1956	1434	860	Feb. 21, 1956	-	\$28.7	-	\$20,820	\$28.7	\$20,820
1957	1504	3,450	May 22, 1957	-	\$1,049	-	\$759,500	\$1,248	\$903,600
1958	1554	4,540	Feb. 27, 1958	-	\$1,856	-	\$1,344,000	\$1,657	\$1,200,000
1959	1624	4,100	July 7, 1959	-	\$1,131	-	\$19,200	\$1,923	\$1,392,000
1960	1704	4,390	Dec. 9, 1959	-	\$2,504	-	\$1,818,000	-	-

* Not previously published.

Note.--Record of total flow through lock 1 and leakage and lockage published herein supersede records of regulated discharge through lock 1 only, previously published in water-supply papers.

2935. Peace Creek drainage canal near 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, Polk County, and 1.4 miles downstream from Lake Hamilton Outlet.

Drainage area--50 sq mi, approximately.

Records available--October 1946 to September 1959. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1955, published as Drainage canal west of Dundee.

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 16, 1951, at site 150 ft downstream at same datum.

Average discharge--13 years (1946-59), 32.5 cfs.

Extremes--1946-59: Maximum discharge, 231 cfs Sept. 22, 1948 (gage height, 7.37 ft); no flow at times in some years.

Remarks--Slight regulation at low flow by Lake Hamilton control.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	52.9	45.7	34.6	24.7	19.9	10.4	28.8	18.3	10.7	24.8	40.5	56.4	30.7
1952	60.2	58.7	55.4	31.9	22.7	39.6	29.6	8.26	2.84	8.11	23.2	20.8	30.2
1953	53.3	49.7	30.4	25.6	28.3	22.8	17.4	11.8	13.0	12.4	36.2	100	33.3
1954	168	85.9	152	103	62.4	47.3	18.7	7.32	18.4	17.0	7.29	12.2	58.4
1955	10.7	6.37	3.85	3.15	3.13	1.35	1.54	.41	.72	1.28	.66	2.23	2.95
1956	.11	.17	.09	.12	0	0	0	.05	.18	1.63	.56	10.4	1.11
1957	7.44	1.42	.45	.84	1.74	2.77	8.25	17.7	5.94	18.4	26.2	47.8	11.6
1958	35.5	15.4	9.22	15.8	12.6	40.5	42.4	23.7	12.8	31.6	26.8	18.1	23.8
1959	7.32	13.7	3.83	22.2	15.4	52.3	84.2	60.4	116	159	119	107	63.6
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.22	1.02	0.80	0.57	0.42	0.24	0.64	0.42	0.24	0.57	0.93	1.26	8.33
1952	1.39	1.31	1.28	.74	.49	.91	.66	.19	.06	.19	.53	.46	8.21
1953	1.23	1.11	.70	.59	.59	.53	.39	.27	.29	.29	.83	2.24	9.06
1954	3.83	1.92	3.51	2.37	1.30	1.09	.42	.17	.41	.39	.17	.27	15.85
1955	.25	.14	.09	.07	.07	.03	.03	.009	.02	.03	.02	.05	.81
1956	.003	.004	.002	.003	.005	0	0	.001	.004	.04	.01	.23	.30
1957	.17	.03	.01	.02	.04	.08	.18	.41	.13	.42	.80	1.06	3.13
1958	.82	.34	.21	.37	.28	.93	.95	.55	.29	.73	.62	1.40	6.47
1959	.17	.31	.09	.51	.32	1.21	1.88	1.39	2.59	3.67	2.75	2.39	17.27
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	18.4	5.02
1951	1204	118	Oct. 18, or 19	5.2	30.7	0.614	8.33	34.1	9.27
1952	1234	104	Nov. 17, 1951	.4	30.2	.604	8.21	26.7	7.27
1953	1274	al35	Aug. 29, 1953	2.4	33.3	.666	9.06	56.3	15.28
1954	1923	222	Oct. 4, 1953	1.6	58.4	1.17	15.65	26.0	7.07
1955	1384	b24	Nov. 14, 1954	0	2.95	.059	.81	1.22	.34
1956	1434	33	Sept. 25, 1956	0	1.11	.022	.30	1.87	.50
1957	1504	102	May 15, 1957	.2	11.8	.232	3.13	15.9	4.29
1958	1554	98	Feb. 27, 1958	5.6	23.8	.476	6.47	20.8	5.67
1959	1824	215	June 22, 1959	1.1	63.6	1.27	17.27	-	-
1960	-	-	-	-	-	-	-	-	-

a Maximum peak discharge; maximum discharge, 202 cfs Sept 30, 1953, stage rising.

b Maximum peak discharge, maximum discharge, 27 cfs Oct. 1, 1954, stage falling.

2940. Peace Creek drainage canal near Alturas, Fla.

Location.--Lat 27°55'23", long 81°42'28" (revised), in NE $\frac{1}{4}$ 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, Polk County, and $\frac{8}{16}$ miles east of Bartow.

Drainage area.--150 sq mi, approximately.

Records available.--October 1946 to September 1960. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1955, published as Peace Creek Marsh Outlet near Alturas.

Gage.--Water-stage recorder. Datum of gage is 97.67 ft above mean sea level, datum of 1929 (State Road Department bench mark).

Average discharge.--14 years (1946-60), 129 cfs.

Extremes.--1947-60: Maximum discharge, 1,740 cfs Aug. 28, 29, 1949; maximum gage height, 12.60 ft Sept. 12, 1960; minimum discharge, 2.4 cfs Aug. 12, 1956; minimum gage height, 2.61 ft May 26-28, 1949.

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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	254	89.8	74.8	55.1	56.9	29.7	81.6	35.0	45.5	195	153	159	101
1952	119	106	81.8	49.4	49.0	151	66.2	20.3	20.1	46.2	110	65.0	72.2
1953	306	166	79.3	105	123	58.6	39.9	33.8	117	118	254	489	157
1954	559	259	388	211	107	84.6	51.0	50.6	63.7	100	50.0	35.8	164
1955	37.1	57.7	34.1	32.0	35.6	23.0	19.7	8.61	17.0	25.5	24.6	68.2	31.8
1956	20.3	9.61	12.3	13.2	8.22	10.6	7.95	12.9	8.78	12.1	13.6	26.7	13.0
1957	89.9	32.1	16.0	19.6	26.0	60.5	81.8	127	56.7	54.7	147	173	74.0
1958	87.0	30.3	30.8	127	113	193	132	62.7	36.0	118	63.3	63.8	88.0
1959	21.7	32.7	29.5	65.7	61.4	364	267	127	473	510	244	406	217
1960	365	161	74.1	53.9	103	439	299	88.5	74.6	294	555	871	282

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.95	0.67	0.57	0.42	0.40	0.23	0.61	0.27	0.34	1.48	1.02	1.18	9.14
1952	.92	.79	.63	.38	.35	1.00	.49	.16	.15	.35	.85	.48	6.55
1953	2.35	1.25	.61	.80	.86	.45	.30	.26	.87	.91	1.96	3.64	14.24
1954	4.29	1.92	2.98	1.62	.74	.65	.39	.59	.47	.77	.38	.27	14.86
1955	.29	.43	.26	.25	.25	.18	.15	.07	.13	.20	.19	.51	2.91
1956	.16	.07	.09	.10	.06	.08	.06	.10	.07	.09	.10	.20	1.18
1957	.69	.24	.12	.15	.18	.46	.61	.98	.42	.42	1.13	1.29	6.69
1958	.67	.23	.24	.97	.79	1.48	.98	.48	.27	.90	.49	1.47	7.97
1959	.17	.24	.23	.51	.43	2.80	1.99	.98	3.51	3.92	1.87	3.02	19.67
1960	2.80	1.20	.57	.41	.74	3.38	2.22	.68	.55	2.26	4.26	6.48	25.55

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	56.4	5.09
1951	1204	975	Oct. 19, 1950	10	101	0.673	9.14	91.5	8.29
1952	1234	446	Mar. 27, 1952	14	72.2	.481	6.55	92.8	8.40
1953	1274	1,090	Oct. 21, 1952	13	157	1.05	14.24	215	19.24
1954	1334	1,020	Oct. 10, 1953	14	164	1.09	14.86	73.5	8.65
1955	1384	240	Nov. 14, 1954	5.6	31.8	.212	2.91	24.6	2.25
1956	1434	145	Sept. 1, 1956	3.0	13.0	.087	1.18	21.1	1.91
1957	1504	339	Aug. 25, 1957	12	74.0	.493	6.69	74.9	6.78
1958	1554	434	Jan. 24, 1958	13	88.0	.587	7.97	82.6	7.47
1959	1624	1,280	June 20, 1959	13	217	1.45	19.67	261	23.60
1960	1704	1,620	Sept. 12, 1960	37	282	1.88	25.55	-	-

2945. Lake Lulu Outlet at Eloise, Fla.

Location.--Lat 27°59'03", long 81°43'47", 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, 2,200 ft downstream from concrete control at outlet of Lake Lulu and 0.9 mile southeast of Eloise, Polk County.

Drainage area.--26 sq mi, approximately.

Records available.--February 1946 to September 1960. Prior to October 1955, published as Lulu Lake Outlet at Eloise.

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.--1946-60: Maximum discharge, 218 cfs June 21, 1959; maximum gage height, 11.18 ft, at former site, Aug. 25, 1948, from floodmarks; no flow several days in March, April 1951, and August, September 1956.

Remarks.--Records include small amount of waste water diverted by Polk Packing Co., from ground-water supplies during packing season. Some regulation by Lake Lulu.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4.98	5.02	2.32	0.89	1.15	0.48	1.42	1.01	3.85	6.93	13.3	27.6	5.57
1952	20.5	5.29	2.53	1.31	1.38	3.99	7.21	2.60	4.19	1.70	2.81	2.65	4.69
1953	6.25	3.36	.80	1.53	1.59	1.15	1.17	.71	2.04	1.99	7.28	59.9	5.61
1954	54.8	29.5	60.6	16.2	12.6	5.37	4.74	4.53	5.58	6.29	4.66	3.18	17.4
1955	2.66	5.01	3.12	3.26	2.53	2.53	2.39	1.40	.72	.77	.25	.59	1.93
1956	1.05	1.80	1.85	1.43	1.27	.92	1.05	1.24	1.37	.70	.36	.42	1.12
1957	2.02	1.17	1.44	2.70	2.64	2.87	2.11	4.64	3.70	3.64	44.0	52.0	10.3
1958	19.2	5.31	5.09	16.1	18.1	34.5	28.5	7.73	2.38	2.02	9.01	5.87	12.8
1959	1.35	3.37	3.21	5.15	5.51	46.9	57.0	21.8	78.4	85.1	42.7	48.4	33.3
1960	66.8	29.9	6.37	6.36	10.0	80.2	55.0	12.4	9.66	22.5	36.0	122	38.0

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean
		Discharge	Date					Runoff in inches
1950	-	-	-	-	-	-	-	2.68
1951	1204	35	Sept. 20, 1950	0	5.57	-	-	7.09
1952	1234	a15	Aug. 27, 1952	.6	4.69	-	-	3.18
1953	1274	b26	Oct. 28, 1952	.3	5.61	-	-	16.9
1954	1334	178	Dec. 14, 1953	2.3	17.4	-	-	5.96
1955	1384	6.5	Apr. 14, 1955	.1	1.93	-	-	1.59
1956	1434	9.0	Sept. 18, 1956	0	1.12	-	-	1.12
1957	1504	90	Sept. 10, 1957	.3	10.3	-	-	12.4
1958	1554	66	Feb. 26, 1958	.3	12.8	-	-	11.0
1959	1624	218	June 21, 1959	.3	33.3	-	-	41.3
1960	1704	215	Sept. 11, 1960	3.7	38.0	-	-	-

a Maximum independent peak discharge; maximum discharge during year, 34 cfs Oct. 1, 2, 1951, on recession following peak of Sept. 29, 30, 1951.

b Maximum independent peak discharge; maximum discharge during year, 66 cfs Sept. 30, 1953, occurred on peak preceding higher peak of Oct. 10, 1953.

PEACE RIVER BASIN

2950. Peace River at Bartow, Fla.

Location.--Lat 27°54'07", long 81°49'03", in NE¼ 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, Polk County.

Drainage area.--390 sq mi, approximately.

Records available.--October 1939 to September 1960. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1951, published as Peace Creek at Bartow.

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.--21 years (1939-60), 330 cfs.

Extremes.--1939-60: Maximum discharge, 4,140 cfs Sept. 24, 1947, from rating curve extended above 2,900 cfs; maximum gage height, 8.01 ft Sept. 13, 14, 1960; minimum discharge, 1.4 cfs June 2, 1945 (gage height, 0.05 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	586	205	188	164	189	114	356	180	98.9	582	711	586	332
1952	354	227	220	151	120	322	279	78.0	71.9	104	432	288	219
1953	702	513	239	284	327	140	83.4	62.4	253	252	618	1,477	412
1954	1,411	597	1,114	641	319	195	138	162	254	335	230	114	462
1955	137	123	115	115	165	73.6	84.8	42.3	57.8	105	183	294	124
1956	104	59.8	59.4	69.5	78.8	45.4	36.9	78.4	67.5	118	156	231	92.0
1957	319	219	116	123	151	265	321	649	497	367	690	950	390
1958	591	190	180	453	476	634	516	283	132	295	243	259	352
1959	83.6	158	94.7	225	269	1,179	1,107	537	1,319	1,368	793	1,168	692
1960	970	486	263	240	422	1,396	860	266	310	762	1,528	2,261	814

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.73	0.59	0.56	0.49	0.51	0.34	1.02	0.53	0.28	1.72	2.10	1.68	11.55
1952	1.05	.65	.65	.39	.33	.95	.80	.23	.21	.31	1.28	.92	7.67
1953	2.08	1.47	.71	.84	.87	.41	.24	.18	.72	.75	1.83	4.22	14.32
1954	4.17	1.71	3.29	1.89	.85	.58	.39	.48	.73	.99	.68	.32	16.08
1955	.40	.35	.34	.34	.44	.22	.24	.13	.17	.31	.54	.84	4.32
1956	.31	.17	.18	.21	.22	.13	.11	.23	.19	.35	.46	.66	3.22
1957	.94	.63	.34	.36	.40	.78	.92	1.92	1.42	1.09	2.01	2.74	13.55
1958	1.75	.84	.47	1.34	1.27	1.87	1.48	.84	.38	.87	.72	.74	12.27
1959	.25	.45	.28	.67	.72	3.48	3.17	1.59	3.77	4.04	2.34	3.34	24.10
1960	2.87	1.39	.78	.71	1.17	4.13	2.46	.79	.89	2.25	4.52	6.47	28.43

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	152	5.28
1951	1204	1,590	Oct. 20, 1950	39	332	0.851	11.55	316	11.02
1952	1234	764	Mar. 29, 1952	56	219	.562	7.67	274	9.58
1953	1274	al, 730	Sept. 22, 1953	44	412	1.06	14.32	553	19.23
1954	1334	2,030	Oct. 11, 1953	56	462	1.18	16.08	230	8.00
1955	1384	389	Sept. 11, 1955	29	124	.318	4.32	111	3.89
1956	1434	290	Sept. 4, 1956	28	92.0	.236	3.22	128	4.47
1957	1504	1,260	Sept. 18, 1957	84	390	1.00	13.55	414	14.40
1958	1554	992	Oct. 3, 1957	62	352	.903	12.27	301	10.49
1959	1624	3,410	June 22, 1959	54	692	1.77	24.10	809	28.16
1960	1704	3,470	Sept. 13, 14, 1960	161	814	2.09	28.43	-	-

a Maximum peak discharge; maximum discharge during year, 1,760 cfs Sept. 30, 1953, stage rising.

2960. Peace River at Zolfo Springs, Fla.

Location.--Lat 27°30'15", long 81°48'04", in S $\frac{1}{2}$ sec.22, T.34 S., R.25 E., near right bank on downstream side of bridge on U.S. Highway 17, 0.8 mile north of Zolfo Springs, Hardee County.

Drainage area.--840 sq mi, approximately.

Records available.--September 1933 to September 1960. Prior to October 1950, published as Peace Creek at Zolfo Springs.

Gage.--Water-stage recorder. Datum of gage is 35.20 ft above mean sea level, datum of 1929.

Average discharge.--27 years (1933-60), 799 cfs.

Extremes.--1933-60: Maximum discharge, 26,300 cfs Sept. 6, 1933 (gage height, 20.05 ft); minimum, 40 cfs Apr. 24, 26, 1956, minimum gage height, -0.62 ft June 11, 1955.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,214	428	427	331	374	234	814	320	203	975	1,103	1,013	622
1952	967	428	392	294	349	624	463	226	216	264	579	565	448
1953	2,508	1,076	468	706	937	444	512	179	1,159	855	2,411	3,775	1,251
1954	3,016	1,536	1,876	1,194	624	430	334	430	1,684	1,558	691	833	1,189
1955	507	420	350	359	382	238	225	121	193	374	474	1,175	401
1956	273	200	179	185	198	112	89.2	261	134	236	621	896	282
1957	775	319	196	268	356	855	898	2,035	849	590	1,247	1,732	845
1958	1,351	305	342	1,549	916	1,752	1,495	692	275	801	405	454	846
1959	197	282	362	574	452	2,487	1,589	712	2,694	3,218	1,937	3,855	1,533
1960	1,590	806	463	402	888	2,069	1,307	436	479	1,688	3,623	5,513	1,605

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.67	0.57	0.59	0.45	0.46	0.32	1.08	0.44	0.27	1.34	1.51	1.35	10.05
1952	1.33	.57	.54	.40	.45	.86	.61	.31	.29	.56	.79	.75	7.26
1953	5.44	1.43	.84	.97	1.16	.61	.68	.25	1.54	1.17	3.51	5.01	20.21
1954	4.14	2.04	2.57	1.64	.77	.59	.44	.59	2.24	2.14	.95	1.11	19.22
1955	.70	.56	.48	.49	.47	.33	.30	.17	.26	.51	.65	1.56	6.48
1956	.37	.27	.25	.25	.25	.15	.12	.36	.18	.32	.85	1.19	4.56
1957	1.06	.42	.27	.37	.44	1.17	1.18	2.79	1.13	.81	1.71	2.30	13.65
1958	1.85	.41	.47	2.13	1.14	2.40	1.99	.95	.36	.82	.56	.60	13.68
1959	.27	.38	.50	.79	.56	3.41	2.11	.98	3.58	4.42	2.66	5.12	24.78
1960	2.18	1.07	.64	.55	1.14	2.84	1.74	.60	.64	2.32	4.97	7.32	26.01

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	378	6.13
1951	1204	3,370	Oct. 20, 1950	108	622	0.740	10.05	598	9.66
1952	1234	3,150	Oct. 4, 1951	121	448	.533	7.26	638	10.33
1953	1274	9,300	Aug. 30, 1953	119	1,251	1.49	20.21	1,451	23.45
1954	1354	a6,140	Oct. 11, 1953	208	1,189	1.42	19.22	755	12.21
1955	1384	2,610	Sept. 10, 1955	51	401	.477	6.48	348	5.63
1956	1434	2,110	Aug. 24, 1956	43	282	.336	4.56	335	5.42
1957	1504	5,470	May 14, 1957	141	845	1.01	13.65	905	14.63
1958	1554	5,040	June 26, 1958	118	846	1.01	13.68	748	12.10
1959	1624	9,540	Sept. 18, 1959	102	1,533	1.82	24.78	1,703	27.52
1960	1704	17,000	Sept. 12, 1960	245	1,605	1.91	26.01	-	-

a Maximum peak discharge; maximum discharge, 6,240 cfs Oct. 1, 1953, stage falling.

2962. Little Charley Bowlegs Creek near Sebring, Fla.

Location.--Lat 27°28'40", long 81°33'25", in NW $\frac{1}{4}$ sec.31, T.34 S., R.28 E., on right bank 160 ft downstream from concrete control, 900 ft north of county road in Highlands Hammock State Park, 0.8 mile upstream from unnamed creek, and $\frac{7}{8}$ miles southwest of Sebring, Highlands County.

Drainage area.--32.4 sq mi.

Records available.--January 1952 to September 1960.

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 at same datum.

Average discharge.--8 years (1952-60), 51.3 cfs.

Extremes.--1952-60: Maximum discharge, 874 cfs Sept. 27, 1960 (gage height, 17.61 ft); no flow for many days.

Remarks.--Flow regulated by manipulation of stoplogs and culvert gates in dam upstream from station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	19.6	28.8	5.60	6.10	2.88	38.7	60.1	34.3	-
1953	61.7	13.7	4.14	10.9	14.7	11.1	21.9	1.60	67.1	57.9	99.1	376	61.4
1954	286	97.1	58.8	25.7	5.18	8.55	30.9	1.12	140	76.5	80.5	126	78.4
1955	59.4	11.9	13.6	13.4	13.2	1.57	4.21	.14	0	10.0	13.4	129	22.4
1956	11.3	.96	.17	.17	.16	.17	.03	.61	6.52	14.5	10.0	56.2	8.36
1957	110	9.93	.44	1.69	3.87	32.1	31.0	17.4	23.4	56.6	46.3	93.9	35.8
1958	129	10.3	16.1	105	57.6	79.4	46.2	4.29	8.70	24.7	19.9	21.1	43.7
1959	5.31	4.56	3.19	10.6	10.6	82.5	15.0	5.70	120	194	115	129	53.2
1960	256	57.4	15.3	10.9	46.5	55.4	29.0	24.1	24.0	78.9	261	368	102

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	0.65	1.03	0.19	0.22	0.10	1.38	2.14	1.18	-
1953	2.20	0.47	0.15	0.39	.47	.40	.76	.06	2.31	2.06	3.53	12.96	25.76
1954	10.17	3.34	2.09	.91	.17	.30	1.06	.04	4.84	2.72	2.86	4.34	32.84
1955	2.11	.41	.48	.48	.42	.06	.15	.005	0	.36	.48	4.44	9.40
1956	.40	.03	.006	.006	.005	.006	.0009	.02	.22	.52	.36	1.93	3.50
1957	3.92	.34	.02	.06	.12	1.14	1.07	.82	.81	2.01	1.65	3.23	14.99
1958	4.61	.36	.57	3.75	1.85	2.82	1.59	.15	.30	.88	.71	.73	18.32
1959	.19	.16	.11	.38	.34	2.94	.52	.20	4.12	6.91	4.09	4.43	24.39
1960	9.10	1.98	.54	.39	1.55	1.97	1.00	.86	.82	2.81	9.28	12.66	42.96

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1274	a364	Mar. 27, 1952	-	-	-	-	-	-
1953	1274	604	Sept. 8, 1953	0	61.4	1.90	25.76	91.9	38.54
1954	1354	682	Oct. 10, 1953	0	78.4	2.42	32.84	48.4	20.24
1955	1384	b256	Sept. 10, 1955	0	22.4	.691	9.40	16.3	6.83
1956	1434	146	Sept. 5, 1956	0	8.36	.258	3.50	17.5	7.35
1957	1504	c267	Oct. 17, 1956	.3	35.8	1.10	14.99	38.8	16.25
1958	1554	336	Oct. 4, 1957	0	43.7	1.35	18.32	31.6	13.24
1959	1624	431	June 18, 1959	.1	58.2	1.80	24.39	84.8	35.55
1960	1704	874	Sept. 27, 1960	.1	102	3.15	42.96	-	-

a Maximum during period January to September.

b Maximum peak discharge; maximum discharge during year, 264 cfs Oct. 1, 1954, stage falling.

c Maximum independent peak discharge; maximum discharge during year, 292 cfs Sept. 30, 1957, occurred on peak preceding higher peak of Oct. 4, 1957.

2965. Charlie Creek near Gardner, Fla.

Location.--Lat 27°22'29", long 81°47'48", in SE $\frac{1}{4}$ sec. 3, T.36 S., R.25 E., near left bank on downstream side of pier of bridge on U.S. Highway 17, 1.6 miles north of Gardner, Hardee County, and 4.5 miles (revised) upstream from mouth.

Drainage area.--330 sq mi, approximately.

Records available.--April 1950 to September 1960. Prior to October 1957, published as Charlie Apopka Creek near Gardner.

Gage.--Water-stage recorder. Datum of gage is 21.66 ft above mean sea level, datum of 1929.

Average discharge.--10 years (1950-60), 382 cfs.

Extremes.--1950-60: Maximum discharge, 8,160 cfs Aug. 1, 1960 (gage height, 18.77 ft); minimum, 0.3 cfs Aug. 6-8, 1950; minimum gage height, 2.38 ft Apr. 3, 1956.
Flood in 1928 reached a stage of 24.2 ft, from information by local resident.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	633	68.8	16.8	11.9	29.6	6.16	625	51.7	5.96	359	754	405	249
1952	574	200	83.1	24.8	93.4	172	112	19.1	65.3	312	213	290	180
1953	1,399	266	73.6	172	170	154	398	27.2	546	636	1,268	2,710	652
1954	2,117	675	562	191	46.9	60.5	141	187	1,469	1,208	621	832	680
1955	512	77.4	73.1	68.5	96.1	18.7	16.4	4.86	17.4	108	73.2	654	143
1956	81.5	11.4	6.03	4.81	4.09	2.10	1.65	27.4	9.40	51.0	72.9	665	77.5
1957	751	84.3	11.9	12.8	25.8	290	380	562	199	438	636	749	347
1958	676	33.0	31.8	762	373	807	468	202	91.4	334	135	203	344
1959	52.2	40.4	31.5	66.0	55.2	637	130	56.8	1,177	1,049	877	1,693	506
1960	947	319	71.6	50.8	356	539	149	98.2	149	505	2,028	2,496	643

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2.21	0.23	0.06	0.04	0.09	0.02	2.11	0.18	0.02	1.25	2.63	1.37	10.21
1952	2.01	.68	.29	.09	.31	.60	.38	.07	.22	1.09	.74	.98	7.46
1953	4.89	.90	.26	.60	.53	.54	1.35	.10	1.85	2.22	4.43	9.16	26.83
1954	7.40	2.28	1.96	.67	.15	.21	.48	.65	4.97	4.22	2.17	2.81	27.97
1955	1.79	.26	.26	.24	.30	.07	.06	.02	.06	.38	.26	2.21	5.91
1956	.28	.04	.02	.02	.01	.007	.006	.10	.03	.18	.25	2.25	3.19
1957	2.62	.28	.04	.04	.08	1.01	1.29	1.96	.67	1.53	2.22	2.53	14.29
1958	2.36	.11	.11	2.66	1.18	2.82	1.58	.71	.31	1.17	.47	.69	14.17
1959	.18	.14	.11	.23	.17	2.93	.44	.20	3.98	3.67	3.06	5.72	20.83
1960	3.31	1.08	.25	.18	1.16	1.88	.51	.34	.51	1.76	7.09	8.44	26.51

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	1,680	Apr. 13, 20, 1951	3.5	249	0.755	10.21	260	10.69
1952	1234	2,190	Oct. 3, 1951	3.5	180	1.545	7.46	265	10.53
1953	1274	4,980	Sept. 28, 1953	4.5	652	1.96	26.83	788	32.42
1954	1334	6,640	Oct. 10, 1953	13	680	2.06	27.97	453	18.64
1955	1384	2,540	Sept. 9, 1955	2.7	143	.433	5.91	95.5	3.94
1956	1434	1,800	Sept. 2, 1956	.9	77.5	.235	3.19	141	5.80
1957	1504	1,670	Oct. 22, 1956	7.7	347	1.05	14.29	339	13.91
1958	1554	1,980	Jan. 28, 1958	13	344	1.04	14.17	292	12.02
1959	1624	3,480	June 21, 1959	13	506	1.53	20.83	609	25.04
1960	1704	8,160	Aug. 1, 1960	14	643	1.95	26.51	-	-

2970. Peace River at Arcadia, Fla.

Location (revised).--Lat 27°13'19", long 81°52'34", in SE¹/₄ sec.26, T.37 S., R.24 E., on left bank 75 ft upstream from bridge on State Highway 70, 1.0 mile west of post office in Arcadia, De Soto County, and 6.1 miles upstream from Joshua Creek.

Drainage area.--1,370 sq mi, approximately.

Records available.--April 1931 to September 1960. Prior to October 1951, published as Peace Creek at Arcadia.

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.--29 years (1931-60), 1,326 cfs.

Extremes.--1931-60: 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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,113	558	453	358	409	225	1,799	432	183	1,582	2,242	1,605	999
1952	2,202	716	509	322	492	822	624	253	304	1,756	946	1,114	757
1953	4,821	1,692	673	1,018	1,300	670	1,062	211	2,600	2,018	3,976	7,589	2,301
1954	6,954	2,121	3,105	1,583	766	584	559	756	3,454	3,045	1,492	1,976	2,213
1955	1,364	590	503	468	549	251	240	133	213	623	942	2,703	714
1956	428	207	194	199	210	125	80.7	269	139	259	718	1,889	392
1957	1,824	457	222	286	386	1,400	1,429	2,597	1,428	1,637	2,498	3,210	1,455
1958	2,615	396	447	2,642	1,519	3,226	2,449	1,195	466	1,210	765	797	1,482
1959	341	420	456	748	598	3,787	1,881	779	4,374	5,149	3,624	6,353	2,381
1960	2,835	1,206	586	471	1,486	2,755	1,756	609	696	2,220	7,439	8,792	2,571

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.78	0.45	0.38	0.30	0.31	0.19	1.45	0.36	0.15	1.33	1.89	1.31	9.90
1952	1.85	.58	.43	.27	.39	.69	.51	.21	.23	.84	.80	.91	7.53
1953	4.06	1.38	.57	.86	.99	.56	.87	.18	2.12	1.70	3.35	6.18	22.82
1954	5.85	1.73	2.61	1.33	.58	.49	.46	.64	2.81	2.56	1.26	1.61	21.93
1955	1.15	.48	.42	.39	.42	.21	.20	.11	.17	.52	.79	2.20	7.06
1956	.36	.17	.16	.17	.17	.11	.07	.23	.11	.22	.60	1.54	3.91
1957	1.54	.37	.19	.24	.29	1.18	1.16	2.19	1.16	1.38	2.10	2.61	14.41
1958	2.20	.32	.38	2.22	1.15	2.72	1.99	1.01	.38	1.02	.64	.65	14.68
1959	.29	.34	.38	.63	.45	3.19	1.53	.66	3.56	4.33	3.05	5.17	23.58
1960	2.39	.98	.49	.40	1.17	2.32	1.43	.51	.57	1.87	6.26	7.16	25.55

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	536	5.31
1951	1204	5,210	Oct. 22, 1950	114	999	0.729	9.90	1,025	10.15
1952	1234	8,620	Oct. 3, 1951	171	757	.553	7.53	1,073	10.68
1953	1274	12,100	Oct. 25, 1952	129	2,301	1.68	22.82	2,724	27.00
1954	1334	11,700	Oct. 1, 1953	344	2,213	1.62	21.93	1,392	13.79
1955	1384	a5,150	Sept.10, 1955	101	714	.521	7.06	577	5.70
1956	1434	3,750	Sept. 4, 1956	43	392	.286	3.91	533	5.32
1957	1504	5,860	May 20, 1957	170	1,455	1.06	14.41	1,536	15.21
1958	1554	6,460	Oct. 6, 1957	210	1,482	1.08	14.68	1,292	12.79
1959	1624	11,900	Sept.21, 1959	180	2,361	1.74	23.58	2,668	26.43
1960	1704	21,000	Sept.15, 1960	292	2,571	1.88	25.55	-	-

a Maximum peak discharge; maximum discharge during year, 5,460 cfs Oct. 1, 1954, stage falling.

2975. Joshua Creek at Nocatee, Fla.

Location.--Lat 27°09'59", long 81°52'47", in SE $\frac{1}{4}$ 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, De Soto County, and 2.2 miles (revised) upstream from mouth.

Drainage area.--115 sq mi, approximately.

Records available.--April 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 3.94 ft above mean sea level, datum of 1929.

Average discharge.--10 years (1950-60), 138 cfs.

Extremes.--1950-60: Maximum discharge, 8,670 cfs Oct. 10, 1953 (gage height, 18.80 ft); no flow Nov. 18-20, 22-24, 1953, May 3-12, 14, 15, 1959.

Flood in September 1948 reached a stage of 17.7 ft, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	103	8.06	7.01	4.25	7.33	2.01	38.7	4.01	3.08	383	381	84.5	86.7
1952	580	105	12.5	7.06	25.9	81.2	16.7	1.54	1.26		39.5	72.0	82.6
1953	857	39.7	9.06	14.5	20.2	6.65	11.8	.70	419	472	256	654	231
1954	1,067	102	123	12.5	7.69	8.90	7.19	4.46	202	368	98.6	274	192
1955	76.8	14.2	14.8	10.7	12.7	4.61	2.74	1.62	5.25	15.5	30.4	244	36.0
1956	17.6	3.86	1.78	1.95	2.99	.92	.60	1.19	.52	2.16	7.16	211	20.7
1957	56.9	7.31	4.07	7.15	7.71	48.8	63.1	202	69.2	259	379	742	154
1958	320	8.97	16.1	283	52.2	305	115	250	181	280	145	280	188
1959	129	25.2	18.6	34.9	24.0	311	66.4	93.5	619	140	424	597	207
1960	259	36.7	19.0	10.9	58.9	230	64.8	27.5	35.7	263	376	830	184

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.03	0.08	0.07	0.04	0.07	0.02	0.38	0.04	0.03	3.84	3.82	0.82	10.24
1952	5.81	1.02	.13	.07	.24	.61	.16	.02	.01	.41	.40	.70	9.78
1953	8.59	.38	.09	.15	.18	.07	.11	.007	4.07	4.73	2.57	6.34	27.29
1954	10.70	.99	1.23	.13	.07	.09	.07	.04	1.96	3.69	.99	2.66	22.62
1955	.77	.14	.15	.11	.11	.05	.03	.02	.05	.16	.30	2.36	4.25
1956	.18	.04	.02	.02	.03	.009	.006	.01	.005	.02	.07	2.05	2.46
1957	.57	.07	.04	.07	.07	.49	.61	2.02	.67	2.60	3.80	7.20	18.21
1958	3.21	.09	.16	2.83	.47	3.05	1.11	2.51	1.76	2.80	1.46	2.72	22.17
1959	1.29	.24	.19	.35	.22	3.11	.64	.94	6.01	1.40	4.25	5.79	24.43
1960	2.60	.36	.19	.11	.55	2.30	.63	.28	.35	2.64	3.77	8.06	21.84

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	2,030	July 25, 1951	0.5	86.7	0.754	10.24	136	16.02
1952	1234, 1334	6,860	Oct. 2, 1951	.6	82.6	.718	9.78	100	11.88
1953	1274	4,040	Oct. 21, 1952	.5	251	2.01	27.29	264	31.15
1954	1334	8,670	Oct. 10, 1953	0	192	1.67	22.62	91.1	10.76
1955	1384	1,240	Sept. 24, 1955	.4	36.0	.313	4.25	29.0	3.43
1956	1434	648	Sept. 10, 1956	.1	20.7	.180	2.46	24.5	2.90
1957	1504	2,710	Sept. 6, 1957	2.8	154	1.34	18.21	178	20.99
1958	1554	2,160	Jan. 25, 1958	6.9	188	1.63	22.17	173	20.43
1959	1624	4,100	June 19, 1959	0	207	1.80	24.43	219	25.86
1960	1704	4,160	Sept. 11, 1960	2.7	184	1.60	21.84	-	-

2980. Horse Creek near Arcadia, Fla.

Location.--Lat 27°11'57", long 81°59'19", in NW¼ sec.2, T.38 S., R.23 E., near center of span on downstream side of bridge on State Highway 72, 7.9 miles west of Arcadia, De Soto County, and 10.4 miles (revised) upstream from mouth.

Drainage area.--205 sq mi, approximately.

Records available.--April 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 10.96 ft above mean sea level, datum of 1929 (State Road Department bench mark).

Average discharge.--10 years (1950-60), 261 cfs.

Extremes.--1950-60: Maximum discharge, 11,700 cfs Aug. 1, 1960 (gage height, 17.94 ft); no flow June 7-9, 15, 25-30, July 2, Aug. 7, 1956, Feb. 16-18, 1957; minimum gage height, 1.83 ft June 16-18, 1951.
Maximum stage known since at least 1948, that of Aug. 1, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	169	29.1	23.7	13.8	28.7	6.10	183	16.0	1.48	463	319	92.7	113
1952	640	41.0	17.9	11.0	54.9	96.2	40.6	2.53	5.20	57.6	272	234	122
1953	1,335	297	80.6	163	238	23.7	72.7	4.65	706	387	905	1,427	470
1954	1,026	431	348	183	44.8	45.2	98.9	155	199	471	282	345	303
1955	199	63.9	65.9	41.4	73.6	16.4	15.9	2.07	2.78	10.0	315	701	125
1956	70.9	5.11	4.22	3.78	12.4	3.20	.63	3.34	.18	2.29	66.0	292	38.4
1957	247	17.0	2.25	4.62	11.8	200	94.1	338	148	358	612	650	225
1958	639	20.4	66.4	682	334	789	330	137	45.9	346	187	42.4	303
1959	32.8	89.7	61.7	96.5	54.4	712	133	22.0	691	820	1,138	1,616	457
1960	495	87.5	40.5	28.3	181	304	103	54.0	41.4	855	1,571	1,696	454

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.95	0.16	0.13	0.08	0.15	0.03	1.00	0.09	0.008	2.60	1.79	0.50	7.49
1952	3.60	.22	.10	.06	.29	.54	.22	.01	.03	.32	1.53	1.16	6.08
1953	7.51	1.62	.45	.92	1.21	.13	.40	.03	3.84	2.18	5.09	7.77	31.15
1954	5.77	2.34	1.96	1.03	.23	.25	.54	.87	1.09	2.65	1.47	1.88	20.08
1955	1.12	.35	.37	.23	.37	.09	.09	.01	.02	.06	1.77	3.82	8.30
1956	.40	.03	.02	.02	.07	.02	.003	.02	.001	.01	.37	1.59	2.55
1957	1.39	.09	.01	.03	.06	1.12	.51	1.90	.81	2.01	3.44	3.54	14.91
1958	3.59	.11	.37	3.83	1.70	4.44	1.79	.77	.24	1.95	1.05	.23	20.07
1959	.18	.49	.35	.54	.28	4.00	.72	.12	3.76	4.61	6.40	8.80	30.25
1960	2.79	.48	.23	.16	.95	1.71	.56	.19	.23	4.81	8.84	9.23	30.18

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	2,120	July 25, 1951	1.0	113	0.551	7.49	154	10.17
1952	1234	6,680	Oct. 2, 1951	.9	122	.595	8.08	207	13.74
1953	1274	4,780	Oct. 22, 1952	1.1	470	2.29	31.15	478	31.64
1954	1334	4,960	Oct. 10, 1953	10	303	1.48	20.08	179	11.65
1955	1384	1,870	Sept. 2, 1955	.3	125	.610	8.30	104	6.91
1956	1434	442	Sept. 13, 1956	0	38.4	.187	2.55	54.2	3.59
1957	1504	1,910	Aug. 9, 1957	0	225	1.10	14.91	264	17.49
1958	1554	2,540	Oct. 4, 1957	13	303	1.48	20.07	257	17.02
1959	1624	3,870	June 12, 1959	2.1	457	2.23	30.25	494	32.73
1960	1704	11,700	Aug. 1, 1960	1.4	454	2.21	30.18	-	-

2985. Myakka River below Upper Myakka Lake, near Sarasota, Fla.
(Formerly published as Miakka River below Upper Miakka Lake, near Sarasota)

Location.--27°15'50", long 82°17'15", in sec.14, T.37 S., R.20 E., in boat basin on south shore of Upper Myakka Lake, 0.3 mile southeast of lake outlet, and 15 miles southeast of Sarasota, Sarasota County.

Drainage area.--220 sq mi, approximately.

Records available.--January 1946 to June 1951. Published as Miakka River below upper Miakka Lake, near Sarasota.

Gage.--Water-stage recorder and concrete control. Datum of gage is at mean sea level, datum of 1929 (R.M. Angas, civil engineer, bench mark). Prior to June 6, 1946, staff gage at same site and datum.

Extremes.--1946-51: Maximum discharge, 5,880 cfs Sept. 20, 1947 (gage height, 19.32 ft); no flow for many days each year.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	65.2	19.1	26.1	17.6	23.1	1.94	102	15.9	0.35	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.34	0.10	0.14	0.09	0.11	0.01	0.52	0.08	0.002	-	-	-	-

Note.--Figures given herein not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	93.5	#5.78
1951	1204	a248	Apr. 12, 1951	0	-	-	-	-	-

* Not previously published.

a Maximum during period October to June.

2990. Myakka River near Sarasota, Fla.
(Formerly published as Miakka River near Sarasota)

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 Myakka Lake, and 14 miles southeast of Sarasota, Sarasota County.

Drainage area.--235 sq mi, approximately.

Records available.--August 1936 to September 1960. Prior to October 1957, published as Miakka River near Sarasota.

Gage.--Staff gage. Datum of gage is 7.92 ft above mean sea level, datum of 1929 (National Park Service bench mark). Prior to Apr. 10, 1941, staff gage half a mile downstream at same datum.

Average discharge.--24 years (1936-60), 276 cfs.

Extremes.--1936-60: Maximum discharge, 8,670 cfs Aug. 1, 1960 (gage height, 11.58 ft); no flow for many days in some years.

Remarks.--Records include flow through Vanderipe Slough at high stages.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	80.8	29.3	25.6	17.9	23.1	3.48	83.5	21.9	0.29	385	332	162	98.0
1952	831	41.4	15.3	7.64	19.0	42.7	49.9	.11	.01	7.78	231	127	116
1953	1,143	298	93.2	189	250	57.7	30.7	10.1	134	345	778	1,347	390
1954	1,144	214	343	234	49.5	34.9	30.0	60.2	141	366	560	522	294
1955	417	60.9	83.5	40.8	129	53.5	37.9	.003	0	5.21	315	780	160
1956	123	13.0	3.00	4.52	14.5	.68	0	3.77	2.40	7.30	121	590	73.1
1957	484	31.9	3.97	.15	6.69	212	123	172	218	321	1,000	989	299
1958	867	48.6	37.5	447	367	1,013	470	120	10.7	324	201	52.7	332
1959	51.2	257	206	262	104	822	164	78.7	458	830	1,744	1,935	579
1960	676	218	66.6	43.3	197	306	103	27.1	39.3	679	1,944	2,247	546

MYAKKA RIVER BASIN

Monthly and yearly runoff, in inches, of Myakka River near Sarasota, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.40	0.14	0.13	0.09	0.10	0.02	0.40	0.11	0.001	1.89	1.63	0.77	5.68
1952	4.07	.20	.08	.04	.09	.21	.24	.0005	.00003	.04	1.13	.61	6.71
1953	5.61	1.42	.46	.93	1.11	.28	.15	.05	.64	1.69	3.82	6.39	22.55
1954	5.61	1.01	1.68	1.15	.22	.17	.14	.30	.67	1.80	1.77	2.48	17.00
1955	2.05	.29	.41	.20	.57	.26	.18	.00002	0	.03	1.54	3.70	9.23
1956	.61	.06	.01	.02	.07	.003	0	.02	.01	.04	.59	2.80	4.23
1957	2.37	.15	.02	.0008	.03	1.04	.59	.85	1.04	1.57	4.91	4.70	17.27
1958	4.26	.23	.18	2.19	1.62	4.97	2.23	.59	.05	1.59	.99	.25	19.15
1959	.25	1.22	1.01	1.28	.46	4.03	.78	.39	2.18	4.07	8.56	9.19	33.42
1960	3.32	1.03	.33	.21	.91	1.50	.49	.13	.19	3.33	9.54	10.67	31.65

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	119	6.88
1951	1204	1,360	July 26, 1951	0	98.0	0.417	5.68	162	9.36
1952	1234	3,440	Oct. 4, 1951	0	116	.494	6.71	170	9.85
1953	1274	3,630	Oct. 23, 24, 1952	0	390	1.66	22.55	404	23.36
1954	1334	a2,520	Oct. 12, 1953	4.8	294	1.25	17.00	198	11.45
1955	1384	b1,360	Sept. 11, 12, 1955	0	160	.681	9.23	124	7.16
1956	1434	826	Sept. 12, 1956	0	73.1	.331	4.23	105	6.09
1957	1504	2,340	Aug. 10, 1957	0	299	1.27	17.27	336	19.40
1958	1554	2,280	Oct. 6, 1957	.5	332	1.41	19.15	294	16.96
1959	1624	4,270	Sept. 19, 1959	6.3	579	2.46	33.42	617	35.62
1960	1704	8,670	Aug. 1, 1960	2.4	546	2.32	31.65	-	-

a Maximum observed.

b Maximum peak discharge; maximum discharge during year, 1,490 cfs Oct. 1, 1954, stage falling.

2995. Myakka River below Lower Myakka Lake, near Sarasota, Fla.
(Formerly published as Miakka River below Lower Miakka Lake, near Sarasota)

Location--Lat 27°13'05", long 82°20'00", in sec.32, T.37 S., R.20 E., on west shore of Lower Myakka Lake 900 ft upstream from lake outlet, 1.7 miles southwest of Myakka River State Park entrance, and 14 miles southeast of Sarasota, Sarasota County.

Drainage area--240 sq mi, approximately.

Records available--January 1946 to June 1951. Published as Miakka River below Lower Miakka Lake, near Sarasota.

Gage--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (R. M. Angas, civil engineer, bench mark). Prior to June 5, 1946, staff gage at same site and datum.

Extremes--1946-51: Maximum discharge, 6,640 cfs Sept. 21, 1947 (gage height, 18.17 ft, from recorded range in stage); no flow for many days each year.

Remarks--Low flows are regulated at times by an earth dam at outlet of lake.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	78.6	34.8	28.1	25.8	20.3	0	106	29.9	0.44	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.36	0.16	0.14	0.12	0.09	0	0.49	0.14	0.002	-	-	-	-

Note--Figures given herein not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	132	\$7.45
1951	1204	a256	Apr. 17, 18, 1951	-	-	-	-	-	-

* Not previously published.

a Maximum during period October to June.

3000. Manatee River near Bradenton, Fla.

Location.--Lat 27°28'30", long 82°18'05", in SW¼ sec.34, T.34 S., R.20 E., on left bank 150 ft upstream from bridge on State Highway 675, 800 ft upstream from Craig Branch, 6½ miles northwest of Verna, and 17 miles east of Bradenton, Manatee County.

Drainage area.--90 sq mi, approximately.

Records available.--April 1939 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 11.72 ft above mean sea level, datum of 1929.

Average discharge.--21 years (1939-60), 111 cfs.

Extremes.--1939-60: Maximum discharge, 8,410 cfs Sept. 11, 1960 (gage height, 25.67 ft); minimum, 0.6 cfs May 7, 1939; minimum gage height, 2.48 ft May 5-7, 1939.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	87.5	13.5	50.1	19.4	32.1	9.73	77.4	5.67	4.11	192	138	248	73.3
1952	179	34.2	17.1	10.9	35.3	33.6	8.83	7.66	23.3	42.9	179	264	69.7
1953	567	71.2	33.0	100	151	13.4	44.6	5.29	91.2	103	375	667	185
1954	137	217	144	97.2	22.6	18.4	22.1	17.6	58.2	103	48.1	232	93.2
1955	47.8	42.8	29.3	32.8	31.9	12.5	12.3	6.94	10.8	39.4	228	231	60.5
1956	21.6	10.9	11.2	10.1	14.9	5.72	5.15	21.1	6.88	26.2	130	218	40.0
1957	150	11.1	8.90	13.2	36.3	128	87.2	78.4	119	275	334	188	120
1958	254	21.6	61.4	346	118	348	150	29.6	29.5	119	28.8	25.5	128
1959	11.4	19.7	59.5	75.8	32.0	348	62.3	92.1	415	303	649	647	227
1960	171	33.6	37.2	21.4	135	170	28.2	10.8	60.3	681	421	856	219

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.12	0.17	0.64	0.25	0.37	0.12	0.96	0.07	0.05	2.43	1.76	3.08	11.04
1952	2.30	.42	.22	.14	.42	.43	.11	.10	.29	.55	2.29	3.27	10.54
1953	7.26	.88	.42	1.29	1.74	.17	.55	.07	1.13	1.32	4.80	8.26	27.89
1954	1.76	2.69	1.84	1.25	.26	.24	.27	.23	.72	1.32	.62	2.87	14.07
1955	.61	.53	.37	.42	.37	.16	.15	.09	.13	.50	2.92	2.86	9.11
1956	.28	.13	.14	.13	.18	.07	.06	.27	.09	.34	1.67	2.70	6.06
1957	1.92	.14	.11	.17	.42	1.64	1.08	1.00	1.48	3.52	4.28	2.32	18.08
1958	3.25	.27	.79	4.43	1.36	4.45	1.86	.38	.37	1.53	.37	.32	19.38
1959	.15	.24	.76	.97	.37	4.46	.77	1.18	5.15	3.88	8.31	8.02	34.26
1960	2.19	.42	.48	.27	1.62	2.18	.35	.14	.75	6.72	5.39	10.61	33.12

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	55.0	8.28
1951	1204	1,680	July 23, 1951	2.8	73.3	0.814	11.04	80.0	12.05
1952	1234	3,220	Sept. 30, 1952	2.9	69.7	.774	10.54	107	16.16
1953	1274	3,600	Oct. 21, 1952	2.0	185	2.06	27.89	170	25.62
1954	1334	2,570	Nov. 26, 1953	7.5	93.2	1.04	14.07	61.6	9.29
1955	1384	887	Sept. 2, 1955	3.4	60.5	.672	9.11	54.1	8.15
1956	1434	1,330	Sept. 3, 1956	3.0	40.0	.444	6.06	50.7	7.68
1957	1504	1,790	Aug. 7, 1957	7.1	120	1.33	18.08	134	20.22
1958	1554	2,220	Jan. 24, 1958	6.5	128	1.42	19.38	108	16.22
1959	1624	5,430	June 18, 1959	6.0	227	2.52	34.26	240	36.20
1960	1704	8,410	Sept. 11, 1960	5.2	219	2.43	33.12	-	-

3005. Little Manatee River near Wimauma, Fla.

Location.--Lat 27°40'15", long 82°21'10", in NE $\frac{1}{4}$ sec.25, T.32 S., R.19 E., on left bank 25 ft downstream from bridge on U.S. Highway 301, 1 $\frac{1}{2}$ miles upstream from Cypress Creek, and 4 miles southwest of Wimauma, Hillsborough County.

Drainage area.--145 sq mi, approximately.

Records available.--March 1939 to September 1960.

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

Average discharge.--21 years (1939-60), 194 cfs.

Extremes.--1939-60: Maximum discharge, 14,000 cfs Sept. 11, 1960 (gage height, 17.59 ft); minimum, 1.2 cfs June 6, 7, 1945 (gage height, -0.45 ft).

Remarks.--Records of chemical analyses for the period October 1956 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	159	27.3	113	66.2	72.9	21.3	200	14.2	5.13	192	435	421	144
1952	204	41.5	34.6	22.6	53.0	123	35.7	13.6	37.3	43.8	262	262	94.7
1953	1160	152	73.9	248	162	34.1	47.9	9.91	55.3	72.4	255	974	271
1954	290	418	290	165	51.1	37.6	48.5	117	163	351	175	525	220
1955	98.9	83.5	64.5	57.0	40.2	25.3	22.1	11.0	26.2	208	650	383	140
1956	36.7	33.4	26.9	21.2	31.3	13.3	10.0	46.0	8.74	17.9	96.2	141	40.2
1957	168	20.8	17.9	30.4	40.0	163	134	176	348	239	476	229	171
1958	306	35.2	75.4	410	220	530	439	81.0	82.9	231	166	70.7	221
1959	76.4	87.5	171	324	71.9	831	221	162	682	553	580	1,153	411
1960	277	56.4	61.9	46.1	208	419	43.7	21.4	53.1	778	594	1,262	319

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.27	0.21	0.90	0.53	0.52	0.17	1.54	0.11	0.04	1.53	3.46	3.24	13.52
1952	1.62	.32	.28	.18	.39	.98	.27	.11	.29	.35	2.09	2.01	8.89
1953	9.22	1.17	.59	1.98	1.17	.27	.37	.08	.43	.58	2.02	7.50	25.38
1954	2.31	3.22	2.31	1.31	.37	.30	.37	.93	1.25	2.79	1.39	4.04	20.59
1955	.79	.64	.51	.45	.29	.20	.17	.09	.20	1.65	5.17	2.94	13.10
1956	.29	.26	.21	.17	.23	.11	.08	.37	.07	.14	.76	1.08	3.77
1957	1.33	.16	.14	.24	.29	1.30	1.03	1.40	2.68	1.90	3.78	1.76	16.01
1958	2.43	.27	.80	3.26	1.58	4.21	3.38	.64	.64	1.84	1.32	.54	20.71
1959	.61	.67	1.36	2.58	.52	6.61	1.70	1.29	5.25	4.40	4.61	8.87	38.47
1960	2.20	.43	.49	.37	1.55	3.33	.34	.17	.41	6.19	4.72	9.71	29.91

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	126	11.78
1951	1204	2,530	Sept. 20, 1951	2.3	144	0.993	13,52	143	13.36
1952	1234	1,400	Oct. 3, 1951	4.3	94.7	.653	8.89	188	17.65
1953	1274	6,020	Oct. 20, 1952	4.5	271	1.87	25.38	237	22.24
1954	1334	5,070	Nov. 26, 1953	6.7	220	1.52	20.59	157	14.69
1955	1384	2,010	Aug. 4, 1955	4.5	140	.966	13.10	127	11.92
1956	1434	642	Aug. 23, 1956	5.4	40.2	.277	3.77	49.4	4.64
1957	1504	3,000	Aug. 7, 1957	14	171	1.18	16.01	189	17.68
1958	1554	2,570	Apr. 16, 1958	10	221	1.52	20.71	214	20.05
1959	1624	8,830	Sept. 17, 1959	25	411	2.83	38.47	416	38.95
1960	1704	14,000	Sept. 11, 1960	13	319	2.20	29.91	-	-

3007. Bullfrog Creek near Wimauma, Fla.

Location.--Lat 27°47'30", long 82°21'09", in SE $\frac{1}{4}$ sec.12, T.31 S., R.19 E., near center of span on downstream side of bridge on State Highway 672, 0.6 mile downstream from Little Bullfrog Creek and 6 miles northwest of Wimauma, Hillsborough County.

Drainage area.--29.1 sq mi.

Records available.--September 1956 to November 1958, water years 1959-60 (annual maximum stage only).

Gage.--Wire-weight gage. Datum of gage is at mean sea level, datum of 1929 (Florida State Road Department bench mark).

Extremes.--1956-58: Maximum daily discharge, 958 cfs Apr. 16, 1958; maximum gage height observed, 27.80 ft Apr. 15, 1958; no flow Oct. 21-23, 1957, June 4, 5, 7, 10-21, 1958; minimum gage height observed, 18.05 ft Oct. 22, 1957.

Remarks.--Records of chemical analyses for the period November 1956 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	36.2	1.17	0.56	2.51	1.86	24.5	29.2	21.6	42.9	36.2	79.9	41.1	26.7
1958	55.6	2.17	7.39	55.7	47.3	78.7	108	6.69	4.56	26.5	25.8	8.52	35.5
1959	18.1	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	1.43	0.04	0.02	0.10	0.07	0.97	1.12	0.86	1.64	1.43	3.17	1.57	12.42
1958	2.20	.08	.29	2.21	1.69	3.12	4.14	.27	.17	1.05	1.02	.33	16.57
1959	.72	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Maximum day		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1956	1504	a209	Sept. 30, 1956	-	-	-	-	-	-
1957	1504	235	Aug. 11, 1957	0.4	26.7	0.918	12.42	29.0	13.50
1958	1554	958	Apr. 16, 1958	0	35.5	1.22	16.57	-	-
1959	1554	-	-	-	-	-	-	-	-

a Maximum during September.

3010. North Prong Alafia River at Keyville, Fla.

Location (revised).--Lat 27°53'01", long 82°06'01", in SW $\frac{1}{4}$ sec.10, T.30 S., R.22 E., near center of span at downstream side of highway bridge, 1.2 miles north of Keyville, Hillsborough County, and 4 miles upstream from confluence with South Prong Alafia River.

Drainage area.--175 sq mi, approximately.

Records available.--May 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 38.56 ft above mean sea level, datum of 1929.

Average discharge.--10 years (1950-60), 192 cfs.

Extremes.--1950-60: Maximum discharge, 9,570 cfs Sept. 11, 1960 (gage height, 15.86 ft); minimum, 3.6 cfs May 17, 1952; minimum gage height, 1.18 ft June 1, 2, 1953.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	151	40.4	94.8	50.4	72.6	56.9	160	27.6	12.8	103	116	117	83.6
1952	92.0	79.0	50.3	40.4	78.5	131	39.8	22.2	35.5	70.7	221	75.9	78.0
1953	481	148	66.3	118	128	54.7	46.5	17.5	139	308	482	776	231
1954	312	299	320	154	82.1	72.5	52.2	96.5	181	445	174	174	197
1955	98.2	118	78.9	89.6	75.4	52.4	49.9	27.0	67.4	184	175	312	111
1956	77.3	89.4	64.8	55.5	71.2	33.1	39.6	77.4	41.0	59.7	116	207	77.5
1957	147	41.5	38.5	59.5	81.6	151	193	363	150	225	533	597	216
1958	286	71.8	97.4	263	223	323	250	125	69.1	92.1	199	188	182
1959	64.6	119	100	205	108	884	412	183	432	513	669	733	370
1960	358	142	130	104	259	688	192	72.6	131	664	558	1,138	370

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.00	0.26	0.62	0.33	0.43	0.37	1.02	0.18	0.08	0.68	0.76	0.74	6.47
1952	.61	.50	.33	.27	.48	.86	.25	.15	.23	.47	1.45	.47	6.07
1953	3.17	.94	.45	.78	.76	.36	.30	.12	.89	2.03	3.17	4.95	17.92
1954	2.08	1.91	2.11	.88	.49	.48	.33	.64	1.15	2.93	1.14	1.11	15.25
1955	.65	.75	.52	.59	.45	.35	.32	.18	.43	1.21	1.15	1.99	8.59
1956	.51	.57	.43	.37	.44	.22	.25	.51	.26	.39	.76	1.32	6.03
1957	.97	.26	.25	.39	.49	1.00	1.23	2.39	.95	1.48	3.51	3.81	16.73
1958	1.88	.46	.64	1.73	1.33	2.13	1.60	.83	.44	.61	1.31	1.20	14.16
1959	.43	.76	.66	1.35	.64	5.82	2.63	1.21	2.75	3.38	4.41	4.68	28.72
1960	2.36	.90	.85	.69	1.60	4.53	1.22	.48	.83	4.37	3.68	7.25	28.72

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	934	Oct. 19, 1950	5.2	83.6	0.478	6.47	78.0	6.03
1952	1234	970	Aug. 19, 1952	3.9	78.0	.446	6.07	118	9.19
1953	1274	3,490	Oct. 20, 1952	4.0	231	1.32	17.92	251	19.46
1954	1334	3,860	Nov. 25, 1953	30	197	1.13	15.25	143	11.07
1955	1384	885	July 1, 1955	13	111	.634	8.59	105	8.18
1956	1434	688	Sept. 3, 1956	22	77.5	.443	6.03	77.3	6.00
1957	1504	3,420	Aug. 24, 1957	29	216	1.23	16.73	235	18.23
1958	1554	1,940	Feb. 27, 1958	38	182	1.04	14.16	168	13.03
1959	1624	5,580	Mar. 20, 1959	44	370	2.11	28.72	399	30.98
1960	1704	9,570	Sept. 11, 1960	50	370	2.11	28.76	-	-

3015. Alafia River at Lithia, Fla.

Location (revised).--Lat 27°52'19", long 82°12'41", near center of sec.16, T.30 S., R.21 E., on left bank 11 ft downstream from bridge on Marvinia road, 1.1 miles northwest of Lithia (station), 4.3 miles west of Lithia, Hillsborough County, and 2.0 miles upstream from Little Fishhawk Creek.

Drainage area.--335 sq mi, approximately.

Records available.--October 1932 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--28 years (1932-60), 390 cfs (revised).

Extremes.--1932-60: Maximum discharge, 45,900 cfs (revised) Sept. 7, 1933 (gage height, 25.6 ft, from floodmarks) from rating curve extended above 21,000 cfs; minimum, 6.6 cfs June 5, 6, 1945 (gage height, -0.91 ft).

Remarks.--Records of chemical analyses and water temperatures for the period November 1956 to September 1958, are published in reports of the Geological Survey.

Revisions.--Revised records for water years 1933-39, 1945, 1947, 1949, superseding those published in WSP 1304, are given herewith. Revised daily discharges for the periods affected are available and will be published in a subsequent water-supply paper.

Month	Mean	Per square mile	Runoff in inches	Momentary maximum		Minimum day
				Discharge	Date	
June 1933.....	506	-	1.68	-	-	-
July.....	1,092	-	3.76	-	-	-
September.....	4,185	-	13.94	-	-	-
Water year 1932-33.....	588	1.76	23.61	45,900	Sept. 7, 1933	10
Calendar year 1933.....	595	-	24.11	-	-	-
June 1934.....	1,029	-	3.43	-	-	-
Water year 1933-34.....	324	.967	13.12	7,380	June 16, 1934	40
Calendar year 1934.....	334	-	13.52	-	-	-
September 1935.....	2,095	-	6.98	-	-	-
Water year 1934-35.....	302	.901	12.25	10,400	Sept. 5, 1935	13
Calendar year 1935.....	309	-	12.54	-	-	-
February 1935.....	1,219	-	3.92	-	-	-
Water year 1935-36.....	318	.949	12.91	2,700	Feb. 11, 1936	25
Calendar year 1936.....	335	-	13.61	-	-	-
Water year 1936-37.....	305	.910	12.40	2,100	Oct. 12, 1936	50
October 1938.....	1,374	-	4.73	-	-	-
Calendar year 1938.....	335	-	13.56	-	-	-
June 1939.....	1,004	-	3.34	-	-	-
July.....	1,322	-	4.55	-	-	-
August.....	1,594	-	5.48	-	-	-
Water year 1938-39.....	606	1.81	24.53	7,880	Oct. 17, 1938	18
Calendar year 1939.....	490	-	19.81	-	-	-
June 1945.....	864	-	2.88	-	-	-
July.....	2,696	-	9.28	-	-	-
Water year 1944-45.....	564	1.68	22.87	7,880	June 25, July 26	6.6
Calendar year 1945.....	569	-	23.08	-	-	-
September 1947.....	2,832	-	9.43	-	-	-
Water year 1946-47.....	576	1.72	23.35	17,900	Sept. 20, 1947	52
Calendar year 1947.....	634	-	25.67	-	-	-
August 1949.....	2,319	-	7.98	-	-	-
Water year 1948-49.....	441	1.32	17.86	14,100	Aug. 29, 1949	8.3
Calendar year 1949.....	437	-	17.70	-	-	-

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	348	91.1	246	141	180	109	328	51.3	27.0	203	342	349	202
1952	345	169	120	87.5	166	315	113	42.2	95.6	161	432	209	188
1953	1,271	406	187	380	355	131	119	36.5	254	518	913	1,810	532
1954	774	718	766	353	199	191	130	206	456	968	457	506	480
1955	256	313	180	197	182	113	132	46.2	95.1	355	384	579	236
1956	136	158	110	93.7	135	527	47.9	124	57.0	80.6	222	420	136
1957	274	81.1	75.4	114	142	350	444	748	407	514	1,045	1,087	442
1958	607	129	177	622	456	808	775	253	162	316	436	339	424
1959	146	249	257	503	234	*1,874	900	378	1,020	1,046	1,037	1,831	*792
1960	811	300	273	222	539	*1,340	335	120	291	*1,395	*1,658	*2,848	*845

* Revised.

ALAFIA RIVER BASIN

Monthly and yearly runoff, in inches, of Alafia River at Lithia, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.20	0.50	0.85	0.48	0.56	0.38	1.09	0.18	0.09	0.70	1.18	1.16	8.17
1952	1.18	.56	.41	.30	.54	1.08	.38	.15	.31	.55	1.49	.70	7.65
1953	4.37	1.35	.64	1.31	1.10	.45	.40	.13	.85	1.78	3.14	6.03	21.55
1954	2.66	2.39	2.64	1.22	.62	.66	.43	.71	1.52	3.33	1.57	1.68	19.45
1955	.88	1.04	.62	.68	.57	.39	.44	.16	.32	1.22	1.32	1.93	9.57
1956	.47	.52	.38	.32	.44	.18	.16	.43	.19	.28	.76	1.40	5.53
1957	.94	.27	.26	.39	.44	1.20	1.48	2.57	1.38	1.77	3.60	3.62	17.90
1958	2.09	.43	.61	2.14	1.42	2.78	2.58	.87	.54	1.09	1.50	1.13	17.18
1959	.50	.83	.88	1.73	.73	*6.45	3.00	1.30	3.40	3.60	3.57	6.10	*32.09
1960	2.79	1.00	.94	.76	1.74	*4.61	1.12	.41	.97	*4.80	*5.71	*9.49	*34.34

* Revised.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	185	7.46
1951	1204	1,480	Sept. 21, 1951	16	202	0.603	8.17	197	7.97
1952	1234	1,550	Oct. 2, 1951	12	188	.561	7.65	292	11.86
1953	1274	*7,010	Oct. 21, 1952	11	532	1.59	21.55	565	22.88
1954	1334	4,420	Nov. 25, 1953	79	480	1.43	19.43	353	14.28
1955	1384	1,300	Sept. 20, 1955	50	236	.704	9.57	207	8.40
1956	1434	986	Sept. 5, 1956	27	136	.406	5.53	138	5.63
1957	1504	2,870	Aug. 25, 1957	65	442	1.32	17.90	483	19.56
1958	1554	2,850	Apr. 18, 1958	71	424	1.27	17.18	401	16.26
1959	1624	*8,310	Mar. 21, 1959	105	*792	*2.36	*32.09	*854	*34.61
1960	1704	20,300	Sept. 12, 1960	74	*845	*2.52	*34.34	-	-

* Revised.

PALM RIVER BASIN

3018. Sixmile Creek at Tampa, Fla.

Location.--Lat 27°57'59", long 82°22'07", in SW $\frac{1}{4}$ sec. 12, T. 29 S., R. 19 E., on left bank 25 ft upstream from bridge on State Highway 574, at southeastern city limits of Tampa, Hillsborough County, and 4 miles upstream from mouth.

Drainage area.--28 sq mi, approximately.

Records available.--September 1956 to September 1960.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929. Prior to Dec. 10, 1958, staff gage at same site and datum.

Extremes.--1956-60: Maximum discharge, 1,290 cfs Sept. 11, 1960 (gage height, 11.47 ft); minimum daily, 14 cfs Dec. 21-23, 1956; minimum gage height, 3.94 ft Dec. 23, 1956.

Remarks.--Records of chemical analyses for the period November 1956 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	29.6	18.8	15.8	20.5	22.2	33.6	40.7	36.2	44.6	83.0	123	65.2	44.7
1958	71.5	35.7	36.4	47.6	69.0	86.4	53.7	39.0	39.4	71.4	104	37.0	57.7
1959	33.5	28.5	34.9	64.9	31.1	145	113	86.1	118	100	205	145	92.4
1960	87.5	53.3	49.8	44.3	54.5	154	65.4	37.8	32.7	128	167	214	90.9

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	1.22	0.75	0.65	0.84	0.83	1.39	1.62	1.49	1.78	3.42	5.08	2.60	21.67
1958	2.94	1.42	1.50	1.96	2.57	3.56	2.14	1.60	1.57	2.94	4.30	1.47	27.97
1959	1.38	1.13	1.44	2.67	1.16	5.99	4.52	3.55	4.64	4.13	8.44	5.77	44.82
1960	3.60	2.12	2.05	1.82	2.10	6.34	2.61	1.56	1.30	5.28	6.86	8.53	44.17

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1957	1504, 1624	402	Aug. 6, 1957	14	44.7	1.60	21.67	51.4	24.91
1958	1554, 1624	822	Feb. 26, 1958	24	57.7	2.06	27.97	53.7	26.06
1959	1624	1,150	Aug. 29, 1959	21	92.4	3.30	44.82	100	48.64
1960	1704	1,290	Sept. 11, 1960	29	90.9	3.25	44.17	-	-

3025. 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 Itchepackesassa Creek and 4.4 miles northwest of Knights, Hillsborough County.

Drainage area.--110 sq mi, approximately.

Records available.--January 1951 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 70.56 ft above mean sea level, datum of 1929.

Average discharge.--9 years (1951-60), 124 cfs (89,770 acre-ft per year).

Extremes.--1951-60: Maximum discharge, 5,400 cfs Mar. 18, 1960 (gage height, 9.70 ft); minimum, 0.7 cfs May 23, 1952; minimum gage height, 0.23 ft May 18, 1960 (affected by pumpage).

Remarks.--Several diversions above station for irrigation.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	32.2	49.0	38.4	193	31.0	22.0	40.1	55.1	83.7	-
1952	38.4	24.6	26.4	20.4	35.3	183	33.8	68.1	77.0	77.9	211	95.0	74.6
1953	198	53.0	24.1	45.6	61.7	28.9	29.5	9.27	25.9	204	500	739	160
1954	248	225	255	68.2	32.7	29.4	19.2	19.0	165	164	141	55.9	117
1955	18.1	27.3	22.6	27.8	48.8	17.1	15.8	8.51	6.02	38.1	178	153	46.7
1956	33.1	61.7	29.5	28.7	34.3	11.9	9.27	30.5	9.87	39.2	19.1	197	41.8
1957	152	15.0	7.58	12.9	27.3	128	131	232	89.2	56.3	273	254	115
1958	171	13.8	19.2	67.0	106	144	123	22.1	8.47	25.3	44.8	67.6	67.5
1959	11.5	18.7	18.1	158	47.5	661	276	109	345	354	400	435	237
1960	362	75.1	41.8	35.6	119	729	68.3	17.6	48.6	366	379	833	257

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	1,980	2,720	2,360	11,500	1,900	1,310	2,470	3,390	4,980	-
1952	2,360	1,460	1,620	1,260	2,030	11,220	2,010	4,190	4,580	4,790	12,950	5,650	54,120
1953	12,170	3,160	1,480	2,810	3,430	1,780	1,760	570	1,540	12,540	30,760	43,970	116,000
1954	15,240	13,280	15,700	4,190	1,820	1,810	1,140	1,170	9,800	10,060	8,660	2,140	85,010
1955	1,110	1,630	1,390	1,710	2,710	1,050	941	523	358	2,340	10,960	9,110	33,830
1956	2,040	3,670	1,810	1,770	1,980	731	551	1,880	588	2,410	1,170	11,750	30,350
1957	9,340	891	466	792	1,520	7,880	7,770	14,250	5,310	3,460	16,770	15,140	85,590
1958	10,520	819	1,180	4,120	5,880	8,830	7,320	1,560	504	1,560	2,760	4,020	48,870
1959	708	1,110	1,120	9,700	2,640	40,630	16,440	6,700	20,540	21,740	24,610	25,900	171,800
1960	22,260	4,470	2,570	2,190	6,840	44,810	4,060	1,080	2,890	22,520	23,330	49,550	186,600

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Runoff		
		Discharge	Date				Inches	Acre-feet	Mean	Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	-	-	-
1951	1274	-	Apr. 24, 1951	-	-	-	-	-	52.6	6.48	38,050
1952	1274	8927	May 30, 1952	0.8	74.6	0.678	9.22	54,120	90.2	11.15	65,490
1953	1274	1,800	Sept. 27, 1953	1.3	160	1.45	19.75	116,000	198	24.43	143,400
1954	1354	1,620	Nov. 28, 1953	11	117	1.06	14.49	85,010	62.0	7.66	44,920
1955	1384	726	Aug. 6, 1955	3.2	46.7	.425	5.77	33,830	51.4	6.35	37,220
1956	1434	651	Sept. 9, 1956	3.4	41.8	.380	5.17	30,350	46.2	5.70	33,530
1957	1504	1,500	Aug. 7, 1957	2.7	115	1.05	14.23	83,590	118	14.54	85,410
1958	1554	1,080	Feb. 26, 1958	2.3	67.5	.614	8.34	48,870	54.3	6.71	39,290
1959	1624	2,220	Mar. 20, 1959	5.3	237	2.15	29.29	171,800	274	33.78	198,200
1960	1704	5,400	Mar. 18, 1960	5.4	257	2.34	31.80	186,600	-	-	-

a Maximum during period January to September.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

3030. 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 Black-water Creek, and 7 miles southwest of Zephyrhills, Pasco County.

Drainage area.--220 sq mi, approximately.

Records available.--October 1939 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Staff gage. Datum of gage is 33.28 ft above mean sea level (Corps of Engineers bench mark).

Average discharge.--21 years (1939-60), 306 cfs (221,500 acre-ft per year).

Extremes.--1939-60: Maximum discharge, 12,600 cfs Mar. 18, 1960 (gage height, 15.33 ft); minimum observed, 48 cfs June 11-17, 1956; minimum gage height observed, 0.78 ft June 3-6, 1944, June 11-17, 1945.

Remarks.--Records include high-water diversions above station from the Withlacoochee River basin through Withlacoochee-Hillsborough overflow near Richland. Records of chemical analyses and water temperatures for the period October 1956 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	184	121	194	143	173	156	368	131	98.7	140	298	362	197
1952	344	199	143	103	136	401	222	154	198	169	358	216	221
1953	364	155	102	131	178	132	491	97.6	117	353	1,037	2,001	429
1954	797	374	665	247	130	116	96.8	99.2	296	470	417	124	322
1955	98.5	107	103	109	139	86.1	81.7	75.4	69.5	126	446	563	167
1956	116	149	101	98.9	117	75.9	70.0	95.0	70.1	95.5	83.0	364	119
1957	487	115	71.7	78.0	96.2	258	319	333	169	202	625	654	285
1958	415	106	107	199	332	693	323	111	113	152	152	160	239
1959	99.0	105	106	371	158	1,435	710	296	849	948	892	1,222	601
1960	944	293	168	150	286	2,093	394	126	157	793	1,234	2,280	745

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	11,330	7,190	11,940	8,790	9,600	9,610	21,890	8,040	5,880	8,590	18,300	21,510	142,700
1952	21,160	11,850	8,780	6,320	7,800	24,680	13,240	9,490	11,780	10,380	22,000	12,850	160,300
1953	22,350	9,210	6,290	8,030	9,860	8,140	29,230	6,000	6,960	21,720	63,790	119,000	310,800
1954	49,040	22,240	40,900	15,200	7,260	7,110	5,760	6,100	17,600	28,910	25,670	7,400	233,200
1955	6,060	6,380	6,310	6,720	7,730	5,300	4,860	4,640	4,140	7,760	27,420	33,480	120,800
1956	7,160	8,840	6,200	5,960	6,750	4,670	4,170	5,720	4,170	5,870	5,100	21,640	86,250
1957	29,820	6,860	4,410	4,800	5,350	15,870	18,960	20,500	10,030	12,430	38,430	38,920	206,500
1958	25,510	6,310	6,580	12,240	18,460	42,610	19,230	6,820	6,750	9,370	9,340	9,540	172,800
1959	6,090	6,230	6,490	22,790	8,760	88,220	42,250	18,200	50,520	58,300	54,870	72,710	435,400
1960	58,070	17,420	10,300	9,240	16,470	128,700	23,450	7,720	9,370	48,770	75,860	135,700	541,100

Note.--Figures given herein prior to October 1956 not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year			
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet		
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	-	-
1951	1204	1,204	Sept. 19, 1951	85	197	142,700	214	154,000		
1952	1234	1,420	Mar. 27, 1952	77	221	160,300	215	156,400		
1953	1274	4,310	Sept. 28, 1953	71	429	310,600	532	384,900		
1954	1334	al,890	July 27, 1954	85	322	233,200	193	139,700		
1955	1384	1,240	Sept. 10, 1955	60	167	120,800	172	124,200		
1956	1434	1,040	Sept. 9, 1956	60	119	86,250	145	105,200		
1957	1504	2,070	Aug. 7, 1957	65	255	206,500	281	203,700		
1958	1554	2,260	Feb. 27, 1958	68	239	172,800	212	153,200		
1959	1624	4,880	Mar. 20, 1959	80	601	435,400	694	502,400		
1960	1704	12,600	Mar. 18, 1960	102	745	541,100	-	-		

a Maximum peak discharge; maximum discharge during year, 2,080 cfs Oct. 1, 1953, stage falling.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

Monthly and annual figures of discharge per square mile and runoff in inches previously published in water-supply papers prior to 1957 water year, may be in error because of inflow above station. Those figures are not published herein.

Location.--Lat 28°01'34", long 82°14'12", in SE¹ sec.19, T.28 S., R.21 E., on first downstream piling from right abutment of county highway bridge, 1.8 miles upstream from Baker Creek, 2½ miles northwest of Dover, Hillsborough County, and 7 miles west of Plant City.

Gage.--Crest-stage gage. Datum of gage is 53.04 ft above mean sea level, datum of 1929.
Prior to Dec. 31, 1958, staff gage at same site and datum.

Extremes.--1956-60: Maximum discharge, 1,400 cfs Mar. 17, 1960 (gage height, 8.78 ft).
1956-58: Minimum discharge, 1.1 cfs Oct. 18, 1958 (gage height, 0.72 ft).

[illegible][illegible]

Year	WSP	Water year ending Sept. 30							Calendar year		
		Momentary		Minimum day	Mean	Square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1956	1504	a40	Sept. 30, 1956	-	-	-	-	-	-	-	-
1957	1504	258	Aug. 6, 1957	3.6	32.4	1.35	19.36	23,480	35.6	20.12	25,750
1958	1504	146	Feb. 26, 1958	1.8	24.9	1.04	14.09	18,040	22.2	12.57	16,090
1959	1554	330	Mar. 20, 1959	-	-	-	-	-	-	-	-
1960	-	1,400	Mar. 17, 1960	-	-	-	-	-	-	-	-

a Maximum during period August to September.

Location.--Lat 28°04'04", long 82°16'04", in NW $\frac{1}{4}$ sec.12, T.28 S., R.20 E., on right bank 40 ft upstream from stoplog control, 50 ft upstream from bridge, 500 ft downstream from Lake Thonotosassa, and 2 miles east of town of Thonotosassa, Hillsborough County.

Gage.--Water-stage recorder and stoplog control. Datum of gage is 32.16 ft above mean sea level, datum of 1929.

Extremes.--1956-58: Maximum discharge, 317 cfs Aug. 9, 1957 (gage height, 4.36 ft); no flow June 7-24, 1958; minimum gage height, 2.69 ft June 21, 1958.

[illegible]

HILLSBOROUGH RIVER BASIN

Monthly and yearly discharge, in acre-feet, of Flint Creek near Thonotosassa, Fla.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	2,670	577	305	581	886	4,390	6,100	4,640	3,310	5,840	11,920	12,140	53,360
1958	6,040	1,240	2,270	4,640	4,440	7,300	5,500	1,780	546	5,270	6,560	2,820	48,410
1959	974	1,940	1,640	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1957	1504	317	Aug. 9, 1957	1.4	73.7	1.23	16.67	53,360	82.0	18.55	59,360
1958	1554	241	Feb. 28, 1958	0	66.9	1.12	15.14	48,410	60.0	13.57	43,410
1959	1554	-	-	-	-	-	-	-	-	-	-

3035. Hanna Lake Outlet near Lutz, Fla.

Location.--Lat 28°08'10", long 82°26'35", in sec.18, T.27 S., R.19 E., on right bank 30 ft upstream from culverts under Hanna Road, 600 ft downstream from Hanna Lake, 0.4 mile south of Sunset Lane, and 1.5 miles southeast of Lutz, Hillsborough County.

Drainage area.--0.74 sq mi, approximately.

Records available.--April 1946 to September 1951.

Gage.--Water-stage recorder and concrete control. Datum of gage is 30.00 ft above mean sea level, datum of 1929.

Average discharge.--5 years (1946-51), 2.44 cfs (1,770 acre-ft per year).

Extremes.--1946-51: Maximum discharge, 46 cfs Sept. 24, 1947; maximum gage height, 31.92 ft Sept. 7, 1950; no flow for many days each year.

Remarks.--Flow regulated at station and at outlets of Lake Kell and Keene Lake above station by manipulation of stoplogs in dams. Some diversion to Lake Stemper 1 mile below Hanna Lake and to drainage ditch north of station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	7.06	3.17	2.35	2.30	2.83	0.09	0.24	0	0	0	0	0.16	1.51

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	434	186	145	141	157	5.4	14	0	0	0	0	9.7	1,090

Note.--Figures given herein not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet	
		Discharge	Date						
1950	-	-	-	-	-	-	1.92	-	#1,390
1951	1204	9.4	Oct. 10, 1950	0	1.51	#1,090	-	-	-

* Not previously published.

3045. 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, 5½ miles northeast of Tampa, Hillsborough County.

Drainage area.--650 sq mi, approximately.

Records available.--October 1938 to September 1960.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (city of Tampa bench mark). Prior to Oct. 1, 1945, at site 1.4 miles upstream at datum 0.66 ft higher.

Average discharge.--22 years (1938-60), 685 cfs (495,900 acre-ft per year), adjusted for diversion.

Extremes.--1938-60: Maximum discharge, 14,600 cfs Mar. 21, 1960; maximum gage height, 22.89 ft Aug. 2, 1960; no flow Nov. 30 to Dec. 2, 1945.

Maximum stage known, 25.6 ft Sept. 7, 1933, at former site and datum, 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.--Flow regulated by Tampa reservoir since Oct. 1, 1945. Capacity of reservoir insufficient to affect monthly figures of runoff. Diversion at point 1½ miles above station for water supply by city of Tampa. Records of chemical analyses for the period November 1956 to September 1958 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second a/

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	615	236	364	353	234	199	406	186	52.4	144	498	697	333
1952	751	221	358	185	169	521	598	80.1	257	226	644	429	371
1953	787	391	141	188	321	171	1,065	217	170	469	1,965	4,371	852
1954	2,795	640	1,795	850	250	177	103	97.8	327	723	1,199	308	781
1955	268	109	129	125	216	76.6	65.1	33.1	34.3	215	800	1,099	264
1956	191	187	120	83.1	174	42.9	13.9	14.8	8.48	31.5	35.9	324	102
1957	742	172	46.1	34.8	45.4	366	759	318	528	1,834	1,790	586	586
1958	1,348	157	119	414	486	1,975	847	204	74.5	494	811	238	601
1959	144	170	134	887	417	3,082	2,022	740	1,853	2,765	2,738	3,597	1,546
1960	1,957	805	217	231	464	4,926	1,358	154	220	1,200	4,713	4,276	1,718

a Unadjusted for diversion by city of Tampa.

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	37,830	14,040	22,400	21,710	13,010	12,240	24,160	11,410	3,120	8,870	30,600	41,450	240,800
1952	46,180	13,160	22,000	11,390	9,760	32,030	35,560	4,920	15,270	13,910	39,620	25,550	269,300
1953	48,410	23,240	8,680	11,580	17,820	10,480	63,360	13,320	10,140	26,830	120,900	260,100	616,900
1954	171,900	38,070	110,400	62,280	13,680	10,860	6,150	6,010	19,440	44,450	75,720	18,310	565,500
1955	16,500	6,510	7,940	7,660	11,980	4,710	3,870	2,040	2,040	13,190	49,190	65,400	191,000
1956	11,730	11,730	7,370	5,110	10,030	2,640	830	908	505	1,940	2,210	19,280	74,280
1957	45,640	10,250	2,830	2,140	2,750	22,490	45,140	23,880	18,920	32,470	112,800	106,500	425,800
1958	82,870	9,350	7,820	25,440	27,000	121,500	50,380	12,520	4,440	30,380	49,890	14,170	435,300
1959	8,850	10,110	8,230	54,530	23,180	189,500	120,300	45,520	110,200	166,300	168,300	214,000	1,119,000
1960	120,400	47,900	13,570	14,230	26,700	502,900	80,840	9,440	15,070	73,770	289,800	254,400	1,247,000

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year					
		Observed			Adjusted a/			Observed			Adjusted a/		
		Maximum day	Mini-	Mean	Acre-feet	Mean	Per square in	Mean	Acre-feet	Mean	Runoff in	Runoff in	Runoff in
		Discharge	Date	day									
1950	-	-	-	-	-	-	-	-	-	498	360,700	526	10.99
1951	1204	1,500	Sept. 24, 1951	24	333	\$240,800	361	0.555	7.53	342	\$247,900	370	7.74
1952	1234	1,900	Apr. 5, 1952	28	371	\$269,300	399	.614	8.36	370	\$268,300	398	8.33
1953	1274	6,850	Sept. 30, 1953	57	852	\$616,900	882	1.36	18.42	1,183	\$656,800	1,213	25.33
1954	1354	b2,690	July 31, 1954	28	781	\$565,500	810	1.25	16.91	381	\$276,000	411	8.57
1955	1384	1,980	Sept. 15, 1955	30	264	\$191,000	296	.455	6.16	264	\$190,900	296	6.18
1956	1434	810	Sept. 28, 1956	6.4	102	\$74,280	138	.212	2.91	141	102,200	179	3.73
1957	1504	3,810	Aug. 10, 1957	20	588	\$425,800	623	.958	13.01	645	\$466,600	681	14.20
1958	1554	3,180	Oct. 6, 1957	31	601	\$435,300	638	.982	13.34	501	\$362,900	539	11.27
1959	1624	7,390	Mar. 23, 1959	84	1,546	\$1,119,000	1,586	2.44	33.11	1,759	\$1,274,000	1,799	37.57
1960	1704	c14,600	Mar. 21, 1960	17	1,718	\$1,247,000	1,760	2.71	36.84	-	-	-	-

* Not previously published.

a Adjusted for diversion by city of Tampa; diversion records furnished by city of Tampa Water Department.

b Maximum daily discharge for flood event whose crest occurred in the water year indicated.

c Maximum daily discharge, 6,800 cfs Oct. 1, 1953, on the recession from the crest that occurred in the preceding water year.

d Momentary maximum.

3050, Hutchins Lake Outlet near Lutz, Fla.

Location--Lat 28°07'40", long 82°29'15", in sec.15, T.27 S., R.18 E., on left bank 15 ft upstream from highway culvert, 600 ft downstream from Hutchins Lake, 0.45 mile west of Simmons Road, and 2.2 miles southwest of Lutz, Hillsborough County.

Drainage area--2.7 sq mi, approximately.

Records available--April 1946 to September 1952.

Gage--Water-stage recorder.

Average discharge--6 years (1946-52), 1.45 cfs (1,050 acre-ft per year).

Extremes--1946-52: Maximum discharge, 28 cfs Aug. 14, 1947; maximum gage height, 3.64 ft Sept. 6, 1950; no flow for many days each year.

Remarks--Low flow regulated by movable crest wooden control 400 ft downstream from station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2.16	0.56	0.52	0.80	1.08	0.19	0.22	0	0	0.05	0.34	0.53	0.54
1952	1.00	2.60	2.15	.26	.27	.95	.65	.06	.36	.51	1.87	.97	.97

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	133	34	32	49	60	12	13	0	0	3.0	21	32	389
1952	61	155	132	16	15	58	39	3.8	22	31	115	58	706

Note--Figures given herein not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	0.93	673
1951	1204	3.1	Oct. 10, 1950	0	0.54	389	.74	538
1952	1234	8.8	Nov. 17, 1951	0	.97	706	-	-

a Maximum peak discharge; maximum discharge during year, 3.2 cfs Oct. 1, 1950, stage falling.

Note--Monthly and annual figures of discharge per square mile and runoff in inches, previously published in water-supply papers, may be in error because of storage in Hutchins Lake. Those figures are not published herein.

3055. 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, Hillsborough County.

Records available.--July 1946 to September 1956.

Gage.--Staff gage. Datum of gage is 30.00 ft above mean sea level, datum of 1929.

Extremes.--1946-56: Maximum discharge, 107 cfs Sept. 23, 25, 1947; maximum gage height, 20.18 ft Sept. 29, 1946; no flow for many days in most years.

Remarks.--Diversion channel 0.6 mile upstream from station diverts part of flow at high stages into Lake Magdalene and the Sweetwater Creek basin. Since the completion of a dam at the diversion channel on Feb. 10, 1953, the amount of flow diverted from the basin was increased.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4.96	1.26	1.45	2.16	3.81	0.59	1.45	0.36	0	0	2.16	25.1	3.57
1952	20.4	4.08	4.21	1.54	.46	4.02	4.28	.09	.25	2.36	16.9	7.20	5.52
1953	11.6	6.01	1.28	1.45	.91	0	0	0	0	0	10.2	39.5	5.90
1954	17.3	3.59	22.0	7.92	1.19	1.08	.72	1.90	6.61	10.2	29.8	19.5	10.2
1955	10.0	2.41	2.28	2.32	3.19	.13	.06	0	0	.01	.12	6.79	2.27
1956	1.29	.22	.03	.01	.05	0	0	0	0	0	0	0	.13
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	305	75	89	133	211	36	86	22	0	0	133	1,490	2,580
1952	1,250	243	259	95	27	247	255	5.6	15	145	1,040	429	4,010
1953	714	358	79	89	50	0	.2	0	0	0	629	2,350	4,270
1954	1,060	214	1,350	487	66	67	43	117	393	625	1,830	1,160	7,410
1955	615	144	140	143	177	7.9	3.8	0	0	.4	7.1	404	1,640
1956	79	13	2.0	.4	3.0	0	0	0	0	0	0	0	.97
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Figures given herein not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet	
		Discharge	Date						
1950	-	-	-	-	-	-	4.17	-	3,020
1951	1204	67	Sept. 22, 1951	0	3.57	2,580	5.34	-	3,860
1952	1234	62	Oct. 1, 1951	0	5.52	4,010	4.69	-	3,410
1953	1274	77	Sept. 30, 1953	0	5.90	4,270	7.93	-	5,740
1954	1334	a66	Aug. 18, 1954	.2	10.2	7,410	7.86	-	5,690
1955	1384	23	Oct. 1, 2, 1954	0	2.27	1,640	1.16	-	837
1956	1434	b3.8	Oct. 1, 1955	0	.13	97	-	-	-
1957	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-

a Maximum peak discharge; maximum discharge of 66 cfs also occurred Oct. 1, 1953, stage falling.

b Stage falling; peak occurred Sept. 13, 1955.

HILLSBOROUGH RIVER BASIN

3060. Sulphur Springs at Sulphur Springs, Fla.

Location.--Lat 28°01'15", long 82°27'05", in NE $\frac{1}{4}$ sec.25, T.28 S., R.18 E., at swimming pool 100 ft west of U.S. Highway 41 in Sulphur Springs, Hillsborough County, and 500 ft upstream from Hillsborough River.

Records available.--1917, 1929, 1930 (one discharge measurement in each year), February 1931 to June 1934 (monthly discharge measurements published as "at Tampa"), 1935, 1945, 1946 (miscellaneous discharge measurements), May 1956 to June 1959 (discharge measurements only), July 1959 to September 1960.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (levels by city of Tampa). Prior to July 15, 1959, reference point at same site and datum.

Extremes.--1931-34, 1956-60: Maximum discharge measured, 111 cfs Aug. 21, 1959; minimum measured, 12.9 cfs Feb. 12, 1934.
Maximum discharge measured, 163 cfs Aug. 3, 1945.

Remarks.--Discharge measurements made in spring run about 250 ft downstream from gage or at footbridge 400 ft downstream, just above junction of the run with Hillsborough River. Flow regulated by operating gates at head of springs. Records of chemical analyses for the period November 1956 to September 1958, are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	76.3	88.6	83.4	-
1960	72.5	65.7	56.0	49.7	47.9	86.6	80.2	61.9	49.4	58.9	110	71.1	67.6

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	4,690	5,450	4,960	-
1960	4,450	3,910	3,440	3,060	2,750	5,320	4,770	3,810	2,940	3,620	6,790	4,230	49,090

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Maximum measured		Minimum measured	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1917	712	a35.5	Feb. 24, 1917	-	-	-	-	-
1929	712	a25.8	Feb. 6, 1929	-	-	-	-	-
1930	712	a92.3	May 9, 1930	-	-	-	-	-
1931	712	80.0	Mar. 18, 1931	31.0	-	-	-	-
1932	727	74.6	Oct. 7, 1931	23.6	-	-	-	-
1933	742	82.6	Aug. 2, 1933	26.6	-	-	-	-
1934	757	57.4	Oct. 18, 1935	12.9	-	-	-	-
1935	782	20.8	Apr. 5, 1935	-	-	-	-	-
1945	-	163	Aug. 3, 1945	-	-	-	-	-
1946	1052	102	Oct. 5, 1945	48.3	-	-	-	-
1956	1434	43.7	Sept.20, 1956	34.6	-	-	-	-
1957	1504	87.3	Aug. 28, 1957	38.6	-	-	-	-
1958	1554	105	Oct. 9, 1957	44.8	-	-	-	-
1959	1624,1704	111	Aug. 21, 1959	44.5	-	-	-	-
1960	1704	91.6	Sept. 1, 1960	b50.3	67.6	49,090	-	-

a Only discharge measurement during year.

b Minimum daily discharge, 30 cfs.

3065. 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, Hillsborough County.

Drainage area.--6.4 sq mi, approximately.

Records available.--October 1951 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 30.68 ft above mean sea level, datum of 1929.

Average discharge.--9 years (1951-60), 10.8 cfs (7,820 acre-ft per year).

Extremes.--1951-60: Maximum discharge, 438 cfs Mar. 17, 1960 (gage height, 4.25 ft); no flow for many days.

Remarks.--Some regulation by lakes above station. Since Feb. 10, 1953, considerable flow diverted at times into basin above station from Hillsborough River basin.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	1.21	1.17	1.17	0.44	0.46	1.97	1.32	0.11	0.30	2.25	5.90	4.94	1.78
1953	6.72	1.71	.28	.98	2.05	1.34	2.14	.57	.10	1.42	19.2	26.5	5.25
1954	25.6	8.80	9.70	3.55	.91	.64	.16	.06	.05	.28	2.18	7.05	4.96
1955	1.36	1.21	1.16	.89	1.11	.27	.31	0	0	.05	.15	3.85	.86
1956	.82	.40	.15	.12	.23	.03	0	0	0	.02	0	0	.15
1957	.01	0	0	0	0	.07	.84	1.12	10.7	11.5	52.1	30.4	8.95
1958	27.4	.42	.46	2.56	5.05	14.7	22.2	5.00	.76	13.9	23.9	9.46	10.6
1959	1.52	1.55	2.78	22.1	4.17	56.4	55.8	27.3	40.8	56.7	80.1	79.6	35.9
1960	42.3	12.9	1.51	1.39	4.94	79.3	28.6	3.42	.71	20.5	97.5	44.7	28.3

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	74	69	72	27	26	121	79	6.9	18	158	363	294	1,290
1953	413	102	17	60	114	82	128	35	6.1	87	1,180	1,580	3,800
1954	1,580	524	596	218	51	39	9.7	3.8	2.8	17	134	420	3,600
1955	84	72	71	55	62	17	19	0	0	3.0	9.1	229	621
1956	51	24	9.1	7.1	13	1.6	0	0	0	1.4	0	0	107
1957	.4	0	0	0	0	4.6	50	69	637	707	3,200	1,810	6,480
1958	1,680	25	28	157	281	902	1,320	308	45	855	1,470	563	7,630
1959	93	92	171	1,360	232	3,470	3,320	1,680	2,430	3,490	4,920	4,730	25,990
1960	2,600	766	93	85	284	4,880	1,700	210	42	1,260	6,000	2,660	20,580

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-
1952	1274	20	Sept. 5, 1952	0	1.78	1,290	2.21	1,600
1953	1274	85	Sept.16, 1953	0	5.25	3,800	8.24	5,970
1954	1334	64	Oct. 1, 1953	0	4.86	3,600	1.55	1,120
1955	1384	10	Sept.24, 1955	0	.86	621	.66	478
1956	1434	3.0	Oct. 4, 1955	0	.15	107	.03	24
1957	1504	85	Aug. 9, 1957	0	8.95	6,480	11.3	8,210
1958	1554	61	Aug. 21, 1958	0	10.6	7,630	8.65	6,260
1959	1624	148	Sept. 9, 1959	.1	35.9	25,990	40.2	29,090
1960	1704	438	Mar. 17, 1960	.1	28.3	20,580	-	-

Note.--Figures of runoff, in acre-feet, for water years 1952-56, not previously published.

3070. Rocky Creek near Sulphur Springs, Fla.

Location.--Lat 28°02'23", long 82°34'31", in N½ sec.23, T.28 S., R.17 E., on left bank 100 ft upstream from Seaboard Railway bridge, 2.5 miles downstream from Brushy Creek, and 7.7 miles northwest of Sulphur Springs Post Office, Hillsborough County.

Drainage area.--35 sq mi, approximately.

Records available.--January 1953 to September 1960.

Gage.--Water-stage recorder and wooden control. Datum of gage is 0.15 ft below mean sea level, datum of 1929.

Average discharge.--7 years (1953-60), 50.7 cfs.

Extremes.--1953-60: Maximum discharge, 2,840 cfs July 29, 1960 (gage height, 17.03 ft); minimum daily, 0.4 cfs May 12-16, June 9, 10, 1955; minimum gage height, 1.81 ft May 5, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	7.55	28.2	13.4	25.0	6.42	3.21	22.9	165	180	-
1954	100	24.7	84.0	34.5	9.28	6.85	7.47	9.54	10.3	52.3	68.1	104	42.9
1955	40.8	17.3	9.84	10.3	16.1	5.57	3.63	.63	.58	1.86	7.61	60.5	14.5
1956	5.34	7.36	2.73	4.38	10.3	3.43	1.94	1.91	1.30	1.97	4.35	12.2	4.73
1957	5.91	2.67	1.98	2.35	2.48	18.9	78.0	26.7	59.4	79.2	185	127	49.3
1958	78.5	6.29	4.83	20.0	38.2	92.9	47.1	11.2	3.69	37.1	73.3	25.0	36.7
1959	22.6	20.9	22.0	62.0	29.4	238	87.8	61.5	77.8	153	290	243	110
1960	56.2	18.0	10.6	8.91	24.3	298	35.4	5.98	12.8	224	260	201	97.0

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	0.25	0.78	0.44	0.80	0.21	0.10	0.75	5.42	5.74	-
1954	3.30	0.79	2.77	1.14	.28	.23	.24	.31	.33	1.72	2.24	3.32	16.67
1955	1.34	.55	.32	.34	.48	.18	.12	.02	.02	.06	.25	1.93	5.61
1956	.18	.23	.09	.14	.32	.11	.06	.06	.04	.06	.14	.39	1.82
1957	.19	.09	.07	.08	.07	.62	2.49	.88	1.89	2.61	6.09	4.04	19.12
1958	2.59	.20	.16	.66	1.14	3.06	1.50	.37	.12	1.22	2.41	.80	14.23
1959	.74	.67	.72	2.04	.88	7.83	2.80	2.02	2.48	5.05	9.55	7.75	42.53
1960	1.85	.58	.35	.29	.75	9.81	1.13	.20	.41	7.37	8.55	6.42	37.71

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	1274	a897	Sept. 27, 1953	-	-	-	-	55.0	21.35
1954	1334	492	Aug. 30, 1954	5.6	42.9	1.23	16.67	31.0	12.02
1955	1384	b138	Sept. 3, 1955	.4	14.5	.414	5.61	10.1	3.90
1956	1434	46	Sept. 10, 1956	.9	4.73	.135	1.82	4.33	1.67
1957	1504	521	Aug. 6, 1957	1.7	49.3	1.41	19.12	56.0	21.72
1958	1554	351	Oct. 3, 1957	1.9	36.7	1.05	14.23	34.6	13.41
1959	1624	1,380	Aug. 10, 1959	7.9	110	3.14	42.53	111	43.18
1960	1704	2,840	July 29, 1960	2.9	97.0	2.77	37.71	-	-

a Maximum during period January to September.

b Maximum peak discharge; maximum daily discharge during year, 142 cfs Oct. 1, stage falling.

3075. 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 wingwall 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, Pinellas County.

Drainage area.--9.0 sq mi, approximately.

Records available.--October 1949 to April 1959.

Gage.--Water-stage recorder and concrete control. Datum of gage is 0.85 ft below mean sea level, datum of 1929.

Average discharge.--9 years (1949-58), 6.52 cfs.

Extremes.--1949-59: Maximum discharge, 490 cfs Sept. 6, 1950 (gage height, 9.00 ft); no flow for many days in most years.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2.95	0.64	3.34	2.62	2.90	0.88	4.67	0.14	0	2.25	4.89	2.47	2.33
1952	3.26	2.71	2.29	1.13	4.02	20.3	2.99	.17	.29	2.01	6.95	.79	3.93
1953	6.04	2.94	.98	1.88	5.52	1.83	1.59	.11	.95	42.1	20.2	46.8	11.1
1954	14.0	13.2	21.8	8.49	3.85	3.87	1.20	1.51	1.82	14.9	5.37	16.0	8.89
1955	2.10	1.56	2.01	2.18	5.09	.80	.95	0	0	2.80	8.35	27.7	4.42
1956	5.16	7.45	2.30	2.92	2.71	.24	0	0	0	0	0	2.09	1.90
1957	4.91	1.03	.77	.98	1.36	6.76	13.2	10.5	11.3	7.90	33.0	31.2	10.3
1958	9.91	2.35	2.65	12.1	11.9	17.6	12.1	5.95	1.24	8.34	17.7	4.63	8.91
1959	13.2	5.61	9.85	19.2	8.04	66.4	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.38	0.08	0.43	0.36	0.34	0.11	0.58	0.02	0	0.29	0.63	0.31	3.53
1952	.42	.34	.29	.15	.48	2.60	.37	.02	.04	.26	.89	.10	5.96
1953	1.03	.36	.13	.24	.64	.23	.20	.01	.12	5.39	2.59	5.80	16.74
1954	1.79	1.64	2.79	1.09	.45	.50	.15	.19	.23	1.91	.69	1.99	13.42
1955	.27	.19	.26	.28	.59	.10	.12	0	0	.36	1.07	3.43	6.67
1956	.66	.92	.30	.37	.32	.03	0	0	0	0	0	.26	2.86
1957	.63	.13	.10	.13	.16	.87	1.64	1.34	1.41	1.01	4.22	3.87	15.51
1958	1.27	.29	.36	1.55	1.37	2.26	1.50	.76	.15	1.07	2.27	.57	13.42
1959	1.69	.70	1.26	2.46	.93	8.51	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	6.71	10.14
1951	-	-	-	-	-	-	-	2.44	3.69
1952	1204	22	Apr. 9, 10, 1951	0	2.33	0.259	3.53	2.44	6.43
1953	1234	145	Mar. 27, 1952	0	3.93	1.437	5.96	4.24	21.44
1954	1274	289	July 27, 1953	0	11.1	1.23	16.74	14.2	7.92
1955	1334	79	Nov. 26, 1953	0	8.89	.988	13.42	5.24	7.83
1956	1384	87	Sept. 11, 1955	0	4.42	.491	6.67	5.19	1.84
1957	1434	37	Nov. 11, 1955	0	1.90	.211	2.86	1.22	16.57
1958	1504	159	Aug. 25, 1957	0	10.3	1.14	15.51	11.0	15.15
1959	1554	121	Feb. 27, 1958	0	8.91	.990	13.42	10.1	-
1960	1624	a327	Mar. 18, 1959	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-

a Maximum during period October to April.

ALLEN CREEK BASIN

3080. Allen Creek near Largo, Fla.

Location.--Lat 27°56'30", long 82°45'00", in sec.24, T.29 S., R.15 E., on right bank at upstream side of culvert on Nursery Road, 1.3 miles south of State Highway 60, and 3 miles northeast of Largo, Pinellas County.

Drainage area.--0.8 sq mi, approximately.

Records available.--February 1947 to September 1951.

Gage.--Water-stage recorder and concrete control. Datum of gage is 15.58 ft above mean sea level, datum of 1929.

Extremes.--1947-51: Maximum discharge not determined, occurred Sept. 5, 1950 (gage height, 5.45 ft); no flow for many days each year.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.90	0.36	1.39	1.17	1.21	0.67	1.62	0.14	0	3.59	2.59	1.44	1.26

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.29	0.51	2.00	1.69	1.58	0.96	2.26	0.20	0	5.17	3.73	2.00	21.39

Yearly discharge, in cubic feet per second

Yearly discharges, in cubic feet per second									
Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	#1.64	#27.77
1951	1204	33	July 30, 1951	0	1.26	1.58	21.39	-	-

Not previously published.

3085. 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, Pinellas County.

Drainage area.--14 sq mi, approximately.

Records available.--August 1950 to September 1960.

Gage.--Water-stage recorder and concrete control. Datum of gage is at mean sea level, datum of 1929 (Pinellas County bench mark).

Average discharge.--10 years (1950-60), 17.5 cfs.

Extremes.--1950-60: Maximum discharge, 539 cfs Sept. 5, 1950 (gage height, 7.44 ft), from rating curve extended above 270 cfs; no flow for many days each year; minimum gage height, 3.63 ft May 25, 1956.

Remarks.--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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1950	-	-	-	-	-	-	-	-	-	-	2.83	95.9	-
1951	0.39	0	3.97	2.52	2.44	0.08	14.7	0.04	0	4.28	29.3	37.6	7.93
1952	25.3	12.0	4.37	1.18	10.6	33.0	8.61	0	0	3.21	13.3	1.96	9.49
1953	35.1	5.74	4.55	6.43	14.7	3.37	2.17	.01	.61	8.82	58.7	81.9	18.1
1954	19.6	14.5	35.1	12.9	1.84	.96	0	0	0	13.1	15.0	30.7	12.1
1955	8.84	1.75	4.28	5.01	10.6	.977	1.76	0	0	0	.555	14.6	3.97
1956	.97	6.60	.05	.28	1.08	0	0	0	0	0	0	0	.74
1957	0	0	0	0	0	11.7	22.1	18.0	25.1	30.6	68.6	80.8	21.5
1958	25.1	1.16	4.57	24.6	24.0	48.4	30.1	13.1	1.08	38.8	48.2	16.0	23.1
1959	11.3	9.94	13.4	33.2	10.3	95.0	46.1	7.33	32.0	39.2	88.6	93.3	40.5
1960	31.1	7.25	12.7	7.26	23.9	90.3	15.4	4.80	.35	54.8	114	88.1	37.7

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1950	-	-	-	-	-	-	-	-	-	-	0.23	7.65	-
1951	0.03	0	0.33	0.21	0.18	0.007	1.17	0.003	0	0.35	2.43	2.99	7.68
1952	2.08	.96	.36	.10	.82	2.71	.69	0	0	.26	1.10	.16	9.24
1953	2.89	.46	.04	.53	1.09	.28	.17	.0005	.05	.73	4.84	6.52	17.60
1954	1.62	1.15	2.89	1.06	.14	.08	.0003	0	0	1.08	1.24	2.45	11.71
1955	.73	.14	.35	.41	.79	.08	.14	0	0	0	.05	1.16	3.85
1956	.08	.52	.005	.02	.08	0	0	0	0	0	0	0	.70
1957	0	0	0	0	0	.97	1.76	1.48	2.00	2.52	5.65	6.44	20.82
1958	2.07	.09	.38	2.03	1.78	3.99	2.40	1.08	.09	3.20	3.97	1.28	22.36
1959	.93	.79	1.11	2.73	.76	8.15	3.67	.60	2.55	3.22	7.30	7.43	39.24
1960	2.56	.58	1.05	.60	1.84	7.44	1.22	.40	.03	4.52	9.38	7.02	36.64

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	1234	a539	Sept. 5, 1950	-	-	-	-	-	-
1951	1234	143	Sept. 19, 1951	0	7.93	0.566	7.68	11.1	10.72
1952	1234	182	Mar. 27, 1952	0	9.49	.878	9.24	9.48	9.23
1953	1274	266	Sept. 17, 1953	0	18.1	1.29	17.60	20.5	19.87
1954	1334	b93	Nov. 26, 1953	0	12.1	.864	11.71	7.49	7.27
1955	1384	52	Feb. 12, 1955	0	3.97	.284	3.85	3.34	3.24
1956	1434	25	Nov. 11, 1955	0	.74	.053	.70	.11	.10
1957	1504	225	Sept. 9, 1957	0	21.5	1.54	20.82	24.1	23.36
1958	1554	162	Aug. 19, 1958	0	23.1	1.65	22.36	23.4	22.65
1959	1624	336	Mar. 20, 1959	1.0	40.5	2.89	39.24	41.9	40.60
1960	1704	522	July 29, 30, 1960	0	37.7	2.69	36.64	-	-

a Maximum during period August to September.

b Maximum peak discharge; maximum discharge during year, 105 cfs Oct. 1, 1953, stage falling.

3090. 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, Hillsborough County.

Drainage area--10 sq mi, approximately.

Records available--April 1946 to June 1956.

Gage--Water-stage recorder. Datum of gage is 30.00 ft above mean sea level, datum of 1929.

Average discharge--9 years (1946-55), 7.46 cfs.

Extremes--1946-56: 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--Since May 1955, flow regulated by manipulation of stoplogs in culvert.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	8.21	3.23	2.75	4.44	4.37	1.97	1.79	0.32	0	0	0.92	3.45	2.61
1952	3.50	2.35	4.04	3.05	3.76	10.2	12.6	2.13	1.62	1.69	8.06	8.23	5.10
1953	14.6	10.1	2.39	1.74	2.59	1.95	4.68	2.65	.460	2.01	28.3	36.8	9.03
1954	34.1	7.78	14.2	11.3	3.85	1.82	1.19	.21	.35	4.10	5.11	16.2	8.41
1955	18.2	2.88	1.47	1.52	2.89	.82	.12	0	0	.06	5.37	22.6	4.66
1956	6.82	.007	0	0	0	0	0	0	0	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.95	0.36	0.32	0.51	0.45	0.23	0.20	0.04	0	0.11	0.39	3.56	
1952	.40	.26	.47	.35	.41	1.18	1.40	.25	.18	.20	.93	.92	6.96
1953	1.68	1.13	.28	.20	.27	.23	.52	.31	.05	.23	3.26	4.10	12.26
1954	3.93	.87	1.64	1.30	.40	.21	.13	.02	.04	.47	.59	1.81	11.41
1955	2.10	.32	.17	.18	.30	.09	.01	0	0	.007	.62	2.53	6.33
1956	.79	.0007	0	0	0	0	0	0	0	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	0	-	-	-	6.29	8.54
1951	1204	a7.4	Oct. 19-21, 1950	-	2.61	0.261	3.56	2.25	3.06
1952	1234	25	(b)	0	5.10	.510	6.96	6.53	8.91
1953	1274	c50	Aug. 18, 1953	0	9.03	.903	12.26	11.5	15.61
1954	1334	73	Oct. 1, 1953	0	8.41	.841	11.41	5.57	7.56
1955	1384	38	Oct. 1, 1954	0	4.66	.466	6.33	3.33	4.53
1956	1434	d17	Oct. 1, 1955	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-

a Maximum peak discharge; maximum discharge during year, 15 cfs Oct. 1, 1950, stage falling.

b Mar. 30 to Apr. 2, 1952.

c Maximum peak discharge; maximum discharge during year, 69 cfs Sept. 30, 1953, stage rising.

d Maximum during period October to June, stage falling.

3095. 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, Pinellas County.

Drainage area--30 sq mi, approximately.

Records available--August 1950 to September 1960.

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

Average discharge--10 years (1950-60), 33.9 cfs.

Extremes--1950-60: Maximum discharge, 1,600 cfs Mar. 17, 1960 (gage height, 13.32 ft), from rating curve extended above 930 cfs; no flow at times in most years.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1950	-	-	-	-	-	-	-	-	-	-	-	197	-
1951	32.7	5.67	9.51	13.9	12.5	2.52	5.48	0.45	0	7.34	19.1	24.2	11.1
1952	8.57	13.0	11.2	4.79	24.4	47.6	23.8	1.83	1.67	1.31	10.2	22.9	14.2
1953	43.5	21.3	6.54	8.27	18.8	12.4	25.0	1.75	3.84	38.9	123	135	36.6
1954	80.1	23.4	64.8	32.7	9.47	5.73	1.71	.02	2.33	31.6	21.8	38.9	26.3
1955	19.7	6.41	4.55	5.51	7.50	1.31	1.20	.003	0	23.4	29.2	67.7	13.9
1956	12.5	14.8	4.20	1.13	9.28	.58	0	0	0	.01	13.3	28.3	6.96
1957	14.0	1.60	.02	.003	.28	5.05	34.8	13.8	48.9	63.5	185	98.4	39.0
1958	70.0	5.87	4.82	30.6	34.6	94.5	47.0	4.89	31.7	24.3	33.9	18.6	30.9
1959	16.3	10.8	13.6	44.3	24.2	159	101	15.9	31.7	66.8	276	279	86.8
1960	52.7	11.9	5.67	4.57	18.1	255	40.7	1.83	.76	152	200	133	73.6

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1950	-	-	-	-	-	-	-	-	-	-	-	7.34	-
1951	1.26	0.21	0.37	0.54	0.43	0.10	0.20	0.02	0	0.28	0.73	.90	5.04
1952	.33	.48	.43	.18	.89	1.83	.88	.07	.06	.05	.39	.85	6.43
1953	1.67	.79	.25	.32	.65	.48	.93	.07	.14	1.50	4.73	5.03	16.56
1954	3.08	.87	2.49	1.26	.33	.22	.06	.0007	.09	1.22	.84	1.45	11.91
1955	.76	.24	.17	.21	.26	.05	.04	.0001	0	.90	1.12	2.52	6.27
1956	.48	.55	.16	.04	.33	.02	0	0	0	.0002	.51	1.05	3.14
1957	.54	.06	.0009	.0001	.01	.19	1.29	.53	1.82	2.43	7.10	3.66	17.63
1958	2.69	.22	.19	1.18	1.20	3.63	1.75	.19	.02	.93	1.30	.69	13.99
1959	.63	.40	.52	1.70	.84	6.11	3.75	.61	1.18	2.56	10.63	10.56	39.29
1960	2.02	.44	.22	.18	.65	9.79	1.51	.07	.03	5.84	7.70	4.95	33.40

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	1204	al,080	Sept. 6, 1950	-	-	-	-	-	-
1951	1204	111	Oct. 19, 1950	0	11.1	0.370	5.04	9.83	4.44
1952	1234	259	Mar. 27, 1952	0	14.2	.473	6.43	17.5	7.90
1953	1274	266	Aug. 10, 1953	0	36.6	1.22	16.56	44.8	20.29
1954	1334	b142	Dec. 24, 1953	0	26.3	.877	11.91	14.7	6.64
1955	1384	109	Sept. 5, 1955	0	13.9	.465	6.27	13.9	6.29
1956	1434	96	Aug. 23, 24, 1956	0	6.96	.232	3.14	5.65	2.55
1957	1504	676	Aug. 9, 1957	0	39.0	1.30	17.63	44.5	20.13
1958	1554	232	Oct. 3, 1957	0	30.9	1.03	13.99	27.5	12.44
1959	1624	772	Aug. 11, 1959	4.6	86.8	2.89	39.29	89.3	40.42
1960	1704	1,600	Mar. 17, 1960	C	73.6	2.45	33.40	-	-

a Maximum during period August to September.

b Maximum peak discharge; maximum discharge during year, 237 cfs Oct. 1, 1953, stage falling.

3100. Anclothe 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, Pasco County.

Drainage area.--72.5 sq mi.

Records available.--May 1946 to September 1960.

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

Average discharge.--14 years (1946-60), 93.7 cfs.

Extremes.--1946-60: Maximum discharge, 3,890 cfs July 30, 1960 (gage height, 26.09 ft); minimum, 0.4 cfs May 19, 1956 (pumpage effect); minimum gage height, 7.08 ft June 2-4, 1960.

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 3,700 cfs).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	56.2	10.1	15.5	38.6	37.5	6.40	4.64	3.70	3.70	54.1	61.0	56.6	29.0
1952	32.0	71.7	37.8	14.0	64.2	167	48.6	4.81	10.0	33.7	118	95.1	58.0
1953	143	38.3	10.8	21.6	46.1	60.5	335	14.5	6.33	40.6	333	310	113
1954	162	61.8	245	67.5	15.6	13.6	8.16	9.12	16.8	98.3	40.2	99.7	70.5
1955	39.1	15.0	18.1	22.0	26.6	4.62	4.50	3.77	2.96	31.6	46.9	175	32.3
1956	9.21	29.3	11.1	8.78	41.1	6.07	4.53	3.73	2.51	3.58	64.4	57.6	20.0
1957	14.7	3.78	3.65	3.11	5.47	17.7	76.7	28.7	161	98.4	342	284	86.8
1958	175	10.5	21.7	138	102	353	127	18.9	5.42	78.6	129	43.3	101
1959	112	71.0	55.4	164	67.2	458	219	148	139	273	427	585	228
1960	166	43.9	24.0	25.9	110	612	87.0	10.3	5.35	424	441	436	200

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.89	0.16	0.25	0.61	0.54	0.10	0.07	0.06	0.06	0.86	0.97	0.87	5.44
1952	.51	1.10	.60	.22	.96	2.66	.75	.08	.15	.54	1.87	1.46	10.90
1953	2.28	.59	.17	.34	.66	.96	5.15	.23	.10	.65	5.29	4.77	21.19
1954	2.58	.95	3.89	1.07	.22	.22	.13	.15	.26	1.56	.84	1.53	13.20
1955	.62	.23	.29	.35	.38	.07	.07	.06	.05	.50	.75	2.69	6.06
1956	.15	.45	.18	.14	.61	.10	.07	.06	.04	.05	1.02	.89	3.76
1957	.23	.06	.06	.05	.08	.28	1.18	.46	2.48	1.57	5.44	4.37	16.26
1958	2.78	.16	.35	2.20	1.47	5.62	1.95	.30	.08	1.25	2.05	.67	18.88
1959	1.78	1.09	.88	2.61	.97	7.28	3.37	2.35	2.14	4.34	6.79	9.01	42.61
1960	2.64	.68	.38	.41	1.63	9.73	1.34	.16	.08	6.75	7.01	6.71	37.52

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	72.0	13.48
1951	1204	457	July 30, 1951	-	29.0	0.400	5.44	33.9	6.35
1952	1234	881	Mar. 28, 1952	4.2	58.0	.800	10.90	62.4	11.73
1953	1274	2,340	Apr. 14, 1953	2.3	115	1.56	21.19	137	25.57
1954	1334	699	Dec. 25, 1953	4.3	70.5	.972	13.20	37.0	6.92
1955	1384	466	Sept. 12, 1955	2.1	32.3	.446	6.06	30.4	5.70
1956	1434	366	Aug. 24, 1956	1.0	20.0	.276	3.76	17.7	3.33
1957	1504	1,020	Aug. 8, 1957	2.3	86.8	1.20	16.26	103	19.20
1958	1554	1,140	Mar. 4, 1958	2.6	101	1.39	18.88	103	19.34
1959	1624	1,790	Mar. 20, 1959	15	228	3.14	42.61	227	42.56
1960	1704	3,890	July 30, 1960	2.5	200	2.76	37.52	-	-

3108. Withlacoochee River near Eva, Fla.

Location.--Lat 28°21'38", long 81°49'08", in NW¼ sec.33, T.24 S., R.25 E., on upstream side of bridge on State Highway 33, 2½ miles north of Eva, Polk County, and 6½ miles upstream from small tributary.

Drainage area.--130 sq mi, approximately.

Records available.--July 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 104.90 ft above mean sea level, datum of 1929 (unadjusted).

Extremes.--1958-60: Maximum discharge, 2,160 cfs Mar. 17, 1960 (gage height, 6.90 ft); no flow Oct. 3, 1958 (gage height, 2.61 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	5.59	1.50	-
1959	2.00	14.4	13.2	112	37.5	392	428	105	232	400	319	438	208
1960	314	145	50.4	37.6	83.4	649	304	49.9	31.4	226	479	542	243

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	344	89	-
1959	123	855	813	6,890	2,080	24,100	25,470	6,450	13,780	24,590	19,600	26,080	150,800
1960	19,300	8,610	3,100	2,310	4,800	39,940	18,120	3,070	1,870	15,890	29,480	32,270	176,800

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1958	1624	839	July 28, 1958	-	-	-	-	-	-	-	-
1959	1624	856	Mar. 21, 1959	0.1	208	1.60	21.76	150,800	249	25.97	190,000
1960	1704	2,160	Mar. 17, 1960	7.1	243	1.87	25.47	176,800	-	-	-

a Maximum during period July to September.

3110. Withlacoochee-Hillsborough overflow near Richland, Fla.

Location.--Lat 28°15'45", long 82°06'10", in sec.34, T.25 S., R.22 E., near left bank at downstream side of bridge on U.S. Highway 98, 1 mile south of channel of Withlacoochee River, 3 miles east of Richland, Pasco County, and 10 miles southeast of Dade City.

Records available.--February 1930 to September 1931; September 1950 and July 1958 to March 1960 (discharge measurements or observations of no flow only); April to September 1960. Published as supplement to Hillsborough River near Zephyrhills July 1958 to September 1959.

Gage.--Water-stage recorder. Datum of gage is 75.42 ft above mean sea level, datum of 1929 (Florida State Road Department bench mark). Prior to July 17, 1958, staff gage at site 1 mile downstream at different datum. July 17, 1958, to Apr. 24, 1960, reference point at present site and datum.

Extremes.--1930-31, 1960: Maximum discharge, 1,880 cfs Mar. 19, 1960 (gage height, 6.87 ft, from crest-stage gage); no flow for many days.

Remarks.--Flow is high-water diversion from the Withlacoochee River basin to the Hillsborough River basin.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	0.06	0	104	372	521	-

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	3.6	0	6,410	22,900	31,020	-

3120. 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, Pasco County, and 10 miles upstream from Little Withlacoochee River.

Drainage area.--580 sq mi, approximately (revised).

Records available.--August 1928 to February 1929, February 1930 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 49.27 ft above mean sea level (Corps of Engineers bench mark). Prior to Oct. 1, 1938, staff gage at site 1½ miles downstream at datum 0.12 ft lower.

Extremes.--1928-29, 1930-60: 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; minimum gage height, 1.02 ft July 22, 1956.

Remarks.--High-water diversion above station into Hillsborough River basin through Withlacoochee-Hillsborough overflow near Richland. Records include considerable amount of waste water diverted from ground-water supplies during packing season by Pasco Packing Co. in SW¼ sec.23, T.24 S., R.21 E., 3.8 miles upstream from Withlacoochee River.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	540	356	217	290	279	166	184	276	61.7	65.3	375	327	262
1952	874	467	523	228	205	519	562	106	63.0	31.9	129	176	324
1953	168	238	97.0	95.3	159	122	1,103	373	159	216	1,183	2,162	505
1954	1,670	482	1,033	817	280	171	121	97.9	150	112	503	98.0	466
1955	141	70.6	91.5	86.2	96.8	54.0	37.9	40.8	34.0	109	615	1,221	216
1956	323	179	120	90.0	115	57.4	27.8	59.2	48.3	18.0	55.4	94.9	99.0
1957	655	461	83.8	64.2	58.9	91.0	325	259	439	387	654	1,250	394
1958	752	129	84.6	205	44.9	1,915	927	290	72.8	175	227	76.5	426
1959	55.1	98.9	75.3	600	384	1,742	790	915	1,921	1,461	1,942		956
1960	1,409	890	322	258	332	3,043	1,785	403	212	724	2,777	2,322	1,211

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	33,180	21,190	13,330	17,850	15,500	10,220	10,970	16,980	3,670	4,010	23,060	19,470	189,400
1952	53,760	27,820	32,130	14,040	11,790	31,900	33,430	6,540	3,750	1,960	7,920	10,490	235,500
1953	10,350	14,190	5,970	5,860	8,850	7,480	65,620	22,930	9,480	13,260	72,720	128,600	365,500
1954	102,700	28,680	63,520	50,260	15,540	10,500	7,180	6,020	8,940	6,820	30,910	5,850	337,000
1955	8,690	4,200	5,620	5,300	5,370	3,320	2,250	2,510	2,020	6,700	37,800	72,680	156,500
1956	19,840	10,630	7,360	5,530	6,640	3,530	1,650	3,640	2,680	1,110	3,410	5,640	71,860
1957	40,270	27,460	5,160	3,950	3,270	5,600	19,360	15,940	26,110	23,770	40,190	74,360	285,400
1958	46,260	7,700	5,200	12,590	24,940	111,500	49,210	17,850	4,330	10,630	13,980	4,550	308,700
1959	3,390	5,890	4,630	36,910	21,300	89,590	105,600	48,570	54,420	118,100	89,850	115,600	691,800
1960	86,660	52,960	19,780	15,850	19,090	187,400	106,200	24,760	12,590	44,540	170,700	138,100	878,600

Note.--Figures given herein prior to October 1956 not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet	
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	a607	May 3, 1951	51	262	189,400	370	268,300	
1952	1234	1,400	Oct. 9, 10, 1951	27	324	235,500	325	235,400	
1953	1274	2,420	Sept. 19, 1953	70	505	365,300	210	152,300	
1954	1334	b1,460	Dec. 25, 1953	c58	466	337,000	732	529,700	
1955	1384	1,650	Sept. 16, 1955	20	216	156,500	222	160,600	
							243	175,800	
1956	1434	d238	Nov. 12, 1955	10	99.0	71,860	147	106,900	
1957	1504	1,490	Sept. 22, 1957	38	394	285,400	375	271,700	
1958	1554	2,600	Mar. 10, 1958	50	426	308,700	364	263,500	
1959	1624	2,960	Mar. 26, 1959	48	956	691,800	1,157	837,300	
1960	1704	6,920	Mar. 23, 1960	162	1,211	878,600	-	-	

a Maximum peak discharge; maximum discharge during year, 1,280 cfs Oct. 1, 1950, stage falling.

b Maximum peak discharge; maximum discharge during year, 2,320 cfs Oct. 3, 4, 1953, stage falling.

c Minimum discharge from recorded range in stage.

d Maximum peak discharge; maximum discharge during year, 701 cfs Oct. 1, 1955, stage falling.

Note.--Figures of runoff in acre-feet, for water years 1951-56, not previously published. Monthly and annual figures of discharge per square mile and runoff in inches, previously published in some water-supply papers, may be in error because of diversions above station. Those figures are not published herein.

3122. Little Withlacoochee River at Rerdell, Fla.

Location.--Lat 28°34', long 82°09", in E½ sec.13, T.22 S., R.21 E., near center of span on downstream side of bridge on U.S. Highway 301, a quarter of a mile north of Rerdell, Hernando County, and 3½ miles upstream from mouth.

Drainage area.--160 sq mi, approximately.

Records available.--July 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 59.02 ft above mean sea level, datum of 1929.

Extremes.--1958-60: Maximum discharge, 3,400 cfs Mar. 19, 1960 (gage height, 12.32 ft); minimum, 2.9 cfs Oct. 17, 18, 1958 (gage height, 2.58 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	114	23.9	-
1959	12.5	35.4	21.1	182	99.9	760	459	122	178	488	622	701	308
1960	308	117	41.3	28.5	99.8	1,045	408	51.2	39.6	186	695	707	312

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	7,020	1,420	-
1959	771	2,110	1,300	11,190	5,550	46,740	27,300	7,510	10,570	29,990	38,250	41,730	223,000
1960	18,930	6,970	2,540	1,750	5,740	64,280	24,250	3,150	2,360	11,410	42,730	42,060	226,200

Yearly discharge, in cubic feet per second

County drainage, at base 100 ft per second												
Year	WSP	Water year ending Sept. 30							Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff		
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet	
1958	1624	a 234	Aug. 15, 1958	-	-	-	-	-	-	-	-	-
1959	1624	1,940	Mar. 22, 1959	3.0	308	1.92	26.13	223,000	342	28.98	247,300	-
1960	1704	3,400	Mar. 19, 1960	9.5	312	1.95	26.52	226,200	-	-	-	-

a Maximum during period July to September.

3125. 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 abandoned highway bridge at Croom, Hernando County, 2 miles downstream from Little Withlacoochee River.

Drainage area.--880 sq mi, approximately (revised).

Records available.--October 1939 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 38.94 ft above mean sea level (Corps of Engineers bench mark). Prior to Feb. 2, 1940, staff gage at railroad bridge 500 ft upstream at same datum.

Extremes.--1939-60: Maximum discharge, 8,650 cfs Mar. 23, 1960 (gage height, 13.78 ft); minimum, 16 cfs July 24, 25, 1956 (gage height, 1.73 ft).
Maximum stage known, 15.2 ft in June 1934, from floodmark.

Remarks.--Records include considerable amount of waste water diverted from ground-water supplies during packing season by Pasco Packing Co.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	893	537	322	452	431	272	259	347	103	114	388	365	374
1952	980	535	689	321	296	681	731	192	139	91.5	171	232	421
1953	321	348	167	157	220	195	1,118	617	241	292	1,412	2,805	656
1954	2,265	773	1,319	1,131	472	280	193	180	191	172	617	175	650
1955	211	112	122	123	132	93.7	71.1	75.5	70.8	140	581	1,199	244
1956	430	231	162	121	133	79.7	46.2	64.3	59.6	28.3	62.2	116	128
1957	619	530	109	72.5	60.8	88.8	335	266	482	461	794	1,310	428
1958	920	256	177	323	587	2,091	1,131	447	173	308	388	188	584
1959	124	180	147	373	528	1,806	2,070	1,015	1,045	1,968	2,429	1,181	1,181
1960	1,721	1,050	488	378	505	5,633	2,484	601	373	846	3,470	3,019	1,551

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	54,900	31,970	19,810	27,790	23,960	16,700	15,410	21,320	6,100	7,020	23,870	21,740	270,600
1952	60,260	31,820	41,160	19,740	17,050	41,890	43,490	11,830	8,220	5,630	10,490	13,790	305,400
1953	19,720	20,720	10,270	9,650	12,220	11,980	66,530	37,930	14,350	17,940	86,840	166,900	475,000
1954	139,300	45,980	81,120	69,550	26,230	17,210	11,460	9,820	11,390	10,570	37,930	10,410	471,000
1955	12,960	6,650	7,490	7,570	7,320	5,760	4,230	4,640	4,210	8,610	35,750	71,320	176,500
1956	26,450	13,750	9,990	7,440	7,640	4,900	2,750	3,960	3,550	1,740	3,830	6,880	92,880
1957	38,070	31,550	6,730	4,450	5,380	5,460	19,920	16,360	28,680	28,370	48,840	77,980	309,800
1958	56,580	15,240	10,910	19,840	32,580	128,600	67,320	27,510	10,270	18,940	25,840	11,190	422,800
1959	7,600	10,700	9,050	45,330	29,330	111,000	223,200	62,430	62,200	128,500	21,000	144,600	854,900
1960	105,800	62,450	29,990	23,220	29,060	223,400	147,800	36,960	22,190	52,030	213,400	179,600	1,126,000

Note.--Figures given herein prior to October 1956 not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	544	394,000
1951	1204	a925	Oct. 23, 1950	92	374	270,600	410	297,200
1952	1234	1,390	Oct. 11, 1951	78	421	305,400	307	222,800
1953	1274	3,560	Sept. 22, 23, 1953	143	656	475,000	954	690,700
1954	1334	b1,820	Dec. 28, 1953	124	650	471,000	320	231,700
1955	1384	1,510	Sept. 18, 19, 1955	58	244	176,500	276	199,600
1956	1434	c276	Nov. 14, 1955	18	128	92,880	164	119,000
1957	1504	d1,570	Sept. 22, 23, 1957	48	428	309,800	437	316,200
1958	1554	3,000	Mar. 10, 11, 1958	133	584	422,800	507	367,400
1959	1624	3,830	Mar. 25, 26, 1959	97	1,181	854,900	1,417	1,026,000
1960	1704	8,650	Mar. 23, 1960	307	1,551	1,126,000	-	-

a Maximum peak discharge; maximum discharge during year, 1,700 cfs Oct. 1, 1950, stage falling.

b Maximum peak discharge; maximum discharge during year, 3,400 cfs Oct. 3, 1953, on the recession from crest that occurred during preceding water year.

c Maximum peak discharge; maximum discharge during year, 780 cfs Oct. 1, 1955, stage falling.

d Maximum daily.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

Monthly and annual figures of discharge per square mile and runoff in inches, previously published in water-supply papers, may be in error because of diversions above station. Those figures are not published herein.

3130. Withlacoochee River near Holder, Fla.

Location (revised).--Lat 28°59'19", long 82°20'59", in sec.30, T.17 S., R.20 E., on right bank 100 ft downstream from bridge on State Highway 200 and 4½ miles northeast of Holder, Citrus County.

Drainage area.--1,710 sq mi, approximately.

Records available.--August 1928 to February 1929, August 1931 to September 1960.

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.--29 years (1931-60), 1,191 cfs (862,200 acre-ft per year).

Extremes.--1928-29, 1931-60: Maximum discharge, 8,660 cfs Apr. 5, 1960 (gage height, 13.28 ft); minimum, 112 cfs June 18, 1956; minimum gage height, -0.41 ft June 19, 1945.

Remarks.--Records of chemical analyses for the periods January 1950 to December 1951, September 1954 to September 1959, and water temperatures for the period September 1954 to September 1959, are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3,403	1,864	1,282	1,293	1,122	841	718	636	433	433	619	805	1,122
1952	1,187	945	1,145	831	1,001	1,308	1,351	828	746	586	592	716	1,935
1953	1,013	1,054	727	846	627	635	907	1,264	869	742	1,669	3,309	1,105
1954	4,567	2,674	2,483	2,844	1,672	1,169	777	642	565	569	851	865	1,628
1955	535	491	482	479	525	410	329	248	234	323	508	1,014	464
1956	865	500	377	377	451	281	239	163	132	148	206	269	334
1957	438	829	409	222	223	253	450	466	611	594	1,198	1,648	612
1958	2,026	978	546	832	1,125	2,495	2,662	1,467	790	963	1,208	824	1,328
1959	801	1,158	856	1,309	1,234	2,160	4,203	2,936	2,240	3,110	3,847	4,054	2,328
1960	4,018	2,950	1,807	1,355	1,584	4,197	7,096	2,946	1,819	2,081	5,415	5,221	3,374

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	209,200	110,900	78,800	79,480	62,300	51,710	42,730	39,110	25,740	26,600	38,070	47,900	812,500
1952	72,990	56,220	70,410	51,090	57,600	80,310	80,370	50,940	44,370	36,050	35,810	42,580	678,700
1953	62,280	62,690	44,700	39,230	34,820	39,060	53,990	77,710	39,780	45,640	102,600	196,900	799,900
1954	280,800	159,100	152,600	174,800	92,870	71,850	46,250	39,470	33,650	34,980	52,330	39,560	1,178,000
1955	32,890	29,240	29,620	29,480	29,160	25,190	19,550	15,240	13,920	19,850	31,250	60,320	335,700
1956	53,170	29,740	23,190	23,200	25,920	17,280	14,230	10,040	7,830	9,090	12,690	15,980	242,400
1957	26,930	49,350	25,120	13,670	12,410	15,530	28,780	28,660	36,340	36,500	75,640	98,080	443,000
1958	124,600	58,170	33,590	51,170	62,480	153,400	158,400	90,230	46,990	59,180	74,260	49,060	961,500
1959	49,260	68,930	52,620	80,500	68,530	132,800	250,100	180,500	133,300	191,200	236,600	241,200	1,686,000
1960	247,100	175,500	111,100	83,290	91,120	258,000	422,300	181,100	108,200	127,900	333,000	310,700	2,449,000

Note.--Figures given herein prior to October 1956 not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff		
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet	
1950	-	-	-	-	-	-	-	-	1,251	9.93	905,700	
1951	1204	a 1,400	Jan. 7, 1951	398	1,122	0.656	8.91	812,500	847	6.73	613,300	
1952	1234	1,550	Mar. 30, 1952	501	935	54.7	7.45	678,700	894	7.12	648,800	
1953	1274	b 1,710	May 2, 3, 1953	576	1,105	84.6	8.78	799,900	1,689	13.41	1,223,000	
1954	1334	5,050	Oct. 9, 1953	481	1,628	.952	12.91	1,178,000	936	7.42	677,500	
1955	1384	1,220	Sept. 28, 29, 1955	217	464	.271	3.67	335,700	484	3.83	350,100	
1956	1434	c 801	Jan. 27, 1956	113	334	.195	2.66	242,400	327	2.62	237,700	
1957	1504	d 959	Nov. 12, 1956	146	612	.358	4.87	443,000	771	6.13	558,000	
1958	1554	5,240	Mar. 26, 1958	e 476	1,328	.777	10.56	961,500	1,265	10.06	916,000	
1959	1624	4,600	Apr. 7, 1959	576	2,328	1.36	18.48	1,686,000	2,829	22.45	2,048,000	
1960	1704	8,660	Apr. 5, 1960	1,180	3,374	1.97	26.86	2,449,000	-	-	-	

a Maximum peak discharge; maximum discharge during the year, 4,890 cfs Oct. 1, 1950, stage falling.

b Maximum peak discharge; maximum discharge during the year, 4,830 cfs Sept. 30, 1953, stage rising.

c Maximum peak discharge; maximum discharge during the year, 1,200 cfs Oct. 1, 1955, stage falling.

d Maximum peak discharge; maximum discharge during the year, 2,060 cfs Sept. 30, 1957, stage rising.

e Momentary minimum from recorded range in stage; minimum day unknown.

Note.--Figures of runoff, in acre-feet, for water years 1951-56, not previously published.

3135. Waccasassa River near Otter Creek, Fla.

Location (revised).--Lat 29°21'15", long 82°44'06", in NW $\frac{1}{4}$ sec.17, T.13 S., R.16 E., near right bank at upstream side of bridge on State Highway 24, 3.0 miles northeast of village of Otter Creek, Levy County, and 14.0 miles upstream from mouth of Otter Creek.

Records available.--May 1945 to Nov. 1953.

Gage.--Water-stage recorder. Datum of gage is 23.52 ft above mean sea level, datum of 1929.

Average discharge.--8 years (1945-53), 80.0 cfs (57,920 acre-ft per year).

Extremes.--1945-53: Maximum discharge, 1,210 cfs Sept. 7, 1950 (gage height, 7.16 ft); minimum, 6.5 cfs June 11, 12, 1945; minimum gage height, 1.52 ft June 11, 12, 14, 15, 1945.

Remarks.--Records include flow in main channel only. Waccasassa River and Otter Creek are connected above State Highway 24 by swamps and numerous cross channels.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	103	66.5	68.3	52.1	43.4	56.4	38.6	21.7	21.5	66.6	92.3	98.6	61.0
1952	62.3	132	123	77.2	181	111	55.9	32.7	28.0	30.8	61.5	139	85.6
1953	141	56.6	32.3	84.3	44.8	27.3	85.7	23.3	38.4	97.7	332	195	97.0
1954	129	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6,350	3,960	4,200	3,210	2,410	3,470	2,300	1,330	1,280	4,090	5,680	5,870	44,150
1952	3,830	7,840	7,570	4,750	10,410	6,820	3,300	2,010	1,670	1,900	3,780	8,270	62,150
1953	8,670	3,370	1,990	5,180	2,490	1,680	5,100	1,430	2,280	6,010	20,410	11,600	70,210
1954	7,950	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Figures of discharge, in acre-feet, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	70.4	50,960
1951	1204	212	Oct. 22, 1950	12	61.0	44,150	67.5	48,880
1952	1234	376	Feb. 26, 1952	16	85.6	62,150	78.4	56,940
1953	1274	577	Aug. 25, 1953	15	97.0	70,210	-	-
1954	1274	a313	Oct. 2, 1953	-	-	-	-	-

a Maximum during period October to November.

Note.--Figures of discharge, in acre-feet, not previously published.

3140. Otter Creek at Otter Creek, Fla.

Location (revised).--Lat 29°19'08", long 82°47'03", in SW $\frac{1}{4}$ sec.26, T.13 S., R.15 E., near right bank at upstream side of bridge on State Highway 24, 0.8 mile southwest of village of Otter Creek, Levy County, 1.1 miles southwest of U.S. Highway 98, and 9.7 miles upstream from mouth.

Records available.--May 1945 to November 1953.

Gage.--Water-stage recorder. Datum of gage is 13.35 ft above mean sea level, datum of 1929.

Average discharge.--8 years (1945-53), 58.6 cfs (42,420 acre-ft per year).

Extremes.--1945-53: Maximum discharge, 3,000 cfs Sept. 6, 1950 (gage height, 7.93 ft); no flow for several periods in most years.

Remarks.--Records include flow in main channel and a relief channel 0.4 mile northeast of gage. Waccasassa River and Otter Creek are connected above State Highway 24 by swamps and numerous cross channels.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	70.7	30.6	45.2	30.9	19.9	54.0	16.8	1.09	2.77	70.5	104	147	49.7
1952	48.3	123	136	59.5	204	75.1	25.4	5.72	3.07	13.9	25.3	113	68.6
1953	100	29.0	8.54	77.5	27.4	5.93	96.6	6.89	23.0	60.0	256	130	68.6
1954	102	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4,350	1,820	2,780	1,900	1,110	3,320	999	67.0	165	4,330	6,380	8,730	35,950
1952	2,950	7,320	8,360	3,660	11,740	4,620	1,510	352	182	852	1,550	6,710	49,810
1953	6,150	1,730	525	4,760	1,520	564	5,690	424	1,370	3,690	15,720	7,730	49,670
1954	6,290	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Figures of discharge, in acre-feet, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1950	-	-	-	-	-	-	57.2	41,440
1951	1204	338	Sept. 20, 1951	0	49.7	35,950	63.0	45,630
1952	1234	509	Nov. 17, 1951	.6	68.6	49,810	54.5	39,580
1953	1274	474	Aug. 9, 1953	0	68.6	49,670	-	-
1954	1274	4424	Oct. 2, 1953	-	-	-	-	-

a Maximum during period October to November.

Note.--Figures of discharge, in acre-feet, not previously published.

3145. 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 damsite.

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 1960. Monthly discharges only for some periods, published in WSP 1304.

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.--27 years (1927-31, 1937-60), 1,039 cfs.

Extremes.--1921-23, 1927-31, 1937-60: Maximum discharge, 13,800 cfs Oct. 1, 5, 6, 1928; maximum gage height, 19.6 ft Oct. 3, 1929, present datum, Oct. 28, 29, 1947; no flow at times in 1931, 1943, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,292	1,285	500	343	307	293	1,013	115	24.9	31.4	133	622	494
1952	1,614	5,053	1,732	1,993	1,091	1,695	790	141	78.0	40.9	34.5	99.3	1,024
1953	108	59.6	56.8	68.7	504	538	972	332	42.4	171	776	2,361	492
1954	3,703	556	1,099	1,845	526	266	146	89.8	13.1	1.62	200	430	694
1955	.12	.17	.24	3.04	11.3	6.10	12.7	7.13	4.33	7.31	44.8	629	59.8
1956	372	122	66.0	62.8	177	164	99.3	448	104	188	127	55.3	166
1957	42.6	22.4	9.52	6.31	4.28	102	425	239	1,659	620	485	348	330
1958	1,135	303	1,543	820	663	1,977	2,960	1,799	544	1,585	617	234	1,186
1959	78.6	62.1	51.5	325	1,292	6,117	3,355	809	1,528	1,344	1,189	625	1,399
1960	565	595	275	237	957	2,368	2,540	1,041	498	1,878	2,079	1,607	1,221

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.19	1.12	0.46	0.31	0.25	0.27	0.90	0.10	0.02	0.03	0.12	0.55	5.32
1952	1.48	2.70	1.58	1.81	.88	1.56	.70	.13	.07	.04	.03	.09	11.07
1953	1.10	.03	.03	.06	.42	.49	.86	.30	.04	.16	.71	2.09	5.29
1954	3.39	.49	1.01	1.68	.43	.24	.13	.08	.01	.002	.0002	.0004	7.46
1955	.0001	.0001	.0002	.003	.009	.006	.01	.007	.004	.007	.04	.56	.65
1956	.34	.11	.06	.06	.15	.15	.09	.41	.09	.17	.12	.05	1.80
1957	.04	.02	.009	.006	.04	.09	.38	.22	1.47	.57	.44	.31	3.56
1958	1.04	.27	1.41	.75	.55	1.81	2.62	1.65	.48	1.43	.56	.21	12.78
1959	.07	.05	.05	.30	1.07	5.59	2.97	.74	1.35	1.23	1.09	.55	15.06
1960	.52	.53	.25	.22	.82	2.17	2.25	.95	.44	1.72	1.90	1.43	13.20

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Datum						
1950	-	-	-	-	-	-	-	581	6.26
1951	1204	3,260	Oct. 26-30, 1950	7	494	0.392	5.32	773	8.31
1952	1234	4,300	(a)	9.8	1,024	.813	11.07	506	5.47
1953	1274, 1334	63,280	Sept. 2-4, 1953	18	492	.390	5.29	930	10.02
1954	1334	5,640	Oct. 5-7, 1953	0	694	.551	7.46	241	2.57
1955	1384	1,710	Sept. 17, 18, 1955	0	59.8	.047	.65	107	1.16
1956	1434	960	May 10, 1955	20	166	.132	1.80	125	1.36
1957	1504	2,550	June 14, 15, 1957	3.7	330	.262	3.56	576	6.21
1958	1554	4,400	Apr. 24, 1958	121	1,186	.941	12.78	950	10.23
1959	1624	8,680	Mar. 22, 1959	37	1,399	1.11	15.06	1,503	16.19
1960	1704	4,190	Aug. 1-3, 1960	194	1,221	.969	13.20	-	-

a Nov. 8, 10, Dec. 31, 1951, Jan. 1, 1952.

b Maximum peak discharge; maximum discharge during year, 4,000 cfs Sept. 30, 1953, stage rising.

3155. 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, Hamilton County.

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 1960.

Gage.--Water-stage recorder. Datum of gage is 48.54 ft above mean sea level (Corps of Engineers bench mark). 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.--35 years (1906-8, 1927-60), 1,713 cfs.

Extremes.--1906-8, 1927-60: 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, 1.05 ft June 24, 25, 26, 1955.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,755	1,785	672	482	472	571	1,899	193	54.4	79.4	647	1,436	835
1952	2,826	4,788	2,581	3,426	2,616	3,639	1,497	245	104	56.0	116	197	1,839
1953	158	63.5	51.6	120	882	890	1,664	575	84.0	702	1,807	4,284	934
1954	6,904	917	2,264	3,368	945	426	197	126	33.0	33.8	18.3	38.9	1,285
1955	18.3	15.0	25.2	46.3	82.9	39.3	60.9	23.3	12.8	19.6	54.9	1,491	155
1956	541	150	79.9	76.5	255	296	155	950	188	483	242	118	296
1957	206	73.2	27.0	21.5	18.0	178	802	518	4,822	1,510	1,577	934	889
1958	3,108	530	2,972	1,637	1,385	3,797	5,947	3,103	1,299	5,550	998	518	2,399
1959	109	98.8	81.6	600	2,474	13,040	7,219	2,124	3,313	2,939	2,204	1,385	2,970
1960	1,041	1,075	464	423	2,263	5,283	4,696	1,588	1,050	5,282	3,467	2,318	2,228

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.02	1.00	0.39	0.28	0.25	0.33	1.06	0.11	0.03	0.05	0.37	0.81	5.70
1952	1.52	2.68	1.50	1.98	1.42	2.22	.84	.14	.06	.03	.07	.11	12.57
1953	.09	.04	.03	.07	.46	.52	.93	.33	.05	.41	1.05	2.40	6.38
1954	4.00	.51	1.31	1.95	.49	.25	.11	.07	.02	.02	.01	.02	8.76
1955	.01	.008	.01	.03	.04	.02	.03	.01	.007	.01	.03	.84	1.04
1956	.31	.08	.05	.04	.14	.17	.09	.55	.11	.28	.14	.07	2.03
1957	.12	.04	.02	.01	.01	.10	.45	.30	2.70	.87	.91	.52	6.05
1958	1.58	.30	1.72	.95	.72	2.20	3.33	1.80	.73	2.06	.58	.18	16.37
1959	.06	.06	.05	.35	1.29	7.56	4.05	1.23	1.86	1.70	1.28	.78	20.27
1960	.60	.60	.27	.25	1.23	3.06	2.63	.80	.59	1.90	2.01	1.30	15.24

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	851	5.81
1951	1204	4,200	Oct. 30, 1950	34	835	0.420	5.70	1,318	8.99
1952	1234	5,780	Jan. 5, 1952	38	1,839	.924	12.57	1,028	7.03
1953	1274	a5,200	Sept. 10, 11, 1953	46	934	.469	6.38	1,765	12.04
1954	1334	10,100	Oct. 8-11, 1953	8.7	1,285	.646	8.76	436	2.97
1955	1384	3,840	Sept. 19, 1955	7.5	155	.078	1.04	216	1.46
1956	1434	1,760	May 11, 1956	50	296	.149	2.03	257	1.77
1957	1504	9,130	June 10, 1957	14	889	.447	6.05	1,423	9.69
1958	1554	8,420	Apr. 11, 1958	158	2,399	1.21	16.37	1,864	12.72
1959	1624	20,100	Mar. 22, 1959	66	2,970	1.49	20.27	3,161	21.57
1960	1704	6,810	Mar. 19, 1960	258	2,228	1.12	15.24	-	-

a Maximum daily discharge for flood event whose crest occurred during the year; maximum discharge, 7,200 cfs Sept. 30, 1953, stage rising.

3160. Alapaha River near Alapaha, Ga.

Location--Lat 31°23', long 83°10', near right bank (corrected) 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--663 sq mi.

Records available--October 1936 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage--Water-stage recorder. Datum of gage is 209.34 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Sept. 8, 1943, staff gage at same site and datum.

Average discharge--24 years (1936-60), 501 cfs.

Extremes--1937-60: Maximum discharge, 12,700 cfs Apr. 4, 1948 (gage height, 16.8 ft); no flow July 23, 24, Sept. 1 to Nov. 28, 1954.
Maximum stage known since at least 1900, 18.0 ft in April 1928, from information by Georgia State Highway Department (discharge, 16,000 cfs)

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	7.50	7.27	49.4	231	304	408	1,154	134	11.7	36.2	484	44.6	238
1952	25.1	87.2	797	727	1,196	1,698	755	369	607	8.48	3.54	14.2	522
1953	17.7	4.03	26.9	274	1,008	1,068	919	339	60.2	177	94.4	243	348
1954	851	70.3	1,265	1,531	399	344	150	11.1	1.02	.617	.425	0	389
1955	0	.009	2.34	18.6	139	36.4	334	40.5	10.4	6.83	112	226	75.9
1956	52.8	19.2	18.1	55.3	1,188	1,014	370	247	24.5	160	71.0	83.0	272
1957	366	119	117	151	123	434	1,170	431	139	63.3	128	69.2	276
1958	226	330	1,448	841	1,005	1,796	2,384	1,023	479	486	98.4	12.2	843
1959	.95	1.22	13.0	64.8	1,861	3,206	1,619	698	1,129	271	425	75.2	772
1960	65.2	1,071	710	684	2,032	1,425	2,921	301	20.6	42.3	2.53	.80	764

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.01	0.01	0.09	0.40	0.48	0.71	1.94	0.23	0.02	0.06	0.84	0.07	4.86
1952	.04	.15	1.38	1.27	1.94	2.95	1.27	.64	1.02	.02	.006	.02	10.71
1953	.03	.007	.05	.48	1.58	1.86	1.55	.59	.10	.31	.16	.41	7.13
1954	1.48	.12	2.20	2.66	.63	.60	.25	.02	.002	.001	.0007	0	7.96
1955	0	.00003	.004	.03	.22	.06	.56	.07	.02	.01	.19	.38	1.54
1956	.09	.03	.03	.10	1.93	1.76	.62	.43	.04	.28	.12	.14	5.57
1957	.64	.20	.20	.28	.19	.76	1.96	.75	.23	.11	.22	.12	5.64
1958	.39	.56	2.51	1.46	1.58	3.12	4.02	1.76	.81	.85	.17	.02	17.27
1959	.002	.002	.02	.11	2.93	5.58	2.72	1.21	1.90	.47	.74	.13	15.81
1960	.11	1.81	1.23	1.19	3.30	2.48	4.92	.52	.03	.07	.004	.001	15.66

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	138	2.83
1951	1204	-	-	-	-	-	-	310	6.32
1952	1234	2,220	Apr. 3, 1951	0.8	239	0.359	4.86	449	9.22
1953	1274	2,300	Dec. 25, 1951	.6	522	.787	10.71	529	10.84
1954	1334	2,140	Apr. 20, 1953	1.9	348	.525	7.13	203	4.17
1955	1384	3,180	Jan. 1, 1954	0	389	.587	7.96	83.3	1.69
		890	Apr. 17, 1955	0	75.9	.114	1.54		
1956	1434	2,400	Feb. 22, 1956	2.4	272	.410	5.57	315	6.46
1957	1504	2,400	Apr. 12, 1957	3.7	276	.416	5.64	395	8.06
1958	1554	4,360	Apr. 16, 1958	2.3	843	1.27	17.27	675	13.83
1959	1624	5,620	Mar. 10-12, 1959	.1	772	1.16	15.81	925	18.94
1960	1704	8,660	Apr. 8, 1960	.1	764	1.15	15.66	-	-

3175. Alapaha River at Statenville, Ga.

Location--Lat 30°42', 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, October 1931 to September 1960. Monthly discharges only for some periods, published in WSP 1304.

Gage--Water-stage recorder. Datum of gage is 76.77 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department). Jan. 28 to June 30, 1921, staff gage at site 50 ft (corrected) 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, and Dec. 1, 1949, to Nov. 22, 1952, wire-weight gage, at present site, all at present datum.

Average discharge--29 years (1931-60), 949 cfs.

Extremes--1921, 1931-60: Maximum discharge, 27,300 cfs Apr. 6, 1948 (gage height, 29.8 ft, from graph based on gage readings); minimum, 16 cfs Nov. 13, 14, 1954. Maximum stage known since at least 1862, that of Apr. 6, 1948, from information by local resident. Flood of Apr. 30 or May 1, 1928, reached a stage of 28.5 ft, from floodmarks (discharge, 18,400 cfs).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	101	83.4	196	395	506	681	2,241	467	95.9	114	544	301	475
1952	195	541	1,282	1,372	1,742	2,824	1,536	529	968	96.9	93.6	107	938
1953	153	71.8	78.7	342	1,577	1,902	1,964	651	228	528	884	897	766
1954	1,991	246	1,570	2,688	756	595	369	125	49.0	42.1	29.4	25.6	713
1955	77.9	21.0	53.7	50.0	267	129	509	183	46.9	44.9	154	256	146
1956	173	69.4	54.2	89.3	1,208	1,591	704	1,232	232	440	232	174	515
1957	755	285	171	263	196	590	1,720	1,159	1,094	227	284	410	595
1958	709	442	2,187	1,292	1,715	3,126	4,656	2,099	1,622	1,473	404	126	1,653
1959	68.5	51.3	46.1	143	2,895	6,876	3,281	1,220	2,262	663	649	322	1,529
1960	164	1,270	899	1,326	2,975	3,102	6,136	753	147	344	384	206	1,462

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.08	0.07	0.16	0.33	0.38	0.56	1.78	0.39	0.08	0.09	0.45	0.24	4.61
1952	.16	.43	1.06	1.13	1.34	2.33	1.23	.44	.77	.08	.08	.08	9.13
1953	.13	.06	.06	.28	1.18	1.57	1.56	.54	.18	.43	.73	.72	7.44
1954	1.64	.20	1.29	2.21	.56	.49	.29	.10	.04	.03	.02	.02	6.89
1955	.06	.02	.03	.04	.20	.11	.41	.15	.04	.04	.13	.20	1.43
1956	.14	.06	.04	.07	.93	1.31	.56	1.01	.19	.36	.19	.14	5.00
1957	.62	.23	.14	.22	.15	.48	1.37	.95	.87	.19	.23	.33	5.78
1958	.58	.35	1.80	1.06	1.27	2.57	3.72	1.73	1.29	1.21	.35	.10	16.01
1959	.06	.04	.04	.12	2.16	5.66	2.61	1.00	1.81	.55	.53	.26	14.84
1960	.13	1.01	.74	1.09	2.29	2.56	4.89	.82	.12	.28	.32	.16	14.21

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	343	3.34
1951	1204	3,480	Apr. 5, 1951	53	475	0.339	4.61	613	5.95
1952	1234	3,360	Mar. 13, 1952	43	958	.670	9.13	794	7.73
1953	1274	4,100	Sept. 30, 1953	54	766	.547	7.44	1,063	10.32
1954	1334	4,010	Jan. 9, 10, 1954	19	713	.509	6.89	401	3.87
1955	1384	1,320	Apr. 23, 1955	17	146	.104	1.43	160	1.56
1956	1434	4,450	May 8, 1956	49	515	.368	5.00	592	5.75
1957	1504	2,940	(b)	100	595	.425	5.78	776	7.52
1958	1554	7,950	Apr. 22, 1958	77	1,653	1.18	16.01	1,585	13.42
1959	1624	10,000	Mar. 17, 19, 1959	37	1,529	1.09	14.84	1,710	16.58
1960	1704	-	Apr. 11-12, 1960	80	1,462	1.04	14.21	-	-

a Maximum peak discharge; maximum discharge during year 4,100 cfs Oct. 1, 1953, stage falling.

b About June 14, 1957.

3180. 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 1960.

Gage.--Water-stage recorder. Datum of gage is 171.08 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--20 years (1940-60), 493 cfs.

Extremes.--1940-60: 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 measurement of peak flow; minimum, 0.29 cfs Oct. 25-30, 1954.
Maximum stage known since at least 1927, that of Apr. 2, 1948. Flood in August 1928 reached a stage of 20.5 ft, from information by Georgia State Highway Department (discharge, 33,200 cfs, from rating curve extended above 13,000 cfs as explained above).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4.55	3.63	12.1	89.8	166	363	1,093	172	111	34.9	90.7	25.2	179
1952	35.5	106	1,130	739	1,388	1,464	533	241	207	15.0	35.4	42.9	493
1953	17.1	4.53	14.5	223	994	786	1,134	221	26.9	442	253	618	389
1954	592	64.4	1,376	1,145	324	333	122	39.8	7.27	3.31	2.45	1.16	338
1955	.684	1.54	2.95	34.8	249	69.5	468	52.9	46.6	8.62	10.5	81.7	83.5
1956	23.8	19.6	19.7	75.0	877	625	185	654	16.1	14.8	11.3	36.8	211
1957	158	39.3	88.3	96.1	91.8	352	921	505	566	150	100	205	272
1958	366	291	1,143	862	932	1,911	2,220	696	1,066	996	290	19.5	899
1959	6.30	4.34	5.42	70.6	1,933	3,040	1,030	703	818	463	248	96.2	694
1960	37.5	475	565	653	1,818	1,064	2,883	219	70.2	84.8	22.2	13.1	650

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.01	0.007	0.02	0.19	0.32	0.77	2.23	0.36	0.23	0.07	0.19	0.05	4.45
1952	.07	.22	2.39	1.56	2.74	3.09	1.09	.51	.42	.03	.07	.09	12.28
1953	.04	.009	.03	.47	1.90	1.68	2.31	.47	.05	.93	.53	1.26	9.66
1954	1.24	.13	2.90	2.41	.62	.70	.25	.08	.01	.007	.005	.002	8.35
1955	.002	.003	.006	.07	.47	.15	.96	.11	.09	.02	.02	.17	2.07
1956	.05	.04	.04	.16	1.73	1.31	.38	1.38	.03	.03	.02	.08	5.25
1957	.33	.08	.19	.20	.17	.74	1.87	1.06	1.15	.32	.21	.42	6.74
1958	.77	.59	2.41	1.82	1.77	4.02	4.53	1.46	2.18	2.10	.61	.04	22.30
1959	.01	.009	.01	.15	3.68	6.41	2.10	1.49	1.67	.98	.52	.20	17.23
1960	.08	.97	1.19	1.37	3.58	2.25	5.88	.46	.14	.18	.05	.03	16.18

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	197	4.89
1951	1204	3,320	Apr. 2, 1951	3.0	179	0.327	4.45	285	7.09
1952	1234	4,360	Dec. 25, 1951	4.9	493	.901	12.28	388	9.68
1953	1274	3,210	Sept. 30, 1953	3.5	389	.711	9.66	558	13.85
1954	1334	a2,750	Jan. 2, 1954	.41	338	.618	8.35	165	4.09
1955	1364	1,550	Apr. 18, 1955	.29	83.5	.153	2.07	88.4	2.19
1956	1434	4,360	May 8, 1956	2.5	211	.386	5.25	230	5.72
1957	1504	2,240	Apr. 11, 1957	8.0	272	.497	6.74	400	9.91
1958	1554	5,070	Apr. 13, 1958	6.6	899	1.64	22.30	748	18.56
1959	1624	9,600	Mar. 8, 1959	3.4	694	1.27	17.23	783	19.44
1960	1704	14,200	Apr. 5, 1960	7.7	650	1.19	16.18	-	-

a Maximum peak discharge; maximum discharge during year, 3,110 cfs Oct. 1, 1953, stage falling.

3190. Withlacoochee River near Pinetta, Fla.

Location (revised).--Lat 30°35'43", long 83°15'35", in NW¼ sec.7, T.2 N., R.11 E., on right bank 30 ft downstream from highway bridge, 0.1 mile downstream from small tributary, 0.3 mile west of Bellville, and 5.6 miles east of Pinetta, Madison County.

Drainage area.--2,220 sq mi, approximately.

Records available.--October 1931 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 47.21 ft above mean sea level (levels by Corps of Engineers). Prior to Dec. 3, 1941, chain or wire-weight gage at same site and datum.

Average discharge.--29 years (1931-60), 1,518 cfs.

Extremes.--1931-60: Maximum discharge, 79,400 cfs Apr. 5, 1948 (gage height, 38.64 ft, from floodmarks); minimum, 70 cfs Aug. 23, 1955 (gage height, 6.27 ft).
Maximum stage known, that of Apr. 5, 1948. Flood in August 1928 reached a stage of 36.75 ft, from floodmarks (discharge, 53,600 cfs).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	111	104	140	211	340	780	2,744	499	296	183	256	163	483
1952	203	494	1,699	1,849	2,946	4,181	2,097	653	726	151	238	276	1,288
1953	194	131	141	489	2,238	2,235	3,611	795	428	1,139	1,298	1,676	1,186
1954	2,556	478	3,418	3,555	1,044	1,062	626	265	161	145	119	96.5	1,136
1955	85.7	78.1	92.4	144	547	238	759	338	178	88.3	89.7	236	236
1956	107	88.6	92.8	139	1,180	1,287	529	2,995	252	379	331	153	629
1957	773	225	157	225	191	851	2,199	1,531	2,674	1,166	498	1,625	1,009
1958	2,502	1,343	3,495	2,410	2,577	5,171	8,485	2,759	2,454	4,151	1,055	295	3,061
1959	156	150	133	330	4,771	12,280	4,311	2,787	4,574	1,833	1,092	611	2,740
1960	631	1,077	1,281	1,903	4,756	4,200	9,831	1,293	432	773	761	504	2,266

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.06	0.05	0.07	0.11	0.16	0.41	1.38	0.26	0.15	0.10	0.13	0.08	2.96
1952	.11	.25	.88	.96	1.43	2.17	1.05	.34	.36	.08	.12	.14	7.89
1953	.10	.07	.07	.25	1.05	1.16	1.81	.41	.22	.59	.67	.84	7.24
1954	1.33	.24	1.78	1.85	.49	.55	.31	.14	.08	.08	.06	.05	6.96
1955	.04	.04	.05	.07	.26	.12	.38	.18	.09	.05	.05	.12	1.45
1956	.06	.04	.05	.07	.57	.67	.27	1.56	.13	.20	.17	.08	3.87
1957	.40	.11	.08	.12	.09	.44	1.11	.80	1.34	.61	.26	.82	6.18
1958	1.30	.68	1.81	1.25	1.21	2.69	4.26	1.43	1.23	2.16	.55	.15	18.72
1959	.08	.08	.07	.17	2.24	6.38	2.17	1.45	2.30	.95	.57	.31	16.77
1960	.33	.54	.67	.99	2.31	2.18	4.94	.67	.22	.40	.40	.25	13.90

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	496	3.03
1951	1204	5,280	Apr. 7, 1951	90	483	0.215	2.96	655	4.02
1952	1234	5,870	Mar. 5, 1952	102	1,288	.580	7.89	1,125	6.89
1953	1274	7,180	Apr. 20, 1953	120	1,186	.534	7.24	1,694	10.55
1954	1334	6,800	Oct. 6, 1953	88	1,136	.512	6.96	611	3.74
1955	1384	1,960	Apr. 23, 1955	73	236	.106	1.45	239	1.47
1956	1434	8,530	May 15, 1956	76	629	.283	3.87	702	4.31
1957	1504	6,340	June 15, 1957	99	1,009	.455	6.18	1,531	9.38
1958	1554	17,200	Apr. 20, 1958	178	3,061	1.38	18.72	2,478	15.16
1959	1624	21,600	Mar. 12, 1959	123	2,740	1.23	16.77	2,954	18.08
1960	1704	29,800	Apr. 10, 1960	260	2,266	1.02	15.90	-	-

3195. Suwannee River at Ellaville, Fla.

Location (revised).--Lat 30°23'04", long 83°10'19", in NE¹ sec.24, T.1 S., R.11 E., on left bank at Ellaville, Suwannee County, 100 ft upstream from Seaboard Air Line Railroad bridge, 200 ft downstream from Withlacoochee River, and 900 ft upstream from bridge on U.S. Highway 90.

Drainage area.--6,580 sq mi, approximately.

Records available.--January 1927 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 27.22 ft above mean sea level, datum of 1929. Prior to June 20, 1932, staff gage at same site and datum. Since Nov. 8, 1955, auxiliary staff gage 1.1 miles downstream.

Average discharge.--33 years (1927-60), 6,249 cfs.

Extremes.--1927-60: Maximum discharge, 95,300 cfs Apr. 7, 8, 1948 (gage height, 40.88 ft, from floodmarks); minimum, 882 cfs July 17, 1955 (gage height, 1.69 ft).

Remarks.--Since Nov. 7, 1953, slight regulation at low water caused by diversions above control 0.7 mile downstream from gage by a steam-electric powerplant for cooling of condensers. Total diverted flow is returned to river below control. Records include flow of large spring on left bank about 200 ft downstream; spring flow may reverse during high stages.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,975	3,536	2,195	2,110	2,301	2,817	7,765	3,044	1,739	1,566	2,477	2,923	2,948
1952	4,192	7,023	6,895	9,093	8,452	13,229	8,600	3,632	3,513	1,904	1,790	1,882	5,843
1953	1,863	1,470	1,375	1,829	5,295	6,715	8,504	4,748	2,449	3,763	5,749	8,872	4,368
1954	14,800	4,720	8,171	12,860	5,742	3,998	2,834	1,972	1,577	1,452	1,307	1,205	5,075
1955	1,099	996	978	1,024	1,540	1,240	1,841	1,410	1,084	917	1,010	2,473	1,296
1956	1,886	1,212	1,009	1,014	2,657	3,797	2,383	6,674	2,304	2,646	2,103	1,544	2,441
1957	2,406	1,635	1,216	1,333	1,189	1,947	5,197	4,015	9,269	5,347	4,218	4,877	3,555
1958	9,144	4,319	10,120	7,648	7,485	13,310	19,440	13,650	8,256	13,090	6,227	3,334	9,696
1959	2,227	1,915	1,691	2,465	9,241	30,500	22,730	9,692	14,750	9,175	7,611	5,055	9,744
1960	3,833	5,460	4,278	5,687	9,527	15,900	21,840	8,340	4,214	6,696	7,997	5,546	8,258

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.52	0.60	0.38	0.37	0.36	0.49	1.32	0.53	0.29	0.27	0.43	0.50	6.06
1952	.73	1.19	1.21	1.59	1.39	2.32	1.46	.64	.60	.33	.31	.32	12.09
1953	.33	.25	.24	.32	.84	1.18	1.44	.83	.42	.66	1.01	1.50	9.02
1954	2.59	.80	1.43	2.25	.91	.70	.48	.35	.27	.25	.23	.20	10.46
1955	.19	.17	.17	.18	.24	.22	.31	.25	.18	.16	.18	.42	2.67
1956	.33	.21	.18	.18	.44	.67	.40	1.17	.39	.46	.37	.26	5.06
1957	.42	.28	.21	.23	.19	.34	.88	.70	1.57	.94	.74	.83	7.33
1958	1.60	.73	1.77	1.34	1.18	2.33	3.50	2.39	1.40	2.29	1.09	.57	19.99
1959	.39	.32	.30	.43	1.46	5.34	3.85	1.70	2.50	1.61	1.33	.86	20.09
1960	.67	.93	.75	1.00	1.56	2.79	3.70	1.46	.71	1.17	1.40	.94	17.08

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	3,041	6.27
1951	1204	10,100	Apr. 9, 1951	1,420	2,948	0.448	6.06	3,737	7.69
1952	1234	14,300	Mar. 7, 1952	1,660	5,843	.888	12.09	4,723	9.78
1953	1274	al2,500	Apr. 21, 22, 1953	1,340	4,368	.664	9.02	6,311	13.02
1954	1334	19,200	Oct. 8, 9, 10, 1953	1,180	5,075	.771	10.46	2,994	6.17
1955	1384	4,220	Sept. 21, 1955	890	1,296	.197	2.67	1,383	2.86
1956	1434	11,700	May 14, 15, 1956	896	2,441	.371	5.06	2,537	5.25
1957	1504	14,300	June 15, 16, 1957	1,160	3,555	.540	7.33	5,104	10.52
1958	1554	27,700	Apr. 24, 1958	2,600	9,696	1.47	19.99	8,195	16.90
1959	1624	45,400	Mar. 25, 1959	1,580	9,744	1.48	20.09	10,390	21.43
1960	1704	31,700	Apr. 15, 1960	2,990	8,258	1.26	17.08	-	-

a Maximum peak discharge not previously published; maximum discharge during year, 14,600 cfs Sept. 30, 1953, stage rising.

3205. 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, Suwannee County, 10½ miles upstream from Santa Fe River.

Drainage area--7,090 sq mi, approximately.

Records available--July 1931 to September 1960.

Gage--Wire-weight gage. 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--29 years (1931-60), 6,436 cfs.

Extremes--1931-60: Maximum discharge, 83,900 cfs Apr. 11, 1948 (gage height, 34.07 ft); minimum, 1,530 cfs July 1, 2, 1955; minimum gage height, 1.97 ft Jan. 10, 11, 14, 17, 1956.

Maximum stage known, that of Apr. 11, 1948.

Remarks--Records of chemical analyses and water temperatures for the period January 1954 to September 1957 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4,220	4,825	3,105	2,865	3,024	3,228	7,930	4,402	2,713	2,420	3,180	3,674	3,795
1952	4,987	7,617	7,591	9,905	8,989	13,280	10,420	5,398	4,881	3,119	2,725	2,792	6,801
1953	2,857	2,433	2,249	2,480	5,137	6,972	8,475	6,710	3,819	4,292	6,322	9,581	5,091
1954	14,360	6,560	8,077	13,410	7,384	5,237	3,972	3,013	2,532	2,324	2,120	2,008	5,928
1955	1,907	1,754	1,700	1,684	2,050	1,905	2,366	2,102	1,752	1,610	1,678	2,937	1,950
1956	2,604	1,848	1,655	1,623	2,878	4,292	2,994	6,205	3,337	3,406	2,837	2,170	2,992
1957	3,105	2,425	1,904	1,903	1,699	2,194	5,273	4,590	9,387	6,981	5,581	5,643	4,228
1958	10,140	5,784	10,230	8,856	8,504	13,000	17,540	15,050	9,087	12,940	7,928	4,918	10,560
1959	3,526	3,064	2,740	3,240	8,098	23,000	24,260	10,940	16,330	10,080	8,612	6,299	10,000
1960	5,342	6,241	4,988	6,470	8,556	15,030	19,860	10,550	5,851	7,223	8,843	7,070	8,827

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.69	0.76	0.50	0.47	0.44	0.52	1.25	0.72	0.43	0.39	0.52	0.58	7.27
1952	.81	1.20	1.23	1.61	1.37	2.16	1.64	.88	.77	.51	.44	.44	13.06
1953	.46	.38	.37	.40	.75	1.12	1.33	1.09	.60	.70	1.03	1.51	9.74
1954	2.33	1.03	1.31	2.18	1.08	.85	.63	.49	.40	.38	.34	.32	11.34
1955	.31	.28	.28	.27	.30	.31	.37	.34	.28	.26	.27	.46	3.73
1956	.42	.29	.27	.26	.44	.70	.47	1.01	.53	.55	.46	.34	5.74
1957	.50	.38	.31	.31	.25	.36	.83	.75	1.48	1.14	.91	.89	8.11
1958	1.65	.91	1.66	1.44	1.25	2.11	2.76	2.45	1.43	2.10	1.29	.77	19.82
1959	.57	.48	.45	.53	1.19	3.74	3.82	1.78	2.57	1.64	1.40	.99	19.16
1960	.87	.98	.81	1.05	1.30	2.44	3.12	1.72	.92	1.17	1.44	1.11	16.93

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	3,959	7.59
1951	1204	9,480	Apr. 11, 12, 1951	2,200	3,795	0.535	7.27	4,471	8.56
1952	1234	13,700	Mar. 9, 16-19, 1952	2,600	6,801	.959	13.06	5,743	11.03
1953	1274	all, 600	Apr. 24, 1953	2,150	5,091	.718	9.74	6,902	13.20
1954	1334	16,700	Oct. 10-12, 1953	1,980	5,928	.836	11.34	3,933	7.54
1955	1384	4,320	Sept. 23, 1955	1,530	1,950	.275	3.73	2,013	3.84
1956	1434	9,190	May 16, 1956	1,540	2,992	.422	5.74	3,103	5.95
1957	1504	13,200	June 19, 1957	1,640	4,228	.598	8.11	5,809	11.14
1958	1554	23,400	Apr. 27, 28, 1958	4,010	10,360	1.46	19.82	8,936	17.10
1959	1624	34,100	Mar. 29, 1959	2,680	10,000	1.41	19.16	10,610	20.32
1960	1704	25,400	Apr. 19, 1960	4,440	8,827	1.24	16.93	-	-

a Maximum peak discharge (not previously published); maximum discharge during year, 12,000 cfs Sept. 30, 1953, stage rising.

3207. Santa Fe River near Graham, Fla.

Location--Lat 29°50'46", long 82°13'11", in NE $\frac{1}{4}$ sec.32, T.7 S., R.21 E., near right bank on upstream side of bridge on State Highway 225, 1 mile south of Graham, Bradford County, and 1.5 miles upstream from Sampson River.

Drainage area--135 sq mi, approximately.

Records available--August 1957 to September 1960.

Gage--Water-stage recorder. Datum of gage is 103.55 ft above mean sea level, datum of 1929.

Extremes--1957-60: Maximum discharge, 1,120 cfs May 21, 1959 (gage height, 13.39 ft); minimum, 1.8 cfs June 22, 1958 (gage height, 4.24 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	-	-	25.7	-
1958	43.4	3.77	4.58	12.0	29.3	160	81.8	26.1	6.58	78.7	49.8	21.5	43.4
1959	7.44	37.1	46.3	108	49.2	387	147	254	180	103	58.6	194	132
1960	181	61.0	27.4	20.2	45.6	229	88.4	30.7	32.1	271	236	226	121

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	-	-	0.21	-
1958	0.37	0.03	0.04	0.10	0.23	1.37	0.68	0.22	0.05	0.67	0.42	.18	4.36
1959	.06	.31	.40	.92	.38	3.31	1.22	2.17	1.49	.88	.50	1.61	13.25
1960	1.54	.50	.23	.17	.36	1.95	.73	.26	.27	2.32	2.01	1.87	12.21

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1957	1624	all 0	Sept. 10, 1957	-	-	-	-	-	-
1958	1624	434	July 5, 1958	1.9	43.4	0.321	4.36	46.6	4.69
1959	1624	1,120	May 21, 1959	2.4	132	.978	13.25	147	14.75
1960	1704	1,020	Mar. 18, 1960	4.0	121	.896	12.21	-	-

a Maximum during period August to September.

3210. 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, Union County.

Drainage area.--212 sq mi.

Records available.--January 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 83.8 ft above mean sea level, datum of 1929.

Average discharge.--10 years (1950-60), 142 cfs.

Extremes.--1950-60: Maximum discharge, 6,470 cfs Sept. 8, 1950 (gage height, 12.02 ft); minimum, 0.2 cfs for several days in June 1955; minimum gage height, 0.52 ft Aug. 20, 21, 1954.

Remarks.--Records of chemical analyses and water temperatures for the period October 1957 to September 1958 are published in report of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	899	63.8	26.5	25.6	31.9	55.0	33.1	4.08	2.38	3.60	11.5	15.3	98.9
1952	20.2	114	28.5	23.1	235	106	26.9	6.35	18.2	14.0	25.7	108	59.4
1953	85.7	8.36	4.52	126	48.5	63.5	566	12.6	13.6	13.0	507	516	163
1954	570	74.2	781	178	30.3	23.2	32.8	4.69	1.33	3.55	2.51	64.4	149
1955	22.6	4.14	5.14	19.7	96.9	8.80	4.88	1.16	.85	56.5	24.5	18.9	21.5
1956	7.66	9.83	4.49	10.2	50.1	12.7	2.52	73.1	29.3	193	17.6	74.3	40.5
1957	488	45.4	8.05	5.64	5.81	13.5	17.0	22.6	556	42.5	161	64.2	120
1958	120	7.22	15.5	44.9	119	567	280	58.1	35.1	205	163	12.6	136
1959	4.39	16.4	84.1	48.7	242	1,491	314	801	266	149	53.2	487	368
1960	232	41.6	21.4	24.1	213	855	358	15.9	82.7	508	281	582	268

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4.89	0.34	0.14	0.14	0.16	0.30	0.17	0.02	0.01	0.02	0.06	0.08	6.33
1952	.11	.60	.15	.13	1.20	.58	.14	.03	.10	.08	.14	.57	3.83
1953	.47	.04	.02	.68	.24	.35	2.98	.07	.07	.07	2.76	2.71	10.46
1954	3.10	.39	4.25	.97	.15	.13	.17	.03	.007	.02	.01	.34	9.57
1955	.12	.02	.03	.11	.48	.05	.03	.006	.004	.31	.13	.10	1.39
1956	.04	.05	.02	.06	.25	.07	.01	.40	.15	1.05	.10	.39	2.59
1957	2.65	.24	.04	.03	.03	.07	.09	.12	2.95	.25	.88	.34	7.65
1958	.65	.04	.08	.24	.59	3.08	1.47	.32	.18	1.11	.89	.07	8.72
1959	.02	.09	.46	2.65	1.19	8.11	1.65	4.35	1.40	.81	.29	2.56	23.58
1960	1.26	.22	.12	.13	1.09	4.65	1.88	.09	.44	2.76	1.53	3.06	17.23

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	202	12.92
1951	1204	5,770	Oct. 21, 1950	0.7	98.9	0.467	6.33	28.6	1.82
1952	1234	794	Feb. 20, 1952	1.5	59.4	.280	3.63	54.3	3.50
1953	1274	2,550	Aug. 28, 1953	7	183	.769	10.46	276	17.67
1954	1334	2,640	Dec. 26, 1953	.3	149	.703	9.57	31.1	2.00
1955	1384	378	Feb. 9, 1955	.2	21.5	.101	1.39	20.7	1.33
1956	1434	780	July 3, 1956	1.0	40.5	.191	2.59	84.4	5.41
1957	1504	3,440	June 9, 1957	2.0	120	.566	7.65	85.7	5.49
1958	1554	1,350	Mar. 3, 1958	5.2	156	.642	8.72	135	8.52
1959	1624	4,900	May 23, 1959	2.0	368	1.74	23.58	384	24.61
1960	1704	4,390	Mar. 19, 1960	1.3	268	1.26	17.23	-	-

3215. 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 center of span on downstream side of bridge on State Highway 23, half a mile south of Worthington, Union County, and three-quarters of a mile downstream from New River.

Drainage area.--630 sq mi, approximately.

Records available.--October 1931 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 42.74 ft 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. 16, 1939, to July 23, 1953, wire-weight gage at same site and datum.

Average discharge.--29 years (1931-60), 423 cfs.

Extremes.--1931-60: Maximum discharge, 17,500 cfs June 17, 1934; maximum gage height, 24.94 ft Oct. 21, 1944; minimum discharge, 0.5 cfs June 24, 1955 (gage height, 6.74 ft).

Remarks.--Records do not include diversions, during periods of high stages, from Santa Fe Lake through Lochloosa Creek in St. Johns River basin. Records of chemical analyses and water temperatures for the period July 1957 to September 1960 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,155	417	192	167	144	144	131	19.6	12.7	26.1	78.3	138	305
1952	120	359	185	129	651	370	130	50.0	30.2	27.0	28.4	102	176
1953	195	55.3	24.9	249	149	144	1,118	118	142	134	1,423	1,477	435
1954	1,307	379	1,801	779	248	157	102	30.9	12.7	14.6	9.86	165	421
1955	119	20.5	22.7	80.4	353	52.2	31.1	8.27	5.05	162	57.0	56.8	79.0
1956	10.2	15.8	9.61	23.1	87.8	32.1	7.11	89.5	18.3	222	49.0	91.7	54.8
1957	750	200	51.3	27.8	21.0	54.9	65.2	46.7	1,263	290	549	239	297
1958	343	59.5	74.7	166	262	1,460	768	333	150	759	437	93.2	412
1959	31.6	130	268	1,047	647	3,303	944	1,716	1,263	686	303	982	947
1960	1,121	308	149	132	383	1,917	739	142	196	1,188	1,265	1,249	735

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3.94	0.74	0.35	0.31	0.24	0.26	0.23	0.04	0.02	0.05	0.14	0.24	6.56
1952	.22	.64	.34	.24	1.08	.68	.23	.05	.05	.05	.05	.18	3.81
1953	.36	.10	.05	.46	.25	.26	1.98	.22	.25	.25	2.60	2.62	9.40
1954	2.39	.67	3.30	1.43	.41	.29	.18	.06	.02	.03	.02	.29	9.09
1955	.22	.04	.04	.15	.58	.10	.06	.02	.009	.30	.10	.10	1.72
1956	.02	.03	.02	.04	.15	.06	.01	.16	.03	.41	.09	.16	1.18
1957	1.37	.35	.09	.05	.03	.10	.11	.09	2.24	.53	1.00	.42	6.38
1958	.63	.11	.14	.30	.43	2.67	1.36	.61	.27	1.39	.80	.17	8.88
1959	.06	.23	.49	1.92	1.07	6.04	1.67	3.14	2.24	1.26	.55	1.74	20.41
1960	2.05	.55	.27	.24	.66	3.51	1.31	.26	.35	2.17	2.31	2.21	15.89

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	520	11.20
1951	1204	a8,760	Oct. 22, 1950	3.1	305	0.484	6.56	127	2.73
1952	1234	1,450	Feb. 20, 1952	-	176	.279	3.81	144	3.12
1953	1274	6,120	Aug. 29, 1943	21	435	.690	9.40	707	15.25
1954	1334	5,530	Dec. 27, 1953	5.7	421	.668	9.09	140	3.03
1955	1384	918	Feb. 11, 1955	.6	79.0	.125	1.72	68.3	1.49
1956	1434	555	July 5, 1956	1.0	54.8	.087	1.18	136	2.92
1957	1504	5,940	June 11, 1957	16	297	.471	6.38	253	5.45
1958	1554	2,230	Mar. 4, 1958	28	412	.654	8.88	407	8.78
1959	1624	8,490	Mar. 21, 1959	16	947	1.50	20.41	1,044	22.50
1960	1704	7,590	Mar. 20, 1960	30	735	1.17	15.89	-	-

a Maximum observed.

3217. Swift Creek near Lake Butler, Fla.

Location.--Lat 30°03', long 82°25', in sec.16, T.5 S., R.19 E., near center of span on downstream side of bridge on State Highway 100 at Guilford, 5 miles northwest of town of Lake Butler, Union County.

Drainage area.--27 sq mi, approximately.

Records available.--August 1957 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 109.56 ft above mean sea level, datum of 1929 (Florida Geodetic Survey bench mark).

Extremes.--1957-60: Maximum discharge, 913 cfs Mar. 18, 1960 (gage height, 8.61 ft); no flow at times.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	-	-	17.1	-
1958	19.0	1.09	4.38	14.5	25.1	106	102	27.1	8.57	41.1	61.5	10.9	35.2
1959	.12	.75	5.90	97.1	46.6	305	71.7	195	104	22.3	22.7	80.1	79.8
1960	75.3	28.1	14.3	14.2	62.1	236	41.2	5.49	5.21	43.7	50.7	60.2	53.2

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	-	-	0.71	-
1958	0.81	0.05	0.19	0.62	0.97	4.52	4.20	1.16	0.35	1.76	2.63	.45	17.71
1959	.005	.03	.25	4.15	1.80	13.04	2.96	8.35	4.29	.95	.97	3.31	40.10
1960	3.21	1.16	.61	.60	2.48	10.09	1.70	.23	.22	1.86	2.17	2.49	26.82

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1957	1554	all 2	Aug. 13, 1957	-	-	-	-	-	-	-	-
1958	1554	226	Apr. 10, 1958	0	35.2	1.30	17.71	33.7	16.94		
1959	1624	832	May 22, 1959	0	79.8	2.96	40.10	89.1	44.80		
1960	1704	913	Mar. 18, 1960	0	53.2	1.97	26.82	-	-		

a Maximum during period August to September.

3218. Olustee Creek near Providence, Fla.

Location.--Lat 30°00', long 82°34', in sec.36, T.5 S., R.17 E., on upstream side of bridge on State Highway 238, 1.5 miles west of Providence, Union County, 6.1 miles upstream from mouth, and 13.8 miles west of Lake Butler.

Drainage area.--150 sq mi, approximately.

Records available.--October 1957 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 53.35 ft above mean sea level, datum of 1929 (State Road Department bench mark).

Extremes.--1957-60: Maximum discharge, 5,690 cfs May 22, 1959 (gage height, 11.69 ft); minimum, 0.1 cfs Oct. 18, 1958 (gage height, 2.53 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	111	3.92	16.2	58.9	86.4	388	376	32.4	15.4	101	169	15.9	115
1959	.79	2.62	8.14	185	69.4	919	168	772	357	101	29.8	162	233
1960	197	67.3	25.1	22.6	266	756	115	18.8	21.0	189	248	176	175

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	0.85	0.03	0.12	0.45	0.60	2.99	2.79	0.25	0.11	0.78	1.30	0.12	10.39
1959	.006	.02	.06	1.42	.48	7.07	1.25	5.94	2.66	.78	.23	1.21	21.13
1960	1.51	.50	.19	.17	1.91	5.81	.85	.14	.16	1.45	1.91	1.31	15.91

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1958	1554	1,760	Apr. 12, 1958	0.9	115	0.767	10.39	105	9.48		
1959	1624	5,690	May 22, 1959	.2	233	1.55	21.13	257	23.24		
1960	1704	3,940	Mar. 18, 1960	1.2	175	1.17	15.91	-	-		

3220. 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, Alachua County.

Drainage area.--950 sq mi, approximately.

Records available.--January 1931 to September 1960.

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. Since Oct. 1, 1947, water-stage recorder for station near Fort White used as an auxiliary gage for this station.

Average discharge.--29 years (1931-60), 784 cfs.

Extremes.--1931-60: Maximum discharge, 12,700 cfs Mar. 14, 1948 (gage height, 15.71 ft, from floodmarks); minimum, 31 cfs Apr. 28 to May 5, 1956; minimum gage height, 0.38 ft May 21, 22, 1957.

Remarks.--Records of chemical analyses and water temperatures for the period October 1959 to September 1960 are published in report of the Geological Survey.

Revisions.--Some periods for the water year 1948 were revised in WSP 1704, the resulting revised records, in cubic feet per second, as summarized herewith supersede those published in WSP 1304.

Month	Mean	Per square mile	Runoff in inches
November 1947.....	2,917	3.07	3.43
December.....	1,787	1.88	2.17
Calendar year 1947.....	1,266	1.33	18.11
January 1948.....	1,448	1.52	1.76
April.....	3,540	3.73	4.16
Water year 1947-48.....	2,142	2.26	30.71
Calendar year 1948.....	1,883	1.98	26.97

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,533	1,616	785	605	519	510	520	365	275	257	360	377	729
1952	471	589	421	350	662	806	510	321	336	290	235	269	437
1953	338	230	193	306	275	275	1,112	545	359	358	949	2,094	583
1954	2,037	902	1,803	1,896	862	627	519	385	293	248	223	265	842
1955	314	193	151	150	391	219	154	118	112	150	163	102	184
1956	79.4	85.4	61.2	52.8	68.1	57.1	38.9	72.5	63.6	184	110	105	81.7
1957	520	425	152	94.5	71.5	69.6	100	81.8	1,325	579	1,012	542	415
1958	814	386	326	348	434	1,527	1,430	960	629	1,042	872	532	778
1959	324	339	360	1,133	1,065	3,546	2,264	2,578	2,835	1,641	1,143	1,418	1,556
1960	1,789	1,180	817	690	843	2,500	1,883	999	784	1,409	1,989	1,855	1,396

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3.07	1.90	0.95	0.73	0.57	0.62	0.61	0.44	0.32	0.31	0.44	0.44	10.40
1952	.57	.69	.51	.42	.75	.98	.60	.39	.39	.35	.29	.32	6.26
1953	.41	.27	.23	.37	.30	.33	1.31	.66	.40	.43	1.15	2.46	8.32
1954	2.47	1.06	2.19	2.30	.94	.76	.61	.47	.34	.30	.27	.31	12.02
1955	.38	.23	.18	.18	.43	.27	.18	.14	.13	.18	.20	.12	2.62
1956	.10	.10	.07	.06	.08	.07	.05	.09	.07	.22	.13	.12	1.16
1957	.63	.50	.18	.11	.08	.08	.12	.10	1.56	.70	1.23	.64	5.93
1958	.99	.45	.40	.42	.46	1.85	1.68	1.16	.74	1.26	1.06	.62	11.11
1959	.39	.40	.44	1.38	1.17	4.30	2.63	5.13	3.33	1.99	1.39	1.66	22.24
1960	2.17	1.36	0.99	.84	.96	3.03	2.21	1.21	.92	1.71	2.41	2.18	19.99

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	941	13.44
1951	1204	7,230	Oct. 25, 1950	235	729	0.767	10.40	439	6.25
1952	1234	1,220	Mar. 1, 1952	223	437	.460	6.26	377	5.40
1953	1274	3,820	Sept. 2, 1953	180	583	.614	8.32	919	13.13
1954	1334	4,040	Dec. 30, 1953	203	842	.886	12.02	497	7.09
1955	1384	608	Feb. 14, 15, 1955	81	184	.194	2.62	147	2.10
1956	1434	299	July 10, 11, 12	31	81.7	.086	1.16	155	2.20
1957	1504	3,520	June 14, 1957	63	415	.437	5.93	452	6.46
1958	1554	1,750	(a)	282	778	.819	11.11	735	10.50
1959	1624	b7,700	Mar. 23, 1959	259	1,556	1.64	22.24	1,787	25.53
1960	1704	5,790	Mar. 22, 1960	627	1,396	1.47	19.99	-	-

a Mar. 12, 13, Apr. 15, 1958.

b Maximum daily.

3225. 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, Columbia County, and 15 miles upstream from mouth.

Drainage area.--1,080 sq mi, approximately.

Records available.--October 1927 to January 1930, June 1932 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 20.86 ft above mean sea level (levels by Corps of Engineers). Prior to June 3, 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.--30 years (1927-29, 1932-60), 1,599 cfs.

Extremes.--1927-30, 1932-60: Maximum discharge, 12,300 cfs Mar. 14, 1948; maximum gage height, 13.70 ft Apr. 12, 1948; minimum discharge, 609 cfs May 22, 1957; minimum gage height, 0.45 ft Mar. 20, 1957.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3,385	2,637	1,722	1,492	1,346	1,290	1,287	1,152	1,083	1,066	1,137	1,133	1,563
1952	1,145	1,266	1,216	1,139	1,390	1,603	1,233	1,042	996	928	927	1,019	1,158
1953	1,109	963	914	1,028	992	989	1,859	1,321	1,106	1,087	1,636	3,094	1,340
1954	3,089	1,861	2,654	3,046	1,835	1,526	1,368	1,246	1,120	1,090	1,057	1,080	1,751
1955	1,080	925	892	885	1,095	970	909	874	838	882	816	756	909
1956	730	712	679	678	691	673	671	738	679	838	811	780	724
1957	1,202	1,115	813	728	703	670	684	636	2,090	1,370	1,697	1,256	1,081
1958	1,632	1,149	1,050	1,051	1,127	2,075	2,163	1,673	1,257	1,689	1,538	1,284	1,477
1959	1,104	1,110	1,158	1,833	1,789	4,238	3,515	3,409	4,063	2,625	2,031	2,211	2,426
1960	2,593	2,031	1,653	1,511	1,658	3,409	2,822	1,963	1,660	2,259	2,895	2,764	2,271

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3.61	2.72	1.84	1.59	1.30	1.38	1.33	1.23	1.12	1.14	1.21	1.17	19.64
1952	1.22	1.51	1.30	1.22	1.39	1.71	1.27	1.11	1.03	.99	.99	1.05	14.59
1953	1.18	.99	.98	1.10	.96	1.06	1.92	1.41	1.14	1.16	1.75	3.20	16.88
1954	3.30	1.92	2.83	3.25	1.77	1.63	1.41	1.33	1.16	1.16	1.13	1.12	22.01
1955	1.15	.96	.95	.94	1.06	1.04	.94	.93	.86	.94	.87	.78	11.42
1956	.78	.74	.73	.72	.69	.72	.69	.79	.70	.90	.87	.81	9.14
1957	1.28	1.15	.87	.78	.68	.72	.71	.68	2.16	1.46	1.81	1.30	13.60
1958	1.74	1.19	1.12	1.12	1.09	2.22	2.23	1.79	1.30	1.80	1.64	1.33	18.57
1959	1.18	1.15	1.24	1.96	1.72	4.52	3.63	3.64	4.20	2.80	2.17	2.28	30.49
1960	2.77	2.10	1.76	1.61	1.66	3.64	2.92	2.10	1.71	2.41	3.09	2.86	28.63

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	1,759	22.12
1951	1204	7,520	Oct. 26, 1950	1,040	1,563	1.45	19.64	1,217	15.30	
1952	1234	2,020	Mar. 4, 1952	910	1,158	1.07	14.59	1,104	13.91	
1953	1274	a4,400	Sept. 3-5, 1953	896	1,340	1.24	16.85	1,730	21.75	
1954	1334	5,080	Dec. 31, 1953	1,010	1,751	1.62	22.01	1,554	17.02	
1955	1384	1,300	Feb. 15, 1955	724	909	.842	11.42	844	10.61	
1956	1434	1,050	July 18, 1956	633	724	.670	9.14	808	10.19	
1957	1504	4,140	June 15, 1957	617	1,081	1.00	13.60	1,141	14.35	
1958	1554	a2,450	Apr. 15, 21, 1958	988	1,477	1.37	18.57	1,438	18.09	
1959	1624	a7,970	Mar. 24, 1959	1,050	2,426	2.25	30.49	2,670	33.55	
1960	1704	a6,290	Mar. 23, 1960	1,430	2,271	2.10	28.63	-	-	

a Maximum daily.

3230. Suwannee River near Bell, Fla.

Location.--Lat 29°48', long 82°55', in secs. 16 or 17, T.8 S., R.14 E., on left bank at Rock Bluff Ferry, 4½ miles northwest of Bell, Gilchrist County, and 10 miles downstream from Santa Fe River.

Drainage area.--9,260 sq mi, approximately.

Records available.--June 1932 to December 1956.

Gage.--Water-stage recorder. Datum of gage is 3.60 ft above mean sea level (levels by Corps of Engineers).

Average discharge.--24 years (1932-56), 8,513 cfs.

Extremes.--1932-56: Maximum discharge, 82,300 cfs Apr. 13, 1948 (gage height, 27.43 ft); minimum, 2,460 cfs Jan. 10, 11, 1956 (gage height, 0.95 ft).
Maximum stage known prior to 1932, 25.9 ft, from floodmarks, about Aug. 28, 1928 (discharge, 74,000 cfs).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	7,605	8,227	5,892	5,285	5,182	5,508	9,814	6,463	4,382	3,920	4,675	5,117	6,001
1952	6,455	9,052	9,091	11,600	10,590	15,390	12,400	7,066	6,569	4,859	4,395	4,466	8,485
1953	4,650	4,118	3,785	4,081	6,435	8,306	10,520	8,823	5,616	5,879	8,148	12,680	6,910
1954	18,050	9,580	10,960	16,920	10,400	8,010	6,585	5,299	4,485	4,398	4,018	3,747	8,549
1955	3,550	3,231	3,121	3,208	3,880	3,544	3,882	3,437	3,106	2,937	2,870	3,978	3,390
1956	3,726	2,950	2,667	2,648	3,831	5,210	4,040	6,895	4,399	4,547	4,023	3,348	4,028
1957	4,370	4,026	3,277	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.95	0.99	0.73	0.66	0.58	0.69	1.18	0.80	0.53	0.49	0.58	0.62	8.80
1952	.80	1.09	1.13	1.44	1.23	1.92	1.49	.88	.79	.60	.55	.54	12.46
1953	.58	.50	.47	.51	.72	1.03	1.27	1.10	.68	.73	1.01	1.53	10.13
1954	2.25	1.15	1.36	2.11	1.17	1.00	.79	.66	.54	.55	.50	.45	12.53
1955	.44	.39	.39	.40	.44	.44	.47	.43	.37	.37	.36	.48	4.98
1956	.46	.36	.33	.33	.45	.65	.49	.86	.53	.57	.50	.40	5.93
1957	.54	.49	.41	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	6,390	9.36
1951	1204	11,700	Oct. 28, 1950	3,730	6,001	0.648	8.80	6,243	9.15
1952	1234	15,900	Mar. 11, 1952	4,160	8,485	.916	12.46	7,479	10.99
1953	1274	a14,100	Apr. 25, 1953	3,560	6,910	.746	10.13	9,106	13.34
1954	1334	20,700	Oct. 11-13, 1953	3,580	8,549	.923	12.53	6,130	8.99
1955	1384	5,250	Sept. 22, 1955	2,730	3,390	.366	4.98	3,343	4.91
1956	1434	9,580	May 17, 1956	2,490	4,028	.435	5.93	4,223	6.22
1957	1434	b5,000	Nov. 1, 1956	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-

a Maximum peak discharge; maximum discharge during year, 14,500 cfs Sept. 30, 1953, stage rising.

b Maximum during period October to December.

3235. 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, Gilchrist County.

Drainage area.--About 9,500 sq mi.

Records available.--October 1930 to September 1931, October 1941 to September 1960.

Monthly discharge only for some periods, published in WSP 1304.

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 about 9 miles downstream.

Average discharge.--20 years (1930-31, 1941-60), 10,240 cfs.

Extremes.--1930-31, 1941-60: Maximum discharge, 84,700 cfs Apr. 14, 1948 (gage height, 22.32 ft.

1951-60: Minimum daily, 3,270 cfs Feb. 24, 1957; minimum gage height, 0.5 ft Jan. 19, 1957.

Remarks.--Flow generally affected by tide for discharges less than 14,000 cfs.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	#8,226	#9,367	#6,568	#5,900	6,040	6,045	10,430	7,142	5,073	4,728	5,313	5,678	#6,704
1952	6,987	9,905	10,070	12,190	11,410	15,690	13,190	8,356	7,210	5,331	4,888	5,023	9,179
1953	5,239	4,865	4,590	4,662	7,204	9,212	10,600	9,475	6,132	6,401	8,832	12,860	7,496
1954	17,880	11,030	11,790	17,120	11,680	9,282	7,464	5,955	5,204	5,051	4,594	4,360	9,290
1955	4,263	4,128	4,078	4,088	4,541	4,387	4,742	4,422	4,174	4,104	3,958	4,644	4,291
1956	4,244	3,718	3,575	3,610	4,382	5,582	4,631	7,371	4,924	4,924	4,546	4,122	4,640
1957	4,788	4,399	3,880	3,799	3,602	3,796	6,116	5,691	11,180	10,000	8,690	8,383	6,201
1958	12,710	8,266	12,270	11,220	10,920	15,250	19,560	19,510	12,640	16,380	11,610	7,795	13,210
1959	6,074	5,597	5,273	6,381	10,340	24,910	31,220	16,340	21,690	15,480	13,820	10,820	13,990
1960	9,906	10,440	8,548	9,505	11,350	19,470	24,040	15,800	9,747	11,210	13,670	11,550	12,930

* Not previously published.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	#1.00	#1.10	#0.80	#0.72	0.66	0.73	1.22	0.87	0.60	0.57	0.64	0.67	#9.58
1952	.85	1.16	1.22	1.48	1.30	1.90	1.55	1.01	.85	.65	.59	.59	13.15
1953	.64	.57	.56	.57	.79	1.12	1.24	1.15	.72	.78	1.07	1.51	10.72
1954	2.17	1.30	1.43	2.08	1.28	1.13	.88	.72	.61	.61	.56	.51	13.28
1955	.52	.48	.49	.50	.50	.53	.56	.54	.49	.50	.48	.55	6.14
1956	.51	.44	.43	.44	.50	.68	.54	.89	.58	.60	.55	.48	6.64
1957	.58	.52	.47	.46	.39	.46	.72	.89	1.31	1.21	1.05	.98	8.84
1958	1.54	.97	1.49	1.36	1.20	1.85	2.30	2.37	1.48	1.99	1.41	.92	18.86
1959	.74	.66	.64	.77	1.13	3.02	3.67	1.98	2.55	1.88	1.68	1.27	19.99
1960	1.20	1.23	1.04	1.15	1.29	2.36	2.82	1.92	1.34	1.36	1.66	1.36	18.53

* Not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	#7,223	#10.31
1951	1204	12,400	Oct. 28-30, 1950	-	#6,704	#0.704	#9.58	#6,940	#9.91
1952	1234	16,700	Mar. 11, 1952	4,470	9,179	.966	13.15	8,154	11.69
1953	1274	13,900	Apr. 26, 1953	4,030	7,498	.789	10.72	9,888	13.85
1954	1334	20,000	Oct. 13-16, 1953	3,860	9,290	.978	13.28	6,911	9.87
1955	1384	a5,890	Apr. 28, 1955	3,680	4,291	.452	6.14	4,213	6.03
1956	1434	a10,300	May 17-18, 1956	3,340	4,640	.488	6.64	4,768	6.83
1957	1504	a15,100	June 19-21, 1957	3,270	6,201	.653	8.84	7,904	11.27
1958	1554	25,800	May 1, 1958	6,410	13,210	1.39	18.88	11,830	16.92
1959	1624	40,700	Apr. 2, 1959	4,950	13,990	1.47	19.99	14,990	21.42
1960	1704	28,600	Apr. 21, 22, 1960	8,000	12,930	1.36	18.53	-	-

* Not previously published.

a Maximum daily.

3240. Steinhatchee River near Cross City, Fla.

Location.--Lat 29°47'11", long 83°19'18", in NE¼ sec.16, T.8 S., R.10 E., on right bank 0.7 mile downstream from Atlantic Coast Line Railroad bridge, 0.7 mile south of Clara, and 16 miles northwest of Cross City, Dixie County.

Drainage area.--350 sq mi, approximately (revised).

Records available.--February 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 7.84 ft above mean sea level, datum of 1929.

Average discharge.--10 years (1950-60), 312 cfs.

Extremes.--1950-60: Maximum discharge, 4,320 cfs Oct. 4, 1957 (gage height, 15.84 ft); minimum, 3.4 cfs June 27, 28, 1950; minimum gage height, 2.44 ft June 27, 28, 1950, June 23, 24, 1955.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	227	132	87.4	72.1	86.5	227	250	23.0	16.6	32.6	437	175	148
1952	129	1,291	400	212	808	413	184	28.2	48.9	31.4	146	402	337
1953	347	35.5	23.7	126	121	53.5	695	96.0	208	476	590	1,453	351
1954	1,021	209	998	560	159	103	153	122	16.1	634	105	97.6	352
1955	66.3	13.0	31.3	61.5	329	59.9	30.3	10.5	9.50	22.0	42.0	174	68.8
1956	16.0	11.2	7.53	14.2	58.9	35.3	15.9	89.6	14.4	82.9	50.8	29.5	35.4
1957	262	51.4	22.4	15.5	13.0	53.9	87.4	137	925	503	478	725	273
1958	1,436	98.5	405	396	390	875	677	99.4	174	717	216	56.0	465
1959	97.5	108	67.8	464	239	1,889	490	611	621	780	585	880	573
1960	973	358	259	220	630	1,356	525	72.3	55.3	547	780	437	519

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.75	0.42	0.29	0.24	0.26	0.75	0.80	0.08	0.05	0.11	1.44	0.56	5.75
1952	.42	4.11	1.32	.70	2.49	1.36	.59	.09	.16	.10	.48	1.28	13.10
1953	1.14	.11	.08	.42	.36	.18	2.21	.32	.66	1.57	1.94	4.63	13.62
1954	3.36	.67	3.29	1.84	.47	.34	.49	.40	.05	2.09	.35	.31	13.66
1955	.22	.04	.10	.20	.98	.20	.10	.03	.03	.07	.14	.55	2.66
1956	.05	.04	.02	.05	.18	.12	.05	.30	.05	.27	.17	.09	1.39
1957	.86	.16	.07	.05	.04	.18	.28	.45	2.95	1.66	1.58	2.31	10.59
1958	4.73	.31	1.33	1.30	1.16	2.88	2.16	.33	.56	2.36	.71	.18	18.01
1959	.32	.34	.22	1.53	.71	6.22	1.56	2.01	1.98	2.57	1.93	2.81	22.20
1960	3.21	1.14	.85	.73	1.94	4.47	1.67	.24	.18	1.80	2.57	1.39	20.19

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	1172,1234	a2,540	July 11, 1950	-	-	-	-	-	-
1951	1204	948	Aug. 23, 1951	6.8	148	0.423	5.75	261	10.14
1952	1234	3,610	Nov. 19, 1951	7.2	337	.963	13.10	221	8.58
1953	1274	3,740	Sept. 30, 1953	8.3	351	1.00	13.62	506	19.61
1954	1334	b2,610	July 12, 1954	9.8	352	1.01	13.66	173	6.70
1955	1384	687	Feb. 13, 1955	6.8	68.8	.197	2.66	62.3	2.41
1956	1434	348	May 8, 1956	3.7	35.4	1.01	1.39	60.8	2.37
1957	1504	2,800	June 12, 1957	10	275	.780	10.59	409	15.87
1958	1554	4,320	Oct. 4, 1957	21	465	1.33	18.01	323	12.52
1959	1624	4,220	Mar. 19, 1959	30	573	1.64	22.20	684	26.52
1960	1704	2,700	Mar. 20, 1960	14	519	1.48	20.19	-	-

a Maximum during period February to September.

b Maximum peak discharge; maximum discharge during year, 3,740 cfs Oct. 1, 1953, stage falling.

3244. Fenholloway River near Foley, Fla.

Location.--Lat 30°05'53", long 83°28'19", in NE¼ sec.36, T.4 S., R.8 E., near left bank at downstream side of bridge on U.S. Highway 27, 1.8 miles upstream from small tributary and 4 miles northeast of Foley, Taylor County.

Drainage area.--About 70 sq mi.

Records available.--February to August 1955 (discharge measurements only), September 1955 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 53.59 ft above mean sea level, datum of 1929 (Florida State Road Department bench mark).

Average discharge.--5 years (1955-60), 85.3 cfs (61,750 acre-ft per year).

Extremes.--1955-60: Maximum discharge, 1,620 cfs June 9, 1957 (gage height, 14.08 ft); minimum, 1.9 cfs June 9, 1956, June 17, 1960; minimum gage height, 1.02 ft June 17, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	27.3	24.1	6.09	8.97	30.6	12.8	5.25	49.1	4.98	11.2	7.52	2.76	15.9
1957	22.5	3.76	2.32	2.07	2.20	5.26	9.52	54.0	478	65.6	69.6	295	83.6
1958	389	26.0	139	68.6	57.0	192	282	36.3	84.3	153	67.5	22.8	127
1959	5.09	9.30	3.40	39.7	47.9	377	162	122	123	150	75.2	119	103
1960	93.4	55.1	24.9	27.5	162	224	132	19.0	17.1	78.7	238	91.6	96.8

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	#1,680	#1,430	#374	#552	#1,760	#784	#312	#3,020	#296	#689	#462	#164	#11,520
1957	1,380	224	143	128	122	324	566	3,320	28,460	4,040	4,280	17,570	60,560
1958	23,900	1,550	8,530	4,220	3,170	11,800	16,810	2,230	5,020	9,390	4,150	1,360	92,130
1959	313	553	209	2,440	2,660	23,180	9,620	7,490	7,340	9,210	4,620	7,100	74,740
1960	5,740	3,280	1,530	1,690	9,300	13,800	7,840	1,170	1,020	4,840	14,640	5,450	70,300

* Not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30								Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff		
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet	
1956	1434	236	May 8, 1956	1.9	15.9	0.227	3.07	#11,520	13.5	2.61	9,790	
1957	1504	1,620	June 9, 1957	2.0	83.6	1.19	16.22	60,560	128	28.84	92,790	
1958	1554	1,290	Oct. 2, 1957	8.3	127	1.81	24.65	92,130	81.8	15.85	59,220	
1959	1624	695	Mar. 17, 1959	2.7	103	1.47	20.03	74,740	116	22.57	84,210	
1960	1704	601	Sept. 28, 1960	2.0	96.8	1.38	18.83	70,300	-	-	-	

* Not previously published.

3245. Fenholloway River at Foley, Fla.

Location.--Lat 30°03'53", long 83°32'01", in NW¼ sec.9, T.5 S., R.8 E., near center of span on downstream side of bridge on State Highway S356 in Foley, Taylor County, 0.4 mile south of Foley School, 0.8 mile downstream from clarifier flume of the Buckeye Cellulose Corp. plant, and 13 miles upstream from Spring Creek.

Drainage area.--About 80 sq mi.

Records available.--September 1946 to September 1960.

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 24, 1947, to Jan. 19, 1954, water-stage recorder, at same site and datum. Jan. 20, 1954, to May 5, 1959, water-stage recorder at site 900 ft upstream at same datum.

Extremes.--1946-60: Maximum discharge, 2,640 cfs Mar. 10, 1948 (gage height, 16.03 ft); maximum gage height, 16.57 ft June 9, 1957 (site then in use); minimum discharge, 5.1 cfs Oct. 15, 1950; minimum gage height, 6.40 ft Jan. 8, 9, 1950.

Remarks.--Since Feb. 1, 1954, natural flow of stream affected by large ground-water withdrawals by cellulose plant upstream. Records include return flow from plant.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	11.8	10.1	10.6	10.4	10.5	37.3	48.0	14.7	14.6	34.5	104	54.4	50.3
1952	65.7	310	129	81.8	232	111	50.6	14.3	14.3	11.9	114	63.8	98.9
1953	42.4	15.5	12.8	15.2	55.0	41.6	401	49.8	184	213	324	383	144
1954	210	37.3	180	121	46.9	37.9	33.3	49.9	43.4	75.5	87.3	50.8	81.9
1955	50.7	50.6	39.9	33.3	39.5	33.3	34.0	32.8	33.5	83.9	51.9	126	50.8
1956	61.0	72.0	40.0	43.3	74.3	63.4	49.6	104	41.8	64.1	63.5	48.5	60.4
1957	72.8	51.2	46.7	48.6	42.0	44.5	54.0	85.5	614	115	120	394	141
1958	527	83.2	214	130	114	285	411	80.5	130	210	125	65.1	199
1959	47.7	53.7	51.4	106	115	518	257	193	188	210	156	224	177
1960	190	146	111	118	254	336	243	77.7	74.9	119	365	192	185

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	726	603	650	639	584	2,290	2,860	906	871	2,120	6,420	3,240	21,910
1952	4,040	18,440	7,910	5,030	13,340	6,810	3,010	876	849	750	6,980	3,800	71,820
1953	2,600	924	785	932	3,050	2,580	23,890	3,060	10,950	13,120	19,900	22,810	104,600
1954	12,910	2,220	11,080	7,450	2,600	2,330	1,980	3,070	2,580	4,640	5,370	5,020	59,250
1955	3,120	3,010	2,450	2,050	2,190	2,040	2,020	2,020	2,000	5,160	3,190	7,500	36,750
1956	3,750	4,280	2,460	2,660	4,280	3,900	2,950	6,370	2,490	3,940	3,900	2,880	43,860
1957	4,470	3,040	2,870	2,990	2,330	2,740	3,210	5,880	36,530	7,090	7,350	23,460	102,000
1958	32,420	4,950	13,160	8,000	6,360	17,590	24,440	4,950	7,760	12,920	7,700	3,870	144,100
1959	2,930	3,200	3,160	6,500	6,390	31,850	15,310	11,870	11,200	12,920	9,560	13,360	128,200
1960	11,680	8,710	6,830	7,250	14,630	20,660	14,450	4,780	4,460	7,300	22,420	11,400	134,600

Note.--Figures given herein prior to October 1956, not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff		Mean	Runoff	
		Discharge	Date				Inches	Acre-feet		Inches	Acre-feet
1950	-	-	-	-	-	-	-	-	20.2	3.43	14,630
1951	1204	216	Mar. 31, 1951	6.3	30.3	0.379	5.13	21,910	69.5	11.79	50,320
1952	1234	842	Nov. 18, 1951	9.2	98.9	1.24	16.85	71,820	63.0	10.74	45,730
1953	1274	1,860	Sept. 28, 1953	11	144	1.80	24.52	104,600	175	29.66	126,500
1954	1334	4450	Dec. 27, 1953	17	81.9	-	-	59,250	57.5	-	41,620
1955	1384	258	Sept. 6, 1955	10	50.8	-	-	36,750	53.4	-	38,660
1956	1434	305	May 10, 1956	9.2	60.4	-	-	43,860	60.3	-	43,750
1957	1504	2,070	June 9, 1957	13	141	-	-	102,000	196	-	142,100
1958	1554	1,680	Oct. 2, 1957	17	199	-	-	144,100	142	-	102,900
1959	1624	750	(b)	-	177	-	-	128,200	202	-	146,200
1960	1704	914	Sept. 29, 30, 1960	57	185	-	-	134,600	-	-	-

a Maximum peak discharge; maximum discharge during year, 960 cfs Oct. 1, 1953, stage falling.

b Sometime during period Mar. 15-20, 1959.

Note.--Figures of runoff, in acre-feet, prior to 1957 water year, not previously published.

3260. Econfina River near Perry, Fla.

Location.--Lat 30°10'14", long 83°49'26", in NE $\frac{1}{4}$ sec.4, T.4 S., R.5 E., on right bank 10 ft downstream from highway bridge, 3.0 miles downstream from Natural Well Branch, 3.9 miles upstream from bridge on U.S. Highway 98, and 14.7 miles northwest of Perry, Taylor County.

Drainage area.--230 sq mi, approximately.

Records available.--February 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 14.35 ft above mean sea level, unadjusted.

Average discharge.--10 years (1950-60), 136 cfs.

Extremes.--1950-60: Maximum discharge, 2,540 cfs Sept. 17, 1957 (gage height, 12.78 ft); minimum, 2.3 cfs July 8, 1955; minimum gage height, 1.87 ft Mar. 2, 3, 1957.

Remarks.--Records are for flow in main channel only.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	25.4	19.0	24.0	19.1	17.6	39.2	44.3	23.1	25.4	28.2	87.7	63.0	34.8
1952	38.6	288	195	133	289	259	124	36.3	34.1	25.7	149	184	145
1953	87.9	31.5	27.4	32.7	146	85.3	398	107	359	147	225	285	160
1954	271	76.9	288	180	66.8	45.5	30.7	24.0	26.2	24.4	21.2	18.7	90.2
1955	14.9	11.0	10.7	12.6	21.3	14.5	13.2	7.73	4.80	4.49	28.1	74.8	18.1
1956	24.3	25.7	19.5	20.4	50.5	47.7	29.1	57.5	20.7	40.9	20.7	17.9	31.2
1957	21.2	14.3	12.1	9.47	7.50	9.97	27.0	28.9	432	204	357	1,266	198
1958	772	103	298	208	181	400	604	160	228	381	116	38.0	292
1959	24.6	27.4	20.9	45.0	96.9	746	364	124	207	171	150	185	181
1960	239	182	72.3	99.9	311	486	416	79.5	134	218	186	118	211

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.13	0.09	0.12	0.10	0.08	0.20	0.22	0.12	0.12	0.14	0.44	0.31	2.07
1952	.19	1.39	.98	.67	1.36	1.30	.60	.18	.17	.13	.75	.89	8.61
1953	.44	.15	.14	.16	.66	.42	1.93	.53	1.74	.74	1.13	1.38	9.42
1954	1.36	.37	1.45	.90	.30	.23	.15	.12	.13	.12	.11	.09	5.33
1955	.07	.05	.05	.06	.10	.07	.06	.04	.02	.02	.14	.36	1.04
1956	.12	.12	.10	.10	.24	.24	.14	.29	.10	.21	.10	.09	1.85
1957	.11	.07	.06	.05	.03	.05	.13	.14	2.10	1.02	1.79	6.14	11.69
1958	3.87	.50	1.49	1.04	.82	2.01	2.93	.80	1.10	1.91	.58	.18	17.23
1959	.12	.13	.10	.23	.44	3.74	1.77	.62	1.01	.86	.75	.90	10.67
1960	1.20	.88	.36	.50	1.46	2.44	2.02	.40	.65	1.09	.93	.57	12.50

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	1172	892	(b)	-	-	-	-	-	-
1951	1204	150	Aug. 10, 1951	16	34.8	0.151	2.07	72.5	4.29
1952	1234	557	Nov. 21, 1951	22	145	.630	8.61	114	6.78
1953	1274	758	Apr. 17, 1953	26	160	.696	9.42	201	11.87
1954	1334	636	Oct. 2, 1953	17	90.2	.392	5.33	39.5	2.32
1955	1384	164	Sept. 21, 1955	2.4	18.1	.079	1.04	20.8	1.21
1956	1434	120	May 15, 1956	13	31.2	.136	1.85	29.4	1.75
1957	1504	2,540	Sept. 17, 1957	6.6	198	.861	11.69	295	17.31
1958	1554	1,630	Oct. 3, 1957	31	292	1.27	17.23	199	11.72
1959	1624	1,210	Mar. 22, 1959	19	181	.787	10.67	216	12.76
1960	1704	788	Apr. 6, 1960	28	211	.917	12.50	-	-

a Maximum during period February to September.

b Mar. 19, 20, 22-25, 1950.

3265. Aucilla River at Lamont, Fla.

Location.--Lat 30°22'11", long 83°48'25", in NE $\frac{1}{4}$ sec.27 (revised), 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, Jefferson County.

Drainage area.--680 sq mi, approximately.

Records available.--February 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 42.90 ft above mean sea level, unadjusted. Prior to Jan. 30, 1958, at site 65 ft upstream at same datum.

Average discharge.--10 years (1950-60), 293 cfs.

Extremes.--1950-60: Maximum discharge, 6,580 cfs Sept. 18, 1957 (gage height, 14.93 ft); no flow for many days in 1955, 1957.

Remarks.--Pumpage above and below station for irrigation during dry seasons.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	15.9	12.1	17.5	20.1	15.3	78.8	104	19.4	16.5	13.0	45.2	26.8	32.1
1952	10.8	183	285	272	464	855	575	78.6	16.2	11.9	30.0	116	242
1953	40.9	13.9	15.5	21.8	106	138	854	202	381	181	314	380	220
1954	420	112	519	478	185	126	59.5	20.5	13.0	9.03	8.36	5.21	164
1955	3.03	4.36	6.04	4.74	5.71	2.95	2.58	.89	.08	.34	.13	1.57	2.68
1956	1.25	2.18	2.79	5.67	12.6	13.0	8.52	23.2	4.77	39.1	4.30	2.41	10.0
1957	1.96	.73	.58	.17	0	3.12	36.6	19.1	381	159	167	2674	284
1958	2,220	272	829	517	467	1,171	1,936	680	703	711	317	95.0	830
1959	30.3	22.4	21.5	60.9	417	2,944	1,194	338	918	486	320	305	589
1960	575	568	210	347	779	1,397	2,121	374	106	158	107	123	569

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.03	0.02	0.03	0.03	0.02	0.13	0.17	0.03	0.03	0.02	0.08	0.04	0.63
1952	.02	.30	.48	.46	.77	1.45	.94	.13	.03	.02	.05	.19	4.84
1953	.07	.02	.03	.04	.16	.23	1.40	.34	.82	.31	.53	.62	4.37
1954	.71	.18	.88	.81	.28	.21	.10	.03	.02	.02	.01	.01	3.26
1955	.005	.007	.01	.008	.009	.005	.004	.002	.0001	.0006	.0002	.003	.05
1956	.002	.004	.005	.01	.02	.02	.01	.04	.008	.07	.007	.004	.20
1957	.003	.001	.001	.0003	0	.005	.06	.03	.82	.27	.28	4.39	5.66
1958	3.76	.45	1.41	.88	.72	1.98	3.18	1.15	1.15	1.21	.54	.16	16.59
1959	.05	.04	.04	.10	.64	4.99	1.96	.57	1.51	.82	.54	.50	11.76
1960	.98	.93	.36	.59	1.24	2.37	3.48	.63	.17	.27	.18	.20	11.40

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	1172	a364	Apr. 9, 1950	-	-	-	-	-	-
1951	1204	218	Mar. 23, 1951	11	32.1	0.047	0.63	68.5	1.35
1952	1234	1,040	Feb. 29, 1952	9.2	242	.356	4.84	208	4.16
1953	1274, 1504	2,070	Apr. 16, 1953	12	220	.324	4.37	503	6.02
1954	1334	972	Oct. 1, 1953	4.4	164	.241	3.26	76.2	1.51
1955	1384	13	Jan. 25, 1955	0	2.68	.00394	.05	2.08	.04
1956	1434	70	July 10, 11, 1956	.7	10.0	.015	.20	9.78	.19
1957	1504	6,580	Sept. 18, 1957	0	284	.418	5.66	565	11.28
1958	1554	5,370	Oct. 2, 1957	51	830	1.22	16.59	555	11.10
1959	1624	4,510	Mar. 18, 1959	18	589	.866	11.76	696	13.90
1960	1704	3,570	Apr. 10, 1960	25	569	.837	11.40	-	-

a Maximum during period February to September.

3269. St. Marks River near Newport, Fla.

Location.--Lat 30°16'00", long 84°09'00", near center of sec.32, T.2 S., R.2 E., on left bank 0.9 mile downstream from Rhodes Springs, 6 miles north of Newport, Wakulla County, and 11 miles upstream from Wakulla River.

Drainage area.--220 sq mi, approximately.

Records available.--October 1956 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 3.53 ft above mean sea level, datum of 1929.

Extremes.--1956-60: Maximum discharge, 4,010 cfs Sept. 18, 1957 (gage height, 10.01 ft); minimum, 325 cfs Mar. 17, 1957 (gage height, 4.20 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	449	396	360	345	335	338	410	462	858	581	546	1,563	553
1958	1,375	642	668	585	588	836	1,107	725	800	733	641	541	772
1959	448	423	425	479	633	1,338	976	919	1,169	1,034	838	1,049	811
1960	1,365	976	707	711	857	1,020	1,265	744	564	666	638	756	855

Monthly and yearly discharge, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	27,610	23,580	22,140	21,200	18,630	20,780	24,370	28,430	51,050	35,700	33,580	93,020	400,100
1958	84,550	38,210	41,100	35,970	32,650	51,430	65,850	44,600	47,610	45,040	39,410	32,170	558,600
1959	27,550	25,160	26,110	29,460	35,150	82,290	58,110	56,490	69,540	63,600	51,520	62,430	587,400
1960	83,930	58,090	43,500	43,740	49,290	62,720	75,270	45,720	33,580	40,970	39,240	45,000	621,000

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Acre-feet	Mean	Acre-feet
		Discharge	Date					
1957	1504	4,010	Sept. 18, 1957	326	553	400,100	678	490,600
1958	1554	3,350	Oct. 1, 1957	480	772	558,600	654	473,600
1959	1624	2,060	Mar. 18, 1959	405	811	587,400	959	694,100
1960	1704	2,230	Oct. 11, 1959	465	855	621,000	-	-

3275. 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 1960.

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.--23 years (1937-60), 471 cfs.

Extremes.--1937-60: 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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	9.16	9.20	40.2	68.4	139	351	847	87.5	37.7	20.8	38.8	18.6	138
1952	9.35	103	749	450	1,406	1,389	563	356	241	34.6	89.9	269	469
1953	47.4	24.1	50.1	264	989	533	1,371	136	167	940	494	821	481
1954	384	117	1,821	973	322	372	231	52.1	31.1	18.6	10.6	4.68	365
1955	4.76	8.24	28.2	99.2	262	78.1	507	164	26.5	89.4	47.7	20.1	110
1956	9.23	15.4	15.5	57.2	579	432	122	785	59.3	250	82.5	251	221
1957	258	49.7	54.3	57.9	54.1	243	527	575	1,172	319	103	330	512
1958	863	716	1,003	956	821	1,640	2,468	373	757	661	476	70.2	900
1959	23.5	27.2	56.6	178	1,929	3,058	1,017	316	1,037	648	518	95.8	732
1960	203	381	493	682	1,772	996	2,264	231	194	394	174	378	673

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.02	0.02	0.08	0.14	0.26	0.74	1.72	0.18	0.08	0.04	0.08	0.04	3.40
1952	.02	.21	1.57	.94	2.76	2.92	1.14	.75	.49	.07	.19	.55	11.61
1953	.10	.05	.10	.55	1.87	1.12	2.78	.25	.34	1.97	1.04	1.66	11.86
1954	.60	.24	3.82	2.04	.81	.78	.47	.11	.06	.04	.02	.01	9.00
1955	.01	.02	.06	.21	.50	.16	1.03	.34	.05	.19	.10	.04	2.71
1956	.02	.03	.03	.12	1.13	.90	.25	1.65	.12	.52	.17	.51	5.45
1957	.54	.10	.11	.12	.10	.51	1.07	1.21	2.38	.67	.22	.67	7.70
1958	1.81	1.45	2.10	2.01	1.55	3.44	5.01	.78	1.54	1.38	1.00	.14	22.21
1959	.05	.05	.08	.37	3.66	6.41	2.06	.66	2.11	1.36	1.09	.19	18.09
1960	.43	.77	1.03	1.43	3.47	2.09	4.60	.48	.39	.83	.36	.77	16.65

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	131	3.23
1951	1204	2,660	Apr. 2, 1951	4.1	138	0.251	3.40	206	5.08
1952	1234	3,080	Mar. 27, 1952	5.9	469	.853	11.61	406	10.06
1953	1274	5,140	Apr. 14, 1953	15	481	.875	11.86	668	16.47
1954	1334	3,520	Dec. 9, 1953	3.6	365	.664	9.00	171	4.23
1955	1384	1,800	Apr. 18, 1955	3.5	110	.200	2.71	110	2.70
1956	1434	4,280	May 9, 1956	6.7	221	.402	5.45	248	6.12
1957	1504	3,820	June 11, 1957	16	312	.567	7.70	498	12.31
1958	1554	8,650	Apr. 11, 1958	25	900	1.64	22.21	690	17.03
1959	1624	13,900	Mar. 7, 1959	15	732	1.33	18.09	816	20.14
1960	1704	10,000	Apr. 4, 1960	22	673	1.22	16.65	-	-

3280. Tired Creek near Cairo, Ga.

Location.--Lat 30°52' (corrected), 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.--60 sq mi, approximately.

Records available.--July 1943 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 159.0 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--17 years (1943-60), 66.6 cfs.

Extremes.--1943-60: Maximum discharge, 28,100 cfs Apr. 1, 1948 (gage height, 16.3 ft, from floodmark), from rating curve extended above 2,900 cfs on basis of slope-area measurement of peak flow; minimum, 0.1 cfs June 10, 1955.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	11.5	10.6	22.4	26.0	38.7	112	50.1	17.1	18.1	5.47	14.6	7.68	27.8
1952	4.22	62.3	107	40.4	157	132	68.9	50.6	9.56	8.19	46.9	48.6	59.3
1953	12.3	15.6	22.0	60.5	129	50.1	180	20.0	14.6	19.9	29.3	40.7	49.6
1954	19.4	25.7	21.0	89.2	49.5	50.9	25.4	7.27	3.32	19.2	8.72	2.93	42.9
1955	3.31	8.02	13.2	24.5	27.7	10.9	53.8	4.42	1.26	17.6	16.8	47.5	18.9
1956	4.94	8.04	9.19	25.6	71.8	42.5	18.4	70.2	8.29	55.9	5.75	26.4	28.8
1957	15.3	8.87	14.0	12.1	11.0	27.1	40.8	19.3	27.8	26.9	7.21	67.5	23.1
1958	62.0	67.0	79.8	87.5	85.1	155	268	94.8	85.7	84.9	66.6	19.3	96.2
1959	12.9	18.8	19.3	42.2	212	350	121	109	146	92.7	36.7	59.3	101
1960	58.3	36.4	46.7	89.3	243	117	304	39.2	24.0	90.4	114	207	113

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.22	0.20	0.43	0.50	0.67	2.16	0.93	0.33	0.34	0.10	0.28	0.14	6.30
1952	.08	1.16	2.05	.78	2.46	2.54	1.28	.97	.18	.16	.90	.90	13.46
1953	.24	.25	.42	1.16	2.24	.96	5.35	.38	.27	.38	.56	.76	10.97
1954	.37	.48	4.04	1.72	.86	.98	.47	.14	.06	.37	.17	.05	9.71
1955	.06	.15	.25	.47	.48	.21	1.00	.09	.02	.34	.32	.88	4.27
1956	.09	.15	.18	.49	1.29	.92	.34	1.35	.15	1.07	.11	.49	6.53
1957	.29	.17	.27	.23	.19	.52	.76	.37	.52	.52	.14	1.26	5.24
1958	1.19	1.25	1.53	1.68	1.48	2.97	4.99	1.82	1.60	1.63	1.28	.36	21.78
1959	.25	.35	.37	.81	3.68	6.72	2.25	2.10	2.71	1.78	.71	1.10	22.83
1960	1.12	.68	.90	1.72	4.37	2.25	5.66	.75	.45	1.74	2.19	3.85	25.68

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	-	41.4	9.39
1951	1204	1,670	Mar. 19, 1951	1.8	27.8	0.463	6.30	38.7	8.74		
1952	1234	928	Nov. 16, 1951	2.2	59.3	.988	13.46	48.8	11.08		
1953	1274	1,940	Apr. 7, 1953	3.4	48.6	.810	10.97	66.2	14.95		
1954	1334	1,370	Dec. 7, 1953	1.1	42.9	.715	9.71	23.3	5.28		
1955	1384	836	Sept. 2, 1955	.1	16.9	.315	4.27	18.7	4.23		
1956	1434	630	July 16, 1956	1.6	28.8	.480	6.53	30.2	6.94		
1957	1504	862	Sept. 30, 1957	2.6	53.1	.596	5.24	37.4	8.48		
1958	1554	2,820	Apr. 15, 1958	9.1	95.2	1.60	21.78	83.0	18.78		
1959	1624	5,010	Mar. 6, 1959	7.3	101	1.68	22.83	109	24.56		
1960	1704	4,010	Apr. 2, 1960	5.6	113	1.88	25.68	-	-		

3290. Ochlockonee River near Havana, Fla.

Location.--Lat 30°33', long 84°23', in sec.24, T.2 N., R.2 W., near center of span on upstream side of bridge on U.S. Highway 27 (revised), three-quarters of a mile upstream from Seaboard Air Line Railroad bridge, 4 miles downstream from Mill Creek, and 5 miles southeast of Havana, Gadsden County.

Drainage area.--1,020 sq mi, approximately. At site used prior to January 1929, 1,050 sq mi, approximately.

Records available.--June 1926 to September 1960. Published as "at Ochlockonee" June 1926 to December 1929. Records published for both sites December 1928 to December 1929.

Gage.--Wire-weight gage. Datum of gage is 59.36 ft (revised) above mean sea level, unadjusted. Prior to Jan. 1, 1930, staff gage at site about 10 miles downstream at datum 9.36 ft (revised) lower. Dec. 12, 1928, to Aug. 11, 1934, chain gage at same site and datum.

Average discharge.--34 years (1926-60), 959 cfs.

Extremes.--1926-60: Maximum discharge, 55,900 cfs Apr. 4, 1948 (gage height, 35.08 ft); minimum, 17 cfs Oct. 23-28, Nov. 1, 1954; minimum gage height, 10.81 ft Oct. 24-28, Nov. 1, 1954.
Maximum stage known, that of Apr. 4, 1948.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	67.7	57.5	137	195	350	666	1,529	309	234	121	155	81.1	322
1952	47.6	455	1,316	946	2,174	2,559	1,451	680	477	114	329	587	923
1953	228	112	171	555	1,586	1,163	2,389	421	306	1,192	682	739	788
1954	818	254	2,656	2,064	742	815	465	127	88.3	119	58.0	26.8	689
1955	22.0	28.6	85.8	223	460	167	848	256	85.0	218	211	154	228
1956	58.6	50.1	62.1	185	966	783	304	1,089	158	612	188	206	386
1957	468	125	125	125	116	316	770	635	1,371	812	280	668	485
1958	1,746	946	1,784	1,492	1,570	2,750	4,484	1,014	780	1,439	1,114	243	1,612
1959	121	125	119	397	3,039	5,456	2,373	559	2,420	955	699	374	1,374
1960	883	898	769	1,171	2,815	2,076	4,203	619	421	883	473	1,108	1,349

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.08	0.06	0.15	0.22	0.34	0.75	1.67	0.35	0.26	0.14	0.18	0.09	4.29
1952	.05	.50	1.49	1.07	2.50	2.89	1.59	.77	.52	.13	.37	.64	12.32
1953	.26	.12	.19	.63	1.62	1.31	2.61	.48	.35	1.35	.77	.81	10.48
1954	.92	.28	2.98	2.33	.76	.92	.51	.14	.10	.13	.07	.03	9.17
1955	.02	.03	.10	.25	.47	.19	.93	.29	.09	.25	.24	.17	3.03
1956	.04	.05	.07	.21	1.02	.89	.33	1.23	.17	.69	.21	.22	5.13
1957	.53	.14	.14	.14	.12	.36	.84	.72	1.50	.92	.32	.73	6.46
1958	1.97	1.04	1.99	1.69	1.60	3.11	4.90	1.15	.85	1.63	1.26	.27	21.46
1959	.14	.14	.13	.45	3.10	6.17	2.60	.63	2.65	1.08	.79	.41	18.29
1960	1.00	.98	.87	1.32	2.98	.235	4.60	.70	.46	1.00	.53	1.21	16.00

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	363	4.84
1951	1204	3,040	Apr. 5, 6, 1951	42	322	0.316	4.29	453	6.04
1952	1234	4,620	Feb. 27, 1952	35	925	.905	12.32	813	10.85
1953	1274	5,920	Apr. 18, 1953	78	788	.775	10.48	1,059	14.09
1954	1334	4,450	Dec. 31, 1953	23	689	.675	9.17	586	5.14
1955	1384	2,010	Apr. 20, 1955	17	228	.224	3.03	229	3.04
1956	1434	3,500	May 14, 1956	29	386	.378	5.13	434	5.78
1957	1504	3,430	June 16, 1957	96	485	.475	6.46	800	10.65
1958	1554	10,600	Apr. 14, 1958	141	1,612	1.58	21.46	1,267	16.87
1959	1624	14,200	Mar. 9, 1959	93	1,374	1.35	18.29	1,557	20.73
1960	1704	12,900	Apr. 7, 1960	100	1,349	1.32	18.00	-	-

3295. 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 Willcookee and Attapulgis Creeks, and 4½ miles east of Quincy, Gadsden County.

Drainage area.--250 sq mi, approximately.

Records available.--April 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 83.19 ft above mean sea level, unadjusted.

Average discharge.--10 years (1950-60), 240 cfs.

Extremes.--1950-60: Maximum discharge, 23,200 cfs Sept. 27, 1960 (gage height, 20.45 ft); minimum, 6.8 cfs June 9, 1956; minimum gage height, 0.82 ft June 16, 1955.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	70.8	61.9	118	125	141	459	294	158	159	95.8	104	55.5	154
1952	56.6	290	518	204	678	552	348	128	79.9	68.8	158	173	268
1953	74.2	72.5	110	222	402	209	527	104	172	240	131	256	208
1954	113	149	797	344	218	250	119	50.6	52.0	75.4	41.9	24.3	187
1955	22.7	40.8	66.2	124	128	59.1	272	41.2	15.5	64.7	99.6	46.3	81.3
1956	32.2	40.1	54.6	161	242	163	88.8	148	54.1	248	60.1	140	119
1957	103	52.1	76.8	69.0	68.9	193	187	119	338	109	47.2	259	135
1958	479	274	311	349	328	621	1,074	404	469	294	321	99.4	419
1959	70.6	123	113	280	658	1,094	429	252	582	353	154	229	359
1960	416	267	239	348	825	409	902	264	199	294	218	1,541	473

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.33	0.28	0.55	0.58	0.59	2.12	1.31	0.73	0.71	0.44	0.48	0.25	8.37
1952	.17	1.29	2.39	.94	2.93	2.55	1.55	.59	.36	.32	.73	.77	14.59
1953	.34	.32	.51	1.02	1.67	.96	2.35	.48	.77	1.10	.60	1.14	11.26
1954	.52	.67	3.68	1.59	.91	1.15	.53	.23	.23	.35	.19	.11	10.16
1955	.10	.18	.31	.57	.53	.27	1.21	.19	.07	.30	.46	.21	4.40
1956	.15	.18	.25	.74	1.04	.75	.40	.68	.24	1.14	.28	.63	8.48
1957	.48	.23	.35	.32	.29	.89	.83	.55	1.51	.50	.22	1.16	7.33
1958	2.21	1.22	1.43	1.61	1.37	2.86	4.79	1.86	2.09	1.36	1.48	1.44	22.72
1959	.53	.55	.52	1.29	2.74	5.05	1.91	1.16	2.60	1.63	.71	1.02	19.51
1960	1.92	1.19	1.10	1.81	3.56	1.88	4.02	1.22	.89	1.36	1.01	5.98	25.74

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Runoff in inches
		Discharge	Date					
1950	1204	a3,480	Sept. 1, 1950	-	-	-	-	-
1951	1204	2,580	Mar. 20, 1951	26	154	0.616	8.37	203
1952	1234	1,980	Nov. 17, 1951	24	268	1.07	14.59	219
1953	1274	2,340	Apr. 14, 1953	26	208	.832	11.26	276
1954	1334	2,220	Dec. 8, 1953	16	187	.748	10.16	109
1955	1384	1,390	Apr. 15, 1955	10	81.3	.325	4.40	80.9
1956	1434	958	Jan. 24, 1956	8.1	119	.476	6.48	128
1957	1504	b1,690	June 10, 1957	22	135	.540	7.33	205
1958	1554, 1704	9,050	Apr. 16, 1958	57	419	1.68	22.72	355
1959	1624, 1704	9,240	Mar. 6, 1959	46	359	1.44	19.51	411
1960	1704	23,200	Sept. 27, 1960	66	473	1.89	25.74	-

a Maximum during period April to September.

b Maximum peak discharge; maximum discharge, 2,690 cfs Sept. 30, 1957, stage rising.

3299. Lake Talquin near Bloxham, Fla.

Location.--Lat 30°23'15", long 84°38'45", in SW $\frac{1}{4}$ sec.16, T.1 S., R.4 W., at left upstream end of Jackson Bluff Dam on Ochlockonee River, 1.0 mile northwest of Bloxham, Leon County, and $3\frac{1}{2}$ miles downstream from Oklawaha Creek.

Drainage area.--1,660 sq mi, approximately.

Records available.--January 1930 to September 1960. Monthly contents only for some periods, published in WSP 1304.

Gage.--Staff gage. Datum of gage is at mean sea level (levels by Florida Power Corp.).

Extremes.--1930-60: Maximum contents observed, 96,320 acre-ft Sept. 24, 1932 (elevation, 70.90 ft); minimum elevation since first filling, 48.70 ft Oct. 22, 1957 (earth embankment breached).

Remarks.--Lake is formed by concrete dam with riprapped earth embankments. Spillway is equipped with seven taintor gates, each 16 ft high by 25 ft wide. Storage began in June 1929; water in lake first reached minimum operating level January 1930. Usable capacity, 69,800 acre-ft between elevations, 60.0 ft (minimum operating level) and 68.5 ft (top of closed taintor gates). Surface area, 10.7 sq mi (6,850 acres), at elevation 60.0 ft. Dead storage is unknown. Water is used to produce electric power. Earth embankment was breached Sept. 30, 1957; cofferdam built and flow through embankment closed off Oct. 28, 1957. Repair of embankment completed, spillway gates closed, and refilling of lake began Sept. 4, 1958. Figures given herein represent usable contents.

Contents, in acre-feet, on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	49,830	36,060	39,450	38,600	47,180	75,890	72,800	68,800	71,800	59,050	50,720	57,160
1952	51,620	72,800	72,800	72,800	79,160	78,070	73,800	71,800	69,800	72,800	72,800	72,800
1953	69,800	68,000	51,620	63,800	73,800	71,800	56,220	54,350	73,800	73,800	72,800	71,800
1954	72,800	74,800	61,340	71,800	73,800	69,800	68,800	63,800	63,800	70,800	60,950	57,180
1955	56,220	60,570	65,900	63,000	70,800	64,800	71,300	72,800	71,800	74,800	74,800	73,800
1956	70,800	74,800	73,800	74,200	72,800	74,400	71,600	72,800	75,450	74,910	74,800	73,500
1957	74,300	74,800	75,890	75,890	75,240	73,000	75,340	74,800	72,900	73,400	72,800	0
1958	0	0	0	0	0	0	0	0	0	0	0	0
1959	12,500	36,900	53,430	70,200	73,600	74,000	68,200	74,100	74,300	72,800	74,200	71,000
1960	74,800	73,700	74,400	74,600	74,800	73,500	74,500	69,100	62,100	74,000	74,800	65,700

3300. Ochlockonee River near Bloxham, Fla.

Location.--Lat 30°23'00", long 84°39'15", in NE¼ sec.20, T.1 S., R.4 W., on downstream side of right pier of bridge on State Highway 20, 3,000 ft downstream from powerplant and dam and 1½ miles southwest of Bloxham, Leon County.

Drainage area.--1,660 sq mi, approximately.

Records available.--June 1926 to September 1960. Prior to October 1954, low-flow records based on discharge measurements made at various sites within 3,000 ft upstream from gage; subsequent low-flow records based on discharge measurements made at site three-quarters of a mile downstream from gage. Low-flow records not equivalent owing to seepage inflow.

Gage.--Water-stage recorder. Datum of gage is 24.69 ft above mean sea level, datum of 1929. Prior to Apr. 9, 1930, staff gage at site 2,700 ft upstream at datum 5.00 ft higher. Apr. 9, 1930, to Jan. 19, 1939, water-stage recorder at site 2,000 ft upstream and Jan. 20, 1939, to Sept. 30, 1954, at present site at datum 5.00 ft higher.

Average discharge.--28 years (1926-54), 1,614 cfs (unadjusted); 6 years (1954-60), 1,527 cfs (unadjusted).

Extremes.--1926-60: Maximum daily discharge, 55,000 cfs Sept. 30, 1957, caused by failure of earth embankment of Jackson Bluff Dam 3,000 ft upstream (estimated on basis of change in contents of Lake Talquin); maximum discharge unaffected by embankment failure, 50,200 cfs Apr. 5, 1948 (gage height, 28.50 ft, present datum), from rating curve extended above 38,800 cfs; maximum gage height, 32.64 ft Sept. 30, 1957, from floodmarks; minimum discharge since October 1954, 1.0 cfs Nov. 1, 2, 1957, caused by closure of breaks in earth embankment of Jackson Bluff Dam (indeterminate prior to October 1954).

Remarks.--Flow regulated since June 1929 by powerplant above station and storage in Lake Talquin.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	248	378	362	586	461	1,257	2,146	666	462	568	552	124	651
1952	146	663	2,208	1,358	3,156	3,605	2,354	1,022	681	115	729	860	1,401
1953	310	209	554	731	2,061	1,502	3,212	649	413	1,671	917	1,045	1,097
1954	949	474	3,557	2,849	1,074	1,252	632	420	260	220	300	170	1,019
1955	50.0	52.5	126	398	592	296	1,036	242	102	321	338	259	315
1956	72.9	62.0	159	427	1,417	974	424	1,398	410	1,401	336	619	640
1957	765	207	265	248	243	682	1,091	943	2,017	1,130	435	3,381	948
1958	3,260	1,383	2,630	2,174	2,351	4,230	6,752	2,377	2,055	2,420	1,732	120	2,626
1959	55.6	76.5	82.6	746	3,815	7,312	3,437	1,350	3,894	2,106	1,466	1,155	2,109
1960	2,314	1,678	1,503	1,982	4,114	3,376	6,541	1,407	1,276	1,716	969	3,586	2,522

Monthly and yearly runoff, in inches (adjusted)^{a/}

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.14	0.10	0.29	0.40	0.39	1.20	1.41	0.42	0.34	0.25	0.29	0.16	5.39
1952	.04	.68	1.53	.94	2.13	2.49	1.54	.69	.43	.11	.51	.58	11.67
1953	.18	.13	.19	.65	1.41	1.02	1.98	.43	.50	1.16	.62	.69	8.96
1954	.67	.34	2.54	1.88	.70	.82	.41	.23	.17	.23	.10	.07	8.17
1955	.02	.08	.15	.31	.39	.14	.77	.19	.06	.26	.23	.16	2.76
1956	.01	.09	.10	.30	.90	.69	.25	.98	.31	.97	.25	.40	5.23
1957	.54	.14	.20	.17	.14	.45	.76	.85	1.33	.79	.30	1.23	6.70
1958	1.90	1.11	1.81	1.53	1.47	2.93	4.54	1.84	1.38	1.64	1.21	.45	21.61
1959	.26	.33	.24	.71	2.43	5.08	2.24	1.00	2.62	1.45	1.03	.73	18.12
1960	1.65	1.12	1.05	1.38	2.68	2.33	4.41	.92	.78	1.33	.68	2.31	20.64

^a Adjusted for change in contents in Lake Talquin.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year					
		Observed			Adjusted ^{a/}			Observed			Adjusted ^{a/}		
		Momentary	maximum	Minimum	Mean	Mean	Per square	Runoff	Mean	Mean	Runoff	Mean	Mean
		Discharge	Date	day			mile	in inches			in inches		
1950	-	-	-	-	-	-	-	-	918	880	7.19	-	-
1951	1204	4,030	Apr. 2, 1951	(b)	651	657	0.396	5.39	923	869	7.11	-	-
1952	1234	7,580	Feb. 28, 1952	(b)	1,401	1,423	.857	11.67	1,258	1,209	9.92	-	-
1953	1274	7,530	Apr. 19, 1953	(b)	1,097	1,096	.660	8.96	1,428	1,469	12.01	-	-
1954	1384	7,510	Dec. 23, 1953	(b)	1,019	999	.602	8.17	617	596	4.86	-	-
1955	1384	2,670	Apr. 17-19, 1955	42	315	358	.204	2.76	320	331	2.71	-	-
1956	1434	4,420	May 7, 1956	40	640	639	.385	5.23	720	723	5.91	-	-
1957	1504	c55,000	Sept. 30, 1957	46	948	820	.494	6.70	1,458	1,302	10.64	-	-
1958	1554, 1704	d17,100	Apr. 17, 1958	1.2	2,626	2,644	1.59	21.61	2,050	2,155	17.62	-	-
1959	1624, 1704	17,200	Mar. 10, 1959	1.6	2,109	2,216	1.33	18.12	2,553	2,582	21.11	-	-
1960	1704	24,400	Sept. 27, 1960	43	2,522	2,515	1.52	20.64	-	-	-	-	-

^a Adjusted for change in contents in Lake Talquin.

^b Indeterminate; small amount of leakage. Figures of minimum daily discharge previously published are subject to considerable error and should not be used.

^c Maximum daily.

^d Maximum peak discharge; maximum daily discharge during year, 20,500 cfs Oct. 1, 1957, stage falling.

3301. 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, Liberty County.

Drainage area.--126 sq mi (revised).

Records available.--March 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 99.50 ft above mean sea level, datum of 1929 (Florida State Road Department bench mark).

Average discharge.--10 years (1950-60), 190 cfs.

Extremes.--1950-60: Maximum discharge, 4,640 cfs Apr. 3, 1960 (gage height, 9.34 ft); minimum, 28 cfs Sept. 14, Oct. 26, 27, 1954 (gage height, 1.35 ft).

Remarks.--Some diurnal fluctuation at low flow. Numerous small reservoirs above station for irrigation supply.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	90.6	74.1	108	106	101	301	172	111	81.0	94.1	166	84.2	124
1952	46.6	170	337	142	384	307	239	102	79.8	62.9	159	113	178
1953	73.0	62.8	71.4	150	200	108	162	74.8	135	149	123	276	131
1954	144	173	487	262	181	175	110	70.7	70.7	75.4	47.0	38.4	152
1955	35.4	53.5	69.7	92.4	91.0	45.1	313	82.5	44.0	76.0	86.7	78.1	88.6
1956	52.4	58.0	69.3	134	222	119	80.6	215	149	510	114	323	171
1957	247	101	101	90.5	81.6	143	127	146	168	159	93.9	433	158
1958	418	346	274	284	256	442	615	327	354	241	168	85.4	318
1959	77.5	137	92.0	167	310	571	284	262	476	337	180	196	257
1960	433	212	196	210	519	256	590	155	171	341	365	471	323

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.83	0.66	0.99	0.97	0.83	2.76	1.52	1.02	0.72	0.86	1.51	0.75	13.42
1952	.43	1.50	3.09	1.30	3.28	2.31	2.12	.93	.71	.58	1.45	1.00	19.20
1953	.67	.56	.65	1.39	1.65	.99	1.44	.68	1.19	1.36	1.13	2.44	14.14
1954	1.31	1.54	4.46	2.40	1.33	1.60	.98	.65	.63	.69	.43	.34	16.36
1955	.32	.47	.64	.85	.75	.41	2.77	.75	.39	.70	.79	.69	9.53
1956	.48	.51	.63	1.23	1.90	1.09	.71	1.97	1.32	4.66	1.05	2.86	18.41
1957	2.26	.89	.93	.67	1.30	1.12	1.34	1.49	1.45	.86	3.83	16.97	
1958	3.83	3.07	2.51	2.60	2.11	4.04	5.44	2.99	3.14	2.20	1.53	.76	34.22
1959	.71	1.22	.84	1.53	2.56	5.23	2.52	2.40	4.21	3.08	1.64	1.73	27.67
1960	3.96	1.68	1.79	1.92	4.45	2.35	5.22	1.42	1.51	3.12	3.34	3.99	34.95

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	1234,1504	a3,000	Sept. 1, 1950	-	-				
1951	1234,1504	2,980	Mar. 20, 1951	44	124	0.984	13.42	148	15.96
1952	1234	970	Dec. 6, 1951	37	179	1.41	19.20	149	16.06
1953	1274,1504	2,280	Sept. 27, 1953	30	131	1.04	14.14	182	19.57
1954	1334	1,220	Dec. 24, 1953	28	152	1.21	16.36	97.2	10.48
1955	1384,1504	2,260	Apr. 13, 1955	28	88.6	.703	9.53	90.3	9.72
1956	1434,1504	3,360	Sept. 25, 1956	37	171	1.36	18.41	194	20.87
1957	1504	b2,230	Sept. 10, 1957	51	158	1.25	16.97	207	22.30
1958	1554	4,160	Oct. 1, 1957	67	318	2.52	34.22	256	27.58
1959	1624	4,300	Mar. 7, 1959	59	257	2.04	27.67	302	32.53
1960	1704	4,640	Apr. 3, 1960	65	323	2.56	34.95	-	-

a Maximum during period March to September.

b Maximum peak discharge; maximum discharge during year, 2,410 cfs Sept. 30, 1957, stage rising.

3310. 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, October 1939 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--21 years (1939-60), 382 cfs.

Extremes.--1907, 1939-60: Maximum discharge, 14,100 cfs Jan. 7, 1946 (gage height, 13.6 ft); minimum daily, 72 cfs Oct. 26, 1941.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	330	246	332	262	316	535	582	393	355	261	154	151	327
1952	156	260	638	430	525	1,337	629	410	274	184	207	141	433
1953	120	174	220	526	634	553	374	401	261	398	172	181	333
1954	139	165	522	884	556	551	579	379	373	215	151	96.1	384
1955	84.1	125	242	217	582	385	467	506	299	322	262	151	302
1956	143	147	142	135	511	453	692	380	230	256	142	147	280
1957	140	154	353	408	699	482	756	355	293	217	125	140	337
1958	299	561	510	442	546	537	612	546	307	505	271	197	444
1959	184	162	192	353	379	385	506	512	519	317	214	362	340
1960	560	364	428	539	784	725	800	454	379	260	437	377	508

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2.54	1.83	2.55	2.02	2.20	4.12	4.33	3.02	2.64	2.01	1.19	1.13	29.58
1952	1.20	1.93	4.90	3.31	3.78	10.27	4.68	3.15	2.04	1.42	1.59	1.05	39.32
1953	.92	1.29	1.70	4.05	4.40	4.25	2.78	3.08	1.94	3.08	1.33	1.35	30.15
1954	1.07	1.23	4.01	6.79	3.86	4.23	4.51	2.92	2.78	1.65	1.16	.72	34.73
1955	.65	.93	1.86	1.67	4.04	2.96	3.47	3.88	2.22	2.48	2.02	1.13	27.31
1956	1.10	1.09	1.09	1.04	3.68	3.48	5.14	2.92	1.71	1.97	1.09	1.09	25.40
1957	1.08	1.15	2.71	3.14	4.85	3.55	5.62	2.57	2.18	1.67	.95	1.04	30.51
1958	2.29	4.17	3.92	3.40	3.79	4.13	4.55	4.20	2.29	3.88	2.09	1.46	40.17
1959	1.42	1.20	1.48	2.71	2.64	2.96	3.76	3.93	3.86	2.43	1.65	2.69	30.73
1960	4.30	2.71	3.29	4.14	5.64	5.57	5.95	3.49	2.82	1.99	3.36	2.80	46.06

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	429	38.86
1951	1204	3,620	Mar. 29, 1951	105	327	2.18	29.58	339	30.69
1952	1234	13,800	Mar. 11, 1952	110	433	2.89	39.32	388	35.20
1953	1274	8,120	July 22, 1953	101	333	2.22	30.15	360	32.55
1954	1334	10,200	Jan. 16, 1954	82	384	2.56	34.73	352	31.86
1955	1384	9,300	Feb. 6, 1955	78	302	2.01	27.31	300	27.15
1956	1434	6,480	Apr. 16, 1956	97	280	1.87	25.40	298	27.06
1957	1504	5,460	Apr. 5, 1957	85	337	2.25	30.51	397	35.95
1958	1554	4,740	Nov. 19, 1957	165	444	2.96	40.17	374	33.89
1959	1624	5,700	May 31, 1959	135	340	2.27	30.73	408	36.93
1960	1704	4,500	Mar. 30, 1960	190	508	3.39	46.06	-	-

3315. Soque River near Demorest, Ga.

Location.--Lat 34°34', long 83°35', on right bank at downstream end of old bridge pier, 200 ft upstream from new bridge on State Highway 105, 2½ miles west of Demorest, Habersham County, 3 miles downstream from Habersham Mill Dam, and 3 miles upstream from mouth.

Drainage area.--156 sq mi.

Records available.--July 1904 to June 1909, May 1929 to December 1931, March 1940 to December 1951, water years 1952-60 (annual maximum).

Gage.--Crest-stage gage. Datum of gage is 1,152.16 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. July 16, 1904, to June 30, 1909, staff gage at same site and datum. May 30, 1929, to Dec. 31, 1931, and Mar. 27, 1940, to Dec. 31, 1951, water-stage recorder at same site and datum.

Average discharge.--17 years (1904-8, 1929-31, 1940-51), 355 cfs.

Extremes.--1904-9, 1929-31, 1940-60: Maximum discharge, 21,000 cfs June 16, 1949 (gage height, 28.5 ft, from floodmark), from rating curve extended above 12,000 cfs on basis of slope-area determination at 28.5 ft.

1904-9, 1929-31, 1940-51: Minimum daily discharge, 18 cfs Oct. 18, 1931.

Maximum stage known since at least 1870, that of June 16, 1949.

Flood of July 21 or 22, 1938, reached a stage of 22.8 ft, from floodmark (discharge, 14,400 cfs).

Remarks.--Low flow regulated by Habersham Mill powerplant.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	309	209	272	228	262	379	407	284	299	229	155	150	265
1952	161	237	553	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2.28	1.50	2.01	1.68	1.75	2.80	2.91	2.10	2.14	1.70	1.14	1.07	23.08
1952	1.19	1.70	4.08	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	347	30.20
1951	1204	3,040	Oct. 20, 1950	37	265	1.70	23.08	279	24.26
1952	1204	*6,600	Mar. 11, 1952	-	-	-	-	-	-
1953	-	6,450	July 22, 1953	-	-	-	-	-	-
1954	-	7,120	Jan. 16, 1954	-	-	-	-	-	-
1955	-	6,520	Feb. 6, 1955	-	-	-	-	-	-
1956	-	3,940	Apr. 14, 1956	-	-	-	-	-	-
1957	-	3,940	Apr. 4, 1957	-	-	-	-	-	-
1958	-	3,390	July 8, 1958	-	-	-	-	-	-
1959	-	4,080	May 31, 1959	-	-	-	-	-	-
1960	-	a3,200	March 1960	-	-	-	-	-	-

* Not previously published.

a Estimated.

3316. Chattahoochee River near Cornelia, Ga.

Location--Lat 34°33', long 83°37', on downstream side of Duncan Bridge, 1 mile downstream from Soque River, 6 miles northwest of Cornelia, Habersham County, and at mile 401.5.

Drainage area--315 sq mi.

Records available--August 1957 to September 1960.

Gage--Water-stage recorder. Datum of gage is 1,128.53 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Extremes--1957-60: Maximum discharge, 9,840 cfs May 31, 1959 (gage height, 10.12 ft); minimum daily, 91 cfs Sept. 7, 1957.

Remarks--Some regulation at low flow from Habersham Mill powerplant.

Cooperation--Records computed by Corps of Engineers and reviewed by Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	-	-	274	-
1958	554	1,022	960	828	1,026	1,041	1,182	1,046	636	1,127	584	428	869
1959	376	319	360	625	734	735	968	949	973	611	407	741	648
1960	1,049	654	782	1,067	1,510	1,429	1,533	909	714	482	733	681	960

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	-	-	0.97	-
1958	2.03	3.62	3.52	3.03	3.40	3.80	4.18	3.83	2.25	4.15	2.13	1.52	37.44
1959	1.37	1.13	1.31	2.28	2.43	2.69	3.42	3.47	3.45	2.24	1.49	2.62	27.90
1960	3.84	2.32	2.86	3.91	5.17	5.23	5.43	3.33	2.53	1.76	2.69	2.41	41.48

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1957	1554	-	-	-	-	-	-	-	-
1958	1554	8,000	Nov. 19, 1957	277	869	2.76	37.44	745	32.08
1959	1624	9,840	May 31, 1959	202	648	2.06	27.90	769	33.11
1960	1704	6,200	Feb. 5, 1960	275	960	3.05	41.48	-	-

APALACHICOLA RIVER BASIN

3330. 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 February 1956.

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 $\frac{1}{2}$ miles upstream at different datum. Apr. 28, 1937, to Dec. 31, 1938, staff gage at site three-quarters of a mile downstream at datum 5.54 ft lower (corrected).

Average discharge.--20 years (1901-3, 1937-55), 1,240 cfs.

Extremes.--1937-56: Maximum discharge, 45,800 cfs Jan. 7, 1946 (gage height, 26.2 ft, from floodmark); minimum daily, 208 cfs Oct. 4, 10, 11, 1954.

Revisions.--The momentary maximum discharges for the water years 1902 and 1903, published in WSP 1304, are considered unreliable and should not be used.

Corrections.--In WSP 1304, the momentary maximum discharge for the water year 1948 is listed in error, it should be 17,800 cfs.

Monthly and yearly mean discharge, in cubic feet per second

[illegible]

Monthly and yearly runoff, in inches

[illegible]

Yearly discharge, in cubic feet per second

[illegible]

3335. Chestatee River near Dahlonga, Ga.

Location.--Lat 34°32', long 83°56', on left bank 250 ft upstream from Bearden Bridge on State Highway 52, 2 miles downstream from Ballplay Creek, 2½ miles east of Dahlonga, Lumpkin County, and 3½ miles upstream from Yahoola Creek.

Drainage area.--153 sq mi.

Records available.--June 1929 to January 1932, April 1940 to September 1960. Monthly discharges only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 1,128.6 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers).

Average discharge.--22 years (1929-31, 1940-60), 337 cfs.

Extremes.--1929-32, 1940-60: Maximum discharge, 15,300 cfs Jan. 7, 1946 (gage height, 22.1 ft); minimum daily, 49 cfs Oct. 4, 1931, Oct. 26, 1941.

Maximum stage known, about 25 ft Aug. 12, 1907, from information by local resident. Flow increased by failure of dam above station.

Remarks.--Moderate diurnal fluctuation at times caused by milldam upstream.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	264	184	227	206	256	464	525	309	280	197	122	137	264
1952	132	212	620	461	503	1,225	594	389	270	158	234	135	412
1953	109	167	230	554	593	502	344	390	206	276	147	175	306
1954	123	145	470	781	406	471	453	301	250	156	116	77.7	315
1955	68.9	112	228	219	590	356	384	442	221	205	187	95.1	257
1956	109	137	127	121	482	447	646	372	212	206	112	128	257
1957	116	125	359	398	620	395	718	323	256	185	101	106	304
1958	200	416	429	318	431	435	498	458	228	479	252	157	356
1959	160	153	159	300	380	412	504	437	427	282	184	244	303
1960	521	287	382	511	697	671	721	419	355	286	402	328	464

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.99	1.34	1.71	1.56	1.74	3.49	3.83	2.33	2.04	1.49	0.92	1.00	23.44
1952	1.99	1.55	4.67	3.47	3.55	9.23	4.33	2.93	1.96	1.19	1.76	.98	36.61
1953	.82	1.22	1.73	4.17	4.04	3.78	2.51	2.94	1.51	2.08	1.11	1.27	27.18
1954	.93	1.06	3.54	5.88	2.76	3.55	3.30	2.27	1.82	1.18	.87	.57	27.73
1955	.52	.82	1.72	1.65	4.02	2.69	2.80	3.33	1.61	1.54	1.41	.69	22.80
1956	.82	1.00	.96	.91	3.40	3.37	4.71	2.80	1.55	1.56	.84	.93	22.85
1957	.87	.91	2.56	3.00	4.22	2.97	5.23	2.43	1.86	1.40	.76	.77	26.98
1958	1.51	3.04	3.23	2.40	2.94	3.27	3.63	3.30	1.66	3.61	1.90	1.15	31.64
1959	1.21	1.12	1.20	2.26	2.58	3.10	3.67	3.30	3.11	2.12	1.38	1.77	26.82
1960	3.93	2.10	2.88	3.85	4.92	5.06	5.26	3.16	2.59	2.16	3.03	2.39	41.33

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	349	31.01
1951	1204	2,400	Mar. 29, 1951	82	264	1.73	23.44	289	25.61
1952	1234	13,800	Mar. 11, 1952	94	412	2.69	36.61	373	33.17
1953	1274	3,860	July 22, 1953	94	306	2.00	27.18	326	28.94
1954	1334	10,200	Jan. 18, 1954	60	313	2.05	27.73	285	25.26
1955	1384	8,330	Feb. 6, 1955	60	257	1.68	22.80	254	22.52
1956	1434	4,840	Apr. 16, 1956	75	257	1.68	22.85	274	24.41
1957	1504	5,320	Apr. 5, 1957	58	304	1.99	26.98	343	30.42
1958	1554	2,920	Dec. 20, 1957	118	356	2.33	31.64	308	27.39
1959	1624	4,300	Jan. 22, 1959	120	303	1.98	26.82	363	32.20
1960	1704	3,560	Mar. 30, 1960	137	464	3.03	41.33	-	-

APALACHICOLA RIVER BASIN

3344. Lake Sidney Lanier near Buford, Ga.

Location.--Lat 34°09'30", long 84°04'20", at forebay of dam on Chattahoochee River, 3.2 miles upstream from bridge on State Highway 20, 4.5 miles northwest (corrected) of Buford, Ga., Gwinnett County, and at mile 348.9.

Drainage area.--1,040 sq mi, approximately.

Records available.--January 1956 to September 1960.

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

Extremes.--1956-60: Maximum contents, 1,997,700 acre-ft Apr. 5, 1960 (elevation, 1,072.09 ft); minimum after beginning operation, 1,580,800 acre-ft Jan. 21, 1959 (elevation, 1,060.59 ft).

Remarks.--Lake is formed by a rolled-fill earth dam completed June 1957. Storage began in January 1956. Usable capacity, 1,686,000 acre-ft between elevations 1,035 and 1,085 ft. Dead storage, 868,000 acre-ft. Total capacity at top of flood pool at elevation 1,085 ft, 2,554,000 acre-ft. Figures given herein represent total contents. Lake is used for flood control and power.

Cooperation.--Records furnished by Corps of Engineers.

Contents, in thousand acre-feet, on last day of month											
Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Sept.
1956	-	-	-	0.7	106.8	220.7	321.2	323.3	323.9	344.3	374.3
1957	387.3	398.2	47*3	570.6	709.9	729.5	765.2	815.5	866.1	890.3	905.0
1958	945.7	1,059.1	1,168.5	1,253.2	1,352.7	1,486.5	1,620.5	1,722.8	1,749.3	1,869.6	1,703.6
1959	1,669.6	1,648.1	1,619.5	1,589.9	1,670.7	1,775.6	1,886.6	1,958.3	1,934.5	1,874.8	1,729.5
1960	1,812.6	1,810.4	1,787.1	1,878.5	1,899.1	1,959.1	1,930.3	1,929.9	1,888.9	1,836.8	1,717.2

† Corrected.

3345. 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, 3.2 miles downstream from Buford Dam, 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 (figures of daily discharge for the months of August and December, published in WSP 197, are unreliable and should not be used), October 1941 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--19 years (1941-60), 2,041 cfs (adjusted for storage).

Extremes.--1901, 1942-60: 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 daily, 262 cfs May 18, 1958.

Maximum stage since at least 1921, that of Jan. 8, 1946.

Remarks.--Flow regulated by Lake Sidney Lanier beginning January 1956.

Monthly and yearly mean discharge, in cubic feet per second												
Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	1,693	1,169	1,453	1,311	1,486	2,653	2,818	1,726	1,639	1,249	774	843
1952	823	1,334	3,975	2,384	2,699	7,704	3,425	2,381	1,617	1,016	1,514	891
1953	752	1,028	1,315	3,393	3,441	2,937	1,981	2,670	1,466	1,903	987	1,156
1954	913	1,018	2,887	4,898	2,341	2,681	2,760	1,780	1,576	972	773	514
1955	449	719	1,258	1,456	3,434	1,840	2,043	1,955	1,170	1,245	1,044	572
1956	579	717	717	706	627	619	1,421	1,808	1,040	997	512	516
1957	536	578	470	486	507	1,796	3,296	686	424	532	486	483
1958	427	556	432	431	559	466	656	565	733	1,054	2,227	2,850
1959	1,531	1,241	1,506	2,235	677	463	481	1,110	2,406	2,493	2,845	2,003
1960	1,430	1,349	2,193	1,602	3,409	2,731	4,273	2,029	2,394	2,215	2,687	2,546

Monthly and yearly runoff, in inches												
Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	1.84	1.23	1.58	1.43	1.46	2.88	2.97	1.88	1.73	1.56	0.84	0.89
1952	.89	1.41	4.32	2.59	2.75	8.38	3.60	2.58	1.71	1.10	1.65	.94
1953	.82	1.08	1.43	3.89	3.58	3.19	2.09	2.90	1.54	2.08	1.07	1.22
1954	.99	1.07	1.14	5.33	2.30	2.92	2.90	1.94	1.66	1.06	.84	.54
1955	.49	.76	3.17	1.58	3.37	2.01	2.15	2.12	1.23	1.35	1.14	.60
1956	.63	.75	.78	.78	2.53	2.69	3.27	1.99	1.18	1.37	.72	.91
1957	.81	.80	1.84	2.25	2.96	2.31	4.11	1.64	1.34	1.01	.57	.72
1958	1.15	2.60	2.41	1.97	2.31	2.87	3.06	2.42	1.24	5.27	1.37	1.11
1959	1.06	.93	1.13	1.90	2.09	2.36	2.47	2.48	2.11	1.66	1.07	1.56
1960	3.02	1.38	1.97	3.36	3.83	4.04	3.98	2.20	1.80	1.49	1.75	1.74

Note.--Adjusted for change in contents in Lake Sidney Lanier beginning January 1956.

Yearly discharge, in cubic feet per second, of Chattahoochee River near Buford, Ga.

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted a/			Observed	Adjusted a/	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	1,992	-	25.50
1951	1204	10,800	Oct. 21, 1950	364	1,568	-	1.48	20.09	1,722	-	22.06
1952	1234	34,100	Mar. 12, 1952	474	2,486	-	2.35	31.93	2,230	-	28.64
1953	1274	16,200	Jan. 10, 1953	568	1,912	-	1.80	24.49	2,059	-	26.36
1954	1334	28,900	Jan. 17, 1954	381	1,928	-	1.82	24.69	1,725	-	22.11
1955	1384	17,500	Feb. 8, 1955	365	1,419	-	1.34	18.17	1,384	-	17.71
1956	1434	5,400	Apr. 17, 1956	402	855	1,371	1.29	17.60	819	1,471	18.89
1957	1504	6,760	Apr. 5, 1957	302	856	1,589	1.50	20.36	840	1,800	23.07
1958	1554	11,100	Feb. 13, 1958	262	911	2,014	1.90	25.78	1,154	1,777	22.74
1959	1624	9,300	July 16, 1959	308	1,581	1,627	1.53	20.82	1,649	1,881	24.07
1960	1704	9,100	June 10, 1960	380	2,397	2,380	2.25	30.56	-	-	-

a Adjusted for change in contents in Lake Sidney Lanier beginning January 1956.

3350. Chattahoochee River near Norcross, Ga.

Location.--Lat 34°00', long 84°12', on downstream side of right bank pier of relocated bridge on State Highway 141, 1½ miles upstream from John Creek, 4½ miles north of Norcross, Gwinnett County, 6½ miles downstream from Suwanee Creek, 18 miles downstream from Buford Dam, and at mile 330.8.

Drainage area.--1,170 sq mi, approximately.

Records available.--October 1902 to September 1946, October 1956 to September 1960.

Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site 1910-33 and since 1945 are contained in reports of U.S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 878.14 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to July 13, 1955, chain and wire-weight gage at site 500 ft downstream at same datum. July 14, 1955, to Mar. 11, 1957, wire-weight gage at present site and datum.

Average discharge.--48 years (1902-46, 1956-60), 2,230 cfs (unadjusted).

Extremes.--1902-46, 1956-60: Maximum discharge, 55,000 cfs Jan. 8, 1946 (gage height, 27.7 ft), from rating curve extended above 36,000 cfs on basis of computation of peak flow over Morgan Falls Dam; minimum observed, 132 cfs Aug. 25, 1925.

Maximum stage since at least 1896, that of Jan. 8, 1946.

Remarks.--Flow regulated by Lake Sidney Lanier beginning January 1956.

Cooperation.--Records computed by Corps of Engineers and reviewed by Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	806	698	626	705	709	2,075	3,558	864	569	598	501	523	1,001
1958	502	704	558	529	793	681	862	696	792	1,138	2,253	2,858	1,029
1959	1,562	1,277	1,554	2,331	847	647	608	1,251	2,506	2,450	2,791	2,046	1,663
1960	1,554	1,477	2,324	1,852	3,748	3,085	4,618	2,196	2,576	2,431	2,815	2,792	2,614

Monthly and yearly runoff, in inches (adjusted) a/

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	0.80	0.84	1.82	2.25	2.86	2.36	3.96	1.66	1.35	0.98	0.53	0.69	20.10
1958	1.11	2.52	2.31	1.88	2.30	2.81	2.97	2.33	1.18	3.04	1.27	1.01	24.78
1959	.99	.87	1.07	1.82	2.05	2.32	2.35	2.39	2.01	1.45	.92	1.45	19.69
1960	2.86	1.37	1.91	3.29	3.79	4.00	3.94	2.16	1.80	1.56	1.72	1.81	30.21

a Adjusted for change in contents in Lake Sidney Lanier.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted a/			Observed	Adjusted a/	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1957	1504	8,580	Apr. 5, 1957	351	1,001	1,734	1.48	20.10	987	1,947	22.58
1958	1554	8,970	Feb. 13, 1958	395	1,029	2,132	1.82	24.73	1,251	1,874	21.72
1959	1624	7,890	June 20, 1959	1,438	1,663	1,699	1.45	19.69	1,744	1,976	22.90
1960	1704	8,710	Apr. 6, 1960	538	2,614	2,597	2.22	30.21	-	-	-

a Adjusted for change in contents in Lake Sidney Lanier.

3355. Chattahoochee River near Roswell, Ga.

Location.--Lat 34°00', long 84°20', on right bank 1½ 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 May 1960.

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.--18 years (1941-59), 2,069 cfs (unadjusted).

Extremes.--1941-60: 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 downstream; minimum daily, 315 cfs Aug. 11, 1957.

Maximum stage since at least 1921, that of Jan. 8, 1946.

Remarks.--Flow regulated by Lake Sidney Lanier beginning January 1956. Diversion at point 6 miles upstream by DeKalb County for water supply has increased from 12 cfs during 1950 to 32 cfs during 1960.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,845	1,253	1,569	1,449	1,659	2,873	3,062	1,845	1,716	1,314	783	874	1,687
1952	854	1,321	4,274	2,431	2,791	8,549	3,491	2,324	1,750	1,112	1,643	953	2,632
1953	755	1,112	1,501	4,152	3,855	3,188	2,100	3,092	1,618	2,022	1,025	1,222	2,130
1954	947	1,034	3,033	5,410	2,566	3,001	3,071	1,980	1,708	1,036	829	502	2,095
1955	421	704	1,284	1,660	3,775	1,961	2,193	2,066	1,273	1,315	1,052	572	1,508
1956	611	764	781	793	841	976	1,594	1,941	1,033	1,104	529	569	962
1957	587	667	607	689	686	1,938	3,541	850	467	474	425	483	948
1958	443	652	552	534	823	731	896	704	722	1,071	2,062	2,572	979
1959	1,690	1,544	1,666	2,515	939	727	673	1,210	2,611	2,530	2,885	2,101	1,748
1960	1,607	1,444	2,261	1,899	3,701	2,978	4,568	-	-	-	-	-	-

Monthly and yearly runoff, in inches (adjusted)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.73	1.14	1.48	1.36	1.41	2.70	2.78	1.73	1.56	1.23	0.73	0.79	18.64
1952	.80	1.19	4.00	2.28	2.45	8.01	3.17	2.18	1.57	1.04	1.54	.89	29.12
1953	.71	1.01	1.41	3.90	3.26	3.00	1.91	2.89	1.47	1.89	.96	1.11	23.52
1954	.89	.94	2.85	5.07	2.18	2.81	2.79	1.86	1.55	.97	.78	.46	23.15
1955	.39	.64	1.20	1.56	3.20	1.83	1.99	1.94	1.15	1.23	.99	.52	16.64
1956	.57	.69	.73	.75	2.37	2.65	2.98	1.84	1.01	1.28	.64	.83	16.34
1957	.75	.77	1.72	2.13	2.71	2.11	3.76	1.54	1.19	.81	.44	.62	18.55
1958	1.01	2.35	2.19	1.79	2.22	2.72	2.86	2.22	1.06	2.84	1.03	.71	23.00
1959	1.07	.89	1.13	1.90	2.03	2.28	2.30	2.22	2.01	1.46	.96	1.43	19.68
1960	2.77	1.27	1.76	3.17	3.56	3.70	3.70	-	-	-	-	-	-

Note.--Adjusted for change in contents in Lake Sidney Lanier beginning January 1956.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year				
		Observed			Adjusted a/		Observed		Adjusted a/		
		Momentary	maximum	Minimum	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date	day							
1950	-	-	-	-	-	-	-	-	2,144	-	23.70
1951	1204	10,900	Oct. 21, 1950	476	1,687	-	1.37	18.64	1,858	-	20.28
1952	1234	35,700	Mar. 13, 1952	597	2,632	-	2.14	29.12	2,372	-	26.26
1953	1274	17,400	Jan. 11, 1953	655	2,130	-	1.73	23.52	2,270	-	25.07
1954	1334	28,100	Jan. 18, 1954	350	2,095	-	1.70	23.15	1,874	-	20.70
1955	1384	18,000	Feb. 9, 1955	328	1,508	-	1.23	16.64	1,487	-	16.40
1956	1434	6,940	Mar. 16, 1956	460	962	1,476	1.20	16.34	937	1,589	17.59
1957	1504	11,400	Apr. 5, 1957	315	948	1,681	1.37	18.55	930	1,890	20.86
1958	1554	7,670	Feb. 15, 1958	375	979	2,082	1.69	23.00	1,256	1,859	20.54
1959	1624	8,200	June 18, 1959	430	1,748	1,784	1.45	19.68	1,800	2,031	22.39
1960	1704	8,520	Apr. 6, 1960	-	-	-	-	-	-	-	-

a Adjusted for change in contents in Lake Sidney Lanier beginning January 1956.

3357. Big Creek near Alpharetta, Ga.

Location.--Lat 34°03'02", long 84°16'10", on downstream side of county highway bridge, 2.6 miles southeast of Alpharetta, Fulton County, and 9.4 miles upstream from mouth.

Drainage area.--72 sq mi, approximately.

Records available.--May to September 1960.

Gage.--Water-stage recorder. Datum of gage is 960.80 ft above mean sea level, datum of 1929 (levels by Soil Conservation Service).

Extremes.--May to September 1960: Maximum discharge, 258 cfs Sept. 28 (gage height, 4.24 ft); minimum, 12 cfs Sept. 15.

Remarks.--Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	69.5	41.8	29.5	30.1	35.1	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	1.11	0.65	0.47	0.48	0.54	-

3360. Chattahoochee River at Atlanta, Ga.

Location.--Lat 33°52', long 84°27', on left bank 20 ft upstream from Paces Ferry Bridge at Atlanta, Fulton County, 1 mile downstream from Rottenwood 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, October 1936 to September 1960.

Monthly discharge only for some periods, published in WSP 1304. 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.--27 years (1928-31, 1936-60), 2,400 cfs (unadjusted).

Extremes.--1928-31, 1936-60: Maximum discharge, 59,000 cfs Jan. 9, 1946 (gage height, 28.0 ft); minimum daily, 296 cfs Sept. 2, 1957.

Maximum stage known since at least 1896, 29.0 ft in December 1919, from floodmarks at site 4 miles downstream and stage relation between the two sites.

Remarks.--Flow regulated by Lake Sidney Lanier beginning January 1956. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant 9½ miles above station. For De Kalb County diversion above station, see Remarks on page (). Cobb County diverts for water supply at pumping plant 7 miles above station (average diversion increased from about 9 cfs in 1955 to about 14 cfs in 1960). City of Atlanta diverts for municipal water supply at pumping plant 2 miles below station (average diversion increased from 80 cfs in 1950 to 113 cfs in 1960). Part of diversion by city of Atlanta is discharged as sewage effluent into South River, and part returned to Chattahoochee River about 3 miles below station.

Correction.--In WSP 1304, the monthly mean for January 1946 is listed in error, it should be 8,630 cfs.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,055	1,414	1,745	1,659	1,902	3,213	3,546	2,121	1,860	1,512	888	1,010	1,910
1952	942	1,496	5,014	2,841	3,165	10,000	4,076	2,715	1,904	1,162	1,633	1,009	3,006
1953	826	1,199	1,682	4,719	4,255	3,615	2,420	3,409	1,750	2,171	1,103	1,358	2,368
1954	988	1,116	3,369	6,083	3,014	3,205	3,340	2,239	1,923	1,111	840	492	2,311
1955	432	768	1,450	1,884	4,264	2,172	2,512	2,262	1,412	1,476	1,160	627	1,685
1956	629	821	829	813	1,152	1,605	1,971	2,175	1,156	1,357	561	668	1,145
1957	646	760	820	960	985	2,152	4,168	1,058	640	567	426	480	1,135
1958	525	901	861	794	1,322	1,289	1,429	955	881	1,482	2,292	2,761	1,288
1959	1,674	1,506	1,735	2,675	1,288	1,084	941	1,469	2,830	2,500	2,836	2,176	1,898
1960	1,854	1,596	2,490	2,609	4,062	3,444	5,086	2,415	2,671	2,666	2,824	2,762	2,865

Monthly and yearly runoff, in inches (adjusted), of Chattahoochee River at Atlanta, Ga.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.64	1.09	1.38	1.31	1.36	2.56	2.73	1.68	1.43	1.20	0.71	0.78	17.87
1952	.75	1.15	3.99	2.26	2.35	7.96	3.14	2.16	1.46	.92	1.30	.78	28.22
1953	.66	.92	1.34	3.75	3.05	2.87	1.86	2.71	1.35	1.73	.88	1.05	22.17
1954	.79	.86	2.68	4.84	2.17	2.55	2.57	1.78	1.48	.88	.67	.38	21.65
1955	.34	.59	1.15	1.50	3.06	1.73	1.93	1.80	1.09	1.16	.92	.48	15.77
1956	.50	.63	.66	.66	2.24	2.74	2.81	1.75	.95	1.29	.57	.78	15.58
1957	.69	.75	1.63	2.02	2.51	1.97	5.67	1.48	1.15	.76	.37	.53	17.50
1958	.92	2.19	2.10	1.73	2.24	2.76	2.63	2.09	1.02	2.73	1.06	.74	22.41
1959	.89	.68	1.01	1.74	1.97	2.21	2.16	2.10	1.87	1.21	.78	1.27	18.09
1960	2.55	1.20	1.68	3.25	3.29	3.52	3.54	1.91	1.53	1.44	1.40	1.44	26.75

Note.--Adjusted for change in contents in Lake Sidney Lanier beginning January 1956.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted a/			Observed	Adjusted a/	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	-	-	-
1951	1204	11,400	Oct. 21, 1950	476	1,910	-	1.32	17.87	2,393	-	22.41
1952	1234	34,400	Mar. 13, 1952	599	3,006	-	2.07	28.22	2,689	-	25.25
1953	1274	18,000	Jan. 11, 1953	634	2,368	-	1.63	22.17	2,518	-	23.58
1954	1334	27,400	Jan. 18, 1954	346	2,311	-	1.59	21.65	2,072	-	19.40
1955	1384	18,000	Feb. 9, 1955	340	1,685	-	1.16	15.77	1,653	-	15.48
1956	1434	15,100	Mar. 16, 1956	450	1,145	1,661	1.15	15.58	1,140	1,792	16.83
1957	1504	20,100	Apr. 5, 1957	296	1,135	1,868	1.29	17.50	1,139	2,099	19.67
1958	1554	7,540	Feb. 14, 1958	435	1,288	2,391	1.65	22.41	1,510	2,133	19.98
1959	1624	8,260	May 31, 1959	502	1,896	1,934	1.33	18.09	1,985	2,216	20.74
1960	1704	12,400	Mar. 30, 1960	604	2,865	2,848	1.96	26.75	-	-	-

a Adjusted for change in contents in Lake Sidney Lanier beginning January 1956.

3363. Peachtree Creek at Atlanta, Ga.

Location--Lat 33°49'10", long 84°24'40", on left bank in Atlanta Memorial Park, Fulton County, 1,000 ft downstream from bridge on Northside Drive, 0.6 mile downstream from Tanyard Branch, and 4 miles above mouth.

Drainage area--86.8 sq mi.

Records available--June 1958 to September 1960.

Gage--Water-stage recorder. Datum of gage is 764.96 ft above mean sea level (city of Atlanta bench mark).

Extremes--1958-60: Maximum discharge, 4,300 cfs May 30, 1959 (gage height, 14.2 ft); minimum daily, 8 cfs Aug. 10, 1959.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	104	53.1	31.7	-
1959	61.7	31.7	35.7	74.4	116	150	107	138	88.3	29.8	20.4	44.7	74.5
1960	83.9	38.2	52.5	233	173	136	182	59.7	41.9	33.6	24.2	55.9	92.5

† Corrected

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	1.38	0.71	0.41	-
1959	0.82	0.41	0.47	0.99	1.40	1.99	1.37	1.83	1.14	.40	.27	.57	11.66
1960	1.11	.49	.70	3.09	2.15	1.81	2.34	.79	.54	.45	.32	.72	14.51

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date							
1958	1704	-	-	-	-	-	-	-	-	-
1959	1704	4,300	May 30, 1959	8.0	74.5	0.858	11.66	78.4	-	12.26
1960	1704	3,230	Apr. 3, 1960	11.0	92.5	1.07	14.51	-	-	-

3370. 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 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--24 years (1904-5, 1937-60), 290 cfs.

Extremes.--1904-5, 1913, 1937-60: Maximum discharge, 10,400 cfs (revised) Nov. 29, 1948 (gage height, 18.4 ft); minimum daily, 2.1 cfs Oct. 9, 1954.
Flood of July 8, 1916, reached a stage of about 20.0 ft, from information by local resident (discharge, 12,600 cfs, revised, from rating curve extended above 6,500 cfs on basis of contracted-opening measurement at gage height 18.2 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	141	120	231	219	323	484	558	155	113	190	41.1	126	224
1952	75.2	180	786	437	367	1,049	318	169	178	54.8	78.6	105	317
1953	52.8	88.0	233	730	538	428	268	568	139	288	61.8	145	294
1954	77.3	82.2	279	628	276	306	234	148	88.1	59.6	23.0	4.36	184
1955	5.66	25.7	89.5	254	493	244	597	164	74.3	103	52.1	16.2	157
1956	24.0	50.7	68.8	81.6	415	591	449	132	70.5	89.1	38.5	85.9	173
1957	87.4	91.6	292	339	321	310	780	275	178	100	28.3	72.0	239
1958	230	336	419	351	628	665	593	269	175	371	124	101	354
1959	205	112	151	324	429	413	346	290	525	181	58.5	63.4	257
1960	137	101	165	479	654	565	569	188	88.3	84.2	99.8	198	276

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.66	0.54	1.08	1.03	1.36	2.27	2.53	0.73	0.51	0.89	0.19	0.57	12.36
1952	.35	.82	3.69	2.05	1.61	4.91	1.43	.79	.81	.26	.37	.48	17.57
1953	.25	.40	1.09	3.42	2.28	2.01	1.30	2.66	.63	1.26	.29	.66	16.25
1954	.36	.37	1.30	2.94	1.17	1.43	1.06	.69	.40	.28	.11	.02	10.13
1955	.03	.12	.42	1.19	2.08	1.14	1.80	.77	.34	.48	.24	.07	8.68
1956	.11	.23	.32	.38	1.82	2.77	2.04	.62	.32	.42	.18	.39	9.60
1957	.41	.42	1.37	1.59	1.35	1.45	3.54	1.29	.81	.47	.13	.33	13.16
1958	1.08	1.53	1.96	1.65	2.66	3.11	2.69	1.26	.79	1.74	.58	.46	19.51
1959	.95	.51	.71	1.52	1.81	1.94	1.57	1.36	2.38	.85	.27	.29	14.16
1960	.64	.46	.78	2.25	2.87	2.65	2.58	.88	.40	.39	.47	.90	15.27

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	268	14.80
1951	1204	1,950	Apr. 23, 1951	13	224	0.911	12.36	271	14.94
1952	1234	4,970	Dec. 22, 1951	25	317	1.29	17.57	261	14.45
1953	1274	3,130	Jan. 10, 1953	28	294	1.20	16.25	300	16.54
1954	1334	3,490	Jan. 17, 1954	2.5	184	.748	10.13	157	8.67
1955	1384	2,680	Feb. 8, 1955	2.1	157	.638	8.68	159	8.77
1956	1434	3,540	Mar. 16, 1956	14	173	.703	9.60	201	11.14
1957	1504	4,910	Apr. 6, 1957	8.8	239	.972	13.16	282	15.53
1958	1554	1,910	Feb. 7, 1958	37	354	1.44	19.51	310	17.11
1959	1624	3,900	June 2, 1959	33	257	1.04	14.16	251	13.87
1960	1704	2,720	Feb. 1, 1960	26	276	1.12	15.27	-	-

3375. Snake Creek near Whitesburg, Ga.

Location--Lat 33°32', long 84°56', at downstream end of left bank pier of highway bridge, at Banning Mills, 1.5 miles north of State Highway 16, 3 miles northwest of Whitesburg, Carroll County, 4 miles downstream from Little Snake Creek, and 7 miles upstream from mouth.

Drainage area--37 sq mi, approximately.

Records available--September 1954 to September 1960.

Gage--Water-stage recorder. Altitude of gage is 850 ft (from topographic map).

Average discharge--6 years (1954-60), 45.1 cfs.

Extremes--1954-60: Maximum discharge, 6,110 cfs Mar. 16, 1956 (gage height, 12.8 ft); minimum, 2.3 cfs Oct. 7, 1954 (gage height, 1.56 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	4.43	11.1	16.5	32.5	47.4	54.5	57.5	27.3	19.3	17.6	15.4	7.19	24.0
1956	8.76	11.5	12.8	12.3	66.1	116	73.6	36.0	24.5	21.5	13.9	24.2	35.0
1957	17.3	17.7	41.8	56.8	48.4	58.3	119	36.8	24.8	22.0	14.9	35.5	40.9
1958	34.8	50.4	59.5	56.5	106	95.7	109	64.5	51.0	76.0	32.4	26.0	63.1
1959	31.2	26.1	26.7	49.1	58.4	74.5	64.0	86.8	75.2	56.3	31.3	28.7	50.6
1960	31.2	24.9	28.8	119	102	98.9	96.4	52.2	43.7	28.9	32.6	29.1	57.2

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	0.14	0.33	0.51	1.01	1.33	1.07	1.73	0.85	0.58	0.55	0.48	0.22	8.80
1956	.27	.35	.40	.58	1.93	3.62	2.22	1.12	.74	.67	.43	.73	12.86
1957	.54	.53	1.30	1.78	1.36	1.82	3.59	1.15	.75	.69	.46	1.07	15.04
1958	1.08	1.52	1.86	1.76	2.98	2.98	3.29	2.01	1.54	2.36	1.01	.78	23.18
1959	.97	.79	.83	1.53	1.64	2.32	1.93	2.71	2.28	1.75	.98	.87	18.58
1960	.97	.75	.90	3.71	2.98	3.08	2.91	1.63	1.32	.90	1.02	.88	21.05

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-
1955	1384	1,200	Feb. 6, 1955	2.4	24.0	0.649	8.80	24.1	8.84
1956	1434	6,110	Mar. 16, 1956	7.2	35.0	.946	12.86	38.7	14.21
1957	1504	3,520	Apr. 5, 1957	7.4	40.9	1.11	15.04	46.6	17.13
1958	1554	2,390	Feb. 6, 1958	16	63.1	1.71	23.18	58.1	21.31
1959	1624	3,170	May 31, 1959	19	50.6	1.37	18.58	50.7	18.61
1960	1704	2,390	Apr. 3, 1960	14	57.2	1.55	21.05	-	-

3380. 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, 1½ miles southeast of Whitesburg, Carroll County, 1½ 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.

Gage--Wire-weight gage. Datum of gage is 684.06 ft above mean sea level, datum of 1929. Prior to Mar. 18, 1939, staff gage and Mar. 19, 1939, to Apr. 30, 1949, wire-weight gage, at site 1 mile upstream at same datum.

Average discharge--15 years (1938-53), 3,740 cfs.

Extremes--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.

Maximum stage since at least 1921, that of Jan. 10, 1946.

Remarks--Moderate diurnal fluctuation caused by Morgan Falls hydroelectric plant.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,701	1,865	2,537	2,383	3,026	4,537	5,227	2,815	2,048	2,266	959	1,487	2,651
1952	1,081	1,765	6,872	4,611	4,518	14,290	5,347	3,392	2,871	1,496	2,203	1,446	4,170
1953	1,076	1,471	2,635	7,237	6,394	5,518	4,107	5,535	2,618	3,217	1,584	1,951	3,501
1954	1,355	1,380	4,676	8,085	4,231	4,461	4,269	2,997	2,323	-	-	-	-

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.28	0.86	1.20	1.13	1.30	2.16	2.40	1.34	0.94	1.08	0.46	0.68	14.83
1952	.51	.81	3.26	2.19	2.01	6.78	2.46	1.61	1.32	.71	1.05	.66	23.37
1953	.51	.68	1.24	3.44	2.74	2.62	1.89	2.63	1.20	1.52	.75	.90	20.12
1954	.64	.63	2.21	3.84	1.81	2.12	1.96	1.42	1.07	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	3,569	18.81
1951	1204	12,800	Mar. 30, 1951	600	2,651	1.09	14.83	2,874	16.07
1952	1234	32,400	Mar. 14, 1952	715	4,170	1.72	23.37	3,787	21.22
1953	1274	21,200	Jan. 10, 1953	890	3,601	1.48	20.12	3,790	21.17
1954	1334	26,300	Jan. 19, 1954	-	-	-	-	-	-

3390. 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, 1½ miles downstream from Beach Creek, 2 miles upstream from Jackson Creek, and 4¼ miles northwest of La Grange, Troup County.

Drainage area.--182 sq mi.

Records available.--January 1951 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 601 ft (by barometer).

Average discharge.--9 years (1951-60), 201 cfs (revised).

Extremes.--1951-60: Maximum discharge, 6,110 cfs Apr. 6, 1957, revised (gage height, 13.36 ft); minimum, 4.6 cfs Oct. 6, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	114	190	270	81.7	48.3	102	34.7	83.2	-
1952	47.5	121	347	277	315	*920	252	182	107	35.9	59.7	53.3	*218
1953	35.0	50.2	133	314	490	349	331	495	131	320	110	127	239
1954	88.0	95.0	604	247	245	305	176	122	76.9	63.2	29.4	9.96	172
1955	10.6	34.2	74.1	204	231	163	334	80.5	47.7	150	54.1	23.0	116
1956	35.4	100	90.8	83.0	378	*570	432	95.3	48.8	45.5	37.0	269	*181
1957	102	97.7	387	263	216	287	610	168	110	57.4	237	118	221
1958	138	318	319	235	628	490	486	154	111	186	116	87.9	268
1959	71.6	75.9	105	226	400	377	230	180	174	91.3	52.0	62.7	169
1960	116	92.6	117	353	520	442	531	158	92.2	98.5	133	90.7	226

* Revised.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	0.65	1.20	1.65	0.52	0.30	0.65	0.22	0.51	-
1952	0.30	0.74	2.20	1.75	1.86	*5.20	1.54	1.15	.66	.23	.38	.33	*16.34
1953	.22	.31	.84	1.99	2.80	2.21	2.03	3.12	.80	2.03	.70	.78	17.83
1954	.56	.58	3.83	1.57	1.41	1.94	1.08	.77	.47	.40	.19	.06	12.86
1955	.07	.21	.47	1.29	1.32	1.03	2.05	.51	.29	.95	.34	.14	8.67
1956	.22	.61	.58	.53	2.24	*3.61	2.64	.60	.30	.29	.23	1.65	*13.50
1957	.65	.60	2.46	1.67	1.24	1.82	3.74	1.06	.67	.36	1.50	.72	16.49
1958	.87	1.95	2.02	1.49	3.59	3.10	2.98	.98	.68	1.18	.73	.42	19.99
1959	.45	.47	.67	1.43	2.29	2.39	1.41	1.14	1.07	.58	.33	.38	12.61
1960	.73	.57	.74	2.24	3.08	2.80	3.26	.87	.57	.62	.84	.56	16.88

* Revised.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1234	-	-	-	-	-	-	-	-
1952	1234	*4,200	Mar. 5, 1952	20	*218	*1.20	*16.34	*193	*14.47
1953	1274	*2,760	May 2, 1953	27	239	1.31	17.83	287	21.43
1954	1334	*2,760	Dec. 5, 1953	5.5	172	.945	12.86	115	8.64
1955	1384	1,720	Apr. 15, 1955	5.2	116	.637	8.67	125	9.33
1956	1434	*4,300	Mar. 17, 1956	11	*181	*.995	*13.50	*211	*15.80
1957	1504	6,110	Apr. 6, 1957	25	221	1.21	16.49	236	17.62
1958	1554	4,900	Feb. 8, 1958	50	268	1.47	19.99	224	16.74
1959	1624	960	Mar. 6, 1959	33	169	.929	12.61	175	13.06
1960	1704	3,000	Apr. 5, 1960	34	226	1.24	16.88	-	-

* Revised.

3395. Chattahoochee River at West Point, Ga.

Location.--Lat 32°53', long 85°11', on right bank just downstream from Oseligee Creek, at West Point, Troup County, 1 mile upstream from bridge on U.S. Highway 29, and at mile 198.9.

Drainage area.--3,550 sq mi, approximately.

Records available.--July 1896 to September 1960. Monthly discharge only for some periods published in WSP 1304. 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 2.63 ft lower. Oct. 20, 1912, to Jan. 25, 1925, staff gage at site 500 ft upstream at present datum.

Average discharge.--64 years (1896-1960), 5,511 cfs (unadjusted).

Extremes.--1896-1960: Maximum discharge, 134,000 cfs Dec. 10, 1919 (gage height, 30.0 ft at site then in use; 29.25 ft at present site, from floodmarks), from rating curve extended above 80,000 cfs on basis of computation of peak flow over Langdale Dam; minimum, 224 cfs Sept. 12, 1925 (gage height, 1.64 ft).

Maximum stage known since at least 1827, that of Dec. 10, 1919. Flood in 1886 reached a stage of 25.6 ft at former site and datum, from floodmark by U.S. Weather Bureau (discharge, 92,500 cfs).

Remarks.--Flow regulated by Lake Sidney Lanier beginning January 1956.

Corrections.--In WSP 1304, the monthly mean discharge for May 1949 is listed in error, it should be 8,387 cfs.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3,056	2,318	3,308	3,289	3,931	5,827	7,846	3,440	2,789	2,959	1,307	1,815	3,485
1952	1,496	2,923	9,970	6,129	6,341	19,270	7,525	5,096	3,639	1,739	2,603	2,120	5,752
1953	1,305	1,860	3,513	3,628	9,255	8,010	6,492	9,693	3,685	5,044	2,209	2,804	5,276
1954	1,929	1,960	7,450	9,322	6,011	6,369	5,550	3,611	2,921	1,781	1,154	629	4,073
1955	510	1,141	2,173	4,535	7,462	4,442	6,357	3,534	2,168	2,619	1,779	632	3,118
1956	948	1,601	1,592	1,574	4,848	7,164	6,608	3,812	2,047	2,368	1,068	2,764	3,020
1957	1,580	1,707	3,521	3,938	3,697	5,565	10,700	3,368	2,174	1,726	1,561	1,786	3,435
1958	2,288	4,225	4,326	3,614	7,326	7,162	7,127	3,476	2,939	4,842	3,621	3,585	4,522
1959	2,912	2,444	2,916	5,214	5,009	5,628	4,012	3,589	7,334	3,988	3,798	3,072	4,152
1960	3,355	2,876	3,823	6,981	10,830	8,978	10,700	4,410	3,684	3,410	4,052	4,228	5,585

Monthly and yearly runoff, in inches (adjusted)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.99	0.73	1.07	1.07	1.16	1.89	2.47	1.12	0.88	0.96	0.42	0.57	13.33
1952	.49	.92	3.24	1.99	1.93	6.26	2.36	1.66	1.15	.56	.85	.67	22.08
1953	.42	.58	1.14	1.32	2.72	2.61	2.04	3.15	1.16	1.64	.72	.88	20.18
1954	.63	.62	2.42	3.09	1.76	2.06	1.74	1.18	.92	.58	.37	.20	15.57
1955	.17	.36	.71	1.48	2.19	1.44	2.00	1.15	.69	.92	.58	.26	11.95
1956	.31	.50	.52	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Monthly figures of discharge per square mile and runoff in inches January 1956 to September 1957, previously published in WSP 1434 and 1504, are subject to error because of storage in Lake Sidney Lanier. Those figures are not published herein.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted a/			Observed	Adjusted a/	Runoff in inches
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	-	-	-
1951	1204	16,800	Apr. 23, 1951	610	3,485	-	-	-	4,257	-	16.28
1952	1234	43,200	Mar. 5, 1952	954	5,572	-	0.982	13.33	3,968	-	15.19
1953	1274	26,100	Jan. 10, 1953	1,060	5,276	-	1.62	22.08	5,102	-	19.57
1954	1334	25,800	Jan. 20, 1954	406	4,073	-	1.15	15.57	3,437	-	13.14
1955	1384	24,000	Feb. 8, 1955	364	3,118	-	0.878	11.95	3,144	-	12.04
1956	1434	40,900	Mar. 17, 1956	660	3,020	\$3,536	.996	#13.61	3,246	\$3,898	#14.97
1957	1504	46,800	Apr. 6, 1957	564	3,435	\$4,168	#1.17	#15.88	3,770	4,730	18.05
1958	1554	34,000	Feb. 7, 1958	1,370	4,522	5,625	1.58	21.45	4,309	4,932	18.87
1959	1624	27,000	June 2, 1959	1,150	4,152	4,188	1.18	16.02	4,502	-	17.58
1960	1704	28,800	Apr. 4, 1960	1,250	5,585	5,568	1.57	21.37	-	-	-

* Not previously published.

a Adjusted for change in contents in Lake Sidney Lanier since January 1956.

3405. Mountain Creek near Hamilton, Ga.

Location.--Lat 32°44', long 85°04', on right bank 300 ft upstream from 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.--October 1943 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Altitude of gage is 550 ft (by barometer). Dec. 22, 1943, to Sept. 8, 1950, wire-weight gage and Sept. 9, 1950, to June 12, 1958, water-stage recorder, at site 300 ft downstream at datum 3.00 ft lower.

Average discharge.--17 years (1943-60), 79.4 cfs.

Extremes.--1943-60: Maximum discharge, 11,800 cfs July 11, 1948 (gage height, 16.6 ft, from floodmark, site and datum then in use), from rating curve extended above 7,000 cfs on basis of slope-conveyance studies; minimum, 3.7 cfs Sept. 22, 23, 1956.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	36.0	26.7	53.8	53.4	53.8	58.0	83.7	33.5	19.7	25.1	29.4	34.8	42.2
1952	22.9	32.2	69.8	69.1	94.6	229	92.0	77.0	44.4	18.8	22.7	20.1	68.1
1953	13.1	16.7	45.3	84.7	142	95.5	130	142	48.0	97.1	42.6	50.8	75.1
1954	51.8	31.4	247	80.5	73.3	86.9	54.6	74.2	32.8	46.7	16.9	8.10	65.7
1955	6.59	12.2	16.4	50.0	67.2	52.8	101	32.9	22.9	46.1	17.8	8.34	35.9
1956	10.1	32.6	23.1	21.6	124	148	86.9	49.3	24.8	23.0	9.61	36.1	48.7
1957	25.2	23.2	127	75.2	58.8	104	213	91.8	44.1	47.1	17.5	18.7	70.5
1958	25.1	109	62.4	57.8	111	132	129	46.9	31.8	58.2	43.0	22.8	68.6
1959	25.9	20.6	26.1	43.7	103	116	69.7	55.6	65.4	27.2	25.4	29.6	50.3
1960	34.9	35.9	40.0	157	154	157	225	60.1	39.4	35.0	39.9	41.1	84.6

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.67	0.48	1.01	1.00	0.91	1.08	1.52	0.63	0.36	0.47	0.55	0.63	9.31
1952	.43	.58	1.30	1.29	1.65	4.28	1.66	1.44	.80	.35	.42	.36	14.56
1953	.24	.30	.81	1.59	2.40	1.79	2.35	2.65	.87	1.81	.80	.92	16.52
1954	.59	.57	4.61	1.50	1.24	1.63	.99	1.38	.59	.87	.32	.15	14.44
1955	.12	.22	.31	.93	1.14	.99	1.83	.61	.41	.86	.33	.15	7.90
1956	.19	.59	.43	.40	2.17	2.77	1.57	.92	.45	.43	.18	.65	10.75
1957	.47	.42	2.38	1.41	.99	1.95	3.85	1.72	.80	.88	.33	.34	15.54
1958	.47	1.98	1.16	1.08	1.87	2.47	2.33	.68	.57	1.09	.80	.41	15.11
1959	.48	.37	.49	.82	1.74	2.17	1.26	1.04	1.18	.51	.48	.54	11.08
1960	.65	.65	.75	2.93	2.70	2.93	4.07	1.12	.71	.65	.75	.74	18.65

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	1172	-	-	-	-	-	-	53.8	11.85
1951	1204	462	Apr. 23, 1951	11	42.2	0.684	9.31	42.9	9.46
1952	1234	1,220	Mar. 25, 1952	14	68.1	1.07	14.56	61.7	13.60
1953	1274	899	May 1, 1953	9.8	75.1	1.22	16.52	95.2	20.94
1954	1334	2,340	Dec. 5, 1953	6.1	65.7	1.06	14.44	42.4	9.32
1955	1384	630	Apr. 14, 1955	5.5	35.9	.582	7.90	38.5	8.46
1956	1434	955	Mar. 16, 1956	4.0	48.7	.789	10.75	58.0	12.81
1957	1504	2,580	Apr. 5, 1957	8.8	70.5	1.14	15.54	72.1	15.68
1958	1554	1,100	Nov. 19, 1957	15	68.6	1.11	15.11	58.3	12.84
1959	1624, 1704	513	Feb. 4, 1959	14	50.3	†.815	11.08	53.5	11.79
1960	1704	1,840	Apr. 4, 1960	12	84.6	1.37	18.65	-	-

† Corrected.

3410. Bartletts Ferry Reservoir (Lake Harding) near Columbus, Ga.

Location.--Lat 32°40', long 85°05', at forebay of dam on Chattahoochee River, 3.3 miles upstream from Mulberry Creek, 15 miles northwest of Columbus, Ga., Muscogee County, and at mile 178.0.

Drainage area.--4,240 sq mi, approximately.

Records available.--October 1929 to September 1960.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia Power Co.).

Extremes.--1929-60: Reservoir full at times each year; minimum contents about 56,000 acre-ft on several days in October and/or November 1931 (elevation, about 489 ft).

Remarks.--Reservoir is formed by concrete gravity dam with earthfill abutments. Spillway (crest elevation, 500.0 ft) is equipped with 19 taintor gates 25 ft wide by 21 ft high and 2 trash gates 11 ft wide by 9 ft high. Storage began in 1926; water in reservoir first reached minimum pool elevation in 1926. Total capacity at elevation 521.0 ft (top of gates) is 181,000 acre-ft, of which 136,000 acre-ft is usable storage. Figures given herein represent total contents. Reservoir is used for power development.

Cooperation.--Records furnished by Georgia Power Co.

Contents, in acre-feet, on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	155,000	136,000	130,000	146,000	146,000	175,000	182,000	187,000	156,000	170,000	132,000	167,000
1952	168,000	134,000	176,000	183,000	174,000	183,000	176,000	164,000	151,000	136,000	159,000	150,000
1953	131,000	150,000	140,000	136,000	182,000	150,000	179,000	168,000	171,000	162,000	152,000	168,000
1954	155,000	161,000	131,000	170,000	152,000	177,000	163,000	158,000	154,000	160,000	143,000	129,000
1955	113,000	124,000	132,000	150,000	150,000	156,000	168,000	169,000	169,000	177,000	154,000	130,000
1956	140,000	150,000	124,000	142,000	164,000	176,000	174,000	168,000	167,000	168,000	161,000	171,000
1957	158,000	152,000	164,000	172,000	159,000	174,000	172,000	170,000	175,000	171,000	173,000	174,000
1958	156,000	177,000	167,000	167,000	180,000	169,000	172,000	175,000	177,000	176,000	171,000	160,000
1959	150,000	150,000	148,000	162,000	152,000	177,000	152,000	158,000	158,000	172,000	173,000	161,000
1960	161,000	155,000	154,000	180,000	173,000	179,000	164,000	167,000	158,000	176,000	156,000	176,000

Note.--Records of contents October 1950 to September 1957 not previously published.

3415. Chattahoochee River at Columbus, Ga.

Location (revised).--Lat 32°27'45", long 84°59'45", on downstream side of center pier of Central of Georgia Railway bridge at Columbus, Muscogee County, half a mile downstream from Eagle and Phenix Dam, $1\frac{1}{4}$ miles downstream from City Mills Dam, 2.6 miles downstream from North Highlands Dam, 3.3 miles downstream from Oliver Dam, $17\frac{1}{2}$ miles downstream from Bartletts Ferry Dam, and at mile 159.9.

Drainage area.--4,670 sq mi, approximately.

Records available.--August 1929 to September 1960. Records for December 1912, published in WSP 322, have been found to be unreliable and should not be used.

Gage.--Water-stage recorder. Datum of gage is 185.14 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--31 years (1929-60), 6,286 cfs (unadjusted).

Extremes.--1929-60: 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 since at least 1827, 198,000 cfs Mar. 15, 1929, by computation of flow at North Highlands Dam; maximum stage known, 53.2 ft Mar. 16, 1929.

Remarks.--Flow regulated by Lake Sidney Lanier beginning January 1956 and Bartletts Ferry Reservoir (Lake Harding).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,752	2,921	4,268	4,191	4,888	6,736	9,528	4,562	3,406	3,049	2,290	2,090	4,215
1952	1,714	4,058	10,820	7,550	9,078	24,440	8,596	6,584	4,504	2,076	2,540	2,621	7,059
1953	1,794	1,945	4,546	11,320	11,310	10,000	8,759	13,680	3,986	6,843	3,024	3,624	6,723
1954	2,948	2,434	11,230	10,150	7,597	7,824	6,837	4,405	3,209	2,152	1,479	938	5,098
1955	701	1,044	2,453	5,332	8,492	5,043	8,131	4,258	2,738	4,289	2,903	1,178	3,849
1956	1,140	1,885	2,535	1,905	6,490	9,835	7,962	4,315	2,427	2,721	1,394	4,064	3,872
1957	2,338	2,479	6,073	5,374	5,115	7,100	13,740	5,305	2,815	2,190	1,721	1,998	4,677
1958	2,966	5,990	5,929	4,887	9,036	10,840	9,484	4,310	3,151	5,764	4,231	4,118	5,869
1959	3,399	2,857	3,457	5,790	7,797	7,926	5,594	4,740	8,830	4,012	3,956	3,224	5,110
1960	4,230	3,484	4,495	8,922	13,640	11,690	14,590	5,087	4,151	3,610	4,684	4,305	6,874

† Corrected.

Monthly and yearly runoff, in inches (adjusted) $\frac{a}{\text{a}}$, of Chattahoochee River at Columbus, Ga.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.83	0.62	1.03	1.10	1.09	1.78	2.31	1.07	0.77	0.81	0.41	0.64	12.46
1952	.43	.83	2.84	1.89	2.06	6.08	2.03	1.58	1.02	.45	.72	.59	20.52
1953	.37	.54	1.08	2.78	2.71	2.34	2.21	3.33	.96	1.65	.71	.93	19.61
1954	.68	.61	2.65	2.66	1.62	2.03	1.57	1.07	.75	.56	.30	.13	14.63
1955	.15	.29	.64	1.38	1.90	1.27	1.99	1.05	.65	1.09	.62	.22	11.25
1956	.29	.49	.52	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

a Adjusted for change in contents in Bartlett's Ferry Reservoir.

Note.--Monthly figures of runoff, in inches, January 1956 to September 1957, previously published in water-supply papers, are subject to error because of storage in Lake Sidney Lanier. Those figures are not published herein.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year				
		Observed			Adjusted $\frac{a}{\text{a}}$			Observed		Adjusted $\frac{a}{\text{a}}$		
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches	
		Discharge	Date									
1950	-	-	-	-	-	-	-	-	4,982	4,990	14.50	
1951	1204	24,100	Apr. 23, 1951	1,220	4,215	4,283	0.917	12.46	4,775	4,839	14.08	
1952	1234	57,800	Mar. 5, 1952	1,340	7,059	7,036	1.51	20.52	6,363	6,313	18.41	
1953	1274	44,400	May 2, 1953	1,410	6,723	6,749	1.44	19.61	7,428	7,416	21.56	
1954	1334	39,800	Dec. 4, 1953	695	5,098	5,032	1.08	14.63	4,048	4,049	11.77	
1955	1384	30,300	Apr. 15, 1955	600	3,849	3,875	.830	11.25	3,962	3,951	11.47	
1956	1434	51,700	Mar. 17, 1956	904	3,872	4,432	*.949	*12.92	4,319	*5,026	*14.70	
1957	1504	74,600	Apr. 6, 1957	792	4,677	*5,417	*1.16	*15.75	5,007	5,970	17.38	
1958	1554	41,500	Feb. 7, 1958	1,360	5,869	6,953	1.49	20.23	5,438	6,035	17.51	
1959	1624	35,500	June 2, 1959	940	5,110	5,151	1.10	14.93	5,320	5,560	16.15	
1960	1704	59,100	Apr. 4-5, 1960	1,220	6,874	6,878	1.47	20.01	-	-	-	

* Not previously published.

a Adjusted for change in contents in Bartlett's Ferry Reservoir and, since January 1956, in Lake Sidney Lanier.

Note.--Figures of monthly and yearly discharge in cubic feet per second per square mile and runoff in inches for January 1956 to September 1957, previously published in water-supply papers, are subject to error because of storage in Lake Sidney Lanier. Yearly adjusted figures given herein January 1956 to September 1957 supersede those published in water-supply papers.

3422. Phelps Creek near Opelika, Ala.

Location.--Lat 32°34', long 85°16', in S $\frac{1}{2}$ sec. 7, T.18 N., R.28 E., on right bank at upstream abutment of bridge on county road, 1 mile above mouth and 9 miles southeast of Opelika.

Drainage area.--7.47 sq mi.

Records available.--September 1958 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 530 ft (from topographic map).

Extremes.--1958-60: Maximum discharge, 509 cfs Apr. 3, 1960 (gage height, 8.13 ft); minimum, 0.2 cfs Aug. 28, 1959, July 21, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	1.02	1.24	2.49	6.85	16.1	19.7	6.90	5.01	5.80	2.77	0.50	0.87	5.71
1960	2.90	2.96	4.77	21.1	18.6	16.9	19.3	3.05	1.76	.61	2.14	1.82	7.95

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	0.16	0.19	0.38	1.06	2.24	3.05	1.03	0.77	0.87	0.43	0.08	0.13	10.39
1960	.45	.44	.74	3.26	2.69	2.60	2.88	.47	.26	.09	.33	.27	14.48

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches	
		Discharge	Date								
1958	1624	-	-	-	-	-	-	-	-	-	-
1959	1624	247	Feb. 4, 1959	0.3	5.71	0.766	10.39	6.21	-	11.29	
1960	1704	509	Apr. 3, 1960	.2	7.95	1.06	14.48	-	-	-	

3425. Uchee Creek near Fort Mitchell, Ala.

Location.--Lat 32°18'00", long 85°00'55", in SW $\frac{1}{4}$ sec.3, T.15 N., R.30 E., near center of stream channel on downstream side of bridge on State Highway 165, 2 miles south of Fort Mitchell, 4.8 miles downstream from Little Uchee Creek, and 5.3 miles upstream from mouth.

Drainage area.--325 sq mi.

Records available.--October 1946 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 201.76 ft above mean sea level, datum of 1929. Prior to Sept. 1, 1953, at site 1,000 ft upstream at same datum.

Average discharge.--14 years (1946-60), 442 cfs.

Extremes.--1946-60: Maximum discharge, 21,100 cfs Mar. 8, 1958 (gage height, 22.0 ft); minimum, 6.4 cfs Sept. 8, Oct. 8, 1954, Sept. 23, 1956.

Cooperation.--Records prior to Sept. 1, 1953, not previously published, furnished by Corps of Engineers.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1947	110	139	125	940	423	920	1,559	531	289	249	174	68	460
1948	48	340	988	610	1,226	1,681	653	141	77	1,347	835	318	689
1949	175	2,493	1,125	834	2,049	821	1,403	724	204	717	331	128	906
1950	82	88	244	288	403	1,198	518	196	162	193	128	162	305
1951	60	62	188	281	250	301	353	90	49	81	25	96	152
1952	41	111	390	390	647	2,168	605	450	146	41	57	72	426
1953	26	38.9	245	752	1,134	735	1,568	143	253	66	215	541	541
1954	130	126	1,708	513	305	599	262	135	48.2	75.0	20.9	9.59	330
1955	10.1	29.0	72.0	432	513	251	527	244	62.8	684	177	24.1	251
1956	45.0	107	107	106	568	839	432	152	53.9	59.4	14.7	101	214
1957	93.5	74.5	894	450	407	635	1,146	461	190	236	26.5	44.8	388
1958	103	854	515	379	865	1,928	1,041	190	141	388	129	72.3	548
1959	62.4	91.5	148	329	1,003	1,318	525	225	524	138	56.2	219	582
1960	319	307	443	1,168	1,169	1,128	1,798	335	82.9	91.2	117	89.5	584

Note.--Records prior to September 1953 not previously published.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1947	0.39	0.48	0.44	3.33	1.35	3.28	5.36	1.88	0.99	0.88	0.62	0.23	19.28
1948	.17	1.17	3.51	2.18	4.07	5.98	2.23	.27	4.77	2.98	1.09	28.87	28.87
1949	.62	8.56	5.99	2.96	6.56	2.92	4.82	2.57	.70	2.55	1.18	.44	37.87
1950	.29	.30	.86	1.03	1.29	4.25	1.77	.73	.55	.68	.45	.56	12.76
1951	.21	.21	.67	.99	.80	1.07	1.22	.32	.17	.29	.09	.32	6.37
1952	.15	.38	1.38	1.38	2.15	7.68	2.08	1.59	.50	1.15	.20	.24	17.88
1953	.09	.13	.88	2.66	3.63	2.61	4.68	5.56	.49	.90	.23	.74	21.63
1954	.46	.43	6.06	1.82	.98	2.13	.90	.48	.17	.27	.07	.03	13.80
1955	.04	.10	.26	1.53	1.64	.89	1.81	.86	.22	2.45	.63	.08	10.49
1956	.16	.37	.38	.38	1.88	2.98	1.48	.54	.18	.21	.05	.35	8.96
1957	.33	.26	3.17	1.60	1.30	2.25	3.93	1.64	.65	.84	.09	.15	16.21
1958	.37	2.93	1.83	1.35	2.77	6.84	3.57	.67	.48	1.37	.46	.25	22.89
1959	.22	.31	.53	1.17	3.21	4.67	1.80	.80	1.80	.49	.20	.75	15.95
1960	1.13	1.05	1.57	4.14	3.88	4.00	6.17	1.19	.28	.32	.41	.31	24.45

Note.--Records prior to September 1953 not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1947	-	10,300	Apr. 3, 1947	32	460	1.42	19.28	545	22.75
1948	-	13,000	July 11, 1948	31	689	2.12	28.87	888	37.20
1949	-	20,600	Nov. 27, 1948	74	906	2.82	37.87	626	26.15
1950	-	4,270	Mar. 7, 1950	18	305	.94	12.76	296	12.40
1951	-	1,860	Apr. 23, 1951	8.8	152	.47	6.37	172	7.18
1952	-	11,900	Mar. 25, 1952	18	426	1.31	17.88	408	17.07
1953	1434	9,290	May 1, 1953	20	541	1.66	21.63	681	28.45
1954	1434	9,740	Dec. 5, 1953	6.4	330	1.02	13.80	173	7.25
1955	1434	5,310	July 12, 1955	6.4	251	.772	10.49	263	11.00
1956	1434	4,680	Mar. 17, 1956	6.4	214	.658	8.96	282	11.81
1957	1504	11,600	Apr. 6, 1957	9.6	388	1.19	16.21	421	17.58
1958	1554	21,100	Mar. 8, 1958	27	548	1.69	22.89	451	18.82
1959	1624	a3,200	Mar. 6, 1959	24	382	1.18	15.95	447	18.64
1960	1704	9,400	Apr. 3, 1960	25	584	1.80	24.45	-	-

a Maximum daily discharge.

Note.--Records prior to September 1953 not previously published.

3430. 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 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 1958.

Gage.--Water-stage recorder. Datum of gage is 143.07 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Average discharge.--5 years (1953-58), 70.3 cfs.

Extremes.--1953-58: Maximum discharge, 6,250 cfs Sept. 25, 1956 (gage height, 20.2 ft); minimum daily, 0.6 cfs Aug. 26, 1956.

Remarks.--Diurnal fluctuation at low flow caused by diversion of an average of approximately 0.6 cfs for municipal water supply for city of Eufaula.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1954	62.2	49.6	516	145	95.5	106	67.5	43.8	15.3	25.8	7.79	4.52	95.6
1955	7.71	13.8	19.3	27.5	105	21.8	124	37.9	18.0	41.0	18.9	8.27	36.3
1956	6.35	10.3	14.3	23.1	92.4	96.9	45.9	22.1	9.12	11.1	5.24	208	44.9
1957	69.7	25.6	223	67.1	67.2	30.1	370	194	57.1	27.0	13.0	29.3	103
1958	38.7	84.7	85.1	82.9	140	165	132	38.4	26.1	48.2	16.5	9.62	71.7

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1954	0.77	0.59	6.37	1.80	1.07	1.32	0.81	0.54	0.18	0.32	0.10	0.05	13.92
1955	.10	.16	.24	.34	1.17	.27	1.48	.47	.21	.51	.23	.10	5.28
1956	.08	.12	.18	.29	1.07	1.20	.55	.27	.11	.14	.06	2.48	6.55
1957	.86	.31	2.75	.83	.76	1.11	4.42	2.40	.68	.33	.16	.35	14.95
1958	.48	1.01	1.05	1.02	1.56	2.04	1.57	.47	.31	.60	.20	.11	10.42

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1954	1334	4,010	Dec. 6, 1953	2.3	95.6	1.02	13.92	45.9	6.69
1955	1384	2,560	Feb. 6, 1955	3.2	36.3	.589	5.28	35.5	5.16
1956	1434	6,250	Sept. 25, 1956	.6	44.9	.481	6.55	69.2	10.09
1957	1504	4,720	Apr. 5, 1957	1.7	103	1.10	14.95	93.4	13.57
1958	1554	1,290	Feb. 27, 1958	2.9	71.7	.768	10.42	-	-

3432. Pataula Creek near Lumpkin, Ga.

Location.--Lat 31°56', long 84°48', on downstream side of highway bridge on U.S. Highway 27, 1.3 miles upstream from Brier Creek and 8 miles south of Lumpkin, Stewart County.

Drainage area.--70 sq mi, approximately.

Records available.--Water years 1950-58 (annual maximum) and occasional low-flow measurements, 1943, 1950-52, 1954. June 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 224.34 ft above mean sea level. May 17, 1949, to June 21, 1958, crest-stage gage at same site and datum.

Extremes.--1949-60: Maximum gage height, 6.99 ft May 3, 1953 (discharge not determined). 1958-60: Maximum discharge, 1,940 cfs Feb. 11, 1960 (gage height, 5.90 ft); minimum, 30 cfs Sept. 10, 1958.

A discharge of 12.0 cfs was measured on Sept. 28, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	76.5	52.4	38.4	-
1959	39.6	51.0	77.3	96.6	178	178	133	116	97.5	85.7	55.7	58.6	96.7
1960	87.3	95.3	99.4	103	232	158	229	88.5	90.0	63.6	76.0	57.5	114

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	1.26	0.86	0.61	-
1959	0.65	0.81	1.27	1.59	2.64	2.93	2.12	1.91	1.55	1.41	.92	.95	18.73
1960	1.44	1.52	1.64	1.70	3.57	2.61	3.65	1.45	1.44	1.05	1.26	.92	22.25

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	1,390	Sept. 1, 1950	-	-	-	-	-	-
1951	-	270	Apr. 1, 1951	-	-	-	-	-	-
1952	-	875	Feb. 15, 1952	-	-	-	-	-	-
1953	-	-	May 3, 1953	-	-	-	-	-	-
1954	-	800	Dec. 5, 1953	-	-	-	-	-	-
1955	-	582	Apr. 14, 1955	-	-	-	-	-	-
1956	-	1,560	Sept. 25, 1956	-	-	-	-	-	-
1957	-	1,120	Apr. 7, 1957	-	-	-	-	-	-
1958	1624	502	June 21, 1958	-	-	-	-	-	-
1959	1624	1,050	Feb. 4, 1959	34	96.7	1.38	18.73	106	20.60
1960	1704	1,940	Feb. 11, 1960	38	114	1.63	22.25	-	-

Note.--Dates given for maximum discharges for water years 1950-57 are most probable dates, based on study of records for nearby stations and precipitation records.

3433. Abbie Creek near Haleburg, Ala.

Location.--Lat 31°28', long 85°10', in NE¼ sec.30, T.6 N., R.29 E., on right bank at downstream side of pier of bridge on State Highway 95, 1¼ miles upstream from Peterman Creek, 4¼ miles northwest of Haleburg, 7¼ miles upstream from mouth, and 9 miles south-east of Abbeville.

Drainage area.--144 sq mi.

Records available.--June 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 145.74 ft above mean sea level, datum of 1929.

Extremes.--1958-60: Maximum discharge, 2,880 cfs Apr. 5, 1960 (gage height, 11.98 ft); minimum, 49 cfs Sept. 24, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	195	121	98.2	-
1959	67.3	78.8	109	194	412	422	252	126	131	129	83.2	97.9	174
1960	191	171	176	171	412	511	492	179	122	128	100	105	212

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	1.56	0.97	0.76	-
1959	0.54	0.61	0.88	1.55	2.98	3.38	1.95	1.01	1.01	1.03	.67	.76	16.37
1960	1.53	1.33	1.41	1.37	3.06	2.49	3.81	1.43	.95	1.03	.80	.82	20.03

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1958	1554	-	-	-	-	-	-	-	-
1959	1624	1,460	Feb. 5, 1959	55	174	1.21	16.37	197	18.61
1960	1704	2,880	Apr. 5, 1960	49	212	1.47	20.03	-	-

3435. 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 1960. 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). Prior to Nov. 15, 1928, chain gage at same site and datum.

Average discharge.--32 years (1928-60), 10,540 cfs (unadjusted).

Extremes.--1928-60: Maximum discharge, 203,000 cfs Mar. 18, 1929 (gage height, 56.05 ft), from rating curve extended above 115,000 cfs; minimum daily, 1,210 cfs Oct. 6, 1954. Maximum stage known since at least 1827, that of Mar. 18, 1929.

Remarks.--Flow regulated by Lake Sidney Lanier since January 1956 and Bartletts Ferry Reservoir (Lake Harding).

Cooperation.--Records for water years 1958-60 furnished by Corps of Engineers and reviewed by Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4,005	4,018	6,406	7,136	7,022	9,574	14,460	6,237	4,670	4,610	3,335	3,413	6,229
1952	2,617	5,657	13,340	10,500	14,940	35,200	13,810	9,876	7,113	3,252	4,359	4,185	10,410
1953	2,693	3,020	6,201	16,310	18,450	15,640	15,510	26,980	6,935	11,030	5,122	6,046	11,140
1954	5,327	4,105	23,810	15,170	10,850	12,680	9,858	6,451	4,458	3,763	2,545	1,597	8,385
1955	1,371	2,034	3,518	7,400	11,780	6,806	12,300	6,594	3,572	6,898	4,595	2,293	5,705
1956	1,982	2,624	3,512	2,923	10,980	15,370	12,150	6,070	3,546	4,128	2,225	6,681	5,986
1957	4,198	3,191	11,200	9,085	8,836	12,170	22,830	11,800	5,824	4,494	2,985	3,627	8,344
1958	5,536	10,490	10,320	8,602	15,080	23,140	17,800	7,209	5,535	9,771	6,895	6,157	10,510
1959	5,015	4,012	5,398	9,109	18,740	19,710	11,800	7,771	16,100	7,036	5,598	5,593	9,586
1960	7,948	6,617	7,782	14,320	23,970	18,850	29,570	8,775	6,274	5,944	7,060	6,250	11,880

Monthly and yearly runoff, in inches (adjusted)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.57	0.56	0.92	1.02	0.91	1.37	2.01	0.89	0.65	0.66	0.48	0.47	10.51
1952	.37	.79	1.91	1.51	2.01	5.05	1.92	1.42	.99	.47	.62	.58	17.64
1953	.39	.42	.89	2.34	2.38	2.25	2.15	3.87	.96	1.58	.73	.84	18.80
1954	.76	.57	3.41	2.18	1.38	1.82	1.37	.92	.62	.54	.37	.22	14.16
1955	.20	.28	.50	1.06	1.53	.98	1.71	.92	.50	.99	.66	.32	9.65
1956	.28	.36	.50	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Note.--Monthly figures of runoff, in inches, in January 1956 to September 1957, previously published in WSP 1434 and 1504, are subject to error because of storage in Lake Sidney Lanier. Those figures are not published herein.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted a/			Observed	Adjusted a/	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	-	-	13.60
1951	1204	28,800	Apr. 24, 1951	2,180	6,229	-	0.775	10.51	8,064	-	11.53
1952	1234	71,100	Mar. 26, 1952	2,180	10,410	-	1.29	17.64	9,594	-	16.27
1953	1274	92,000	May 4, 1953	2,440	11,140	-	1.39	18.80	12,950	-	21.84
1954	1334	57,300	Dec. 7, 1953	1,260	8,385	-	1.04	14.16	6,155	-	10.40
1955	1384	39,500	Apr. 16, 1955	1,210	5,705	-	.710	9.65	5,805	-	9.81
1956	1434	51,200	Mar. 19, 1956	1,640	5,986	\$6,546	\$1.814	\$11.08	6,872	\$7,579	\$12.64
1957	1504	74,000	Apr. 8, 1957	1,900	8,344	\$9,084	\$1.13	\$15.34	8,963	\$9,943	16.65
1958	1554	74,900	Mar. 10, 1958	3,340	10,510	11,590	1.44	19.57	9,519	10,120	17.10
1959	1624	51,700	June 4, 1959	2,760	9,586	9,827	1.20	16.29	10,250	10,480	17.71
1960	1704	84,800	Apr. 5, 1960	2,540	11,880	11,880	1.48	20.12	-	-	-

* Not previously published.

a Adjusted for change in contents in Lake Sidney Lanier and Bartletts Ferry Reservoir beginning January 1956. These figures supersede unadjusted figures previously published in water-supply papers.

Note.--Monthly figures of discharge per square mile and runoff in inches January 1956 to September 1957, previously published in water-supply papers, are subject to error because of storage in Lake Sidney Lanier. Those figures are not published herein.

3437. Stevenson Creek near Headland, Ala.

Location.--Lat 31°21', long 85°13', in S $\frac{1}{2}$ sec.36. T.5 N., R.28 E., near left bank on upstream side of bridge on State Highway 134, 1 mile upstream from mouth and 9 $\frac{1}{2}$ miles east of Headland.

Drainage area.--12.4 sq mi.

Records available.--June 1959 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 150.39 ft above mean sea level, datum of 1929.

Extremes.--1959-60: Maximum discharge, 728 cfs Apr. 4, 1960 (gage height, 7.92 ft); minimum, 7.8 cfs Oct. 2, 1959 (gage height, 1.70 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	15.4	15.5	13.4	-
1960	24.3	18.6	18.0	18.6	23.1	23.7	41.7	21.0	15.6	19.8	14.6	17.8	21.4

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	1.43	1.44	1.20	-
1960	2.26	1.68	1.68	1.73	2.01	2.20	3.75	1.95	1.40	1.84	1.36	1.60	23.46

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	1704	a233	Aug. 1, 1959	b9.9	-	-	-	-	-
1960	1704	728	Apr. 4, 1960	9.4	21.4	1.73	23.46	-	-

a Maximum during period, June to September.

b Minimum day during period, June to September.

3443. Camp Creek near Fayetteville, Ga.

Location.--Lat 33°31'00", long 84°25'39", at downstream side of bridge on State Highway 85, 3.5 miles upstream from mouth and 5.2 miles north of Fayetteville, Fayette County.

Drainage area.--17.2 sq mi.

Records available.--June to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 800 ft (from topographic map).

Extremes.--June to September 1960: Maximum discharge, 480 cfs Sept. 28 (gage height, 7.00 ft); minimum, 3.9 cfs Aug. 4.

Remarks.--Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	8.59	6.98	7.94	15.4	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	0.56	0.47	0.53	1.00	-

3445. 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, 1½ miles downstream from Shoal Creek, 5½ 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 1960.

Gage.--Water-stage recorder. Datum of gage is 711.44 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). Prior to Aug. 25, 1938, staff gage at present site at datum 3.00 ft higher. Aug. 25, 1938, to May 5, 1941, wire-weight gage at present site and datum.

Average discharge.--23 years (1937-60), 317 cfs.

Extremes.--1937-60: Maximum discharge, 13,200 cfs Nov. 27, 1948 (gage height, 18.0 ft); minimum daily, 2.5 cfs Oct. 20, 1954.

Flood of Mar. 14 or 15, 1929, reached a stage of 17.9 ft (present datum), from floodmark located by local resident (discharge, 15,300 cfs).

Remarks.--City of Griffin diverts for municipal water supply at pumping plant 6 miles above station (average diversion increased from about 3 cfs in 1941 to 6½ cfs in 1960). Part of diversion (average, 1½ cfs 1951-60) is discharged as sewage effluent into tributary of Towaliga River, and part (average, 1-1/3 cfs 1951-60) returned as sewage effluent to Flint River about 49 miles below station. Some diurnal fluctuation at low flow.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	77.6	94.1	200	220	246	309	447	112	120	217	62.4	82.1	182
1952	66.4	171	666	382	453	1,571	350	225	146	46.6	76.9	135	359
1953	57.0	82.1	193	609	711	520	377	743	157	327	94.1	237	341
1954	125	120	869	363	267	372	194	141	85.8	54.5	46.5	11.2	222
1955	6.01	50.3	119	367	589	278	436	156	98.5	256	107	51.8	192
1956	57.1	101	109	107	463	765	784	131	79.3	82.1	40.4	323	252
1957	84.7	98.0	480	483	325	537	799	218	106	82.2	57.0	68.7	278
1958	107	490	385	309	852	680	564	247	125	389	150	78.0	361
1959	77.8	87.8	134	255	563	544	323	194	547	332	100	105	270
1960	240	139	173	633	938	742	973	168	93.8	96.8	115	79.2	363

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.33	0.39	0.85	0.93	0.94	1.31	1.83	0.48	0.49	0.92	0.26	0.34	9.07
1952	.28	.70	2.82	1.61	1.80	6.66	1.44	.95	.60	.20	.33	.55	17.94
1953	.24	.34	.82	2.58	2.72	2.20	1.55	3.15	.64	1.38	.40	.97	16.99
1954	.53	.49	3.68	1.53	1.02	1.58	.80	.60	.35	.23	.20	.05	11.06
1955	.05	.21	.50	1.56	1.49	1.18	1.78	.66	.40	1.08	.45	.21	9.55
1956	.24	.41	.46	.45	1.83	3.24	3.21	.55	.33	.35	.17	1.33	12.57
1957	.36	.40	2.03	2.05	1.24	2.27	3.28	.92	.44	.35	.24	.28	13.86
1958	.45	2.01	1.64	1.31	3.26	2.88	2.31	1.05	.51	1.65	.64	.32	18.03
1959	.33	.36	.57	1.08	2.16	2.31	1.33	.82	2.24	1.41	.42	.45	15.46
1960	1.02	.57	.73	2.69	3.72	3.15	3.99	.71	.38	.41	.49	.32	18.18

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	199	9.96
1951	1204	920	Apr. 23, 1951	13	182	0.669	9.07	227	11.30
1952	1234	6,480	Mar. 4, 1952	26	359	1.32	17.94	311	15.54
1953	1274	2,860	May 1, 1953	44	341	1.25	16.99	407	20.29
1954	1354	2,640	Dec. 7, 1953	5.7	222	.816	11.06	142	7.10
1955	1384	2,320	Apr. 14, 1955	2.5	192	.706	9.55	199	9.92
1956	1434	4,590	Mar. 18, 1956	6.1	252	.926	12.57	285	14.25
1957	1504	5,330	Apr. 5, 1957	11	278	1.02	13.86	304	15.17
1958	1554	4,730	Feb. 7, 1958	44	361	1.33	18.03	304	15.19
1959	1624	5,180	June 2, 1959	45	270	.993	13.46	291	14.52
1960	1704	4,730	Apr. 4, 1960	42	363	1.33	18.18	-	-

3450. Flint River near Molena, Ga.

Location.--Lat 32°59', long 84°32', near right bank at downstream end of pier of bridge on State Highway 18, 500 ft downstream from Southern Railway bridge, half a mile downstream from Pappys Creek, 1½ miles upstream from Elkins Creek, 2 miles southwest of Molena, Pike County, and at mile 278.1.

Drainage area.--990 sq mi, approximately.

Records available.--June 1897 to May 1898 (gage heights and discharge measurements only), October 1945 to June 1953. Monthly discharge only for October and November 1945, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 646.78 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). June 1897 to May 1898, wire-weight gage at site 500 ft upstream at different datum.

Average discharge.--7 years (1945-52), 1,355 cfs.

Extremes.--1945-53: Maximum discharge, 31,100 cfs Nov. 27, 1948 (gage height, 25.9 ft); minimum, 46 cfs Sept. 10, 1951.

Maximum stage known since at least 1939, that of Nov. 27, 1948.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	278	320	736	802	813	1,127	1,710	495	372	596	216	331	648
1952	206	573	2,123	1,390	1,728	5,684	1,304	785	524	136	257	490	1,270
1953	201	286	720	2,268	2,931	2,090	1,577	3,188	871	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.32	0.36	0.86	0.93	0.85	1.31	1.93	0.58	0.42	0.69	0.25	0.37	8.87
1952	.24	.65	2.47	1.61	1.89	6.62	1.47	.91	.59	.16	.30	.55	17.46
1953	.23	.32	.84	2.64	3.08	2.43	1.77	3.71	.98	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	692	9.48
1951	1204	3,780	Apr. 23, 1951	51	648	0.655	8.87	780	10.69
1952	1234	17,400	Mar. 5, 1952	80	1,270	1.28	17.46	1,127	15.49
1953	1274	10,700	May 1, 1953	163	-	-	-	-	-

3465. Potato Creek near Thomaston, Ga.

Location.--Lat 32°54'15", long 84°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 2½ miles northwest of Thomaston, Upson County.

Drainage area.--186 sq mi.

Records available.--October 1937 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Altitude of gage is 600 ft (by barometer). Prior to July 23, 1938, wire-weight gage at highway bridge 300 ft upstream at same datum.

Average discharge.--23 years (1937-60), 219 cfs.

Extremes.--1937-60: 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, 0.78 cfs Oct. 11, 1954.

Remarks.--Some regulation at low flow caused by diversion for municipal and industrial supplies at Thomaston.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	51.8	46.8	143	154	147	200	255	72.0	30.0	67.7	24.6	34.5	102
1952	24.6	82.7	231	247	383	1,239	306	151	111	30.1	56.6	113	248
1953	50.7	58.3	127	348	473	397	404	702	163	495	109	484	317
1954	152	124	626	300	215	253	123	86.6	61.0	46.2	24.0	6.16	169
1955	2.55	33.6	83.7	199	215	168	309	169	68.0	127	75.1	19.7	122
1956	14.1	66.6	64.7	64.6	303	451	352	164	58.9	93.7	38.7	203	155
1957	76.2	67.9	369	297	249	493	518	379	168	78.8	57.8	77.8	236
1958	119	506	310	500	467	507	477	211	118	137	61.6	32.6	269
1959	31.5	35.6	67.4	143	383	368	213	203	441	115	43.6	66.7	174
1960	156	128	138	540	664	602	603	180	96.4	67.9	102	79.6	278

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.32	0.28	0.89	0.95	0.82	1.24	1.53	0.45	0.18	0.42	0.15	0.21	7.44
1952	.15	.50	1.43	1.53	2.22	7.68	1.84	.94	.67	.19	.35	.68	18.18
1953	.31	.35	.79	2.16	2.64	2.46	2.42	4.35	.98	3.07	.68	2.90	23.11
1954	.94	.74	3.88	1.86	1.21	1.57	.74	.54	.37	.29	.15	.04	12.33
1955	.02	.20	.52	1.23	1.21	1.04	1.85	1.05	.41	.79	.47	.12	8.91
1956	.09	.40	.40	.40	1.76	2.79	2.11	1.02	.35	.58	.24	1.22	11.36
1957	.47	.41	2.28	1.84	1.40	3.06	3.10	2.35	1.01	.49	.36	.47	17.24
1958	.74	3.04	1.92	1.86	2.61	3.15	2.86	1.30	.71	.85	.38	.20	19.62
1959	.19	.21	.42	.89	2.14	2.28	1.28	1.26	2.64	.70	.27	.40	12.68
1960	.97	.77	.86	3.34	3.85	3.74	3.62	1.12	.58	.42	.63	.48	20.38

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	129	9.41
1951	1204	997	Apr. 24, 1951	2.8	102	0.548	7.44	110	8.03
1952	1234	5,810	Mar. 5, 1952	8.6	248	1.33	18.18	240	17.55
1953	1274	4,240	Apr. 30, 1953	44	317	1.70	23.11	373	27.22
1954	1334	2,300	Dec. 6, 1953	2.4	169	.909	12.33	102	7.51
1955	1384	1,580	Apr. 15, 1955	.78	122	.656	8.91	124	9.06
1956	1434	2,590	Feb. 28, 1956	6.7	155	.833	11.36	186	13.63
1957	1504	3,670	Apr. 6, 1957	21	236	1.27	17.24	271	19.78
1958	1554	5,260	Nov. 19, 1957	13	269	1.45	19.62	202	14.74
1959	1624	5,480	June 2, 1959	17	174	.935	12.68	198	14.46
1960	1704	2,980	Mar. 30, 1960	22	278	1.49	20.38	-	-

3475. 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.--1,850 sq mi, approximately.

Records available.--July 1911 to May 1923, July 1928 to December 1931, March 1937 to September 1960.

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 $2\frac{1}{2}$ 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.--37 years (1911-22, 1928-31, 1937-60), 2,342 cfs.

Extremes.--1912-23, 1928-31, 1937-60: Maximum discharge, 92,000 cfs Mar. 15, 1929 (gage height, 38.4 ft, from graph based on gage readings).

1911-23, 1928-31, 1937-60: Minimum discharge observed, 92 cfs Oct. 4, 6, 7, 1931. Maximum stage known since at least 1912, that of Mar. 15, 1929.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	603	583	1,488	1,557	1,530	2,035	2,858	810	525	1,071	515	660	1,184
1952	437	1,068	3,205	2,555	3,621	10,150	2,628	1,763	1,260	383	568	1,034	2,392
1953	469	587	1,419	3,813	5,550	3,683	3,279	6,298	1,448	3,482	936	2,908	2,809
1954	1,384	1,094	5,947	2,752	2,050	2,824	1,680	1,218	669	610	404	170	1,740
1955	108	371	828	2,259	2,387	1,631	2,861	1,130	607	1,262	654	278	1,188
1956	306	732	765	715	3,198	4,609	4,097	1,111	575	1,067	476	1,957	1,623
1957	798	661	3,461	2,891	2,534	4,275	5,450	2,835	1,202	712	910	782	2,209
1958	1,124	3,724	2,684	2,466	4,700	5,079	4,014	1,495	1,025	2,317	1,006	516	2,496
1959	480	559	858	1,688	4,102	3,932	2,297	2,307	4,325	1,508	608	949	1,949
1960	1,690	1,116	1,262	4,647	6,462	5,361	6,028	1,509	835	680	946	959	2,608

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.38	0.35	0.93	0.97	0.86	1.27	1.72	0.50	0.32	0.67	0.32	0.40	8.69
1952	.27	.64	1.99	1.59	2.11	6.33	1.58	1.10	.76	.24	.35	.62	17.58
1953	.29	.35	.88	2.38	3.12	2.29	1.98	3.92	.87	2.17	.58	1.75	20.58
1954	.86	.66	3.70	1.72	1.16	1.76	1.01	.76	.40	.38	.25	.10	12.76
1955	.07	.22	.52	1.40	1.34	1.02	1.73	.70	.37	.79	.41	.17	8.74
1956	.19	.44	.48	.44	1.87	2.87	2.47	.69	.35	.67	.30	1.18	11.95
1957	†.50	.40	2.16	1.80	1.43	2.66	3.29	1.76	.73	.44	.57	.47	16.21
1958	.70	2.24	1.67	1.53	2.64	3.17	2.42	.95	.62	1.44	.63	.31	18.30
1959	.30	.34	.53	1.05	2.31	2.46	1.38	1.44	2.61	.94	.58	.57	14.31
1960	1.05	.67	.79	2.89	3.76	3.34	3.64	.94	.50	.42	.59	.58	19.17

† Corrected.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,362	10.00
1951	1204	8,940	Apr. 23, 1951	125	1,184	0.640	8.69	1,355	9.93
1952	1234	37,700	Mar. 4, 1952	260	2,392	1.29	17.58	2,204	16.20
1953	1274	35,800	May 1, 1953	390	2,809	1.52	20.58	3,313	24.28
1954	1334	18,300	Dec. 6, 1953	126	1,740	.941	12.76	1,137	8.35
1955	1384	11,400	Apr. 14, 1955	97	1,188	.642	8.74	1,230	9.04
1956	1434	16,000	Mar. 17, 1956	152	1,623	.877	11.95	1,887	13.90
1957	1504	26,000	Apr. 6, 1957	245	2,209	1.19	16.21	2,422	17.76
1958	1554	21,100	Nov. 19, 1957	355	2,496	1.35	18.30	2,027	14.86
1959	1624	34,400	June 2, 1959	363	1,949	1.05	14.31	2,132	15.65
1960	1704	22,200	Mar. 30-31, 1960	363	2,608	1.41	19.17	-	-

3485. Whitewater Creek near Butler, Ga.

Location--Lat 32°28', long 84°16', on left bank at downstream edge of bridge on U.S. Highway 19, 500 ft upstream from Rambulette Creek, 6½ miles south of Butler, Taylor County, and 8 miles upstream from Cedar Creek.

Drainage area--80 sq mi, approximately.

Records available--October 1943 to September 1951.

Gage--Staff gage. Datum of gage is 365.85 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge--8 years (1943-51), 156 cfs.

Extremes--1943-51: Maximum discharge, 1,340 cfs Mar. 23, 1944 (gage height, 6.5 ft); minimum daily, 98 cfs June 13, 1945.

Remarks--Variable backwater from Rambulette Creek which is regulated by Upton Mill.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	131	128	146	138	131	141	137	119	117	134	116	119	130

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.89	1.78	2.10	1.98	1.71	2.03	1.91	1.72	1.63	1.94	1.67	1.66	22.02

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	145	24.65
1951	1204	284	Dec. 30, 1950	104	130	1.62	22.02	-	-

3490. 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 mouth of 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 1960.

Gage.--Water-stage recorder. Datum of gage is 365.85 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--9 years (1951-60), 166 cfs.

Extremes.--1951-60: Maximum discharge, 2,160 cfs May 4, 1957 (gage height, 7.01 ft), from rating curve extended above 750 cfs on basis of current-meter measurement (1,270 cfs) made at site above Rambulette Creek, adjusted to gage site; minimum daily, 103 cfs Sept. 16, 23, 1956.
Maximum stage since at least 1944, that of May 4, 1957, on basis of records at site 500 ft upstream.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	127	155	160	143	171	211	174	168	155	128	144	139	156
1953	120	130	148	164	177	163	205	232	179	242	186	234	182
1954	192	188	272	206	193	200	181	170	148	150	141	135	181
1955	135	158	150	171	163	140	167	142	128	160	134	124	148
1956	126	131	129	129	161	154	143	123	120	149	118	137	135
1957	124	119	162	149	140	156	174	257	169	161	135	157	159
1958	152	167	166	162	173	223	208	166	164	170	144	133	169
1959	137	139	157	169	212	214	179	177	202	162	163	179	174
1960	198	169	171	194	219	222	230	173	176	162	167	170	187

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	1.57	1.85	1.97	1.76	1.97	2.61	2.08	2.08	1.85	1.58	1.78	1.66	22.76
1953	1.48	1.55	1.82	2.03	1.98	2.02	2.44	2.86	2.14	2.99	2.29	2.80	26.40
1954	2.38	2.24	3.36	2.55	2.16	2.47	2.16	2.10	1.76	1.86	1.74	1.58	26.36
1955	1.67	1.89	1.86	2.11	1.82	1.73	2.00	1.75	1.53	1.97	1.65	1.48	21.46
1956	1.56	1.56	1.59	1.59	1.86	1.90	1.71	1.52	1.43	1.84	1.45	1.64	19.65
1957	1.53	1.42	1.99	1.84	1.56	1.92	2.08	3.17	2.02	1.98	1.67	1.87	23.05
1958	1.88	2.00	2.05	1.99	1.93	2.76	2.49	2.05	1.96	2.10	1.78	1.58	24.57
1959	1.70	1.66	1.94	2.08	2.36	2.64	2.14	2.19	2.41	1.99	2.02	2.14	25.28
1960	2.44	2.02	2.11	2.40	2.52	2.74	2.74	2.13	2.10	1.89	2.06	2.03	27.28

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234	503	Mar. 24, 1952	112	156	1.67	22.76	152	22.22
1953	1274	1,120	May 1, 1953	112	182	1.95	26.40	203	29.53
1954	1334	632	Dec. 4, 1953	128	181	1.94	26.36	163	23.80
1955	1384	452	Apr. 14, 1955	115	148	1.58	21.46	143	20.75
1956	1434	440	Sept. 26, 1956	103	135	1.45	19.65	136	19.88
1957	1504	2,160	May 4, 1957	112	159	1.70	23.05	166	24.04
1958	1554	668	Mar. 8, 1958	124	169	1.81	24.57	165	23.94
1959	1624	580	June 2, 1959	128	174	1.86	25.28	183	26.55
1960	1704	615	Mar. 30, 1960	142	187	2.00	27.28	-	-

3495. Flint River at Montezuma, Ga.

Location.--Lat 32°18', long 84°03', near left bank on downstream end of pier of bridge on State Highways 26 and 49, just upstream from Buck Creek, 1,000 ft upstream from Central of Georgia Railway bridge, 1,400 ft upstream from Atlanta, Birmingham & Coast Railroad bridge, 1 mile west of Montezuma, Macon County, and at mile 180.8.

Drainage area.--2,900 sq mi, approximately, includes that of Buck Creek.

Records available.--October 1904 to December 1912 (published as "near Montezuma"), July 1930 to September 1960. Monthly discharge only for some periods published in WSP 1304. 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, Oct. 1, 1934, to Dec. 12, 1941, wire-weight gage, and Dec. 13, 1941, to Oct. 25, 1955, water-stage recorder, at site 500 ft downstream at same datum.

Average discharge.--38 years (1904-12, 1930-60), 3,463 cfs.

Extremes.--1904-12, 1930-60: Maximum discharge, 68,900 cfs Nov. 30, 1948 (gage height, 25.2 ft); minimum daily, 585 cfs Oct. 26, 1941, Sept. 23, 1956. Maximum stage known since at least 1897, 27.4 ft Mar. 17, 1929, from U.S. Weather Bureau (discharge, 92,300 cfs, from rating curve extended above 85,000 cfs by logarithmic plotting). Flood of Mar. 2, 1897, reached a stage of 26.0 ft (discharge, 97,000 cfs) and flood of Jan. 20, 1925, reached a stage of 25.0 ft (discharge, 85,000 cfs), from information as explained above.

Remarks.--Moderate diurnal fluctuation at low flow caused by powerplant above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,369	1,341	2,293	2,921	2,508	3,052	4,329	1,656	1,164	1,834	1,268	1,273	2,081
1952	1,052	1,959	4,121	3,392	5,496	13,600	4,638	3,009	2,462	1,131	1,279	1,775	3,660
1953	1,095	1,334	2,182	5,442	5,851	6,401	5,173	9,758	2,671	5,947	2,272	4,105	4,351
1954	3,541	2,151	8,949	4,701	3,379	4,105	3,173	2,161	1,356	1,285	999	702	3,051
1955	639	1,038	1,554	3,327	3,710	2,574	4,663	1,933	1,264	2,008	1,480	864	2,076
1956	807	1,254	1,509	1,443	4,357	6,037	5,659	1,911	1,200	2,095	1,228	1,812	2,432
1957	2,568	1,287	4,732	3,803	3,793	5,945	7,387	5,327	2,564	1,735	1,439	1,509	3,460
1958	2,365	4,805	4,874	4,045	6,245	8,447	6,255	2,799	2,081	3,824	2,152	1,256	4,066
1959	1,205	1,263	1,823	2,905	7,086	6,465	4,435	3,389	6,122	2,442	1,556	1,938	3,355
1960	3,095	2,553	2,487	5,548	10,190	6,807	10,450	2,847	1,894	1,616	1,844	1,433	4,199

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.54	0.52	0.91	1.16	0.90	1.21	1.66	0.66	0.45	0.73	0.50	0.49	9.73
1952	.42	.75	1.64	1.35	2.05	5.41	1.78	1.20	.95	.45	.51	.68	17.19
1953	.44	.51	.87	2.17	2.10	2.55	1.99	3.87	1.03	2.36	.90	1.58	20.37
1954	1.41	.83	3.56	1.87	1.21	1.63	1.22	.68	.51	.51	.40	.27	14.28
1955	.25	.40	.62	1.33	1.33	1.02	1.80	.77	.49	.80	.59	.33	9.73
1956	.32	.48	.60	.57	1.62	2.40	2.18	.76	.46	.83	.49	.70	11.41
1957	.94	.50	1.88	1.51	1.36	2.36	2.84	2.12	.91	.69	.60	.58	16.29
1958	.94	1.85	1.86	1.60	2.24	3.36	2.41	1.11	.80	1.52	.86	.48	19.03
1959	.48	.49	.73	1.15	2.54	2.57	1.71	1.35	2.35	.97	.62	.75	15.71
1960	1.23	.98	.99	2.20	3.79	2.71	4.02	1.13	.73	.64	.73	.55	19.70

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean
		Discharge	Date					
1950	-	-	-	-	-	-	-	2,411
1951	1204	8,700	Apr. 27, 1951	688	2,081	0.718	9.73	2,260
1952	1234	36,500	Mar. 7, 1952	810	3,660	1.26	17.19	3,448
1953	1274	34,500	May 4, 1953	950	4,351	1.50	20.37	5,201
1954	1334	21,200	Dec. 9, 1953	635	3,051	1.05	14.28	2,085
1955	1384	13,500	Apr. 18, 1955	600	2,076	.716	9.73	2,104
1956	1434	17,500	Mar. 21, 1956	585	2,432	.839	11.41	2,840
1957	1504	26,000	Apr. 9, 1957	870	3,480	1.20	16.29	3,763
1958	1554	21,800	Mar. 11, 1958	1,050	4,066	1.40	19.03	3,435
1959	1624	28,900	June 5, 1959	1,050	3,555	1.16	15.71	3,678
1960	1704	25,200	Apr. 7, 1960	1,070	4,199	1.45	19.70	-

3499. Turkey Creek at Byromville, Ga.

Location.--Lat 32°12', long 83°54', on downstream side of highway bridge on State Highway 90, 0.5 mile southeast of Byromville, Dooly County, and 11 miles upstream from mouth.

Drainage area.--45 sq mi, approximately.

Records available.--Water years 1951-58 (annual maximum), June 1958 to September 1960.

Gage.--Water-stage recorder. June 24, 1950, to June 19, 1958, crest-stage gage at site 50 ft upstream (revised) at same datum.

Extremes.--1950-60: Maximum discharge, 2,140 cfs Apr. 5, 1960 (gage height, 11.49 ft).
1958-60: Minimum discharge, 4.4 cfs Sept. 21, 22, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	27.0	21.1	6.34	-
1959	6.47	8.90	11.2	25.3	206	171	60.5	18.8	19.5	8.69	7.52	7.89	44.7
1960	11.2	11.0	13.1	38.3	137	95.8	181	27.8	19.1	12.0	9.05	7.13	46.3

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	0.69	0.54	0.16	-
1959	0.17	0.22	0.29	0.60	4.77	4.38	1.50	0.48	0.48	.22	.19	.20	13.50
1960	.29	.27	.34	.98	3.28	2.46	4.48	.71	.47	.31	.25	.18	14.00

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	136	Mar. 20, 1951	-	-	-	-	-	-
1952	-	474	Mar. 12, 1952	-	-	-	-	-	-
1953	-	560	May 3, 1953	-	-	-	-	-	-
1954	-	610	Dec. 14, 1953	-	-	-	-	-	-
1955	-	150	Apr. 12, 1955	-	-	-	-	-	-
1956	-	184	Mar. 20, 1956	-	-	-	-	-	-
1957	-	447	May 1957	-	-	-	-	-	-
1958	1624	1,680	Mar. 11, 1958	-	-	-	-	-	-
1959	1624	751	Mar. 6, 1959	5.3	44.7	0.993	13.50	45.4	13.72
1960	1704	2,140	Apr. 5, 1960	4.7	46.3	1.03	14.00	-	-

Note.--Dates given for maximum discharges for water years 1950-57 are most probable dates, based on study of records for nearby stations and precipitation records.

3506. Kinchafoonee 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 1960.

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).

Average discharge--9 years (1951-60), 195 cfs.

Extremes--1951-60: Maximum discharge, 6,000 cfs May 4, 1953 (gage height, 8.80 ft): minimum, 19 cfs Sept. 22, 1956.

Maximum stage known since at least 1900, 11.4 ft in January 1943, from information by Georgia State Highway Department.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	58.5	163	209	158	296	545	289	195	96.5	50.5	109	74.0	187
1953	54.1	101	156	257	389	311	366	614	225	192	91.4	246	249
1954	148	149	724	339	234	264	168	86.9	61.6	71.8	55.6	40.2	196
1955	45.9	80.1	107	142	197	103	253	97.6	46.8	124	93.5	45.9	111
1956	45.4	82.8	90.5	104	278	287	153	68.7	46.7	107	37.8	162	121
1957	96.5	76.3	233	155	160	248	336	412	166	87.1	51.1	96.0	177
1958	144	233	245	240	280	427	356	127	128	227	167	72.4	219
1959	72.7	104	172	246	526	501	343	238	255	182	87.5	135	236
1960	223	222	236	312	465	401	505	172	108	115	192	120	256

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.34	0.92	1.22	0.92	1.62	3.19	1.64	1.14	0.55	0.30	0.64	0.42	12.90
1953	.32	.57	.91	1.50	2.05	1.82	2.08	3.60	1.27	1.12	.53	1.40	17.17
1954	.87	.84	4.24	1.98	1.24	1.54	.95	.51	.35	.42	.33	.23	13.50
1955	.27	.45	.63	.83	1.04	.60	1.43	.57	.27	.73	.55	.26	7.63
1956	.27	.47	.53	.61	1.52	1.68	.87	.40	.26	.63	.22	.92	8.58
1957	.56	.43	1.36	.91	.85	1.45	†1.91	2.41	.94	.51	.30	.54	12.17
1958	.84	1.32	1.43	1.41	1.48	2.50	1.91	.74	.73	1.33	.98	.41	15.08
1959	.43	.59	1.01	1.44	2.78	2.93	1.94	1.40	1.44	1.07	.51	.76	16.30
1960	1.30	1.26	1.38	1.82	2.65	2.35	2.86	1.01	.61	.67	1.12	.68	17.71

† Corrected.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234	2,610	Mar. 24, 1952	40	187	0.949	12.90	177	12.22
1953	1274	6,000	May 4, 1953	44	249	1.26	17.17	309	21.32
1954	1334	2,980	Dec. 7, 1953	34	196	.995	13.50	129	8.90
1955	1384	2,120	Apr. 15, 1955	31	111	.563	7.63	109	7.55
1956	1434	1,520	Sept. 26, 1956	20	121	.614	8.38	137	9.46
1957	1504	4,320	May 5, 1957	36	177	.898	12.17	195	13.41
1958	1554	1,900	Mar. 9, 1958	48	219	1.11	15.08	196	13.52
1959	1624	1,900	Feb. 5, 1959	57	236	1.20	16.30	264	18.21
1960	1704	1,840	Mar. 31, 1960	68	256	1.30	17.71	-	-

3525. 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.--5,310 sq mi, approximately.

Records available.--February 1897 to September 1901 (gage height only), October 1901 to June 1921, September 1929 to September 1960. Monthly discharge only for some periods, published in WSP 1304. 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. Prior to Jan. 1, 1902, 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.--50 years (1901-20, 1929-60), 6,238 cfs.

Extremes.--1901-21, 1929-60: Maximum discharge, 64,800 cfs Jan. 22, 1943 (gage height, 31.6 ft); minimum daily, 327 cfs Aug. 24, 1930.

Maximum stage known since at least 1893, 37.84 ft Jan. 21, 1925, from floodmark, present site and datum (discharge, 92,000 cfs, from rating curve extended above 60,000 cfs). Flood of Mar. 25, 1897, reached a stage of 32.4 ft (discharge, 72,800 cfs) and flood of Mar. 20, 1929, reached a stage of 34.4 ft (discharge, 78,800 cfs), from records furnished by U.S. Weather Bureau.

Remarks.--Flow regulated by powerplants at Flint River Reservoir since 1921 (capacity, 7,500 acre-ft); and at Warwick Reservoir since 1930 (capacity, about 35,000 acre-ft). Normal operation of powerplants does not materially affect figures of monthly runoff.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,961	2,069	3,329	4,383	3,480	4,872	7,205	2,854	1,880	2,680	2,207	1,979	3,239
1952	1,898	3,864	6,320	5,485	9,922	19,680	7,657	4,906	4,053	1,678	2,240	2,421	5,836
1953	1,719	1,922	3,285	7,574	9,251	10,810	8,668	14,230	3,870	8,290	3,562	5,762	6,574
1954	6,216	3,473	15,720	9,749	5,812	6,515	5,433	3,399	2,181	2,055	1,832	1,241	5,322
1955	1,175	1,554	2,699	4,291	5,107	3,631	8,821	2,957	1,958	3,317	2,763	1,945	3,170
1956	1,341	1,774	2,367	2,306	5,920	8,373	6,933	2,617	1,826	2,881	2,331	2,223	3,396
1957	3,765	2,423	5,377	5,575	5,212	8,039	11,190	8,242	3,615	2,755	2,139	2,443	5,065
1958	3,867	6,383	8,800	6,888	10,060	15,830	13,030	5,167	3,995	6,176	4,273	2,176	7,145
1959	1,629	1,939	3,254	4,947	13,090	14,500	8,913	5,756	8,866	3,912	3,243	2,921	6,028
1960	4,435	4,507	4,461	8,019	16,490	11,210	19,110	5,019	3,111	3,064	3,096	2,332	7,018

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.43	0.44	0.72	0.95	0.68	1.06	1.52	0.62	0.40	0.58	0.48	0.42	8.30
1952	.41	.81	1.37	1.19	2.02	4.28	1.61	1.07	.85	.36	.49	.51	14.97
1953	.37	.40	.71	1.65	1.81	2.35	1.82	3.09	.81	1.80	.77	1.22	16.80
1954	1.35	.73	3.41	2.12	1.14	1.42	1.14	.74	.46	.45	.40	.26	13.62
1955	.25	.33	.59	.93	1.00	.79	1.43	.64	.41	.72	.60	.41	8.10
1956	.29	.37	.51	.50	1.20	1.82	1.46	.57	.38	.63	.51	.47	8.71
1957	.82	.51	1.16	1.21	1.02	1.74	2.35	1.79	.76	.60	.46	.51	12.93
1958	.84	1.34	1.78	1.50	1.97	3.44	2.73	1.12	.82	1.34	.93	.46	18.27
1959	.55	.41	.71	1.07	2.57	3.15	1.87	1.24	1.86	.85	.70	.61	15.39
1960	.96	.95	.97	1.74	3.35	2.43	4.02	1.09	.65	.67	.67	.49	17.99

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	3,934	10.06
1951	1204	16,000	Apr. 29, 1951	725	3,239	0.610	8.30	3,635	9.30
1952	1234	32,200	May 30, 1952	725	5,836	1.10	14.97	5,405	13.86
1953	1274	41,400	May 8, 1953	950	6,574	1.24	16.80	8,139	20.81
1954	1334	26,900	Dec. 12, 1953	645	5,322	1.00	13.62	3,631	9.30
1955	1384	17,200	Apr. 19, 1955	744	3,170	.597	8.10	3,174	8.10
1956	1434	19,600	Mar. 23, 1956	805	3,396	.640	8.71	3,910	10.03
1957	1504	25,500	Apr. 12, 1957	988	5,065	.953	12.93	5,637	14.40
1958	1554	30,300	Mar. 14, 1958	1,230	7,145	1.35	18.27	6,171	15.78
1959	1624	27,400	June 8, 1959	800	6,028	1.14	15.39	6,580	16.80
1960	1704	57,000	Apr. 7, 1960	1,420	7,018	1.32	17.99	-	-

3530. Flint River at Newton, Ga.

Location.--Lat 31°18', long 84°20', on downstream side of pier of bridge on State Highway 37 at Newton, Baker County, 1 mile downstream from Cooleeawhee Creek and at mile 72.4.

Drainage area.--5,740 sq mi, approximately.

Records available.--April 1938 to September 1950 (monthly discharge only for some periods, published in WSP 1304), October 1956 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 110.20 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers). Prior to Nov. 12, 1956, wire-weight gage at same site and datum.

Average discharge.--16 years (1938-50, 1956-60), 7,131 cfs (corrected).

Extremes.--1938-50, 1956-60: Maximum discharge, 59,600 cfs Mar. 28, 1944 (gage height, 31.7 ft); minimum, 790 cfs Oct. 20, Nov. 10, 1940. Maximum stage known since at least 1893, 41.3 ft Jan. 21, 1925, from floodmarks (discharge, 94,000 cfs).

Remarks.--Flow regulated by powerplants at Flint River Reservoir since 1921 (capacity, 7,500 acre-ft); and at Warwick Reservoir since 1930 (capacity, about 35,000 acre-ft). Normal operation of powerplant does not materially affect figures of monthly runoff.

Corrections.--In WSP 1032, the daily discharge for Jan. 25, 1943, is in error; it should be 42,000 cfs. The resulting revised records as summarized herewith supersede those published in WSP 1304.

Month	Mean	Per square mile	Runoff in inches
January 1943.....	16,562	-	3.33
Water year 1942-43.....	7,839	1.37	18.55
Calendar year 1943.....	7,690	-	18.20

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	4,161	2,728	5,145	6,224	5,548	7,786	11,920	8,693	4,287	3,276	2,622	2,820	5,433
1958	4,251	6,095	8,917	7,326	10,430	18,870	14,090	8,420	4,859	6,333	5,159	2,718	7,926
1959	2,305	2,490	3,569	5,267	13,340	15,210	10,330	6,337	9,628	4,432	3,616	3,389	6,606
1960	4,662	5,212	4,969	8,095	16,840	12,890	20,820	6,090	3,895	3,670	3,681	2,877	7,755

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	0.84	0.53	1.03	1.24	1.01	1.57	2.32	1.74	0.83	0.66	0.53	0.55	12.85
1958	.85	1.18	1.79	1.48	1.90	3.39	2.73	1.29	.94	1.40	1.03	.53	18.51
1959	.46	.48	.72	1.06	2.42	3.06	2.01	1.27	1.87	.89	.73	.66	15.63
1960	.94	1.01	1.00	1.63	3.16	2.59	4.05	1.22	.76	.74	.74	.56	18.40

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1957	1504	24,200	Apr. 13, 1957	1,570	5,433	0.947	12.65	6,038	14.27		
1958	1554	30,100	Mar. 15, 1958	1,740	7,826	1.36	18.51	6,911	16.35		
1959	1624	24,400	June 9, 1959	1,510	6,606	1.15	15.63	7,149	16.92		
1960	1704	52,400	Apr. 8, 1960	2,050	7,755	1.35	18.40	-	-		

3534. Pachitla Creek near Edison, Ga.

Location--Lat 31°33', long 84°41', on downstream side of bridge on State Highway 37, 2.2 miles upstream from Neals Creek, 3.6 miles east of Edison, Calhoun County, and 8.5 miles upstream from mouth.

Drainage area--188 sq mi.

Records available--Annual maximum, water years 1950-59, and occasional low-flow measurements, 1951, 1954, 1958. June 1959 to September 1960.

Gage--Water-stage recorder. Datum of gage is 212.64 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. May 17, 1949, to Mar. 16, 1955, crest-stage gage at same site and datum. Mar. 17, 1955, to June 9, 1959, crest-stage gage at site 200 ft downstream at same datum.

Extremes--1949-60: Maximum discharge, 8,500 cfs Apr. 5, 1960 (gage height, 9.19 ft), from rating curve extended above 2,500 cfs by logarithmic plotting.
1959-60: Minimum discharge, 67 cfs Oct. 1, 1959.
A discharge of 48.2 cfs was measured on Sept. 5, 1951.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	144	122	112	-
1960	223	182	202	211	370	309	679	203	127	195	162	157	251

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	0.88	0.75	0.66	-
1960	1.37	1.08	1.23	1.29	2.12	1.89	4.03	1.24	0.81	1.19	.99	.93	18.17

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches		Mean	Runoff in inches
		Discharge	Date							
1950	-	2,700	Sept. 1, 1950	-	-	-	-	-	-	-
1951	-	1,130	Apr. 1, 1951	-	-	-	-	-	-	-
1952	-	1,650	Feb. 14, 1952	-	-	-	-	-	-	-
1953	-	1,510	Sept. 30, 1953	-	-	-	-	-	-	-
1954	-	2,060	Dec. 27, 1955	-	-	-	-	-	-	-
1955	-	1,110	Apr. 17, 1955	-	-	-	-	-	-	-
1956	-	2,040	Feb. 18, 1956	-	-	-	-	-	-	-
1957	-	2,500	Apr. 7, 1957	-	-	-	-	-	-	-
1958	-	1,760	Mar. 9, 1958	-	-	-	-	-	-	-
1959	1704	2,280	Mar. 7 or 8, 1959	-	-	-	-	-	-	-
1960	1704	8,500	Apr. 5, 1960	69	251	1.34	18.17	-	-	-

Note.--Dates of maximum discharges for water years 1950-59 are most probable dates, based on study of records for nearby stations and precipitation records.

3535. Ichawaynochaway Creek at Milford, Ga.

Location--Lat 31°22', long 84°32', on downstream end of left bank pier of bridge on State Highway 216 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 1960.

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 gage at several sites within 450 ft of present site at various datums. Oct. 1, 1939, to Nov. 10, 1941, staff gage and Nov. 11, 1941, to Dec. 4, 1952, water-stage recorder, at site 100 ft downstream at present datum.

Average discharge--23 years (1905-7, 1939-60), 784 cfs.

Extremes--1905-7, 1939-60: Maximum discharge, 10,100 cfs Jan. 21, 1943 (gage height, 13.9 ft); minimum, 117 cfs Sept. 16, 1954.

Flood in July 1916, reached a stage of 17.2 ft, from information by local resident (discharge, 15,500 cfs, from rating curve extended above 10,000 cfs by logarithmic plotting).

Remarks--Moderate diurnal fluctuation at low flow.

Monthly and yearly mean discharge, in cubic feet per second, of Ichawaynochaway Creek at Milford, Ga.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	312	326	486	538	456	595	926	366	261	257	273	342	428
1952	258	474	786	597	1,143	1,284	662	554	319	246	548	404	603
1953	241	289	462	706	1,098	959	872	1,199	524	893	372	677	689
1954	611	494	2,008	1,415	768	848	708	448	305	334	262	145	698
1955	156	272	579	426	458	515	566	259	180	428	276	373	340
1956	204	215	241	304	1,272	935	508	318	219	364	219	346	425
1957	456	283	529	478	454	773	1,268	767	478	359	265	463	548
1958	956	740	946	902	1,099	1,697	1,698	658	516	575	430	299	892
1959	298	327	472	607	1,264	1,724	1,003	730	856	506	403	410	713
1960	574	764	679	723	1,435	1,181	2,221	603	424	544	471	401	830

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.58	0.59	0.90	1.00	0.77	1.11	1.66	0.68	0.47	0.48	0.51	0.62	9.37
1952	.48	.85	1.46	1.11	1.98	2.35	1.19	1.03	.57	.46	1.02	.73	13.23
1953	.45	.52	.86	1.31	1.84	1.79	1.57	2.22	.94	1.66	.69	1.22	15.07
1954	1.14	.69	3.74	2.63	1.29	1.58	1.27	.83	.55	.62	.49	.26	15.29
1955	.29	.49	.70	.79	.77	.59	1.02	.48	.32	.80	.51	.67	7.43
1956	.38	.39	.45	.56	2.21	1.74	.91	.59	.39	.68	.41	.62	9.33
1957	.85	.51	.98	.89	.76	1.44	2.29	1.43	.86	.67	.49	.83	12.00
1958	1.78	1.33	1.76	1.67	1.84	3.53	3.06	1.22	.93	1.07	.80	.54	19.53
1959	.55	.59	.88	1.13	2.12	3.20	1.81	1.36	1.54	.94	.75	.74	15.61
1960	1.07	1.37	1.27	1.35	2.49	2.19	3.99	1.12	.76	1.01	.88	.72	18.22

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	543	11.88	
1951	1204	1,770	Apr. 2, 1951	147	428	0.690	9.37	461	10.09	
1952	1234	2,510	Feb. 19, 1952	172	603	.973	13.23	559	12.27	
1953	1274	3,800	May 8, 1953	206	689	1.11	15.07	868	19.01	
1954	1334	4,010	(a)	120	698	1.13	15.29	503	11.00	
1955	1384	1,540	Apr. 17, 1955	123	340	.548	7.43	327	7.17	
1956	1434	3,020	Feb. 18, 1956	130	425	.685	9.33	477	10.45	
1957	1504	3,380	Apr. 8, 1957	155	548	.884	12.00	663	14.53	
1958	1554	4,090	Apr. 12, 1958	259	892	1.44	19.53	762	16.68	
1959	1624	4,250	Mar. 8, 1959	259	715	1.15	15.61	790	17.30	
1960	1704	9,960	Apr. 6, 1960	267	830	1.34	18.22	-	-	

a Dec. 16, 1953, Jan. 2, 1954.

3540. Alligator Creek near Milford, Ga.

Location.--Lat 31°21', long 84°34', on right bank 100 ft downstream from highway bridge, 2 miles upstream from mouth, and 2 miles southwest of Milford, Baker County.

Drainage area.--14 sq mi, approximately.

Records available.--January 1942 to June 1952.

Gage.--Water-stage recorder and concrete control. Datum of gage is 167.16 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Emory University Field Station).

Average discharge.--9 years (1942-51), 11.2 cfs.

Extremes.--1942-52: Maximum gage height, 4.44 ft Mar. 7, 1944 (discharge not determined); no flow for periods in most years.

Remarks.--Flow largely derived from springs. Diurnal fluctuation at low flow caused by water losses.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0	0	0	0	0	0.999	7.69	3.40	0.247	0	0	0.005	1.03
1952	0	0	1.24	4.15	14.7	18.9	12.8	7.80	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	2.09	-	
1951	1204	21	Apr. 19, 1951	0	1.03	-	-	1.13	-	
1952	1234	a172	Feb. 29, 1952	0	-	-	-	-	-	

a Maximum during period October to May.

3560. 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, at mile 29.0 and 29.2 miles upstream from Jim Woodruff Dam.

Drainage area.--7,570 sq mi, approximately.

Records available.--October 1907 to December 1913, October 1928 to September 1960.

Monthly discharge only for some periods, published in WSP 1304. 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. Prior to Dec. 31, 1913, chain gage at datum 0.3 ft higher. Oct. 1, 1928, to Jan. 14, 1929 (corrected), chain gage at same site at present datum. Since Jan. 15, 1957, auxiliary water-stage recorder at site 6.4 miles upstream.

Average discharge.--38 years (1907-13, 1928-60), 8,720 cfs.

Extremes.--1907-13, 1928-60: Maximum discharge, 83,200 cfs Mar. 21, 1929 (gage height, 37.73 ft); minimum, 1,860 cfs Nov. 9, 1954.

Maximum stage known since at least 1893, 40.9 ft, present datum, Jan. 24, 1925 (discharge, 101,000 cfs, from rating curve extended above 70,000 cfs on basis of slope-conveyance studies).

Remarks.--Some regulation by powerplants above station. Capacity of reservoirs insufficient to materially affect figures of monthly runoff.

Cooperation.--Records furnished by Corps of Engineers for water years 1957-60; reviewed by Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3,311	3,338	4,519	5,917	5,014	5,990	8,709	4,959	3,192	3,738	3,289	2,764	4,549
1952	3,021	4,639	6,744	7,470	11,920	21,750	12,610	7,238	6,046	3,509	3,938	3,976	7,727
1953	3,227	3,165	4,205	8,166	10,850	13,530	11,670	16,890	6,264	9,999	6,116	6,653	8,375
1954	9,120	4,930	17,270	14,630	8,852	8,714	7,903	5,293	3,739	3,337	3,052	2,409	7,455
1955	2,217	2,424	3,627	4,833	5,895	4,585	8,124	4,297	3,123	4,177	4,100	3,167	4,200
1956	2,348	2,600	3,226	3,161	8,371	11,030	10,330	4,713	3,263	4,148	3,452	2,970	4,952
1957	5,278	3,582	5,841	8,256	7,049	8,588	15,210	11,040	6,119	4,408	4,250	4,433	6,984
1958	7,086	8,049	14,330	10,920	14,380	21,960	19,440	10,090	7,650	9,262	6,871	3,875	11,150
1959	3,920	4,935	5,003	6,755	15,890	19,490	14,890	8,653	13,110	6,668	5,563	5,100	9,020
1960	6,187	7,210	7,214	9,289	20,030	17,130	26,580	8,697	5,900	5,610	5,583	4,170	10,240

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.50	0.49	0.69	0.90	0.69	0.91	1.28	0.74	0.47	0.57	0.50	0.41	8.15
1952	.46	.68	1.03	1.14	1.69	3.31	1.86	1.10	.89	.53	.60	.59	13.88
1953	.49	.47	.64	1.24	1.47	2.06	1.72	2.57	.92	1.52	.93	.98	15.01
1954	1.38	.73	2.63	2.22	1.22	1.33	1.16	.81	.55	.51	.46	.35	13.35
1955	.34	.36	.55	.74	.81	.70	1.19	.65	.46	.64	.62	.47	7.53
1956	.36	.38	.49	.48	1.20	1.68	1.52	.72	.48	.63	.53	.44	8.91
1957	.80	.53	.86	1.26	.97	1.30	2.24	1.68	.90	.87	.65	.65	12.51
1958	1.08	1.18	2.18	1.66	1.98	3.34	2.87	1.53	1.13	1.41	1.05	.57	19.98
1959	.60	.60	.76	1.03	2.19	2.96	2.16	1.31	1.93	1.02	.85	.75	16.16
1960	.94	1.06	1.10	1.42	2.86	2.61	3.92	1.33	.87	.85	.85	.61	18.42

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	5,473	9.82
1951	1204	12,800	Apr. 29, 1951	1,960	4,549	0.601	8.15	4,821	8.64
1952	1234	31,000	Apr. 1, 1952	2,240	7,727	1.02	13.88	7,408	13.31
1953	1274	37,900	May 11, 1953	2,630	8,375	1.11	15.01	10,130	18.15
1954	1354	24,500	Dec. 14, 1953	2,000	7,455	.985	13.35	5,504	9.86
1955	1384	16,300	Apr. 21, 1955	1,930	4,200	.555	7.53	4,192	7.51
1956	1434	18,400	Mar. 24, 1956	1,900	4,952	.654	8.91	5,485	9.87
1957	1504	26,100	Apr. 14, 1957	2,600	6,884	.923	12.51	8,243	15.04
1958	1554	34,400	Mar. 15, 1958	2,000	11,150	1.47	19.98	9,763	17.50
1959	1704	26,800	Mar. 10, 1959	3,010	9,020	1.19	16.16	9,657	17.30
1960	1704	59,600	Apr. 9, 1960	2,230	10,240	1.35	18.42	-	-

3570. 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.--485 sq mi.

Records available.--October 1920 to June 1921, June 1937 to September 1960.

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.--23 years (1937-60), 478 cfs.

Extremes.--1920-21, 1937-60: 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, 9.1 cfs Oct. 30 to Nov. 2, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	75.5	48.6	80.3	104	108	133	381	149	81.8	54.4	46.7	27.3	107
1952	19.6	130	369	444	1,200	1,196	562	283	167	70.5	121	122	387
1953	45.2	37.4	50.2	141	571	657	728	569	175	285	176	148	297
1954	203	117	1,049	1,104	427	398	395	153	76.6	43.3	33.9	21.6	336
1955	10.8	14.0	24.0	42.8	119	78.6	229	107	45.0	150	205	164	98.8
1956	54.5	47.5	56.2	70.2	532	655	329	296	95.6	132	51.1	78.9	199
1957	207	127	170	190	174	311	837	336	201	91.4	64.8	228	244
1958	1,364	671	1,053	745	889	1,825	1,505	599	458	486	396	166	829
1959	114	84.6	96.2	181	862	1,873	1,171	394	611	197	159	105	484
1960	167	546	329	503	1,260	1,087	2,283	358	157	129	99.5	104	579

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.18	0.11	0.19	0.25	0.23	0.32	0.88	0.35	0.19	0.13	0.11	0.06	3.00
1952	.05	.30	.88	1.05	2.66	2.85	1.29	.67	.38	.17	.29	.28	10.87
1953	.11	.09	.12	1.34	1.25	1.56	1.67	1.35	.40	.68	.42	.34	8.31
1954	.48	.27	2.49	2.65	.92	.98	.91	.36	.18	.10	.08	.05	9.42
1955	.05	.03	.06	.10	.26	.19	.53	.25	.10	.36	.49	.36	2.78
1956	.13	.11	.13	.17	1.19	1.56	.76	.70	.22	.31	.12	.18	5.58
1957	.49	.29	.40	.45	.37	.74	1.93	.80	.46	.22	.15	.52	6.82
1958	3.24	1.54	2.47	1.78	1.91	3.86	3.46	1.43	1.05	1.15	.94	.38	23.21
1959	.27	.19	.23	.43	1.85	4.45	2.69	.94	1.41	.47	.38	.24	13.55
1960	.40	1.26	.78	1.20	2.80	2.58	5.26	.85	.36	.31	.24	.24	16.28

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	202	5.63
1951	1204	563	Apr. 5, 1951	16	107	0.221	3.00	134	3.75
1952	1234	2,310	Feb. 19, 1952	14	387	.798	10.87	355	9.96
1953	1274	1,460	May 10, 1953	30	297	.612	8.31	401	11.23
1954	1334	2,460	(a)	13	336	.693	9.42	225	6.30
1955	1384	632	Aug. 1, 1955	9.1	98.8	.204	2.78	108	3.03
1956	1434	1,390	Mar. 18, 1956	26	199	.410	5.58	228	6.39
1957	1504	2,060	Apr. 10, 1957	26	244	.503	6.82	461	12.89
1958	1554	4,250	Oct. 3, 1957	140	829	1.71	23.21	595	16.65
1959	1624	4,940	Mar. 9, 1959	70	484	.998	13.55	546	15.30
1960	1704	8,260	Apr. 6-7, 1960	51	579	1.19	16.28	-	-

a Dec. 27, 1953, Jan. 3, 1954.

APALACHICOLA RIVER BASIN

3575. Lake Seminole at Chattahoochee, Fla.

Location (revised).--Lat 30°42'33", long 84°51'45", on line between secs. 29 and 32, T.4 N., R.6 W., on right upstream lock wall of Jim Woodruff Dam on Chattahoochee River, 0.6 mile upstream from bridge on U.S. Highway 90 and 1.5 miles northwest of Chattahoochee, Gadsden County, Fla.

Drainage area.--17,100 sq mi, approximately.

Records available.--October 1954 to September 1960. Prior to October 1959, published as Jim Woodruff Reservoir at Chattahoochee.

Gage.--Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to July 22, 1957, staff gage at same site at datum 53.96 ft higher; gage readings have been reduced to elevations above mean sea level.

Extremes.--1954-60: Maximum contents, 433,300 acre-ft Apr. 7, 8, 1960 (elevation, 78.66 ft); minimum after Feb. 4, 1957, 330,100 acre-ft Aug. 13, 1957 (elevation, 75.97 ft).

Remarks.--Lake is formed by earthfill dam with concrete fixed-crest spillway, a center channel spillway with 16 vertical lift gates 40 ft long and 30.5 ft high, and a side channel navigation lock 82 ft wide. Total capacity at elevation 77.0 ft (normal pool) is 367,320 acre-ft, of which 36,170 acre-ft between elevation 77.0 and 76.0 ft are used for pondage. Gates closed on May 20, 1954; filling of lake accomplished in several stages between that date and Feb. 4, 1957, when the pool first reached normal operating level, elevation 77.0 ft. Surface area is 58.6 sq mi (37,500 acres), at elevation 77.0 ft above mean sea level. Figures given herein represent total contents. Lake is used for navigation and power.

Cooperation.--Records furnished by Corps of Engineers.

Contents, in acre-feet, on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-
1955	2,600	3,600	4,000	6,100	7,100	34,700	119,300	106,700	97,800	105,200	88,900	88,900
1956	90,200	100,700	95,000	102,900	99,300	122,600	119,300	100,700	100,700	103,700	83,000	105,200
1957	97,100	103,700	185,200	297,600	394,200	352,500	367,300	367,300	367,300	352,500	354,400	406,200
1958	368,400	363,300	385,600	381,000	359,900	368,800	368,400	365,400	370,300	370,700	367,300	371,100
1959	370,700	371,500	373,000	370,000	368,400	374,900	375,600	378,700	378,700	380,600	393,100	373,700
1960	400,200	395,800	374,900	399,400	399,000	367,300	397,400	389,100	394,200	393,400	386,800	394,200

Note.--Prior to September 1957, figures are for 8 a.m.; subsequent to this date, figures are for 12 p.m.

3580. Apalachicola River at Chattahoochee, Fla.

Location (revised).--Lat 30°42'03", long 84°51'33", in sec.32, T.4 N., R.6 W., on downstream side of right main pier of bridge on U.S. Highway 90, 0.6 mile downstream from Jim Woodruff Dam, 0.6 mile upstream from Mosquito Creek, and 1 mile west of Chattahoochee, Gadsden County.

Drainage area.--17,100 sq mi, approximately.

Records available.--October 1928 to September 1960. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1939, published as "near River Junction." Gage-height records collected at site seven-eighths of a mile downstream October 1919 to September 1925 and at site approximately 100 ft downstream October 1925 to December 1958 are contained in reports of U.S. Weather Bureau.

Gage.--Water-stage recorder. Datum of gage is 40.58 ft above mean sea level, datum of 1929 (U.S. Weather Bureau bench mark). Prior to Dec. 16, 1939, water-stage recorder at site 0.9 mile downstream at datum 4.27 ft higher. Dec. 16, 1939, to June 25, 1952, water-stage recorder, June 26, 1952, to June 2, 1954, wire-weight gage, and June 3, 1954, to Oct. 14, 1958, water-stage recorder, at site approximately 100 ft downstream at datum 5.00 ft higher.

Average discharge.--32 years (1928-60), 21,280 cfs (unadjusted).

Extremes.--1928-60: Maximum discharge, 293,000 cfs Mar. 20, 1929 (gage height, 38.97 ft, present datum), from rating curve extended above 200,000 cfs; minimum, 4,950 cfs Oct. 27, 1954; minimum gage height, 1.58 ft (present datum) Sept. 6, 1957. Maximum stage known, that of Mar. 20, 1929.

Remarks.--Flow regulated by Lake Sidney Lanier, Bartlett's Ferry Reservoir (Lake Harding), and Lake Seminole (formerly known as Jim Woodruff Reservoir).

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	8,985	8,788	11,730	14,280	13,210	16,260	24,280	13,570	9,547	9,921	8,129	7,304	12,150
1952	7,225	11,160	20,540	19,030	29,250	58,860	31,780	19,940	16,930	9,288	9,862	9,708	20,280
1953	7,205	7,230	11,600	24,340	28,020	31,830	29,700	44,980	15,630	22,660	14,190	13,430	20,890
1954	16,970	11,210	42,900	34,860	23,260	24,390	21,500	13,250	10,860	10,700	8,188	6,092	18,700
1955	5,319	5,990	8,798	14,050	19,430	12,780	19,330	12,210	7,892	12,450	10,920	6,850	11,280
1956	5,439	5,309	7,991	7,262	20,800	27,680	24,110	13,560	8,594	10,150	7,721	10,540	12,440
1957	11,270	7,682	16,370	14,470	13,350	22,720	39,860	23,980	12,630	10,230	7,008	8,567	15,680
1958	14,610	19,000	23,970	19,730	29,320	46,220	39,410	18,560	14,360	19,850	15,160	10,580	22,530
1959	9,589	9,011	11,310	17,020	37,460	44,010	30,810	18,860	31,900	15,770	12,720	12,330	20,760
1960	15,590	16,560	16,970	26,700	48,460	39,770	65,570	20,480	13,790	13,110	13,580	11,980	25,070

Monthly and yearly runoff, in inches (adjusted) a/

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.61	0.57	0.79	0.96	0.80	1.10	1.58	0.91	0.62	0.67	0.55	0.48	9.64
1952	1.49	1.75	1.58	1.28	1.84	3.97	2.07	1.34	1.10	1.62	1.66	1.83	16.11
1953	.49	.47	.78	1.64	1.71	2.15	1.94	3.03	1.02	1.63	.96	.88	16.60
1954	1.14	.73	2.89	2.34	1.42	1.64	1.40	.89	.71	.72	.55	.40	14.83
1955	.36	.39	.59	.95	1.18	.89	1.36	.81	.51	.85	.72	.45	9.06
1956	.37	.40	.53	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

a/ Adjusted for change in contents in Lake Seminole October 1954 to December 1955.

Note.--Figures of runoff in inches January 1956 to September 1957, previously published in WSP 1434 and 1504, are subject to error because of storage in Lake Sidney Lanier. Those figures are not published herein.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted a/			Observed	Adjusted a/	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	15,100	-	11.99
1951	1204	36,300	Apr. 25, 1951	6,090	12,150	-	0.711	9.64	12,950	-	10.27
1952	1234	87,400	Mar. 28, 1952	6,100	20,280	-	1.19	16.11	19,200	-	15.25
1953	1274	91,300	May 7, 8, 1953	6,450	20,890	-	1.22	16.60	24,710	-	19.62
1954	1334	61,000	Dec. 16, 1953	5,450	18,700	-	1.09	14.83	14,380	-	11.41
1955	1384	44,300	Apr. 17, 1955	5,010	11,280	11,420	.668	9.06	11,220	11,360	9.02
1956	1434	65,900	Mar. 21, 1956	5,160	12,440	-	-	-	13,790	-	-
1957	1504	95,400	Apr. 9, 1957	5,300	15,680	-	-	-	17,540	-	-
1958	1554	94,000	Mar. 11, 1958	7,880	22,530	-	-	-	20,210	-	-
1959	1624	65,200	June 5, 1959	7,430	20,760	-	-	-	22,370	-	-
1960	1704	157,000	Apr. 8, 1960	8,110	25,070	-	-	-	-	-	-

a/ Adjusted for change in contents in Lake Seminole October 1954 to December 1955.

Note.--Figures of discharge per square mile and runoff in inches January 1956 to September 1957, previously published in WSP 1434 and 1504, are subject to error because of storage in Lake Sidney Lanier. Those figures are not published herein.

3590. Chipola River near Altha, Fla.

Location.--Lat 30°32'02", long 85°09'55", in NW¼ 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 3½ miles southwest of Altha, Calhoun County.

Drainage area.--781 sq mi.

Records available.--November 1912 to December 1913, September 1921 to September 1927, August 1929 to September 1931, March 1943 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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, chain, or wire-weight gage at same site and datum.

Average discharge.--25 years (1921-27, 1929-31, 1943-60), 1,514 cfs.

Extremes.--1912-13, 1921-27, 1929-31, 1943-60: Maximum discharge, 25,000 cfs Sept. 20, 1926 (gage height, 33.55 ft, from floodmarks), from rating curve extended above 10,000 cfs on basis of slope-area measurement of peak flow; minimum, 356 cfs Nov. 17, 18, 19, 1955; minimum gage height, 8.29 ft Nov. 13, 14, 15, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	921	774	770	765	744	1,085	1,459	873	963	679	651	738	868
1952	507	907	1,437	1,306	2,229	2,406	1,533	965	785	638	700	785	1,179
1953	589	548	584	833	1,759	1,822	2,621	1,635	903	949	846	860	1,157
1954	896	740	3,303	2,589	1,494	1,659	1,226	867	714	625	553	465	1,264
1955	428	400	450	518	671	540	937	833	573	559	878	574	613
1956	422	389	394	473	1,145	1,340	914	854	720	1,227	792	872	794
1957	1,016	831	908	820	681	957	1,363	1,274	1,390	882	757	1,694	1,048
1958	2,139	1,557	1,910	1,909	2,063	2,859	2,937	1,858	1,610	1,505	1,283	883	1,874
1959	787	763	792	800	1,738	3,032	2,475	1,554	2,090	1,509	1,321	1,120	1,504
1960	1,537	1,776	1,381	1,864	2,472	2,367	4,511	1,562	1,173	1,168	1,067	1,074	1,822

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.36	1.11	1.14	1.13	0.99	1.60	2.08	1.29	1.38	1.00	0.96	1.05	15.09
1952	.75	1.30	2.12	1.93	3.08	3.55	2.19	1.42	1.12	.94	1.03	1.12	20.55
1953	.87	.78	.86	1.23	2.35	2.69	3.74	2.41	1.29	1.40	1.25	1.23	20.10
1954	1.32	1.06	4.88	3.82	1.99	2.45	1.75	1.28	1.02	.92	.82	.66	21.97
1955	.63	.57	.66	.76	.89	.80	1.34	1.23	.82	.83	1.30	.82	10.65
1956	.62	.56	.58	.70	1.58	1.98	1.31	1.26	1.03	1.81	1.17	1.25	13.85
1957	1.50	1.19	1.34	1.21	.91	1.41	1.95	1.88	1.99	1.30	1.12	2.42	18.22
1958	3.13	2.22	2.82	2.82	2.75	4.22	4.20	2.74	2.30	2.22	1.89	1.26	32.57
1959	1.16	1.09	1.17	1.33	2.32	4.48	3.54	2.29	2.99	2.25	1.95	1.60	26.15
1960	2.27	2.54	2.04	2.75	3.41	3.49	6.44	2.31	1.68	1.72	1.58	1.53	31.76

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean
		Discharge	Date					
1950	-	-	-	-	-	-	-	1,185
1951	1204	1,940	Apr. 4, 1951	460	868	1.11	15.09	901
1952	1234	4,180	Feb. 21, 1952	425	1,179	1.51	20.55	1,085
1953	1274	4,720	Apr. 13, 1953	515	1,157	1.48	20.10	1,430
1954	1334	4,620	Dec. 28, 1953	436	1,264	1.62	21.97	954
1955	1384	2,220	May 28, 1955	360	613	.785	10.65	607
1956	1434	2,900	July 4, 1956	356	794	1.02	13.85	924
1957	1504	a3,270	June 9, 1957	595	1,048	1.34	18.22	1,286
1958	1554	5,310	Apr. 16, 1958	807	1,874	2.40	32.57	1,601
1959	1624	4,720	Apr. 3, 1959	675	1,504	1.93	26.15	1,701
1960	1704	11,100	Apr. 8, 1960	796	1,822	2.33	31.76	-

a Maximum peak discharge; maximum discharge during year, 4,030 cfs Sept. 30, 1957, stage rising.

3595. Econfina 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, Bay County.

Drainage area--182 sq mi.

Records available--October 1935 to September 1960. Monthly discharge only for October 1935, published in WSP 1304.

Gage--Staff gage. Datum of gage is 1.03 ft above mean sea level, datum of 1929.

Average discharge--25 years (1935-60), 534 cfs.

Extremes--1935-60: Maximum discharge observed, 4,860 cfs Apr. 2, 1948 (gage height, 12.46 ft), from rating curve extended above 2,200 cfs; minimum, 307 cfs Jan. 9, 1956 (gage height, 4.10 ft).

Maximum stage known, 15.0 ft, from floodmarks, either in September 1926 or in April 1928 (based on a study of rainfall records).

Remarks--Flow includes large ground-water inflow.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	515	493	506	486	467	582	480	453	484	473	507	519	497
1952	435	495	565	427	533	500	484	416	384	371	452	510	464
1953	433	427	426	424	521	486	538	472	476	488	499	572	480
1954	531	531	742	593	537	545	510	485	462	489	445	431	525
1955	409	405	400	402	398	374	401	359	342	356	352	344	379
1956	337	323	317	350	382	358	332	337	357	544	409	468	376
1957	449	376	400	358	348	379	395	466	522	442	486	793	451
1958	716	598	579	586	574	652	795	742	800	761	686	585	673
1959	541	551	504	514	598	664	656	591	614	662	601	627	593
1960	706	572	597	622	679	605	773	569	564	589	637	605	626

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3.26	3.02	3.20	3.08	2.67	3.69	2.94	2.87	2.97	3.00	3.21	3.18	37.09
1952	2.76	3.03	3.58	2.71	3.16	3.17	2.96	2.63	2.35	2.35	2.86	3.13	34.69
1953	2.74	2.62	2.70	2.69	2.98	3.08	3.30	2.99	2.92	3.09	3.16	3.51	35.78
1954	3.36	3.26	4.70	3.76	3.07	3.45	3.13	3.07	2.84	3.10	2.82	2.64	39.20
1955	2.59	2.49	2.54	2.55	2.27	2.37	2.46	2.28	2.10	2.26	2.23	2.11	28.25
1956	2.14	2.98	2.01	2.22	2.26	2.27	2.04	2.13	2.19	3.45	2.59	2.87	28.15
1957	2.84	2.31	2.54	2.27	1.99	2.40	2.42	2.95	3.20	2.80	3.08	4.86	33.66
1958	4.53	3.67	3.67	3.71	3.28	4.13	3.88	4.70	4.90	4.82	4.35	3.58	50.22
1959	3.43	3.38	3.19	3.26	3.42	4.21	4.02	3.74	3.76	4.19	3.81	3.84	44.25
1960	4.47	3.51	3.78	3.94	4.02	3.83	4.74	3.60	3.46	3.73	4.04	3.71	46.83

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Maximum observed		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	541	40.31
1951	1204	850	Mar. 20, 1951	410	497	2.73	37.09	496	36.98
1952	1234	943	Sept. 22, 23, 1952	350	464	2.55	34.69	446	33.38
1953	1274	al, 560	Sept. 26, 1953	403	480	2.64	35.78	523	39.04
1954	1334	1,120	Dec. 14, 1953	421	525	2.88	39.20	476	35.50
1955	1384	601	Apr. 15, 1955	330	379	2.08	28.25	359	26.76
1956	1434	al, 120	July 4, 1956	307	376	2.07	28.15	397	29.71
1957	1504	al, 440	Sept. 11, 1957	333	451	2.46	33.66	507	37.84
1958	1554	1,630	Apr. 15, 1958	503	673	3.70	50.22	648	48.35
1959	1624	1,240	Mar. 7, 1959	474	593	3.26	44.25	617	46.01
1960	1704	al, 600	Oct. 8, 1959	481	626	3.44	46.83	-	-

a Momentary maximum.

CHOCTAWHATCHEE RIVER BASIN

3600. West Fork Choctawhatchee River at Blue Springs, Ala.

Location.--Lat 31°40', long 87°30', in SE $\frac{1}{4}$ sec.14, T.8 N., R.25 E., on right bank at downstream side of bridge on State Highway 10 at Blue Springs, 4 miles downstream from Lindsey Creek.

Drainage area.--84.7 sq mi.

Records available.--October 1943 to September 1953, water years 1954-60 (annual maximum).

Gage.--Crest-stage gage. Datum of gage is 289.24 ft above mean sea level, datum of 1929, supplementary adjustment of 1943. Prior to Oct. 18, 1946, wire-weight gage and Oct. 19, 1946, to Sept. 30, 1953, water-stage recorder, at same site and datum.

Average discharge.--10 years (1943-53), 143 cfs.

Extremes.--1943-60: Maximum discharge, 9,800 cfs Sept. 26, 1956 (gage height, 11.5 ft), from rating curve extended above 4,500 cfs by logarithmic plotting.
1943-53: Minimum daily discharge, 12 cfs July 16, 1951.

Remarks.--Diurnal fluctuation and some regulation at low flow caused by mill above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	36.7	43.9	86.8	71.4	62.0	130	168	49.4	35.1	53.7	26.4	63.1	68.8
1952	32.3	68.9	121	83.3	187	338	139	144	87.8	36.9	82.4	76.4	116
1953	32.3	63.2	110	225	233	181	277	286	118	95.3	84.3	207	159

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.50	0.58	1.18	0.97	0.76	1.77	2.21	0.67	0.46	0.73	0.36	0.83	11.02
1952	.44	.91	1.64	1.13	2.38	4.61	1.83	1.96	1.16	.50	1.12	1.01	18.69
1953	.44	.83	1.49	3.07	2.86	2.47	3.65	3.90	1.55	1.30	1.15	2.73	25.44

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	76.8	12.32
1951	1204	970	Mar. 30, 1951	12	68.8	0.612	11.02	73.3	11.75
1952	1234	1,900	Mar. 24, 1952	17	116	1.37	18.69	115	18.46
1953	1274	3,730	Apr. 10, 1953	25	159	1.88	25.44	-	-
1954	-	2,850	Dec. 4, 1953	-	-	-	-	-	-
1955	-	2,510	Feb. 7, 1955	-	-	-	-	-	-
1956	-	9,800	Sept. 26, 1956	-	-	-	-	-	-
1957	-	7,100	Apr. 6, 1957	-	-	-	-	-	-
1958	-	630	Mar. 2, 1958	-	-	-	-	-	-
1959	-	1,090	Feb. 5, 1959	-	-	-	-	-	-
1960	-	3,470	Apr. 4, 1960	-	-	-	-	-	-

3605. 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 highway bridge, 4 miles upstream from confluence with West Fork Choctawhatchee River and 4 miles north of Midland City.

Drainage area.--297 sq mi.

Records available.--May 1952 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 179.1 ft above mean sea level (levels by Alabama State Highway Department).

Average discharge.--8 years (1952-60), 315 cfs.

Extremes.--1952-60: Maximum discharge, 15,700 cfs May 4, 1953 (gage height, 23.82 ft); minimum, 26 cfs Sept. 6-9, Oct. 3, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	68.1	113	258	455	752	531	494	1,061	149	75.1	172	150	381
1954	281	224	1,690	643	399	465	339	163	186	210	144	56.9	379
1955	43.6	73.5	126	168	334	146	457	168	90.5	282	142	94.3	176
1956	65.9	75.6	92.2	150	469	492	238	90.6	81.0	101	78.0	464	198
1957	239	125	534	337	287	529	990	364	172	140	65.7	172	329
1958	221	324	349	373	497	798	630	234	241	436	185	164	370
1959	96.5	120	200	346	869	784	475	193	272	195	92.5	164	313
1960	264	335	361	553	735	575	912	271	149	224	170	163	374

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	0.26	0.43	1.00	1.76	2.64	2.06	1.86	4.12	0.56	0.29	0.67	0.56	17.39
1954	1.09	.84	6.56	2.49	1.40	1.80	1.28	.63	.40	.44	.22	.15	17.30
1955	.17	.28	.49	.65	1.17	.57	1.72	.65	.34	1.09	.55	.35	8.03
1956	.26	.28	.36	.58	1.70	1.91	.89	.35	.30	.39	.30	1.74	9.06
1957	.93	.47	2.07	1.31	1.01	2.05	3.71	1.41	.65	.54	.28	.64	15.05
1958	.86	1.22	1.36	1.45	1.74	3.10	2.37	.91	.80	1.69	.72	.61	16.93
1959	.37	.45	.77	1.34	3.05	3.04	1.79	.75	1.02	.78	.36	.62	14.32
1960	1.02	1.26	1.40	1.37	2.67	2.23	3.43	1.05	.56	.87	.66	.61	17.13

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	1274,1704	15,700	May 4, 1953	50	381	1.28	17.39	529	24.19
1954	1334,1704	6,390	Dec. 6, 1953	26	379	1.28	17.30	213	9.75
1955	1384	1,900	Apr. 14, 1955	27	176	.593	8.03	175	7.99
1956	1434,1704	4,250	Sept. 27, 1956	30	198	.667	9.06	254	11.63
1957	1504,1704	8,690	Apr. 7, 1957	48	329	1.11	15.05	329	15.02
1958	1554	1,920	Mar. 9, 1958	72	370	1.25	16.93	330	15.06
1959	1624,1704	2,250	Feb. 6, 1959	58	315	1.05	14.32	361	16.49
1960	1704	5,150	Apr. 5, 1960	70	374	1.26	17.13	-	-

3610. Choctawhatchee River near Newton, Ala.

Location.--Lat 31°21', long 85°37', in SE $\frac{1}{4}$ 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 abandoned 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.--683 sq mi.

Records available.--June to October 1906, April 1907 to August 1908 (fragmentary), October 1911 to August 1912 (gage heights only), November 1921 to September 1927, May 1935 to September 1960. Monthly discharge only for period January to April 1925, published in WSP 1304. Gage-height record 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 Aug. 15, 1906, staff gage at site 1 mile upstream at different datum. Aug. 16, 1906, to Aug. 22, 1908, and Oct. 20, 1911, to Aug. 3, 1912, chain gage at site 800 ft upstream at different datum. Nov. 29, 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.--30 years (1922-27, 1935-60), 956 cfs.

Extremes.--1906-8, 1911-12, 1921-27, 1935-60: Maximum discharge observed, 25,800 cfs Jan. 20, 1936, but may have been greater Jan. 17, 1925; maximum gage height, 29.6 ft May 4, 1953; minimum daily discharge, 61 cfs Sept. 8, 1954, from rating curve extended below 120 cfs.

Maximum stage known, 42 ft Mar. 15, 1929, from information furnished by State Highway Department.

Remarks.--Prior to January 1941, moderate diurnal fluctuation at low flow caused by gristmills above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	247	273	542	624	545	943	1,362	373	284	299	229	317	502
1952	212	503	987	706	1,647	2,075	941	725	394	239	438	397	789
1953	176	280	572	1,119	1,819	1,215	1,256	2,619	516	546	422	965	954
1954	739	593	4,544	1,734	1,082	1,203	902	425	292	255	134	95.1	1,005
1955	117	195	519	425	828	358	1,236	418	205	444	280	168	412
1956	150	176	204	337	1,031	1,227	607	301	239	327	171	1,468	516
1957	675	340	1,689	930	691	1,351	2,839	888	494	420	186	407	910
1958	472	809	845	927	1,290	1,964	1,544	527	537	947	409	348	882
1959	212	274	459	732	2,244	1,888	1,160	468	577	408	204	351	738
1960	617	733	837	867	1,590	1,368	2,850	754	349	453	437	366	930

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.42	0.45	0.91	1.05	0.83	1.59	2.23	0.63	0.46	0.51	0.39	0.52	9.99
1952	.36	.82	1.67	1.18	2.60	3.50	1.54	1.22	.64	.40	.74	.65	15.32
1953	.30	.46	.97	1.89	2.77	2.05	2.05	4.42	.84	.92	.71	1.58	18.96
1954	1.25	.97	7.67	2.93	1.65	2.03	1.47	.72	.48	.43	.23	.16	19.99
1955	.20	.32	.54	.72	1.26	.60	2.02	.71	.33	.75	.47	.27	8.19
1956	.25	.29	.34	.57	1.63	2.07	.99	.51	.39	.55	.29	2.40	10.28
1957	1.14	.55	2.85	1.57	1.05	2.28	4.64	1.50	.81	.71	.31	.66	18.07
1958	.80	1.32	1.43	1.56	1.97	3.31	2.52	.89	.88	1.60	.69	.57	17.54
1959	.36	.45	.77	1.24	3.42	3.19	1.90	.79	.94	.69	.34	.57	14.66
1960	1.04	1.20	1.41	1.46	2.51	2.31	4.66	1.27	.57	.77	.74	.60	18.54

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	577	11.47
1951	1204	5,400	Mar. 29, 1951	96	502	0.735	9.99	556	11.06
1952	1234	5,740	Feb. 16, 1952	126	769	1.13	15.32	713	14.20
1953	1274	23,900	May 4, 1953	142	954	1.40	18.96	1,365	27.12
1954	1354	12,000	Dec. 7, 1953	61	1,005	1.47	19.99	560	11.16
1955	1384	6,780	Apr. 15, 1955	71	412	.603	8.19	404	8.01
1956	1434	13,000	Sept. 27, 1956	71	516	.755	10.28	700	13.94
1957	1504	16,800	Apr. 6, 1957	109	910	1.33	18.07	859	17.08
1958	1554	5,000	Mar. 9, 1958	164	882	1.29	17.54	783	15.57
1959	1624	6,980	Feb. 5, 1959	127	738	1.08	14.66	842	16.73
1960	1704	13,700	Apr. 5, 1960	143	930	1.36	18.54	-	-

3630. 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 upstream 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.--492 sq mi.

Records available.--October 1938 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 246.72 ft above mean sea level, datum of 1929, supplementary adjustment of 1943. Prior to Nov. 21, 1938, wire-weight gage at same site and datum.

Average discharge.--22 years (1938-60), 646 cfs.

Extremes.--1938-60: Maximum discharge, 22,000 cfs Apr. 4, 1960 (gage height, 20.42 ft); minimum, 9.2 cfs Sept. 12, 13, 14, 30, Oct. 5, 6, 1954.
Maximum stage known, about 25 ft in March 1929, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	107	116	317	423	350	646	1,033	169	102	99.3	108	147	301
1952	62.5	184	465	345	1,182	2,472	875	661	336	95.3	187	167	585
1953	43.1	81.7	308	1,049	1,139	924	1,472	1,693	398	402	165	938	714
1954	450	294	2,558	915	546	686	450	135	48.4	89.9	26	13.6	521
1955	21.2	37.6	102	230	741	183	833	520	133	430	354	41.3	299
1956	59.4	78.3	98.8	229	919	1,333	424	252	95.7	147	26.9	961	366
1957	720	204	1,477	548	536	761	1,544	683	323	196	50.1	166	602
1958	187	463	599	486	681	1,331	822	198	171	939	267	131	523
1959	64.9	103	281	520	1,750	1,960	919	228	626	255	185	471	605
1960	433	740	707	1,033	1,512	1,286	3,371	557	155	138	187	117	847

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.25	0.26	0.74	0.99	0.74	1.51	2.34	0.40	0.23	0.23	0.25	0.33	8.27
1952	.15	.42	1.09	.61	2.59	5.79	1.98	1.55	.76	.22	.44	.58	16.18
1953	.10	.19	.72	2.48	2.41	2.17	3.34	3.97	.90	.94	.39	2.13	19.72
1954	1.05	.67	5.99	2.14	1.16	1.61	1.02	.32	.11	.21	.06	.03	14.37
1955	.05	.09	.24	.54	1.57	.43	1.89	1.22	.30	1.01	.83	.09	8.26
1956	.14	.18	.23	.54	2.02	2.66	.96	.59	.22	.34	.06	2.18	10.12
1957	1.69	.46	3.46	1.28	1.14	1.78	3.50	1.60	.73	.46	.12	.38	16.60
1958	.44	1.05	1.40	1.14	1.44	3.12	1.86	.46	.39	2.20	.63	.30	14.43
1959	.15	.23	.86	1.22	3.71	4.59	2.08	.53	1.42	.60	.43	1.07	16.89
1960	1.02	1.68	1.66	2.42	3.31	3.01	7.64	1.30	.35	.32	.44	.27	23.42

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	431	11.90
1951	1204	1,900	Apr. 21, 1951	14	301	0.612	8.27	315	8.68
1952	1234	11,600	Mar. 26, 1952	28	585	1.19	16.18	562	15.53
1953	1274	9,680	Sept. 28, 1953	26	714	1.45	19.72	957	26.42
1954	1334	9,030	Dec. 7, 1953	10	521	1.06	14.37	255	7.04
1955	1364	4,360	Apr. 16, 1955	9.2	299	.608	8.26	305	8.43
1956	1434	8,240	Sept. 27, 1956	10	366	.744	10.12	549	15.18
1957	1504	9,190	Dec. 25, 1956	16	602	1.22	16.60	503	13.88
1958	1554	4,090	Mar. 11, 1958	40	523	1.06	14.43	456	12.58
1959	1624	7,190	Mar. 29, 1959	40	605	1.23	16.69	725	20.01
1960	1704	22,000	Apr. 4, 1960	36	847	1.72	23.42	-	-

3645. 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 52, 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.--1,187 sq mi.

Records available.--August 1904 to August 1913, June 1922 to October 1925, May 1935 to September 1960. Published as "at Pera" 1904-13, 1922-25. Monthly discharge only for August to September 1923, published in WSP 1304.

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.--36 years (1904-12, 1922-25, 1935-60), 1,737 cfs.

Extremes.--1904-13, 1922-25, 1935-60: Maximum discharge, 30,000 cfs Jan. 20, 1925 (gage height, 42.0 ft, from floodmark, site and datum then in use), from rating curve extended above 14,000 cfs on basis of rating curve at present site; minimum 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.--Diurnal fluctuation and some regulation at low flow caused by powerplant 25 miles above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	458	448	912	1,051	946	1,839	2,637	626	472	436	370	424	863
1952	251	787	1,501	1,053	3,100	5,161	2,391	1,668	840	347	982	547	1,548
1953	219	311	803	2,273	2,681	2,105	2,863	3,606	878	1,090	477	2,018	1,603
1954	1,698	1,030	7,607	2,814	1,704	1,864	1,381	504	305	336	160	108	1,635
1955	131	217	403	664	1,741	539	2,715	1,260	479	1,122	1,125	344	887
1956	293	341	360	678	2,228	2,813	1,248	732	440	639	232	2,346	1,039
1957	2,080	729	3,596	1,732	1,366	2,265	5,005	2,152	1,333	946	291	828	1,856
1958	677	1,362	1,524	1,315	1,710	3,241	2,160	735	617	2,833	1,038	744	1,499
1959	361	446	766	1,264	4,148	3,693	2,609	918	1,611	682	487	1,064	1,503
1960	1,328	1,764	1,788	2,241	3,414	2,945	8,256	1,878	863	789	689	550	2,214

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.44	0.42	0.89	1.02	0.83	1.79	2.48	0.61	0.44	0.42	0.36	0.40	10.10
1952	.24	.74	1.46	1.02	2.82	5.01	2.25	1.62	.79	.34	.95	.51	17.75
1953	.21	.29	.78	2.21	2.35	2.04	2.69	3.50	.83	1.06	.48	1.90	18.32
1954	1.65	.97	7.39	2.73	1.50	1.81	1.30	.49	.29	.33	.15	.10	18.71
1955	.13	.20	.39	.64	1.53	.52	2.55	1.22	.45	1.09	1.09	.32	10.13
1956	.28	.32	.35	.66	2.02	2.73	1.17	.71	.41	.82	.22	2.20	11.89
1957	2.02	.68	3.49	1.68	1.22	2.20	4.70	2.09	1.25	.82	.28	.78	21.21
1958	.66	1.30	1.48	1.28	1.50	3.15	2.03	.71	.58	2.75	1.01	.70	17.15
1959	.35	.42	.74	1.25	3.64	3.78	2.45	.89	1.51	.66	.47	1.02	17.18
1960	1.29	1.68	1.74	2.18	3.10	2.86	7.76	1.82	.81	.77	.86	.52	25.39

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,222	13.96
1951	1204	7,100	Mar. 30, 1951	97	883	0.744	10.10	943	10.79
1952	1234	10,600	Mar. 28, 1952	141	1,548	1.30	17.75	1,448	16.59
1953	1274	14,700	Sept. 28, 1953	127	1,603	1.35	18.32	2,365	27.05
1954	1334	18,100	Dec. 5, 1953	80	1,635	1.38	18.71	824	9.42
1955	1364	14,700	Apr. 15, 1955	74	.897	.747	10.13	908	10.36
1956	1434	12,700	Sept. 27, 1956	118	1,039	.875	11.89	1,496	17.13
1957	1504	18,500	Apr. 7, 1957	142	1,856	1.56	21.21	1,614	18.46
1958	1554	7,160	Mar. 10, 1958	259	1,499	1.28	17.15	1,331	15.22
1959	1624	9,090	Feb. 5, 1959	192	1,503	1.27	17.18	1,782	20.38
1960	1724	27,900	Apr. 6, 1960	228	2,214	1.87	25.39	-	-

3655. Choctawhatchee River at Caryville, Fla.

Location.--Lat 30°46'32", long 85°49'40", in NW¼ 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, Washington County, and 1.8 miles downstream from Wrights Creek.

Drainage area.--3,499 sq mi.

Records available.--August 1929 to September 1960. Gage-height records collected at same site since 1928 are contained in reports of U.S. Weather Bureau.

Gage.--Wire-weight gage. Datum of gage is 39.02 ft (corrected) 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.--31 years (1929-60), 5,303 cfs.

Extremes.--1929-60: Maximum discharge, 60,100 cfs Apr. 7, 1960 (gage height, 16.03 ft); minimum, 752 cfs Sept. 4, 1957; minimum gage height, -0.82 ft Sept. 6, 1954.

Maximum stage known, 27.1 ft Mar. 17, 1929, from U.S. Weather Bureau records and floodmarks (discharge, 206,000 cfs, from rating curve extended above 58,000 cfs on basis of slope-area measurement of peak flow).

Remarks.--Some diurnal fluctuation during low flow caused by gristmills and powerplant above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,909	1,854	2,826	3,351	2,994	4,616	8,310	2,588	2,028	1,785	1,683	1,743	2,986
1952	1,249	2,894	5,105	3,583	8,047	9,985	5,846	3,579	2,571	1,709	2,948	2,556	4,159
1953	1,258	1,513	2,565	5,851	8,589	6,674	8,211	8,390	2,548	3,294	2,015	3,393	4,498
1954	6,679	5,559	24,150	10,900	5,430	6,340	5,053	2,207	1,636	1,605	1,046	905	5,827
1955	921	1,109	1,590	2,149	3,852	1,777	7,016	5,310	1,913	2,629	2,801	1,644	2,714
1956	1,174	1,243	1,395	1,925	5,421	6,889	3,605	2,066	1,766	2,482	1,287	5,311	2,865
1957	6,951	2,274	7,833	5,132	3,776	5,474	12,480	5,748	3,794	2,772	1,229	3,293	5,069
1958	3,437	4,459	5,053	5,225	5,877	9,978	7,679	3,265	2,983	6,146	3,588	2,507	5,016
1959	1,642	1,759	2,429	3,669	10,470	11,060	8,257	3,774	6,626	2,789	2,173	3,041	4,760
1960	4,622	6,105	5,047	5,861	9,601	8,472	21,920	4,866	2,576	2,757	2,933	2,175	6,374

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.63	0.59	0.93	1.10	0.89	1.52	2.65	0.85	0.65	0.58	0.55	0.56	11.50
1952	.41	.92	1.68	1.18	2.48	3.29	1.86	1.18	.82	.56	.97	.82	16.17
1953	.41	.48	.65	1.93	2.56	2.20	2.62	2.76	.81	1.09	.66	1.08	17.45
1954	2.20	1.13	7.96	3.59	1.62	2.09	1.60	.73	.52	.53	.34	.29	22.60
1955	.30	.35	.52	.71	1.15	.59	2.24	1.75	.61	.87	.92	.52	10.53
1956	.39	.40	.46	.63	1.67	2.27	1.15	.68	.56	.82	.42	1.69	11.14
1957	2.29	.73	2.58	1.69	1.12	1.80	3.98	1.89	1.21	.91	.40	1.05	19.65
1958	1.13	1.42	1.66	1.72	1.75	3.29	2.45	1.08	.95	2.03	1.18	.80	19.46
1959	.54	.56	.80	1.21	3.12	3.64	2.63	1.24	2.11	.92	.72	.97	18.46
1960	1.52	1.95	1.66	1.93	2.96	2.79	6.99	1.60	.82	.91	.97	.69	24.79

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	4,019	15.59
1951	1204	16,500	Apr. 2, 1951	922	2,968	0.848	11.50	3,189	12.36
1952	1234	17,900	Feb. 19, 20, 1952	928	4,159	1.19	16.17	3,832	14.90
1953	1274	32,000	Sept. 30, 1953	1,010	4,498	1.29	17.45	6,961	27.00
1954	1334	54,800	Dec. 9, 1954	796	5,827	1.67	22.60	3,219	12.48
1955	1384	30,300	Apr. 16, 1955	816	2,714	.776	10.53	2,731	10.61
1956	1434	35,800	Sept. 29, 1956	775	2,865	.819	11.14	3,984	15.49
1957	1504	37,600	Apr. 10, 1957	752	5,069	1.45	19.65	4,714	18.26
1958	1554	20,200	Mar. 13, 1958	1,510	5,016	1.43	19.46	4,419	17.15
1959	1624	23,100	Feb. 8, 1959	1,220	4,760	1.36	18.46	5,592	21.69
1960	1704	60,100	Apr. 7, 1960	1,280	6,374	1.82	24.79	-	-

3660. Holmes Creek at Vernon, Fla.

Location.--Lat 30°37'35", long 85°42'45", in NE¼ sec.35, T.3 N., R.15 W., near left bank on downstream side of bridge on State Highway 79 at Vernon, Washington County, a quarter of a mile downstream from Pippin Mill Creek.

Drainage area.--386 sq mi.

Records available.--April 1950 to September 1960.

Gage.--Wire-weight gage. Datum of gage is 10.70 ft above mean sea level, datum of 1929.

Average discharge.--10 years (1950-60), 578 cfs.

Extremes.--1950-60: Maximum discharge, 10,900 cfs Apr. 4, 1960 (gage height, 23.35 ft, from graph based on gage readings); minimum, 234 cfs July 8, 1955; minimum gage height, 10.17 ft Jan. 18, 1956.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	380	345	352	348	339	563	648	415	470	417	366	346	416
1952	320	365	521	462	1,169	956	641	390	331	297	339	480	518
1953	333	312	308	448	961	769	1,528	700	378	443	372	409	576
1954	454	378	2,314	1,086	568	884	521	376	346	343	316	305	660
1955	305	293	272	273	307	285	495	638	298	313	352	329	347
1956	268	262	255	257	371	530	382	331	330	785	339	416	374
1957	416	315	321	306	289	359	418	569	738	423	325	959	453
1958	887	649	844	880	979	1,423	1,323	599	822	757	675	375	851
1959	358	367	384	442	733	1,468	925	761	1,190	571	457	478	677
1960	1,113	940	704	985	1,211	1,006	2,529	580	448	523	451	459	909

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.14	1.00	1.05	1.04	0.91	1.68	1.87	1.24	1.56	1.25	1.09	1.00	14.63
1952	.95	1.06	1.56	1.58	3.27	2.79	1.85	1.16	.96	.89	1.01	1.39	18.27
1953	.99	.90	.92	1.34	2.59	2.30	4.42	2.09	1.09	1.32	1.11	1.18	20.25
1954	1.50	1.09	6.91	3.24	1.53	2.64	1.50	1.12	1.00	1.02	.94	.88	23.17
1955	.91	.85	.81	.82	.83	.85	1.43	1.91	.85	.93	1.05	.95	12.19
1956	.80	.76	.76	.77	1.04	1.58	1.05	.99	.95	2.28	1.01	1.20	13.19
1957	1.24	.91	.96	.91	.78	1.07	1.21	1.70	2.13	1.26	.97	2.77	15.91
1958	2.65	1.88	2.52	2.63	2.64	4.25	3.82	1.79	2.58	2.26	2.02	1.08	29.92
1959	1.07	1.06	1.15	1.52	1.98	4.39	2.67	2.27	3.44	1.71	1.37	1.58	23.81
1960	3.32	2.72	2.10	2.94	3.38	3.01	7.31	1.73	1.29	1.56	1.55	1.33	32.04

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	1172	a5,240	Sept. 2, 1950	-	-	-	-	-	-
1951	1204	1,150	Apr. 2, 1951	289	416	1.08	14.65	427	15.01
1952	1234	2,290	Feb. 19, 1952	280	518	1.34	18.27	497	17.51
1953	1274	3,220	Apr. 15, 1953	281	576	1.49	20.25	760	26.74
1954	1354	4,700	Dec. 25, 1953	302	860	1.71	23.17	468	16.44
1955	1384	3,620	May 25, 1955	234	347	.899	12.19	340	11.94
1956	1434	1,230	July 7, 1956	238	374	.969	13.19	397	13.98
1957	1504	1,760	June 11, 1957	277	453	1.17	15.91	565	19.85
1958	1554	2,640	Apr. 13, 1958	353	851	2.20	29.92	743	26.15
1959	1624	3,270	Mar. 9, 1959	329	677	1.75	23.81	815	28.67
1960	1704	10,900	Apr. 4, 1960	341	909	2.35	32.04	-	-

a Maximum during period April to September.

3665. Choctawhatchee River near Bruce, Fla.

Location--Lat 30°27'03", long 85°53'54", in NE $\frac{1}{4}$ 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, Walton County, and 5.8 miles downstream from Holmes Creek.

Drainage area--4,384 sq mi.

Records available--October 1930 to September 1960.

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.

Average discharge--30 years (1930-60), 6,971 cfs.

Extremes--1930-60: Maximum discharge, 69,600 cfs Aug. 19, 20, 1939; maximum gage height, 16.68 ft Aug. 19, 1939; minimum discharge, 1,480 cfs Oct. 9, 1954 (gage height, -0.23 ft).

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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,898	2,692	3,576	4,210	3,899	5,585	9,397	4,149	2,946	2,538	2,738	2,584	3,930
1952	2,191	3,763	5,535	5,037	10,360	12,340	9,008	4,367	3,852	2,373	3,739	4,191	5,541
1953	2,169	2,293	3,084	6,593	9,979	8,857	11,290	9,785	3,376	4,570	3,186	3,019	5,656
1954	9,221	4,275	25,970	13,760	6,691	8,431	6,702	3,181	2,491	2,356	1,862	1,666	7,259
1955	1,582	1,742	2,176	2,721	4,399	2,534	7,695	5,309	3,630	3,526	4,228	2,520	3,493
1956	1,881	1,858	1,945	2,344	6,023	8,032	4,768	2,785	2,619	4,063	2,235	3,010	3,454
1957	10,730	3,069	5,877	7,404	4,591	5,025	14,020	6,708	4,669	3,950	2,182	5,191	6,124
1958	5,485	5,143	7,592	6,915	8,729	13,120	11,010	5,000	4,415	7,384	5,731	3,346	6,986
1959	2,696	2,670	3,161	4,547	11,150	13,410	10,800	5,034	9,842	4,483	4,265	4,550	6,338
1960	7,112	9,060	6,704	7,906	10,960	11,310	26,430	6,514	3,811	3,930	4,181	3,363	8,402

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.76	0.69	0.94	1.11	0.93	1.47	2.39	1.09	0.75	0.67	0.72	0.66	12.18
1952	.58	.96	1.46	1.32	2.55	3.25	2.29	1.15	.98	.62	.98	1.07	17.21
1953	.57	.58	.81	1.73	2.37	2.33	2.87	2.57	.86	1.20	.84	.77	17.50
1954	2.42	1.09	6.83	3.62	1.59	2.22	1.71	.84	.63	.62	.49	.42	22.48
1955	.42	.44	.57	.72	1.04	.67	1.96	1.40	.92	.93	1.11	.64	10.82
1956	.49	.47	.51	.62	1.48	2.11	1.21	.73	.67	1.07	.59	.77	10.72
1957	2.82	.78	1.55	1.95	1.09	1.32	3.57	1.76	1.19	1.04	.57	1.32	18.96
1958	1.44	1.31	2.00	1.82	2.07	3.45	2.80	1.31	1.12	1.94	1.51	.85	21.62
1959	.71	.68	.83	1.20	2.65	3.53	2.75	1.32	2.50	1.19	1.12	1.16	19.63
1960	1.87	2.31	1.76	2.08	2.70	2.97	6.73	1.71	.97	1.03	1.10	.86	26.09

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	5,382	16.66
1951	1204	15,900	Apr. 5, 1951	1,840	3,930	0.896	12.18	4,124	12.79
1952	1234	21,300	Feb. 22, 1952	1,820	5,541	1.26	17.21	5,211	16.17
1953	1274	24,700	May 11, 1953	1,880	5,656	1.29	17.50	6,361	25.68
1954	1334	46,600	Dec. 12, 1953	1,570	7,259	1.66	22.48	4,361	13.57
1955	1384	24,900	Apr. 21, 1955	1,480	3,493	.797	10.82	3,509	10.86
1956	1434	414,000	Mar. 19, 1956	1,610	3,454	.788	10.72	4,636	14.40
1957	1504	32,600	Apr. 12, 1957	1,670	6,124	1.40	18.96	5,994	18.56
1958	1554	21,000	Mar. 15, 1958	2,500	6,986	1.59	21.62	6,170	19.09
1959	1624	25,900	Mar. 11, 1959	2,250	6,338	1.45	19.63	7,540	23.35
1960	1704	64,000	Apr. 9, 1960	2,610	8,402	1.92	26.09	-	-

a Maximum peak discharge; maximum discharge during year, 23,500 cfs Sept. 30, 1956, stage rising.

3670. Alauqa Creek near De Funiak Springs, Fla.

Location.--Lat 30°37'00", long 86°09'50", in NE $\frac{1}{4}$ 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, Walton County.

Drainage area.--65.6 sq mi.

Records available.--April 1951 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 19.65 ft above mean sea level, datum of 1929.

Average discharge.--9 years (1951-60), 149 cfs.

Extremes.--1951-60: Maximum discharge, 5,160 cfs Sept. 26, 1953 (gage height, 18.47 ft), from rating curve extended above 2,300 cfs; minimum, 27 cfs June 9, 21, 22, 30, July 1, 1955; minimum gage height, 5.93 ft June 22, 1955.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	79.0	69.8	62.7	62.6	74.2	-
1952	50.9	95.6	127	78.9	218	156	134	86.6	61.4	48.3	176	119	112
1953	68.6	69.7	84.3	153	222	143	309	130	123	118	113	254	148
1954	159	152	517	250	171	203	115	86.5	66.1	77.7	48.4	46.6	158
1955	39.3	43.9	47.1	53.1	78.1	43.4	94.8	40.0	32.6	97.7	126	97.7	66.0
1956	85.5	61.3	58.5	82.2	172	177	112	79.2	171	246	101	242	132
1957	204	105	110	85.0	72.0	98.2	147	102	166	138	106	336	139
1958	212	200	170	250	231	234	254	149	147	141	166	104	188
1959	75.5	76.3	74.3	104	160	302	225	145	260	281	290	266	188
1960	328	202	161	209	235	216	413	143	96.9	126	156	192	206

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	1.39	1.19	1.10	1.10	1.26	-
1952	0.90	1.63	2.24	1.39	3.58	2.75	2.29	1.52	1.04	.85	3.10	2.02	23.31
1953	1.21	1.19	1.48	2.69	3.53	2.52	5.25	2.29	2.10	2.07	1.98	4.32	30.63
1954	2.80	2.58	9.09	4.40	2.72	3.56	1.96	1.52	1.12	1.37	.85	.79	32.76
1955	.69	.75	.83	.93	1.24	.76	1.61	.70	.56	1.72	2.21	1.66	13.66
1956	1.50	1.04	1.03	1.45	2.83	3.11	1.90	1.39	2.91	4.32	1.77	4.12	27.37
1957	3.58	1.78	1.94	1.49	1.14	1.73	2.51	1.79	2.83	2.42	1.86	5.72	28.79
1958	3.73	5.40	3.00	4.40	3.67	4.12	4.32	2.62	2.50	2.48	2.91	1.76	38.91
1959	1.33	1.30	1.31	1.83	2.65	5.31	3.85	2.54	4.43	4.93	5.10	4.52	38.98
1960	5.76	3.44	2.83	3.67	3.94	3.79	7.03	2.52	1.65	2.22	2.74	3.27	42.76

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1234	a268	June 17, 1951	-	-	-	-	-	-
1952	1234	763	Feb. 16, 1952	43	112	1.71	23.31	109	22.42
1953	1274	5,160	Sept. 26, 1953	60	148	2.26	30.63	199	41.22
1954	1334	2,710	Dec. 6, 1953	41	158	2.41	32.76	99.3	20.56
1955	1384	541	July 11, 1955	27	66.0	1.01	13.66	72.3	14.96
1956	1434	3,790	Sept. 25, 1956	50	132	2.01	27.37	150	31.10
1957	1504	1,800	Sept. 28, 1957	60	139	2.12	28.79	153	31.62
1958	1554	1,820	Jan. 21, 1958	83	188	2.87	38.91	158	32.72
1959	1624	2,610	Mar. 6, 1959	60	188	2.87	38.98	227	47.07
1960	1704	2,420	Apr. 4, 1960	72	206	3.14	42.76	-	-

a Maximum during period April to September.

3675. Lightwood Knot Creek at Babbie, Ala.

Location.--Lat 31°16', long 86°19', in SW $\frac{1}{4}$ sec.36, T.4 N., R.17 E., on downstream side of right pier of bridge on U.S. Highway 84, 1 mile east of Babbie, 1 $\frac{1}{2}$ miles downstream from Poley Creek, 2 miles upstream from mouth, and 3 $\frac{1}{2}$ miles west of Opp.

Drainage area.--113 sq mi.

Records available.--February 1944 to April 1953, water years 1953-60 (annual maximum). Prior to October 1947, published as Poley Creek at Babbie.

Gage.--Crest-stage gage. Prior to Dec. 30, 1947, wire-weight gage and Dec. 30, 1947, to Apr. 23, 1953, water-stage recorder, both at same site and datum.

Average discharge.--8 years (1944-52), 227 cfs.

Extremes.--1944-60: Maximum discharge, 12,100 cfs Sept. 11, 1944 (gage height, 11.86 ft). 1944-53: Minimum daily discharge, 18 cfs July 2-4, 1950, Aug. 29, 30, 1951.

Remarks.--Some diurnal fluctuation at low flow.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	58.7	72.8	135	121	142	204	220	74.0	56.2	74.3	45.3	61.4	105
1952	38.4	119	181	125	228	373	232	194	64.6	60.5	231	83.8	161
1953	41.2	61.5	121	197	228	137	253	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.60	0.72	1.38	1.24	1.30	2.08	2.18	0.76	0.55	0.76	0.46	0.61	12.64
1952	.39	1.18	1.85	1.28	2.17	3.81	2.29	1.97	.64	.62	2.35	.83	19.38
1953	.42	.61	1.23	2.01	2.10	1.40	2.49	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	132	15.84	-	-
1951	1204	1,660	Apr. 20, 1951	18	105	0.929	12.64	111	13.36	-	-
1952	1234	2,100	Mar. 24, 1952	25	161	1.42	19.38	151	18.22	-	-
1953	1274	1,040	Apr. 7, 1953	-	-	-	-	-	-	-	-
1954	-	1,080	Nov. 24, 1953	-	-	-	-	-	-	-	-
1955	-	8,100	Apr. 13, 1955	-	-	-	-	-	-	-	-
1956	-	4,300	Sept. 25, 1956	-	-	-	-	-	-	-	-
1957	-	9,500	Apr. 6, 1957	-	-	-	-	-	-	-	-
1958	-	929	Nov. 14, 1957	-	-	-	-	-	-	-	-
1959	-	2,100	June 3, 1959	-	-	-	-	-	-	-	-
1960	-	3,200	Apr. 4, 1960	-	-	-	-	-	-	-	-

3678. Yellow River near Wing, Ala.

Location.--Lat 31°01', long 86°32', in sec.34, T.1 N., R.15 E., near right bank on downstream side of pier of bridge on Covington County Highway 4, between Wing and Lockhart, about 1 mile north of Alabama-Florida State line, and 4 $\frac{1}{4}$ miles east of Wing.

Drainage area.--447 sq mi.

Records available.--June 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 96.13 ft above mean sea level, datum of 1929.

Extremes.--1958-60: Maximum discharge, 14,400 cfs Apr. 5, 1960 (gage height, 17.50 ft); minimum, 165 cfs Oct. 29, 30, 1958 (gage height, 2.09 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	987	513	430	-
1959	210	235	317	427	1,331	1,196	924	527	1,475	564	428	586	678
1960	832	771	707	804	1,394	1,136	2,735	837	446	466	518	426	918

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	2.55	1.32	1.07	-
1959	0.54	0.59	0.82	1.10	3.10	3.09	2.31	1.36	3.68	1.45	1.10	1.46	20.62
1960	2.15	1.92	1.82	2.07	3.36	2.93	6.83	2.16	1.11	1.20	1.33	1.06	27.94

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1958	1554	-	-	188	-	-	-	-	-	-	-
1959	1624	3,490	Feb. 6, June 3	167	678	1.52	20.62	808	24.54	-	-
1960	1704	14,400	Apr. 5, 1960	206	918	2.05	27.94	-	-	-	-

3680. 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, Okaloosa County, half a mile upstream from Trammel Creek, and 6½ miles upstream from Shoal River.

Drainage area.--624 sq mi.

Records available.--July 1938 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 45.00 ft (revised) above mean sea level, datum of 1929. Prior to Dec. 6, 1939, staff gage at same site and datum.

Average discharge.--22 years (1938-60), 1,140 cfs.

Extremes.--1938-60: Maximum discharge, 28,000 cfs Dec. 6, 1953 (gage height, 15.13 ft); minimum, 143 cfs Oct. 25, 1954; minimum gage height, 1.06 ft Sept. 16, 17, 1956. Flood in 1929 reached a stage of 26.2 ft, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	420	447	650	671	635	1,157	1,383	591	407	379	338	424	625
1952	270	557	873	715	1,334	1,927	1,130	667	376	315	697	433	773
1953	227	242	422	810	1,293	960	1,572	1,792	544	703	444	2,104	921
1954	1,284	1,094	6,232	2,034	1,121	1,224	987	449	352	401	257	182	1,308
1955	153	201	286	371	786	405	1,773	903	464	667	1,000	320	608
1956	347	329	323	512	1,215	1,656	822	443	610	971	362	1,144	725
1957	1,258	501	2,189	1,053	826	1,201	3,554	1,748	1,107	651	390	870	1,279
1958	695	1,017	1,058	1,125	1,150	1,643	1,164	617	592	1,368	815	633	990
1959	376	407	503	669	1,804	1,641	1,452	838	2,271	893	816	994	1,047
1960	1,379	1,291	1,068	1,159	1,994	1,558	3,979	1,250	754	756	840	710	1,388

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.78	0.80	1.20	1.24	1.06	2.14	2.47	1.09	0.73	0.70	0.82	0.76	13.59
1952	.50	1.00	1.61	1.32	2.31	3.56	2.02	1.23	.67	.58	1.23	.77	16.86
1953	.42	.43	.78	1.50	2.16	1.77	2.81	3.31	.97	1.30	.82	3.76	20.03
1954	2.37	1.96	11.51	3.76	1.87	2.26	1.76	.83	.63	.74	.44	.32	28.45
1955	.28	.36	.53	.69	1.31	.75	3.17	1.67	.83	1.23	1.85	.57	13.24
1956	.64	.59	.60	.95	2.10	3.06	1.47	.82	1.09	1.79	.67	2.05	15.83
1957	2.29	.90	4.04	1.95	1.38	2.22	6.36	3.23	1.98	1.20	.72	1.56	27.83
1958	1.28	1.82	1.95	2.08	1.92	3.03	2.08	1.14	1.06	2.53	1.51	1.13	21.53
1959	.69	.75	.93	1.24	3.01	3.03	2.60	1.55	4.06	1.65	1.51	1.78	22.78
1960	2.55	2.31	1.97	2.14	3.45	2.88	7.11	2.31	1.35	1.40	1.55	1.27	30.29

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	802	17.44
1951	1204	2,930	Mar. 22, 1951	231	625	1.00	13.59	640	13.92
1952	1234	4,490	Mar. 28, 1952	224	773	1.24	16.86	705	15.38
1953	1274	20,600	Sept. 29, 1953	192	921	1.48	20.03	1,574	34.24
1954	1334	28,000	Dec. 6, 1953	153	1,308	2.10	28.45	634	13.78
1955	1394	13,200	(a)	143	608	.974	13.24	639	13.90
1956	1434	5,540	Sept. 26, 1956	216	725	1.16	15.83	973	21.23
1957	1504	17,900	Apr. 7, 1957	250	1,279	2.05	27.83	1,179	25.65
1958	1554	4,180	Mar. 12, 1958	316	990	1.59	21.53	865	18.83
1959	1624	4,580	June 3, 1959	316	1,047	1.68	22.78	1,252	27.26
1960	1704	16,000	Apr. 6, 1960	454	1,388	2.22	30.29	-	-

a About Apr. 16, 1955.

3685. 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 center of span on downstream side of bridge on State Highway 285, about 200 ft downstream from Machine Branch and 3.9 miles north of Mossy Head, Walton County.

Drainage area.--123 sq mi.

Records available.--March 1951 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 105.59 ft above mean sea level, datum of 1929. Prior to July 24, 1956, at site of former bridge 300 ft north at same datum.

Average discharge.--9 years (1951-60), 212 cfs.

Extremes.--1951-60: Maximum discharge, 8,690 cfs Sept. 27, 1953 (gage height, 21.86 ft), from rating curve extended above 4,500 cfs on basis of slope-conveyance study; minimum, 42 cfs June 9, 1956; minimum gage height, 3.13 ft Aug. 30, Sept. 9, 1951.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	240	262	142	108	96.2	72.6	152	-
1952	67.5	159	166	133	312	222	184	128	85.7	77.5	221	150	158
1953	75.3	77.8	116	216	313	198	372	140	121	229	124	459	202
1954	190	186	890	375	255	298	183	145	116	188	102	84.3	252
1955	64.0	72.0	82.2	103	147	78.3	212	308	81.6	138	142	89.4	126
1956	85.7	67.3	67.1	105	216	241	139	87.4	136	189	94.7	342	147
1957	222	113	158	110	107	144	291	212	203	100	83.3	360	175
1958	213	250	198	235	247	338	303	160	193	249	309	186	240
1959	107	104	105	156	286	396	362	347	582	297	280	271	274
1960	423	271	234	351	446	402	753	234	148	213	227	286	330

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	2.30	2.37	1.34	0.98	0.81	0.68	1.38	-
1952	0.63	1.44	1.56	1.25	2.73	2.08	1.67	1.20	.78	.73	2.08	1.36	17.51
1953	.71	.71	1.09	2.03	2.65	1.85	3.37	1.31	1.10	2.15	1.16	4.17	22.30
1954	1.78	1.69	8.34	3.52	2.16	2.79	1.66	1.36	1.05	1.76	.98	.76	27.83
1955	.60	.65	.77	.97	1.24	.73	1.92	2.88	.74	1.29	1.33	.81	13.93
1956	.80	.61	.63	.99	1.89	2.26	1.26	.82	1.24	1.77	.89	3.10	16.26
1957	2.08	1.03	1.48	1.04	.91	1.35	2.64	1.99	1.84	.94	.78	3.26	19.34
1958	2.00	2.27	1.86	2.20	2.09	3.17	2.75	1.50	1.75	2.34	2.89	1.69	26.51
1959	1.00	.94	.98	1.46	2.42	3.71	3.28	3.25	5.28	2.79	2.63	2.45	30.19
1960	3.97	2.46	2.20	3.29	3.91	3.77	6.65	2.19	1.34	2.00	2.13	2.59	36.50

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1274	al,540	Mar. 30, 1951	-	-	-	-	-	-
1952	1274	945	Feb. 16, 1952	56	158	1.28	17.51	148	16.39
1953	1274	8,690	Sept. 27, 1953	66	202	1.64	22.30	286	31.60
1954	1334	3,140	Dec. 23, 1953	64	252	2.05	27.83	163	18.04
1955	1384	5,900	May 23, 1955	46	126	1.02	13.93	127	13.95
1956	1434	4,860	Sept. 25, 1956	44	147	1.20	16.26	170	18.81
1957	1504	1,420	Sept. 20, 1957	65	175	1.42	19.34	189	20.86
1958	1554	1,220	Aug. 17, 1958	109	240	1.95	26.51	211	23.30
1959	1624	2,160	June 11, 1959	82	274	2.23	30.19	325	35.90
1960	1704	3,770	Apr. 2, 1960	108	330	2.68	36.50	-	-

a Maximum during period March to September.

3690. 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, 3½ miles downstream from Titi Creek, 4½ miles south of Crestview, Okaloosa County, and 7 miles upstream from mouth.

Drainage area.--474 sq mi.

Records available.--July 1938 to September 1960.

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.--22 years (1938-60), 1,064 cfs.

Extremes.--1938-60: Maximum discharge, 21,700 cfs July 7, 1940 (gage height, 14.26 ft); minimum, 263 cfs May 13, 14, 1955 (gage height, 0.96 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	668	557	635	588	515	1,092	1,051	657	580	491	434	726	667
1952	407	679	696	576	1,188	995	854	610	461	374	789	568	681
1953	344	338	470	741	1,155	803	1,463	680	566	980	700	1,994	848
1954	1,061	932	3,601	1,891	1,182	1,371	944	688	567	753	441	376	1,155
1955	304	331	373	430	640	365	697	1,135	469	637	772	463	551
1956	442	346	345	488	912	1,078	682	481	754	859	497	1,578	703
1957	1,226	626	1,142	713	620	649	1,244	781	967	567	524	1,505	880
1958	873	984	852	993	1,040	1,412	1,264	769	786	1,238	1,097	729	1,004
1959	507	512	511	668	1,245	1,571	1,475	1,202	2,490	1,256	1,294	1,387	1,173
1960	2,155	1,639	1,296	1,493	1,798	1,621	3,056	1,202	797	1,197	1,153	1,169	1,545

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.62	1.31	1.54	1.43	1.13	2.65	2.47	1.60	1.37	1.19	1.05	1.71	19.07
1952	.99	1.60	1.69	1.40	2.70	2.42	2.01	1.48	1.09	.91	1.92	1.34	19.55
1953	.84	.80	1.14	1.80	2.54	1.95	3.44	1.65	1.33	2.38	1.70	4.69	24.26
1954	2.58	2.19	8.76	4.60	2.60	3.34	2.22	1.67	1.54	1.83	1.07	.89	33.09
1955	.74	.78	.91	1.05	1.41	.89	1.64	2.76	1.10	1.55	1.88	1.09	15.80
1956	1.08	.81	.84	1.19	2.08	2.62	1.61	1.17	1.77	2.09	1.21	3.72	20.19
1957	2.98	1.47	2.78	1.73	1.36	1.58	2.93	1.90	2.28	1.38	1.27	3.54	25.20
1958	2.12	2.32	2.07	2.42	2.29	3.43	2.98	1.87	1.85	3.01	2.67	1.72	28.75
1959	1.23	1.20	1.24	1.63	2.73	3.82	3.47	2.92	5.86	3.05	3.15	3.26	33.56
1960	5.24	3.86	3.15	3.63	4.09	3.94	7.19	2.92	1.88	2.91	2.80	2.75	44.36

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	961	27.49
1951	1204	4,380	Mar. 20, 1951	314	667	1.41	19.07	660	18.88
1952	1234	3,120	Feb. 16, 17, 1952	304	681	1.44	19.55	628	18.05
1953	1274	20,000	Sept. 28, 1953	309	848	1.79	24.26	1,223	35.01
1954	1334	6,170	Dec. 15, 1953	326	1,155	2.44	33.09	767	21.99
1955	1384	10,100	May 24, 1955	263	551	1.16	15.80	562	16.10
1956	1434	10,900	Sept. 26, 1956	291	703	1.48	20.19	859	24.69
1957	1504	4,270	Sept. 21, 1957	345	880	1.66	25.20	855	24.48
1958	1554	3,080	Apr. 11, 1958	499	1,004	2.12	28.75	905	25.91
1959	1624	5,850	June 1, 1959	420	1,173	2.47	33.56	1,472	42.14
1960	1704	10,900	Apr. 5, 1960	621	1,545	3.26	44.36	-	-

3700. Blackwater River near Baker, Fla.

Location.--Lat 30°50'00", long 86°44'05", in SW $\frac{1}{4}$ sec.22, T.4 N., R.25 W., near right bank on downstream side of bridge on State Highway 4, 0.3 mile downstream from Red Wash Branch and 3.8 miles northwest of Baker, Okaloosa County.

Drainage area.--205 sq mi.

Records available.--March 1950 to September 1960.

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).

Average discharge.--10 years (1950-60), 264 cfs.

Extremes.--1950-60: Maximum discharge, 17,200 cfs Dec. 4, 1953 (gage height, 20.80 ft), from rating curve extended above 8,300 cfs on basis of velocity-area study; minimum, 60 cfs Sept. 7, 8, 1954; minimum gage height, 2.75 ft Nov. 18, 19, 1955, Jan. 8-18, 1956.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	110	110	161	158	154	464	279	169	144	120	88.8	100	172
1952	75.1	124	204	180	489	527	297	155	100	88.9	146	102	203
1953	72.0	72.0	112	225	456	250	638	506	152	283	149	459	278
1954	183	324	2,029	422	248	403	238	121	92.0	105	75.6	85.9	362
1955	64.0	72.2	79.3	96.8	205	86.1	615	284	102	135	177	78.3	165
1956	75.0	67.8	74.2	119	297	450	144	96.9	142	235	88.8	334	176
1957	196	89.2	560	219	214	283	983	260	195	173	120	344	303
1958	248	310	276	348	337	434	304	162	258	421	259	218	298
1959	111	114	150	172	489	420	423	339	656	227	242	364	305
1960	615	301	251	324	539	426	1,102	325	161	210	155	207	383

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.62	0.60	0.90	0.89	0.78	2.61	1.52	0.95	0.78	0.67	0.50	0.54	11.36
1952	.42	.67	1.15	.90	2.47	2.97	1.62	.87	.54	.50	.82	.56	13.49
1953	.41	.39	.63	1.25	2.31	1.34	3.47	2.84	.83	1.59	.84	2.50	18.40
1954	1.03	1.76	11.41	2.37	1.26	2.26	1.30	.68	.50	.59	.43	.36	23.95
1955	.36	.39	.45	.54	1.04	.48	3.35	1.60	.56	.76	1.00	.43	10.96
1956	.42	.37	.42	.67	1.56	2.53	.79	.55	.77	1.32	.50	1.82	11.72
1957	1.10	.49	3.15	1.23	1.09	1.59	5.35	1.45	1.06	.97	.68	1.67	20.04
1958	1.39	1.69	1.55	1.96	1.71	2.44	1.65	.91	1.40	2.37	1.46	1.19	19.72
1959	.63	.62	.73	.97	2.49	2.36	2.30	1.91	3.57	1.28	1.36	1.98	20.20
1960	3.46	1.64	1.41	1.82	2.84	2.40	6.00	1.83	.88	1.18	.87	1.13	25.46

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	1172,1704	a2,920	Sept. 1, 1950	-	-	-	-	-	-
1951	1204,1704	3,320	Mar. 19, 1951	72	172	0.839	11.36	173	11.48
1952	1234	1,640	Mar. 25, 1952	70	203	.990	13.49	191	12.68
1953	1274	4,990	Sept. 27, 1953	67	278	1.36	18.40	471	31.17
1954	1334	17,200	Dec. 4, 1953	61	362	1.77	23.95	165	10.95
1955	1384	8,580	Apr. 14, 1955	62	165	.805	10.96	166	10.97
1956	1434	3,950	Sept. 25, 1956	62	176	.859	11.72	230	15.25
1957	1504	8,850	Apr. 5, 1957	83	303	1.48	20.04	301	19.93
1958	1554	1,450	Mar. 9, 1958	90	298	1.45	19.72	258	17.07
1959	1624	1,940	Feb. 5, 1959	95	305	1.49	20.20	373	24.37
1960	1704	6,640	Apr. 4, 1960	104	383	1.87	25.46	-	-

a Maximum during the period March to September.

3702. Big Juniper Creek near Munson, Fla.

Location.--Lat 30°51'50", long 86°54'20", in SW $\frac{1}{4}$ sec.12, T.4 N., R.27 W., on right bank 300 ft upstream from bridge on State Highway 4, 0.3 mile downstream from Gunstock Branch, 2 miles west of Munson, Santa Rosa County, and 3.7 miles upstream from Sweetwater Creek.

Drainage area.--36 sq mi, approximately.

Records available.--January 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 70.95 ft above mean sea level, datum of 1929 (Florida State Road Department bench mark).

Extremes.--1958-60: Maximum discharge, 1,400 cfs Apr. 3, 1960 (gage height, 8.95 ft); minimum, 19 cfs June 12, 13, 1958 (gage height, 2.23 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	72.6	63.6	84.5	55.2	37.4	76.3	87.5	44.7	61.1	-
1959	29.3	32.9	36.7	43.0	97.0	71.5	73.5	65.6	89.2	53.7	57.0	65.7	59.2
1960	130	56.2	59.4	70.5	109	96.6	171	68.2	39.5	71.6	47.9	70.1	82.3

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	2.32	1.84	2.71	1.71	1.20	2.36	2.80	1.43	1.89	-
1959	0.94	1.02	1.18	1.38	2.81	2.29	2.28	2.10	2.76	1.72	1.83	2.04	22.35
1960	4.16	1.74	1.90	2.26	3.26	3.09	5.30	2.18	1.22	2.29	1.53	2.17	31.10

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1958	1624	(a)	-	b19	-	-	-	56.8	21.40	
1959	1624	466	Feb. 4, 1959	25	59.2	1.64	22.35	71.6	27.01	
1960	1704	1,400	Apr. 3, 1960	27	82.3	2.29	31.10	-	-	

a Maximum discharge during period January to September, about 500 cfs Mar. 8 or 9.

b Minimum daily during period January to September.

3703. West Fork Big Coldwater Creek at Cobbtown, Fla.

Location.--Lat 30°53'00", long 87°06'30", in SE $\frac{1}{4}$ sec.2, T.4 N., R.29 W., near left bank on downstream side of county road bridge, 0.5 miles downstream from Cobb Branch, 0.6 mile east of Cobbtown, Santa Rosa County, and 5.5 miles upstream from Juniper Creek.

Drainage area.--39.5 sq mi.

Records available.--January 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 93.19 ft above mean sea level, datum of 1929.

Extremes.--1958-60: Maximum discharge, 6,250 cfs Sept. 16, 1960 (gage height, 13.70 ft); minimum, 30 cfs Sept. 3, 11, 1958 (gage height, 1.67 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	72.6	64.2	93.5	64.9	47.0	71.0	81.9	45.9	57.3	-
1959	35.9	39.1	42.6	47.5	84.3	84.4	81.6	51.7	74.0	57.9	53.0	73.6	60.2
1960	110	66.1	71.8	78.1	95.0	88.1	144	79.7	45.9	80.7	57.1	251	97.0

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	2.12	1.69	2.73	1.83	1.37	2.01	2.39	1.34	1.62	-
1959	1.05	1.10	1.24	1.38	2.22	2.46	2.31	1.51	2.09	1.69	1.55	2.08	20.68
1960	3.22	1.87	2.10	2.28	2.59	2.57	4.07	2.33	1.30	2.36	1.67	7.08	33.44

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1958	1624	a477	Mar. 8, 1958	b31	-	-	-	59.6	20.49	
1959	1624	430	Mar. 5, 1959	33	60.2	1.52	20.68	71.2	24.48	
1960	1704	6,250	Sept. 16, 1960	36	97.0	2.46	33.44	-	-	

a Maximum during period January to September.

b Minimum day during period January to September.

3705. Big Coldwater Creek near Milton, Fla.
(Formerly published as Coldwater Creek near Milton)

Location.--Lat 30°42'30", long 86°58'20", in SW $\frac{1}{4}$ sec. 5, T.2 N., R.27 W., at right bank on downstream side of bridge on State Highway 191, 2 $\frac{1}{2}$ miles upstream from mouth and 6 $\frac{1}{2}$ miles northeast of Milton, Santa Rosa County.

Drainage area.--237 sq mi.

Records available.--October 1938 to September 1960. Monthly discharge only for October 1938, published in WSP 1304. Prior to October 1956, published as Coldwater Creek near Milton. October 1956 to September 1957, published as Big Coldwater River near Milton.

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.--22 years (1938-60), 522 cfs.

Extremes.--1938-60: Maximum discharge, 23,100 cfs Aug. 17, 1939 (gage height, 17.33 ft); minimum, 156 cfs June 10, 11, 1956; minimum gage height, 0.94 ft Dec. 11, 1938.

Remarks.--Records of chemical analyses and water temperatures for the period October 1959 to September 1960 are published in report of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	312	298	362	333	353	741	444	345	425	361	317	444	395
1952	275	376	390	209	554	614	501	364	284	267	293	349	380
1953	230	232	297	361	561	409	706	576	356	371	327	552	415
1954	293	438	1,563	572	484	643	414	298	267	323	233	225	466
1955	213	222	234	260	468	253	797	325	225	298	308	217	318
1956	239	206	207	273	431	566	271	223	328	425	208	505	323
1957	340	212	502	297	308	340	1,114	549	552	368	302	832	476
1958	419	528	419	537	472	647	456	365	597	638	453	560	508
1959	321	338	343	376	675	569	526	407	583	407	487	491	458
1960	866	499	502	547	668	651	1,176	556	393	656	490	951	662

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.52	1.40	1.76	1.62	1.55	3.60	2.09	1.68	2.00	1.76	1.54	2.09	22.61
1952	1.33	1.77	1.90	1.50	2.52	2.99	2.36	1.77	1.34	1.50	1.42	1.64	21.84
1953	1.12	1.09	1.44	1.85	2.46	1.99	3.32	2.80	1.68	1.80	1.59	2.60	23.74
1954	1.43	2.06	6.73	2.78	2.13	3.13	1.95	1.45	1.26	1.57	1.13	1.06	26.68
1955	1.03	1.05	1.14	1.36	2.06	1.23	3.75	1.58	1.06	1.45	1.50	1.02	18.23
1956	1.16	.97	1.01	1.33	1.96	2.75	1.28	1.08	1.54	2.07	1.01	2.38	18.54
1957	1.66	1.00	2.44	1.44	1.35	1.66	5.24	2.67	2.60	1.79	1.47	3.92	27.24
1958	2.04	2.49	2.04	2.61	2.08	3.15	2.15	1.78	2.81	3.10	2.20	2.63	29.08
1959	1.56	1.59	1.67	1.83	2.97	2.77	2.48	1.98	2.74	1.98	2.37	2.31	26.25
1960	4.21	2.35	2.44	2.66	3.04	3.17	5.54	2.70	1.85	3.19	2.38	4.48	38.01

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	439	25.15
1951	1204	5,100	Mar. 20, 1951	258	395	1.67	22.61	400	22.93
1952	1234	2,610	Mar. 25, 1952	230	380	1.60	21.84	357	20.49
1953	1274	3,910	Sept. 27, 1953	217	415	1.75	23.74	529	30.31
1954	1334	4,490	Dec. 7, 1953	207	466	1.97	26.68	343	19.68
1955	1384	13,100	Apr. 14, 1955	197	318	1.34	18.23	317	18.15
1956	1434	3,290	Sept. 24, 1956	158	323	1.36	18.54	357	20.50
1957	1504	11,300	Apr. 6, 1957	204	476	2.01	27.24	501	28.71
1958	1554	2,480	June 20, 1958	279	508	2.14	29.08	476	27.33
1959	1624	2,240	Feb. 5, 1959	267	458	1.93	26.25	531	30.43
1960	1704	8,780	Sept. 17, 1960	318	662	2.78	38.01	-	-

3707. Pond Creek near Milton, Fla.

Location.--Lat 30°40'50", long 87°07'55", in SE $\frac{1}{4}$ sec.15, T.2 N., R.29 W., near center of span on downstream side of bridge on State Highway 191, 0.6 mile downstream from Reader Creek, 6.4 miles northwest of Milton, Santa Rosa County, and 9.8 miles upstream from mouth.

Drainage area.--58.7 sq mi.

Records available.--January 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 47.45 ft above mean sea level, datum of 1929.

Extremes.--1958-60: Maximum discharge, 3,380 cfs Sept. 16, 1960 (gage height, 11.52 ft); minimum, 42 cfs June 13, 1958 (gage height, 2.64 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	75.5	68.2	88.9	65.5	53.4	78.1	82.0	69.1	67.7	-
1959	51.0	51.9	50.1	54.4	66.7	61.4	74.6	54.3	117	77.8	82.7	90.5	69.2
1960	127	95.5	87.8	94.0	95.7	97.3	166	96.7	74.5	75.4	75.8	212	108

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	1.48	1.21	1.75	1.25	1.05	1.48	1.61	1.36	1.29	-
1959	1.00	0.99	0.98	1.07	1.18	1.21	1.42	1.07	2.23	1.53	1.62	1.72	16.02
1960	2.49	1.82	1.73	1.85	1.76	1.91	3.15	1.90	1.42	1.48	1.49	4.03	25.03

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1958	1624	(a)	-	b43	-	-	-	66.8	15.45
1959	1624	580	June 10, 1959	44	69.2	1.18	16.02	82.5	19.09
1960	1704	3,380	Sept. 16, 1960	57	108	1.84	25.03	-	-

a Maximum during period January to September, about 400 cfs Mar. 8 or 9.

b Minimum daily during period January to September.

3707.5. Hurricane Branch near Milton, Fla.

Location.--Lat 30°40'20", long 87°08'20", in N $\frac{1}{2}$ sec.22, T.2 N., R.29 W., on left bank, 0.6 mile upstream from mouth and 7 miles northwest of Milton, Santa Rosa County.

Drainage area.--2.95 sq mi.

Records available.--March to September 1960.

Gage.--Water-stage recorder. Datum of gage is 68.33 ft above mean sea level, datum of 1929.

Extremes.--1960: Maximum discharge, 514 cfs Sept. 16, 1960 (gage height, 4.95 ft); minimum, 2.7 cfs Apr. 28, 29, May 1, 2, Sept. 7, 1960; minimum gage height, 2.70 ft Sept. 7, 1960.

Remarks.--Records of water temperatures and specific conductance of water for March 1960, are published in a report of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	5.70	4.85	4.02	4.19	4.01	10.0	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	2.16	1.89	1.52	1.64	1.57	3.78	-

Note.--Records not previously published.

3710. Conecuh River near Troy, Ala.

Location.--Lat 31°51', long 86°00', in NE¼ sec.13, T.10 N., R.20 E., on left bank near downstream side of bridge on U.S. Highway 231, 1½ miles downstream from Mannings Creek and 3 miles north of Troy.

Drainage area.--253 sq mi (revised).

Records available.--October 1943 to September 1953. Water years 1954-60 (annual maximum).

Gage.--Crest-stage gage. Datum of gage is 313.3 ft above mean sea level, datum of 1929 (levels by Alabama State Highway Department). Prior to Dec. 20, 1947, wire-weight gage and Dec. 31, 1947, to Sept. 30, 1953, staff gage, at approximately same site and at same datum.

Average discharge.--10 years (1943-53), 355 cfs.

Extremes.--1943-60: Maximum discharge, 18,000 cfs Nov. 28, 1948 (gage height, 16.1 ft, from floodmark).
1943-53: Minimum discharge observed, 0.8 cfs Aug. 31, Sept. 1, 10, 1951.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	38.3	40.3	165	231	208	235	367	37.4	9.92	16.9	6.37	33.2	120
1952	7.66	35.7	114	174	452	1,306	440	435	100	7.90	70.1	38.4	265
1953	6.62	14.7	139	460	609	448	918	1,342	186	152	35.2	313	384

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.17	0.18	0.75	1.05	0.86	1.33	1.62	0.17	0.04	0.08	0.03	0.15	6.43
1952	.03	.16	.52	.80	1.93	5.95	1.94	1.98	.44	.04	.32	.17	14.28
1953	.03	.06	.63	2.10	2.51	2.04	4.05	6.11	.82	.69	.16	1.38	20.58

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	244	13.10	-	-
1951	1204	820	Mar. 21, 1951	0.8	120	0.474	6.43	113	6.04	-	-
1952	1234	9,660	Mar. 25, 1952	2.1	265	1.05	14.28	266	14.29	-	-
1953	1274	16,800	May 6, 1953	4.7	384	1.52	20.58	-	-	-	-
1954	-	7,820	Dec. 7, 1953	-	-	-	-	-	-	-	-
1955	-	4,750	Apr. 13, 1955	-	-	-	-	-	-	-	-
1956	-	3,430	Mar. 18, 1956	-	-	-	-	-	-	-	-
1957	-	9,070	Apr. 5, 1957	-	-	-	-	-	-	-	-
1958	-	2,760	Nov. 24, 1957	-	-	-	-	-	-	-	-
1959	-	5,120	Mar. 29, 1959	-	-	-	-	-	-	-	-
1960	-	8,580	Apr. 4, 1960	-	-	-	-	-	-	-	-

3712. Indian Creek near Troy, Ala.

Location.--Lat 31°49', long 85°52', in E½ sec.26, T.10 N., R.19 E., at left downstream wingwall of culvert on U.S. Highway 29, 3½ miles upstream from mouth and 9 miles west of Troy.

Drainage area.--8.88 sq mi.

Records available.--August 1958 to September 1960.

Gage.--Water-stage recorder and steel sheet piling control. Altitude of gage is 354 ft (by barometer).

Extremes.--1958-60: Maximum discharge, 500 cfs Mar. 29, Apr. 3, 1960 (gage height, 4.48 ft); minimum, 0.1 cfs Sept. 10, 1958 (gage height, 0.34 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	-	1.77	-
1959	1.92	3.70	6.54	10.1	21.2	25.5	16.0	9.09	10.6	3.54	3.17	7.26	9.79
1960	19.5	13.2	13.9	20.9	26.7	32.2	39.3	15.9	8.75	8.64	10.4	6.34	17.9

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	-	0.22	-
1959	0.25	0.47	0.85	1.31	2.48	3.31	2.00	1.18	1.33	0.46	0.41	.91	14.96
1960	2.53	1.66	1.80	2.71	3.24	4.18	4.94	2.06	1.10	1.12	1.34	.80	27.48

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1958	1624	-	-	-	a0.4	-	-	-	-	-	-
1959	1624	460	Mar. 27, 1959	.8	9.79	1.10	14.96	12.7	19.38	-	-
1960	1704	500	Mar. 29, Apr. 3	1.9	17.9	2.02	27.48	-	-	-	-

a Minimum daily during period August to September.

3715. 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 U.S. Highway 331 and State Highway 52, half a mile downstream from Moody Mill Creek and three-quarters of a mile southeast of Brantley.

Drainage area.--492 sq mi.

Records available.--October 1937 to September 1960.

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.--23 years (1937-60), 693 cfs.

Extremes.--1937-60: Maximum discharge, 15,800 cfs Nov. 29, 1948 (gage height, 23.0 ft); minimum, 22 cfs Sept. 14, 1954.

Flood in March 1929 reached a stage of about 26 ft, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	168	180	362	472	422	712	993	210	115	100	82.1	122	327
1952	76.9	165	350	310	940	2,375	998	716	405	97.6	309	156	575
1953	72.2	107	327	976	979	989	1,563	2,646	401	388	155	544	762
1954	629	278	2,695	952	559	743	572	157	91.3	144	47.4	27.6	578
1955	43.5	63.1	106	234	655	206	884	597	283	773	619	109	379
1956	112	120	138	220	1,127	1,431	†577	304	112	124	47.2	210	374
1957	446	196	998	530	529	628	1,659	1,034	385	234	65.7	272	581
1958	227	786	787	614	874	1,512	893	276	227	445	175	174	581
1959	81.2	109	216	448	1,515	1,624	1,023	248	548	244	108	282	530
1960	431	823	650	1,174	1,635	1,390	3,479	565	222	286	402	173	929

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.39	0.41	0.85	1.11	0.89	1.67	2.25	0.49	0.26	0.24	0.19	0.28	9.03
1952	.18	.38	.82	.73	2.06	5.57	2.26	1.68	.92	.23	.72	.35	15.90
1953	.17	.24	.77	2.29	2.07	2.32	3.54	6.20	.91	.91	.36	1.23	21.01
1954	1.47	.63	6.32	2.23	1.18	1.74	1.50	.37	.21	.34	.11	.06	15.96
1955	.10	.14	.25	.55	1.39	.48	2.00	1.40	.64	1.81	1.45	.25	10.46
1956	.26	.27	.32	.52	2.47	3.35	1.31	.71	.25	.29	.11	.48	10.34
1957	1.04	.44	2.34	1.24	1.12	1.47	3.76	2.42	.87	.55	.15	.62	16.02
1958	.53	1.78	1.84	1.44	1.85	3.54	2.03	.65	.52	1.04	.41	.40	16.03
1959	.19	.25	.51	1.05	3.21	3.81	2.32	.58	1.24	.57	.25	.64	14.62
1960	1.01	1.87	1.52	2.75	3.58	3.26	7.89	1.32	.50	.67	.94	.39	25.70

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	519	14.32
1951	1204	1,810	Apr. 20, 1951	39	327	0.665	9.03	317	8.76
1952	1234	11,300	Mar. 26, 1952	56	575	1.17	15.90	567	15.70
1953	1274	15,000	May 7, 1953	62	762	1.55	21.01	1,024	28.25
1954	1334	9,250	Dec. 7, 1953	23	578	1.17	15.96	291	8.03
1955	1384	4,030	Apr. 18, 1955	26	379	.770	10.46	392	10.82
1956	1434	3,940	Mar. 19, 1956	30	374	.760	10.34	481	13.31
1957	1504	8,610	Apr. 8, 1957	44	581	1.18	16.02	593	16.35
1958	1554	4,600	Mar. 12, 1958	52	581	1.18	16.03	464	12.83
1959	1624	6,450	Mar. 30, 1959	47	530	1.08	14.62	655	18.07
1960	1704	14,400	Apr. 4, 1960	87	929	1.89	25.70	-	-

3720. 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., on left side of first pier from left abutment on downstream side of bridge on U.S. Highway 331 and State Highways 9 and 10, 1 mile northwest of Luverne and 3 miles downstream from Pond Creek.

Drainage area.--249 sq mi.

Records available.--October 1943 to September 1958, water years 1959-60 (annual maximum).

Gage.--Crest-stage gage. Datum of gage is 267.53 ft above mean sea level, datum of 1929, supplementary adjustment of 1943. Prior to Oct. 1, 1958, wire-weight gage.

Average discharge.--15 years (1943-58), 367 cfs.

Extremes.--1943-60: Maximum discharge, 16,700 cfs Nov. 28, 1948 (gage height, 16.8 ft, from graph based on gage readings).
1943-58: Minimum discharge observed, 4.9 cfs Oct. 3, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	60.7	68.5	170	252	424	326	497	84.7	61.3	28.2	25.2	47.8	168
1952	21.5	55.0	135	145	347	1,221	500	609	176	28.0	79.3	50.6	281
1953	24.3	47.7	158	445	706	528	808	740	131	179	56.2	320	343
1954	191	153	1,606	488	373	523	292	76.5	43.2	54.8	11.7	6.62	320
1955	10.8	23.7	44.2	140	293	91.7	414	290	89.2	154	192	30.4	147
1956	35.1	45.1	53.8	96.4	304	674	351	103	77.2	60.7	12.3	123	161
1957	139	103	647	232	328	372	964	633	335	183	24.1	135	341
1958	95.1	478	560	392	445	998	450	130	153	229	85.6	54.8	322
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.28	0.31	0.79	1.17	1.77	1.51	2.23	0.39	0.27	0.13	0.12	0.21	9.18
1952	.10	.25	.63	.67	1.50	5.65	2.24	2.82	.79	.13	.37	.23	15.38
1953	.11	.21	.73	2.05	2.95	2.45	3.62	3.43	.59	.83	.26	1.44	18.67
1954	.89	.68	7.43	2.26	1.56	2.42	1.31	.35	.19	.25	.05	.03	17.42
1955	.05	.11	.20	.65	1.23	.42	1.85	1.34	.40	.71	.89	.14	7.99
1956	.16	.20	.25	.45	1.32	3.12	1.57	.48	.34	.28	.06	.55	8.78
1957	.64	.46	3.00	1.07	1.37	1.72	4.32	2.93	1.50	.85	.11	.61	18.58
1958	.44	2.14	1.66	1.81	1.86	4.62	2.02	.60	.69	1.06	.40	.25	17.55
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	244	13.30
1951	1204	1,690	Feb. 4, 1951	8.4	168	0.675	9.18	161	8.78
1952	1234	7,310	Mar. 25, 1952	15	281	1.13	15.38	283	15.45
1953	1274	4,340	Apr. 12, 1953	18	343	1.38	18.67	488	26.62
1954	1334	7,280	Dec. 6, 1953	5.6	320	1.29	17.42	161	8.78
1955	1384	3,340	Apr. 16, 1955	5.0	147	.590	7.99	151	8.24
1956	1434	2,240	Mar. 14, 1956	6.8	161	.646	8.78	224	12.27
1957	1504	10,200	Apr. 6, 1957	12	341	1.37	18.58	344	18.72
1958	1554	5,160	Mar. 9, 1958	18	322	1.29	17.55	-	-
1959	-	8,630	Mar. 29, 1959	-	-	-	-	-	-
1960	-	15,500	Apr. 4, 1960	-	-	-	-	-	-

3725. Conecuh River near Andalusia, Ala.

Location--Lat 31°16', long 86°36', in NE¼ sec.1, T.3 N., R.14 E., on left bank on downstream side of Simmons Bridge on county road (formerly State Highway 83), 7½ miles southwest of Andalusia, and 10½ miles downstream from Patsaliga Creek.

Drainage area--1,344 sq mi.

Records available--August 1904 to December 1919, September 1929 to September 1952, water years 1953-60 (annual maximum). Published as "at Beck" 1904-19.

Gage--Crest-stage gage. Datum of gage is 106.77 ft above mean sea level, datum of 1929, supplementary adjustment of 1943 (levels by Corps of Engineers). Aug. 21, 1904, to Dec. 31, 1919, chain gage and Sept. 1, 1929, to Sept. 30, 1952, water-stage recorder, both at same site and datum.

Average discharge--38 years (1904-19, 1929-52), 1,973 cfs, revised (unadjusted).

Extremes--1904-19, 1929-60: Maximum discharge, 54,500 cfs Mar. 18, 1913 (gage height, 41.4 ft, from graph based on gage readings).

1904-19, 1929-52: Minimum discharge, 40 cfs Nov. 3, 1941; minimum daily, 47 cfs Oct. 26, Nov. 9, 1941.

Maximum stage known, 47.64 ft Mar. 15, 1929 (discharge, 154,000 cfs, from rating curve extended above 36,000 cfs on basis of slope-area measurement of peak flow).

Remarks--Flow regulated by Gantt and Point A Reservoirs (combined usable capacity, 14,400 acre-ft) and by hydroelectric plants.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	461	450	881	1,154	1,500	2,132	3,165	935	391	295	292	277	989
1952	265	525	1,109	917	2,879	5,829	3,110	2,090	1,230	378	747	534	1,631

Monthly and yearly runoff, in inches (adjusted) a/

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.36	0.37	0.77	0.98	1.16	1.97	2.61	0.63	0.36	0.26	0.22	0.31	10.00
1952	.20	.45	.95	.87	2.32	4.97	2.59	1.92	.99	.27	.88	.43	16.54

a Adjusted for change in contents in Gantt and Point A Reservoirs.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted a/			Observed	Adjusted a/	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	1,275	1,281	12.96
1951	1204	7,300	Apr. 21, 1951	72	989	989	0.736	10.00	998	1,000	10.10
1952	1234	16,900	Mar. 29, 1952	78	1,651	1,635	1.22	16.54	-	-	-
1953	-	18,900	May 9, 1953	-	-	-	-	-	-	-	-
1954	-	19,000	Dec. 8, 1953	-	-	-	-	-	-	-	-
1955	-	18,000	Apr. 18, 1955	-	-	-	-	-	-	-	-
1956	-	8,700	Mar. 18, 1956	-	-	-	-	-	-	-	-
1957	-	14,400	Apr. 7, 1957	-	-	-	-	-	-	-	-
1958	-	7,500	Mar. 8, 1958	-	-	-	-	-	-	-	-
1959	-	12,600	Mar. 30, 1959	-	-	-	-	-	-	-	-
1960	-	23,000	Apr. 5, 1960	-	-	-	-	-	-	-	-

a Adjusted for change in contents in Gantt and Point A Reservoirs.

3730. 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, $\frac{2}{3}$ miles upstream from Piney Woods Creek, $\frac{5}{8}$ miles downstream from Persimmon Creek, and 7 miles southwest of McKenzie.

Drainage area.--464 sq mi.

Records available.--October 1937 to September 1960.

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.--23 years (1937-60), 641 cfs.

Extremes.--1937-60: Maximum discharge, 28,100 cfs Mar. 17, 1938 (gage height, 24.5 ft, from floodmark); minimum, 3.5 cfs Sept. 15, 28, 29, 30, 1954.
Maximum stage known, about 33 ft in March 1929, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	44.1	42.8	99	166	474	908	1,689	159	218	66.5	39.8	199	337
1952	69.2	91.8	264	248	597	1,646	917	666	148	37.4	93.0	39.3	402
1953	22.3	30.2	152	377	1,151	931	1,338	1,023	98.8	249	56.2	164	461
1954	105	95.5	2,779	659	840	970	393	85.4	34.2	37.6	11.1	4.71	502
1955	6.66	15.9	40.8	142	329	106	1,439	411	214	520	495	40.2	312
1956	25.2	27.1	42.4	72.5	805	1,441	239	102	65.3	385	40.9	667	324
1957	231	104	1,245	328	282	572	2,859	551	250	269	51.0	86.1	568
1958	80.3	581	467	622	1,054	1,564	835	335	133	597	133	160	544
1959	57.2	55.5	94.0	263	1,394	1,671	1,152	291	938	277	299	591	583
1960	1,184	703	700	1,405	1,861	2,446	3,525	658	118	117	135	166	1,080

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.11	0.10	0.25	0.41	1.06	2.26	4.01	0.39	0.52	0.17	0.10	0.48	9.86
1952	.17	.22	.66	.62	1.39	4.08	2.20	1.66	.36	.09	.23	.09	11.78
1953	.06	.07	.58	.94	2.58	2.31	3.22	2.54	.24	.62	.14	.40	13.50
1954	.26	.22	6.91	1.64	1.88	2.41	.94	.21	.08	.09	.03	.01	14.68
1955	.02	.04	.10	.35	.74	.26	3.46	1.02	.51	1.29	1.23	.10	9.12
1956	.06	.06	.10	.18	1.87	3.58	.58	.25	.16	.96	.10	1.60	9.50
1957	.57	.25	3.09	.82	.65	1.42	6.87	1.37	.60	.67	.13	.21	16.63
1958	.20	1.40	1.16	1.55	2.56	3.68	2.01	.83	.32	1.48	.33	.39	15.91
1959	.14	.13	.23	.65	3.13	4.15	2.77	.72	2.26	.69	.74	1.42	17.03
1960	2.94	1.69	1.74	3.49	4.33	6.08	8.48	1.63	.28	.29	.33	.40	31.68

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	251	7.33
1951	1204	6,920	Apr. 21, 1951	8.2	337	0.726	9.86	357	10.45
1952	1234	5,880	Mar. 25, 1952	18	402	.866	11.78	385	11.24
1953	1274	3,370	May 5, 1953	17	461	.994	13.50	696	20.38
1954	1334	7,940	Dec. 8, 1953	3.5	502	1.08	14.68	255	7.45
1955	1384	9,550	Apr. 16, 1955	4.7	312	.672	9.12	314	9.18
1956	1434	5,320	Sept. 25, 1956	13	324	.698	9.50	450	13.19
1957	1504	14,000	Apr. 7, 1957	21	568	1.22	16.63	529	15.48
1958	1554	3,250	Mar. 10, 1958	31	544	1.17	14.91	467	13.65
1959	1624	3,760	Feb. 7, 1959	40	583	1.26	17.03	783	22.90
1960	1704	15,200	Apr. 1, 1960	48	1,080	2.33	31.68	-	-

3735. Pigeon Creek near Thad, Ala.

Location.--Lat 31°29', long 86°39', in N $\frac{1}{2}$ sec. 21, T.6 N., R.14 E., on left bank near downstream side of bridge on State Highway 55, 1 $\frac{1}{2}$ miles upstream from Louisville & Nashville Railroad bridge, 2 miles southeast of Thad, 3 miles upstream from Reedy Creek, and 5 $\frac{1}{2}$ miles southeast of McKenzie.

Drainage area.--296 sq mi.

Records available.--October 1937 to September 1960.

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. 25, 1938, wire-weight gage at same site and datum.

Average discharge.--23 years (1937-60), 435 cfs.

Extremes.--1937-60: 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, 1.66 ft); minimum daily, 7.8 cfs Aug. 23, 1956.

Maximum stage known, about 30 ft in March 1929, from information by local residents.

Remarks.--Diurnal fluctuation and occasional regulation caused by small mill 200 ft above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	63.6	68.9	151	191	383	499	820	127	82.8	60.1	62.3	115	217
1952	55.8	102	235	213	436	1,123	599	639	158	55.3	122	63.7	317
1953	35.3	44.2	204	415	707	666	802	647	102	152	62.2	121	327
1954	164	132	1,701	499	501	630	331	87.1	45.3	42.3	20.9	13.4	348
1955	18.2	36.8	64.5	181	298	98.6	682	420	159	169	218	40.4	198
1956	37.2	47.1	61.2	94.3	378	698	287	84.5	54.9	102	22.4	221	173
1957	211	112	672	292	314	389	1,333	491	189	219	50.6	73.5	362
1958	68.3	299	302	347	661	971	487	231	175	379	127	139	347
1959	59.5	67.4	143	265	850	1,145	792	206	511	187	126	246	379
1960	627	522	465	758	1,166	1,380	2,355	542	136	196	178	140	702

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.25	0.26	0.59	0.74	1.35	1.95	3.09	0.50	0.31	0.23	0.24	0.43	9.94
1952	.22	.38	.92	1.83	1.59	4.37	2.26	2.49	.80	.22	.48	.24	14.60
1953	.14	.17	.79	1.62	2.49	2.59	3.02	2.52	.38	.59	.24	.46	15.01
1954	.64	.50	6.63	1.94	1.76	2.45	1.25	.34	.17	.16	.08	.05	15.97
1955	.07	.14	.25	.71	1.05	.38	2.57	1.63	.60	.66	.85	.15	9.06
1956	.14	.18	.24	.37	1.38	2.72	1.08	.33	.21	.40	.09	.83	7.97
1957	.82	.42	2.62	1.14	1.10	1.51	5.02	1.91	.71	.85	.20	.28	16.58
1958	.27	1.13	1.17	1.35	2.32	3.78	1.84	.90	.66	1.48	.49	.52	15.91
1959	.23	.25	.56	1.03	2.99	4.46	2.98	.80	1.93	.73	.49	.93	17.38
1960	2.44	1.97	1.81	2.95	4.25	5.37	8.88	2.11	.51	.76	.69	.53	32.27

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	197	9.04
1951	1204	2,520	Apr. 20, 1951	31	217	0.733	9.94	226	10.36
1952	1254	3,320	Mar. 25, 1952	35	317	1.07	14.60	308	14.18
1953	1274	2,430	May 4, 1953	27	327	1.10	15.01	473	21.68
1954	1334	5,860	Dec. 7, 1953	10	348	1.18	15.97	189	8.66
1955	1384	3,500	Apr. 14, 1955	9	198	.669	9.06	200	9.16
1956	1454	1,830	Mar. 17, 1956	7.8	173	.584	7.97	245	11.27
1957	1504	5,930	Apr. 7, 1957	29	362	1.22	16.58	334	15.29
1958	1554	al, 700	Mar. 19, 20, 1958	37	347	1.17	15.91	314	14.38
1959	1624	3,670	Mar. 30, 1959	40	379	1.28	17.38	492	22.56
1960	1704	9,680	Apr. 1, 1960	63	702	2.37	32.27	-	-

a Maximum daily discharge.

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Location.--Lat 31°10', long 86°48', in W¹/₂ 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.

Records available.--October 1934 to December 1957. Prior to June 1935 monthly discharge only, published in WSP 1304.

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.

Extremes--1934-57: Maximum discharge, 67,300 cfs Dec. 1, 1948 (gage height, 38.6 ft); minimum daily, 152 cfs Sept. 28, 1954.

Maximum stage known, about 47 ft Mar. 15, 1929, from information by State Highway Department.

Remarks.--Some regulation at low and medium flows by Gantt and Point A Reservoirs and powerplants.

[illegible][illegible][illegible]

3745. Murder Creek near Evergreen, Ala.

Location.--Lat 31°25', long 87°00', in NW $\frac{1}{4}$ 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 $2\frac{1}{2}$ miles southwest of Evergreen.

Drainage area.--170 sq mi.

Records available.--October 1937 to September 1960.

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.--23 years (1937-60), 271 cfs.

Extremes.--1937-60: 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, 38 cfs Sept. 2, 3, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	94.2	101	145	144	171	384	427	137	164	97.6	77.1	146	174
1952	87.4	125	158	133	192	366	303	215	100	70.5	258	86.7	175
1953	68.9	91.3	181	245	384	290	388	340	127	242	122	135	217
1954	103	160	898	310	366	338	217	122	85.7	88.8	54.1	46.7	233
1955	50.3	62.8	89.1	168	238	109	556	211	166	219	128	69.1	171
1956	62.8	92.5	99.2	128	261	304	136	88.1	106	246	62.6	191	148
1957	151	105	432	229	185	220	567	240	184	150	77.1	189	227
1958	147	333	251	253	366	401	319	184	134	258	171	228	253
1959	132	149	158	208	388	474	371	196	420	287	188	313	272
1960	394	268	292	422	471	741	816	399	235	260	213	256	397

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.64	0.66	0.98	0.98	1.05	2.60	2.80	0.93	1.08	0.66	0.52	0.96	13.86
1952	.59	.82	1.07	.90	1.22	2.48	1.99	1.46	.66	.48	1.75	.57	13.99
1953	.47	.60	1.23	1.66	2.35	1.97	2.54	2.31	.84	1.64	.83	.89	17.33
1954	.70	1.05	6.09	2.10	2.24	2.30	1.42	.83	.56	.60	.37	.31	18.57
1955	.34	.41	.60	1.14	1.46	.74	3.65	1.43	1.09	1.48	.87	.45	13.66
1956	.42	.61	.67	.86	1.65	2.06	.89	.60	.70	1.67	.42	1.25	11.80
1957	1.02	.69	2.93	1.55	1.13	1.49	3.72	1.63	1.21	1.02	.52	1.24	18.15
1958	.99	2.18	1.71	1.72	2.24	2.72	2.09	1.25	.88	1.75	1.16	1.50	20.19
1959	.90	.98	1.07	1.41	2.37	3.21	2.44	1.33	2.75	1.95	1.28	2.05	21.74
1960	2.67	1.76	1.98	2.87	2.99	5.03	5.36	2.71	1.54	1.76	1.44	1.68	31.79

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	163	13.00
1951	1204	2,200	Mar. 29, 1951	61	174	1.02	13.86	176	14.06
1952	1234	2,400	Mar. 24, 1952	54	175	1.03	13.99	172	13.81
1953	1274	1,800	July 22, 1953	58	217	1.28	17.33	286	22.87
1954	1334	2,840	Dec. 4, 1953	39	233	1.37	18.57	151	12.08
1955	1384	6,260	Apr. 14, 1955	45	171	1.01	13.66	176	14.01
1956	1434	2,640	July 9, 1956	43	148	.870	11.80	184	14.74
1957	1504	5,150	Dec. 24, 1956	57	227	1.34	18.15	230	18.39
1958	1554	1,230	Feb. 7, 1958	80	253	1.49	20.19	229	18.26
1959	1624	3,460	June 10, 1959	109	272	1.60	21.74	316	25.20
1960	1704	4,790	Apr. 3, 1960	126	397	2.34	31.79	-	-

3750. Escambia Creek at Flomaton, Ala.

Location.--Lat 31°01', long 87°15', in NE $\frac{1}{4}$ sec.33, T.1 N., R.8 E., at bridge on U.S. Highway 31 at north edge of Flomaton, 1 $\frac{1}{4}$ miles upstream from Louisville & Nashville Railroad bridge, 1 $\frac{1}{2}$ miles upstream from Alabama-Florida State line, and 4 miles upstream from mouth.

Drainage area.--323 sq mi.

Records available.--October 1938 to December 1951, water years 1952-60 (annual maximum). October to December 1938 monthly discharge only, published in WSP 1304. Prior to October 1949, published as "Escambia River."

Gage.--Crest-stage gage. Datum of gage is 52.40 ft above mean sea level, datum of 1929. Prior to June 5, 1939, staff gage and June 5, 1939, to May 31, 1942, water-stage recorder, at site 400 ft upstream at same datum. June 1, 1942, to Dec. 31, 1951, water-stage recorder at present site and datum.

Average discharge.--13 years (1938-51), 667 cfs.

Extremes.--1938-60: Maximum discharge, 42,400 cfs Apr. 14, 1955 (gage height, 19.4 ft, from crest-stage gage), from rating curve extended above 18,000 cfs on basis of slope-area measurement at gage height 19.26 ft.

1938-51: Minimum discharge observed, 144 cfs May 18, 1939.

Maximum stage known, 25.9 ft in March 1929, from information furnished by Alabama Highway Department.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	279	252	348	349	385	1,070	722	281	296	265	208	354	401
1952	192	298	398	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.00	0.87	1.24	1.24	1.24	3.82	2.49	1.00	1.02	0.95	0.74	1.22	16.83
1952	.69	1.03	1.42	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	446	18.75
1951	1204	6,330	Mar. 19, 1951	170	401	1.24	16.83	401	16.86
1952	-	4,670	Mar. 24, 1952	-	-	-	-	-	-
1953	-	3,590	Apr. 26, 1953	-	-	-	-	-	-
1954	-	8,870	Dec. 6, 1953	-	-	-	-	-	-
1955	-	42,400	Apr. 14, 1955	-	-	-	-	-	-
1956	-	2,930	Sept. 25, 1956	-	-	-	-	-	-
1957	-	4,270	Dec. 25, 1956	-	-	-	-	-	-
1958	-	12,790	Sept. 22, 1958†	-	-	-	-	-	-
1959	-	5,560	Sept. 14, 1959	-	-	-	-	-	-
1960	-	8,540	Apr. 3, 1960	-	-	-	-	-	-

† Corrected.

ESCAMBIA RIVER BASIN

3755. Escambia River near Century, Fla.

Location.--Lat 30°57'25", long 87°14'00", in sec.10, T.5 N., R.30 W., on left bank 16 ft downstream from bridge on State Highway 4, 1.2 miles downstream from Escambia Creek, and 1½ miles east of Century, Escambia County.

Drainage area.--3,817 sq mi.

Records available.--October 1934 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 28.34 ft above mean sea level (Florida State Road Department bench mark). Prior to Jan. 13, 1940, wire-weight gage at same site and datum.

Average discharge.--26 years (1934-60), 6,083 cfs.

Extremes.--1934-60: Maximum discharge, 77,200 cfs Apr. 5, 1960 (gage height, 20.94 ft); minimum, 600 cfs Sept. 15, Oct. 20, 21, 1954 (gage height, 1.30 ft).
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.--Some regulation by powerplants above station. Records of chemical analyses for the period September 1954 to September 1959 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,654	1,468	2,328	2,839	4,038	7,479	10,180	3,110	2,013	1,497	1,157	1,763	3,281
1952	1,199	1,884	3,406	2,915	7,150	13,360	10,470	5,498	4,588	1,565	2,307	1,873	4,653
1953	1,089	1,150	2,630	5,555	7,702	7,288	8,575	10,750	2,434	3,418	1,750	2,156	4,509
1954	3,142	2,472	24,800	8,019	5,746	6,964	4,903	1,953	1,256	1,490	939	708	5,209
1955	666	1,033	1,157	1,925	4,522	1,783	14,780	5,309	3,706	3,533	3,938	1,156	3,601
1956	1,087	1,055	1,295	1,895	6,049	9,178	3,832	2,070	2,098	3,859	1,128	3,245	3,055
1957	3,568	1,755	6,571	4,690	3,588	4,633	18,030	7,105	3,331	2,957	1,221	2,880	5,023
1958	2,135	5,374	5,360	5,567	6,884	11,710	6,743	3,168	2,421	4,634	2,881	3,531	5,007
1959	1,889	1,561	2,017	3,129	11,100	10,590	11,240	5,563	8,910	4,007	3,261	6,037	5,532
1960	7,531	6,971	5,989	9,047	13,560	11,450	26,960	6,344	2,583	3,293	3,306	4,756	8,435

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.50	0.43	0.70	0.86	1.10	2.26	2.97	0.94	0.59	0.45	0.35	0.52	11.67
1952	.36	.55	1.03	.88	2.02	4.03	3.06	1.66	1.34	.41	.70	.55	16.59
1953	.33	.34	.79	1.62	2.10	2.20	2.51	3.25	.71	1.03	.53	.63	16.04
1954	.95	.72	7.43	2.42	1.57	2.10	1.43	.59	.37	.45	.28	.21	18.52
1955	.20	.30	.35	.58	1.23	.54	4.32	1.60	1.08	1.07	1.19	.34	12.80
1956	.33	.31	.39	.57	1.71	2.77	1.12	.63	.61	1.17	.34	.95	10.90
1957	1.08	.51	1.98	1.42	.98	1.40	5.27	2.15	.97	.89	.37	.84	17.86
1958	.65	1.57	1.62	1.62	1.88	3.54	1.97	.96	.71	1.40	.87	1.03	17.82
1959	.51	.46	.61	.95	3.03	3.20	3.28	1.08	2.60	1.21	.98	1.76	19.67
1960	2.27	2.04	1.81	2.73	3.83	3.46	7.88	1.92	.76	.99	1.00	1.39	30.08

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	3,630	12.49
1951	1204	23,100	Apr. 24, 1951	824	3,281	0.86	11.67	3,368	11.98
1952	1234	28,800	Mar. 26, 1952	870	4,653	1.22	16.59	4,518	16.11
1953	1274	24,600	May 12, 1953	904	4,509	1.18	16.04	6,658	23.68
1954	1334	45,300	Dec. 7, 1953	609	5,209	1.36	18.52	2,890	10.27
1955	1384	71,300	Apr. 15, 1955	609	3,601	.943	12.80	3,650	12.98
1956	1434	18,100	Mar. 17, 1956	698	3,055	.800	10.80	3,770	13.44
1957	1504	42,800	Apr. 7, 1957	940	5,023	1.32	17.86	5,086	18.15
1958	1554	17,500	Mar. 12, 1958	1,260	5,007	1.31	17.82	4,372	15.56
1959	1624	21,200	Apr. 4, 1959	1,220	5,532	1.45	19.67	6,810	24.21
1960	1704	77,200	Apr. 5, 1960	1,640	8,435	2.21	30.08	-	-

3760. Pine Barren Creek near Barth, Fla.

Location.--Lat 30°47'55", long 87°22'05", in SW¹/₄ 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 northwest of Mount Calvary campgrounds, and 4.0 miles northwest of Barth, Escambia County.

Drainage area.--75.3 sq mi.

Records available.--October 1952 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 29.86 ft above mean sea level, datum of 1929.

Average discharge.--8 years (1952-60), 130 cfs.

Extremes.--1952-60: Maximum discharge, 24,800 cfs Apr. 14, 1955 (gage height, 18.0 ft, from floodmark), from rating curve extended above 1,400 cfs on basis of slope-area measurement of peak flow; minimum, 51 cfs June 8, 9, 1956; minimum gage height, 3.13 ft Sept. 3, 4, 1956.

Remarks.--Records of chemical analyses and water temperatures for the period October 1952 to September 1959 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	75.7	83.1	128	122	232	171	154	145	95.9	124	93.8	107	127
1954	78.0	118	413	131	122	142	105	83.7	78.2	89.2	65.9	64.9	125
1955	65.3	69.0	72.7	81.2	96.9	66.4	465	94.3	82.1	111	127	78.6	117
1956	70.8	64.5	70.8	85.4	148	176	85.6	75.3	85.6	104	65.4	127	96.2
1957	116	78.7	101	85.4	80.2	114	379	149	124	80.6	91.4	186	132
1958	112	157	120	136	144	189	150	118	174	137	112	142	141
1959	92.0	91.2	94.5	101	165	153	170	160	239	143	120	144	139
1960	179	117	122	144	173	146	318	205	120	125	116	177	162

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	1.16	1.23	1.96	1.87	3.20	2.61	2.28	2.23	1.42	1.90	1.44	1.58	22.88
1954	1.19	1.75	6.32	2.01	1.69	2.17	1.56	1.28	1.16	1.37	1.01	.96	22.47
1955	1.00	1.02	1.11	1.24	1.34	1.02	6.89	1.44	1.22	1.70	1.94	1.17	21.09
1956	1.08	.96	1.08	1.31	2.12	2.69	1.27	1.15	1.27	1.59	1.00	1.89	17.41
1957	1.77	1.17	1.54	1.31	1.11	1.74	5.61	2.29	1.84	1.23	1.40	2.75	23.76
1958	1.72	2.32	1.84	2.08	1.99	2.89	2.23	1.81	2.58	2.10	1.72	2.10	25.38
1959	1.41	1.35	1.45	1.54	2.29	2.35	2.52	2.45	3.54	2.18	1.84	2.13	25.05
1960	2.74	1.73	1.87	2.21	2.47	2.24	4.71	3.14	1.78	1.92	1.78	2.63	29.22

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	1274	1,120	May 5, 1953	67	127	1.69	22.88	154	27.79
1954	1334	3,450	Dec. 6, 1953	61	125	1.66	22.47	90.6	16.34
1955	1384	24,800	Apr. 14, 1955	63	117	1.55	21.09	117	21.08
1956	1434	1,400	Sept. 24, 1956	52	96.2	1.28	17.41	104	18.77
1957	1504	8,050	Apr. 5, 1957	65	132	1.75	23.76	140	25.16
1958	1554	903	June 21, 1958	80	141	1.87	25.38	131	23.71
1959	1624	882	June 10, 1959	82	139	1.85	25.05	151	27.18
1960	1704	2,870	Apr. 4, 1960	84	162	2.15	29.22	-	-

3761. Bayou Marcus Creek near Pensacola, Fla.

Location--Lat 30°26'53", long 87°17'26", in S $\frac{1}{4}$ sec.13, T.2 S., R.30 W., near right bank on downstream side of bridge on U.S. Highway 90, 0.3 mile upstream from Turners Creek, 4.5 miles upstream from mouth, and $\frac{5}{8}$ miles northwest of city hall in Pensacola, Escambia County.

Drainage area--11.2 sq mi.

Records available--February 1958 to March 1960.

Gage--Water-stage recorder. Datum of gage is 11.21 ft above mean sea level, datum of 1929.

Extremes--1958-60: Maximum discharge, 225 cfs Sept. 13, 1959 (gage height, 5.30 ft); minimum, 14 cfs Sept. 9, 10, 1959 (gage height, 2.05 ft).

Remarks--Some regulation at low flow by reservoir $1\frac{1}{2}$ miles upstream since August 1959.

Monthly and yearly mean discharge, in cubic feet per second													
Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	46.3	43.6	40.7	44.4	55.4	44.4	52.5	-
1959	49.9	48.6	39.5	40.8	39.5	37.5	49.2	35.2	46.2	41.9	32.3	41.2	41.8
1960	43.9	37.3	34.7	36.1	37.1	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches													
Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	4.76	4.35	4.19	4.43	5.70	4.57	5.23	-
1959	5.14	4.84	4.07	4.20	3.67	3.86	4.90	3.62	4.60	4.31	3.32	4.10	50.63
1960	4.52	3.72	3.57	3.71	3.57	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second													
Year	WSP	Water year ending Sept. 30							Calendar year				
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff inches	Mean	Runoff inches				
		Discharge	Date										
1958	1624	a152	Sept. 12, 1958	-	-	-	-	-	-				
1959	1624	225	Sept. 13, 1959	15	41.8	3.73	50.63	39.9	48.39				
1960	1704	b163	Oct. 10, 1959	-	-	-	-	-	-				

a Maximum during period February to September.

b Maximum during period October to March.

PERDIDO RIVER BASIN

3763. Brushy Creek near Walnut Hill, Fla.

Location--Lat 30°53'21", long 87°32'24", in SE $\frac{1}{4}$ sec.4, T.4 N., R.33 W., near right bank on downstream side of county road bridge, 1,000 ft downstream from Rocky Creek, 2 miles west of Walnut Hill, Escambia County, and 8 miles upstream from mouth.

Drainage area--49 sq mi, approximately.

Records available--January 1958 to September 1960.

Gage--Water-stage recorder. Datum of gage is 118.32 ft above mean sea level, datum of 1929.

Extremes--1958-60: Maximum discharge, 1,760 cfs June 20, 1958 (gage height, 12.85 ft), from rating curve extended above 640 cfs by logarithmic plotting; minimum, 46 cfs Sept. 3, 1958; minimum gage height, 2.95 ft Oct. 12-16, 26-28, 1958.

Remarks--Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second													
Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	88.0	92.7	127	88.2	57.5	187	90.1	62.6	71.3	-
1959	54.3	61.6	62.2	72.5	144	122	138	161	102	83.3	105	102	102
1960	103	69.8	77.6	102	107	113	171	132	69.8	94.0	75.8	101	101

Monthly and yearly runoff, in inches													
Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	2.07	1.97	2.98	2.01	1.35	4.26	2.12	1.47	1.62	-
1959	1.28	1.40	1.46	1.71	3.06	2.88	2.89	3.26	3.66	2.40	1.96	2.38	28.34
1960	2.42	1.59	1.83	2.41	2.36	2.67	3.90	3.11	1.59	2.21	1.78	2.30	28.17

Yearly discharge, in cubic feet per second													
Year	WSP	Water year ending Sept. 30							Calendar year				
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches						
		Discharge	Date										
		1958	-					al,760	June 20, 1958	b47	-	-	-
1959	-	1,180	May 21, 1959	50	102	2.08	28.34	108	30.04				
1960	-	1,060	Apr. 3, 1960	52	101	2.06	28.17	-	-				
a Maximum duration, peak flow													

a Maximum during period January to September.

b Minimum daily during period January to September.

Note.--Records not previously published.

3765. 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 county highway bridge, 1,000 ft downstream from Alligator Creek, and half a mile southwest of Barrineau Park, Escambia County.

Drainage area.--394 sq mi.

Records available.--June 1941 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 25.77 ft above mean sea level, datum of 1929. Prior to Aug. 22, 1949, staff gage at same site and datum.

Average discharge.--19 years (1941-60), 756 cfs.

Extremes.--1941-60: Maximum discharge, 39,000 cfs Apr. 15, 1955 (gage height, 23.94 ft), from rating curve extended above 8,500 cfs; minimum, 207 cfs Sept. 15, 1954 (gage height, 1.29 ft).

Maximum stage known, 25.7 ft Mar. 15, 1929, from information by local resident.

Remarks.--Records of chemical analyses and water temperatures for the period January 1958 to September 1959, are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	459	383	586	499	489	1,353	823	552	869	532	338	514	600
1952	278	469	520	367	981	831	750	710	345	297	356	754	552
1953	266	278	556	698	866	638	1,004	652	427	677	520	388	579
1954	266	543	2,084	669	501	624	415	320	316	363	249	224	550
1955	233	256	302	386	588	269	2,395	376	427	544	609	310	554
1956	271	246	323	446	916	1,199	351	282	351	609	315	653	496
1957	558	279	451	359	343	513	1,717	1,128	793	321	308	929	637
1958	431	913	594	765	828	840	577	376	1,082	728	568	546	670
1959	312	339	362	430	1,069	877	1,006	977	1,568	821	588	953	771
1960	1,234	599	615	816	850	783	1,654	807	438	517	559	779	803

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.34	1.08	1.71	1.46	1.29	3.96	2.33	1.03	2.46	1.56	.99	1.46	20.67
1952	.82	1.33	1.52	1.07	2.69	2.43	2.12	2.08	.98	.87	1.04	2.14	19.09
1953	.78	.79	1.63	2.04	2.29	1.87	2.84	1.91	1.21	1.98	1.52	1.10	19.96
1954	.78	1.54	6.10	1.96	1.32	1.85	1.18	.94	.90	1.06	.73	.63	18.97
1955	.68	.75	.88	1.13	1.55	.79	6.78	1.10	1.21	1.59	1.78	.88	19.10
1956	.79	.70	.95	1.31	2.51	3.51	.99	.83	.99	1.78	.92	1.85	17.13
1957	1.63	.79	1.26	.99	.91	1.50	4.86	3.30	2.24	.94	.90	2.63	21.95
1958	1.26	2.59	1.74	2.24	1.66	2.46	1.63	1.10	3.06	2.13	1.66	1.55	23.08
1959	.91	.96	1.06	1.26	2.83	2.57	2.85	2.86	4.44	2.40	1.72	2.70	26.56
1960	3.61	1.70	1.80	2.39	2.33	2.29	4.68	2.36	1.24	1.51	1.63	2.21	27.75

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	740	25.49
1951	1204	7,150	Mar. 21, 1951	264	600	1.52	20.67	586	20.21	
1952	1234	3,250	Feb. 17, 1952	248	552	1.40	19.09	539	18.62	
1953	1274	2,730	July 17, 1953	249	579	1.47	19.96	731	25.18	
1954	1334	11,100	Dec. 6, 1953	209	550	1.40	18.97	372	12.84	
1955	1384	39,000	Apr. 15, 1955	219	554	1.41	19.10	559	19.25	
1956	1434	4,440	Sept. 25, 1956	218	496	1.26	17.13	532	18.37	
1957	1504	9,440	Apr. 7, 1957	232	637	1.62	21.95	693	23.86	
1958	1554	4,880	June 22, 1958	284	670	1.70	23.08	593	20.42	
1959	1624	4,090	May 23, 1959	275	771	1.96	26.56	892	30.74	
1960	1704	7,940	Apr. 4, 1960	320	803	2.04	27.75	-	-	

3767. Jacks Branch near Muscogee, Fla.

Location.--Lat 30°38'13", long 87°23'10", in N $\frac{1}{2}$ sec.6, T.1 N., R.31 W., near left bank on downstream side of county road bridge, 1 mile upstream from mouth and 2.3 miles north of Muscogee, Escambia County.

Drainage area.--23.2 sq mi.

Records available.--January 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 25.14 ft above mean sea level, datum of 1929.

Extremes.--1958-60: Maximum discharge, 4,230 cfs Sept. 16, 1960 (gage height, 12.44 ft); minimum, 3.1 cfs June 16, 17, 1960; minimum gage height, 2.06 ft May 18, 1959.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	27.1	20.5	53.7	15.3	7.04	20.5	44.4	15.3	17.7	-
1959	7.69	7.02	7.99	11.0	22.7	21.8	28.6	9.69	41.2	16.1	8.98	32.6	17.8
1960	82.2	21.0	14.1	28.5	29.9	31.8	104	15.3	5.67	5.34	9.97	60.6	33.9

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	1.35	0.92	2.67	0.73	0.35	0.98	2.21	0.76	0.85	-
1959	0.38	0.34	0.40	.54	1.02	1.08	1.37	.48	1.98	.80	.45	1.57	10.41
1960	4.08	1.01	.70	1.42	1.39	1.58	5.02	.76	.27	.27	.50	2.91	19.91

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1958	1704	a814	Mar. 9, 1958	b4.8	-	-	-	20.4	11.84
1959	1704	500	Sept. 13, 1959	4.0	17.8	0.767	10.41	25.6	15.06
1960	1704	4,230	Sept. 16, 1960	3.2	33.9	1.46	19.91	-	-

a Maximum during period January to September.

b Minimum daily during period January to September.

3775. Styx River near Loxley, Ala.

Location.--Lat 30°39'50", long 87°38'20", in S½ 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.--93.2 sq mi.

Records available.--October 1951 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 39 ft (by barometer).

Average discharge.--9 years (1951-60), 170 cfs.

Extremes.--1951-60: Maximum discharge, 14,000 cfs Dec. 6, 1953 (gage height, 19.73 ft), from rating curve extended above 5,600 cfs on basis of slope-area measurement of peak flow; minimum, 16 cfs June 22, 1955.

Flood in September 1926 reached a stage of 22.2 ft, from information by Corps of Engineers.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	43.1	106	135	75.5	246	161	202	183	55.7	48.1	93.5	289	136
1953	36.6	47.3	169	183	257	207	296	112	122	239	171	93.4	160
1954	42.5	153	718	154	100	126	65.8	42.7	41.4	50.6	25.8	26.6	130
1955	27.3	36.9	52.4	92.1	163	56.8	204	55.9	24.2	109	171	43.9	85.9
1956	41.1	26.9	46.8	84.8	259	306	67.8	44.9	82.3	178	148	246	127
1957	189	54.9	116	74.6	82.2	180	548	258	116	55.7	87.9	353	176
1958	101	287	136	238	175	340	150	88.9	343	392	222	244	227
1959	80.2	128	109	149	353	241	268	317	438	368	227	357	252
1960	488	141	168	225	262	219	427	206	71.0	75.9	334	241	238

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.53	1.27	1.67	0.93	2.84	2.00	2.42	2.27	0.67	0.59	1.16	3.46	19.81
1953	.45	.57	2.10	2.26	2.87	2.55	3.54	1.38	1.45	2.96	2.12	1.12	23.37
1954	.53	1.85	8.88	1.91	1.12	1.55	.79	.53	.50	.63	.32	.32	18.91
1955	.34	.44	.65	1.14	1.82	.70	2.45	.69	.29	1.35	2.12	.53	12.52
1956	.51	.32	.58	1.05	2.99	3.79	.81	.56	.99	2.20	1.83	2.94	18.57
1957	2.33	.66	1.43	.92	.92	2.22	6.56	3.19	1.39	.69	1.09	4.22	25.62
1958	1.24	3.44	1.68	2.94	1.99	4.20	1.80	1.10	4.11	4.84	2.75	2.92	33.01
1959	1.99	1.53	1.35	1.84	3.94	2.98	3.21	3.93	5.24	4.56	2.81	4.28	36.66
1960	6.04	1.69	2.08	2.79	3.03	2.71	5.12	2.55	.85	.94	4.13	2.88	34.81

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234	1,730	Sept. 19, 1951	28	136	1.46	19.81	135	19.46
1953	1274	1,790	Apr. 12, 1953	31	160	1.72	23.37	216	31.49
1954	1334	14,000	Dec. 6, 1953	19	130	1.39	18.91	62.4	9.10
1955	1384	2,520	Apr. 14, 1955	16	85.9	.922	12.52	85.9	12.52
1956	1434	1,900	Mar. 12, 1956	20	127	1.36	18.57	148	21.58
1957	1504	7,450	Apr. 5, 1957	23	176	1.89	25.62	189	27.56
1958	1554	1,920	Mar. 6, 1958	49	227	2.44	33.01	210	30.52
1959	1624	3,110	Sept. 13, 1958	52	252	2.70	36.66	293	42.60
1960	1704	3,780	Apr. 4, 1960	38	238	2.55	34.81	-	-

3785. 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, $2\frac{1}{2}$ miles west of Silver Hill, and 12 miles upstream from mouth.

Drainage area.--55.1 sq mi.

Records available.--July 1953 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 20 ft (from topographic map).

Average discharge.--7 years (1953-60), 113 cfs.

Extremes.--1953-60: Maximum discharge, 8,570 cfs Dec. 6, 1953 (gage height, 17.04 ft); minimum, 37 cfs June 20, 21, 1955.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	141	92.2	84.8	-
1954	65.2	107	389	110	90.2	92.0	71.1	60.9	58.7	64.1	47.1	54.5	101
1955	53.6	56.1	60.0	65.7	86.6	55.6	75.4	52.5	41.5	76.9	101	31.5	64.6
1956	49.1	46.5	52.4	62.6	94.8	130	62.3	66.4	80.1	85.0	87.9	135	79.2
1957	110	68.9	86.2	73.5	73.6	103	304	108	93.0	67.3	80.9	194	113
1958	83.9	129	89.1	126	103	219	105	92.4	185	220	131	158	137
1959	96.1	110	92.8	98.6	137	115	137	177	217	168	123	227	141
1960	241	123	123	131	137	144	219	124	95.0	92.8	225	167	152

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	2.95	1.93	1.72	-
1954	1.32	2.18	8.13	2.30	1.70	1.92	1.44	1.27	1.19	1.34	.99	1.10	24.88
1955	1.12	1.14	1.25	1.37	1.64	1.16	1.53	1.10	.84	1.61	2.11	1.04	15.91
1956	1.03	.94	1.10	1.31	1.86	2.71	1.26	1.39	1.62	1.78	1.84	2.74	19.58
1957	2.30	1.40	1.80	1.54	1.39	2.15	6.18	2.25	1.88	1.41	1.69	3.92	27.89
1958	1.76	2.61	1.86	2.64	1.94	4.58	2.12	1.93	3.74	4.60	2.75	3.21	33.74
1959	2.01	2.23	1.94	2.06	2.59	2.40	2.77	3.70	4.39	3.52	2.57	4.60	34.78
1960	5.04	2.49	2.56	2.74	2.68	3.02	4.44	2.58	1.92	1.94	4.71	3.39	37.51

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-
1953	1334	a870	July 17, 1953	b58	-	-	-	-	-	-
1954	1334	8,570	Dec. 6, 1953	42	101	1.83	24.88	68.1	16.76	
1955	1384	443	Aug. 2, 1955	37	64.6	1.17	15.91	62.8	15.47	
1956	1434	1,090	Mar. 12, 1956	40	79.2	1.44	19.58	89.1	22.01	
1957	1504	5,080	Apr. 5, 1957	44	113	2.05	27.89	116	28.62	
1958	1554	1,620	Mar. 7, 1958	67	137	2.49	33.74	137	33.69	
1959	1624	1,970	Sept. 13, 1959	70	141	2.58	34.78	157	36.69	
1960	1704	1,520	Apr. 3, 1960	74	152	2.76	37.51	-	-	

a Maximum during period July to September.

b Minimum daily during period July to September.

3795. Cartecay River near Ellijay, Ga.

Location--Lat 34°41', long 84°27', on right bank adjacent to State Highway 52, 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 1960.

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 bench mark). Prior to Dec. 19, 1938, staff gage at same site and datum.

Average discharge--23 years (1937-60), 266 cfs.

Extremes--1937-60: Maximum discharge, 20,000 cfs Apr. 8, 1938 (gage height, 13.0 ft, from floodmark), from rating curve extended above 3,900 cfs (corrected) on basis of slope-area measurement of peak flow; minimum daily, 64 cfs Oct. 26, 1941.

Remarks--Some diurnal fluctuations caused by gristmills above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	160	139	192	183	208	563	552	326	282	222	133	158	260
1952	118	199	446	392	370	729	484	344	305	172	190	173	327
1953	118	138	217	370	505	420	299	337	188	201	121	145	254
1954	109	109	272	666	319	367	370	269	210	144	128	87.2	254
1955	76.8	97.2	161	182	388	365	366	350	207	242	197	122	229
1956	143	156	154	137	525	435	602	397	241	225	147	139	274
1957	127	114	251	296	582	370	713	341	356	220	138	150	301
1958	179	522	584	301	380	371	406	407	244	586	209	167	313
1959	150	148	140	205	280	266	548	275	276	180	141	126	209
1960	192	180	211	255	369	406	376	245	194	163	153	146	240

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.37	1.15	1.64	1.57	1.60	4.81	4.56	2.78	2.33	1.89	1.14	1.30	26.14
1952	1.01	1.64	5.80	3.36	2.96	6.23	4.00	2.94	2.52	1.46	1.63	1.43	32.98
1953	1.01	1.14	1.86	3.16	3.90	3.58	2.47	2.88	1.55	1.72	1.03	1.19	25.49
1954	.93	.90	2.32	5.68	2.46	3.14	3.06	2.29	1.74	1.23	1.09	.72	25.56
1955	.66	.80	1.37	1.56	2.99	3.11	3.02	2.99	1.71	2.06	1.68	1.01	22.96
1956	1.22	1.29	1.31	1.16	4.20	3.71	4.98	3.39	2.00	1.92	1.26	1.15	27.59
1957	1.08	.94	2.14	2.52	4.49	3.16	5.89	2.92	2.78	1.88	1.18	1.24	30.22
1958	1.53	2.67	3.27	2.57	2.93	3.17	3.36	3.47	2.02	3.30	1.79	1.38	31.46
1959	1.28	1.23	1.20	1.75	2.01	2.27	2.88	2.33	2.28	1.53	1.20	1.04	21.00
1960	1.64	1.48	1.80	2.18	2.94	3.47	3.11	2.09	1.61	1.40	1.30	1.20	24.22

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	292	29.31
1951	1204	12,000	Mar. 29, 1951	97	260	1.93	26.14	283	28.43
1952	1234	4,860	Mar. 11, 1952	97	327	2.42	32.98	302	30.54
1953	1274	2,940	Feb. 21, 1953	83	254	1.88	25.49	255	25.63
1954	1334	10,000	Jan. 16, 1954	75	254	1.88	25.56	247	24.24
1955	1384	4,860	Mar. 22, 1955	70	229	1.70	22.96	238	23.95
1956	1434	3,880	Apr. 15, 1956	104	274	2.03	27.59	277	27.93
1957	1504	5,940	Apr. 4, 1957	93	301	2.23	30.22	334	33.53
1958	1554	2,280	Dec. 20, 1957	127	313	2.32	31.46	275	27.70
1959	1624	1,780	Jan. 21, 1959	98	209	1.55	21.00	221	22.21
1960	1704	1,140	Mar. 3, 1960	93	240	1.78	24.22	-	-

3800. Ellijay River at Ellijay, Ga.

Location.--Lat 34°42', long 84°29', on left bank at downstream side of bridge on State Highway 5 at Ellijay, Gilmer County, 1 mile upstream from confluence with Cartecay River.

Drainage area.--90 sq mi, approximately.

Records available.--April to December 1907, December 1918 to June 1921, February 1953 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 1,242.32 ft above mean sea level, datum of 1929, supplementary adjustment of 1936. May 4 to Dec. 31, 1907, and Dec. 10, 1918, to Apr. 4, 1919, staff gage and Apr. 5, 1919, to June 30, 1921, chain gage, at site 1,000 ft downstream at datum 1.44 ft lower. Feb. 26 to July 8, 1953, wire-weight gage at present site and datum.

Average discharge.--8 years (1920, 1953-60), 205 cfs.

Extremes.--1953-60: Maximum gage height, 16.3 ft Jan. 16, 1954 (discharge not determined); minimum discharge, 27 cfs Sept. 30, 1954 (gage height, 2.23 ft).

Revisions.--The maximum discharges for the water years 1954-60, published in water-supply papers, are subject to error, owing to absence of sufficient information to make corrections for backwater from Cartecay River, and should not be used.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	292	215	238	115	113	60.5	57.5	-
1954	40.4	45.3	165	544	199	280	266	183	136	77.0	75.5	35.5	171
1955	36.9	57.0	145	125	335	288	272	208	124	115	96.9	52.2	153
1956	78.2	101	98.6	79.7	545	366	450	263	137	108	55.8	62.3	193
1957	55.5	56.6	189	247	597	253	447	187	234	158	85.5	107	215
1958	110	301	311	216	346	267	292	326	160	235	133	107	233
1959	93.4	97.3	106	194	239	223	336	248	250	125	99.4	96.9	175
1960	144	182	187	228	296	374	243	160	114	91.2	133	86.7	186

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	3.74	2.67	3.04	1.43	1.45	0.77	0.71	-
1954	0.52	0.56	2.11	6.96	2.30	3.58	3.30	2.34	1.71	.99	.97	.44	25.78
1955	.47	.71	1.86	1.60	3.85	3.69	3.37	2.66	1.54	1.48	1.24	.65	23.12
1956	1.00	1.25	1.27	1.02	6.54	4.69	5.58	3.37	1.70	1.38	.71	.77	29.28
1957	.71	.70	2.42	3.16	6.90	3.24	5.54	2.40	2.90	2.03	1.10	1.33	32.43
1958	1.41	3.73	3.99	2.77	4.00	3.42	3.62	4.17	1.99	3.01	1.71	1.33	35.15
1959	1.20	1.20	1.38	2.49	2.77	2.86	4.16	3.18	3.10	1.60	1.27	1.20	26.39
1960	1.84	2.25	2.40	2.92	3.55	4.80	3.01	2.05	1.42	1.16	1.71	1.07	28.18

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	1384	-	-	-	-	-	-	-	-
1954	1384	-	Jan. 16, 1954	28	171	1.90	25.78	170	25.63
1955	1384	-	Feb. 6, 1955	30	153	1.70	23.12	156	23.60
1956	1434	-	Apr. 16, 1956	39	193	2.14	29.28	196	29.59
1957	1504	-	Feb. 1, 1957	41	215	2.59	32.43	250	37.73
1958	1554	-	Nov. 18, 1957	65	253	2.59	35.15	197	29.78
1959	1624	-	May 31, 1959	68	175	1.94	26.39	193	29.12
1960	1704	-	Mar. 5, 1960	51	186	2.07	28.18	-	-

Note.--Maximum discharges for water years 1954-60, published in some water-supply papers, are subject to error, owing to insufficient information to make corrections for backwater from Cartecay River; those figures are not published herein and should not be used.

3820. Scarecorn Creek at Hinton, Ga.

Location.--Lat 34°29', long 84°36', on left bank 100 ft upstream from bridge on State Highway 53, a quarter of a mile west of Hinton, Pickens County, 1 mile upstream from Dean's Mill, and 5 miles upstream from mouth.

Drainage area.--21.1 sq mi.

Records available.--April 1939 to December 1942, May 1959 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 1,060 ft (from topographic map). April 1939 to December 1942, at datum 1.0 ft higher.

Extremes.--1939-42, 1959-60: Maximum gage height, 11.2 ft (present datum) Feb. 16, 1942 (discharge not determined); minimum discharge, 1.2 cfs Aug. 11, 1959.

Remarks.--Records for 1959-60 not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	15.8	13.1	6.42	4.49	3.91	-
1960	8.05	9.39	14.0	22.9	30.4	35.7	24.6	14.4	8.78	5.81	6.13	11.8	16.0

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	0.86	0.89	0.35	0.25	0.21	-
1960	0.44	0.50	0.77	1.26	1.55	1.95	1.30	.79	.46	.32	.34	.62	10.30

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	-	-	-	-	-	-	-	-	-
1960	-	740	Sept. 27, 1960	2.0	16.0	0.758	10.30	-	-

Note.--Not previously published.

3830. 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 1960. 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.

Average discharge.--9 years (1951-60), 6.05 cfs.

Extremes.--1952-60: Maximum discharge, 820 cfs Jan. 16, 1954 (gage height, 4.18 ft), from rating curve extended above 350 cfs; minimum, 0.10 cfs Sept. 7, 8, 1957.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	1.54	3.26	18.4	14.8	9.60	31.7	8.40	4.67	2.97	2.03	2.23	1.85	8.48
1953	1.14	1.88	3.98	11.2	15.6	12.0	5.44	9.00	2.16	2.76	1.31	5.46	5.94
1954	1.72	1.79	9.78	26.6	8.12	15.1	12.7	5.76	5.55	2.27	1.55	.928	7.69
1955	.963	1.26	2.26	4.46	16.4	16.3	15.6	5.92	2.81	6.33	1.83	1.54	6.24
1956	1.80	3.28	2.00	2.15	18.2	11.9	17.1	4.68	2.01	2.41	1.11	.849	5.56
1957	1.57	1.44	5.70	12.0	17.8	7.49	18.4	3.71	2.09	1.06	.825	.984	6.00
1958	1.23	4.65	8.52	4.75	7.90	12.1	11.6	6.70	2.00	3.03	3.23	3.46	5.75
1959	2.04	1.57	1.52	3.01	9.35	7.95	9.37	4.94	3.30	1.89	1.14	.950	3.88
1960	1.19	1.75	2.54	7.51	10.8	18.6	7.93	2.81	2.26	1.09	.885	1.29	4.88

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.32	0.65	3.78	3.04	1.84	6.51	1.67	0.96	0.57	0.42	0.46	0.37	20.59
1953	.23	.37	.82	2.31	2.90	2.47	1.08	1.84	.43	.57	.27	1.09	14.38
1954	.35	.36	2.01	5.51	1.51	3.10	2.52	1.19	1.10	.47	.32	.18	18.62
1955	.20	.25	.46	.92	3.04	3.36	3.10	1.22	.56	1.30	.38	.31	15.10
1956	.37	.65	.41	.44	3.49	2.44	3.40	.96	.40	.50	.23	.17	13.46
1957	.32	.29	1.18	2.47	3.30	1.54	3.66	.76	.42	.22	.17	.20	14.53
1958	.25	.92	1.75	.98	1.47	2.49	2.31	1.37	.40	.62	.66	.69	13.91
1959	.42	.31	.31	.62	1.74	1.64	1.86	1.02	.66	.39	.23	.19	9.39
1960	.24	.35	.52	1.54	2.08	3.83	1.57	.58	.45	.22	.18	.26	11.82

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234, 1274	735	Mar. 22, 1952	1.0	8.48	1.51	20.59	7.12	17.26
1953	1274	313	Sept. 25, 1953	.9	5.94	1.06	14.38	6.48	15.68
1954	1334	820	Jan. 16, 1954	.78	7.69	1.37	18.62	6.95	16.81
1955	1384	745	Mar. 22, 1955	.78	6.24	1.11	15.10	6.45	15.62
1956	1434	249	Apr. 16, 1956	.54	5.56	.991	13.46	5.70	13.82
1957	1504	454	Apr. 5, 1957	.21	6.00	1.07	14.55	6.47	15.66
1958	1554	175	Sept. 21, 1958	.60	5.75	1.02	13.91	4.97	12.03
1959	1624	155	May 20, 1959	.54	3.88	.692	9.39	3.90	9.46
1960	1704	132	Apr. 3, 1960	.42	4.88	.870	11.82	-	-

3835. Coosawattee 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.--October 1938 to September 1960. Monthly discharge only for October 1938, published in WSP 1304.

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.--22 years (1938-60), 1,390 cfs.

Extremes.--1938-60: 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 (discharge, 34,000 cfs).

Remarks.--Moderate diurnal fluctuation at low flow caused by mills above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	760	661	878	1,098	1,564	3,796	3,459	1,215	982	1,169	581	772	1,409
1952	515	1,142	3,274	2,481	2,096	4,435	2,038	1,344	1,263	576	801	†640	1,720
1953	409	557	1,110	2,456	3,169	2,152	1,371	2,084	781	924	450	611	1,330
1954	400	415	1,481	4,475	1,456	2,262	2,095	1,405	947	599	521	276	1,365
1955	246	362	905	1,097	2,719	2,148	2,188	1,522	825	874	587	344	1,141
1956	527	676	606	541	3,569	2,285	3,269	1,796	877	837	458	437	1,311
1957	396	402	1,293	1,597	4,080	1,857	3,764	1,350	1,225	778	439	601	1,460
1958	734	1,912	2,089	1,328	2,098	2,068	2,225	2,206	919	1,486	873	678	1,548
1959	567	572	653	1,201	1,734	1,605	2,111	1,335	1,345	807	536	502	1,075
1960	799	1,173	1,283	1,661	2,321	2,831	1,857	1,113	753	568	703	642	1,305

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.02	0.86	1.18	1.48	1.91	5.11	4.51	1.64	1.28	1.58	0.78	1.01	22.36
1952	.69	1.48	4.40	3.34	2.64	5.97	2.66	1.81	1.65	.78	1.08	.83	27.33
1953	.55	.73	1.50	3.31	3.85	2.89	1.78	2.80	1.02	1.24	.61	.80	21.08
1954	.54	.54	1.99	6.03	1.77	3.04	2.73	1.89	1.24	.61	.70	.36	21.64
1955	.33	.47	1.22	1.48	3.31	2.89	2.86	2.05	1.08	1.18	.79	.45	18.11
1956	.71	.88	.82	.73	4.50	3.08	4.26	2.42	1.14	1.13	.62	.57	20.86
1957	.53	.52	1.74	2.16	4.97	2.50	4.91	1.82	1.60	1.05	.59	.78	23.17
1958	.99	2.49	2.81	1.79	2.55	2.79	2.90	2.97	1.19	2.01	1.18	.88	24.55
1959	.76	.75	.88	1.61	2.11	2.16	2.76	1.80	1.75	1.09	.72	.65	17.04
1960	1.08	1.53	1.73	2.24	2.92	3.82	2.42	1.50	.98	.77	.95	.84	20.78

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,592	25.22
1951	1204	40,200	Mar. 30, 1951	334	1,409	1.65	22.36	1,631	25.87
1952	1234	12,300	Mar. 12, 1952	396	1,720	2.01	27.33	1,480	23.54
1953	1274	9,310	Jan. 10, 1953	295	1,330	1.55	21.08	1,349	21.37
1954	1334	35,200	Jan. 17, 1954	245	1,365	1.59	21.64	1,299	20.59
1955	1394	13,800	Feb. 8, 1955	222	1,141	1.33	18.11	1,165	18.50
1956	1434	10,800	Apr. 17, 1956	287	1,311	1.53	20.86	1,336	21.24
1957	1504	24,600	Apr. 6, 1957	270	1,460	1.71	23.17	1,681	26.67
1958	1554	7,980	Nov. 19, 1957	420	1,548	1.81	24.55	1,302	20.65
1959	1624	7,100	Feb. 14, 1959	368	1,075	1.26	17.04	1,197	18.99
1960	1704	9,840	Mar. 4, 1960	320	1,305	1.52	20.78	-	-

3858. Holly Creek near Chatsworth, Ga.

Location.--Lat 34°43'00", long 84°46'10", on right bank 100 ft upstream from bridge on county road, 3 miles upstream from Rock Creek, and 3.3 miles south of Chatsworth, Murray County.

Drainage area.--64.9 sq mi.

Records available.--June to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 690 ft (from topographic map).

Extremes.--June to September 1960: Maximum discharge, 714 cfs Aug. 12, 1960 (gage height, 7.94 ft); minimum, 5.7 cfs Aug. 2, 1960.

Remarks.--Records not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	28.1	18.1	55.1	38.9	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	-	0.48	0.32	0.98	0.67	-

3870. 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, Whitfield County, and 12 miles upstream from confluence with Coosawattee River.

Drainage area.--682 sq mi.

Records available.--June 1937 to September 1960.

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.--23 years (1937-60), 1,145 cfs.

Extremes.--1937-60: Maximum discharge, 29,000 cfs Mar. 30, 1951; maximum gage height, 30.2 ft Mar. 30, 1951 (backwater from Coosawattee River); minimum discharge, 68 cfs Oct. 24, 25, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	349	384	986	1,016	2,219	3,853	3,400	575	446	354	362	349	1,181
1952	201	1,057	3,337	2,655	1,573	3,855	1,099	571	536	203	338	228	1,309
1953	133	257	702	2,728	3,683	1,652	879	1,823	300	496	177	202	1,070
1954	158	157	661	4,296	886	2,323	1,790	776	430	200	353	84.3	1,013
1955	82.8	123	916	848	2,662	1,670	2,017	1,130	432	462	241	114	861
1956	169	402	461	419	5,319	2,343	2,637	1,079	291	302	202	207	1,133
1957	127	182	1,072	1,173	5,245	1,703	1,859	510	1,007	391	171	1,175	1,185
1958	972	4,022	2,401	1,625	2,357	1,612	2,159	2,481	324	1,158	340	323	1,641
1959	209	213	290	1,456	1,250	1,262	2,395	899	1,009	526	252	359	837
1960	470	1,351	1,566	1,600	2,299	2,618	1,150	636	287	191	539	362	1,104

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.59	0.63	1.64	1.72	3.38	6.51	5.57	0.97	0.73	0.60	0.61	0.57	23.52
1952	.34	1.73	5.64	4.48	2.49	6.51	1.80	.96	.88	.34	.57	.37	26.11
1953	.22	.39	1.19	4.61	5.62	2.79	1.44	3.08	.49	.84	.30	.33	21.30
1954	.23	.26	1.12	7.26	1.35	3.93	2.92	1.31	.70	.34	.60	.14	20.16
1955	.14	.20	1.54	1.43	4.06	2.82	3.30	1.91	.71	.82	.41	.19	17.53
1956	.29	.66	.78	.71	8.41	3.97	4.32	1.82	.48	.51	.34	.54	22.63
1957	.21	.30	1.81	1.98	8.01	2.88	3.01	.86	1.65	.66	.29	1.92	23.58
1958	1.65	6.58	4.06	2.74	3.60	2.72	3.54	4.20	.53	1.96	.58	.53	32.69
1959	.35	.35	.49	2.46	1.91	2.13	3.92	1.52	1.65	.89	.43	.55	16.65
1960	.79	2.21	2.65	2.71	3.64	4.76	1.89	1.08	.47	.32	.91	.62	22.05

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,446	28.77
1951	1204	29,000	Mar. 30, 1951	148	1,181	1.73	23.52	1,425	28.37
1952	1254	11,000	Mar. 13, 1952	132	1,309	1.92	26.11	1,013	20.20
1953	1274	10,800	Feb. 24, 1953	112	1,070	1.57	21.30	1,061	21.11
1954	1354	19,100	Jan. 18, 1954	71	1,013	1.49	20.16	1,027	20.43
1955	1384	8,970	Feb. 9, 1955	68	881	1.29	17.53	873	17.58
1956	1434	11,600	Feb. 6, 1956	103	1,133	1.66	22.63	1,163	23.22
1957	1504	25,000	Feb. 3, 1957	97	1,185	1.74	23.58	1,685	33.55
1958	1554	17,500	Nov. 20, 1957	150	1,641	2.41	32.69	1,084	21.59
1959	1624	9,530	Apr. 22, 1959	150	837	1.23	16.65	1,061	21.11
1960	1704	12,100	Mar. 5, 1960	112	1,104	1.62	22.05	-	-

3875. 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 Coosawattee Rivers.

Drainage area.--1,610 sq mi, approximately.

Records available.--October 1892 to September 1960. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1892 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 at bridge on State Highway 143, 6½ miles downstream.

Average discharge.--68 years (1892-1960), 2,743 cfs.

Extremes.--1893-1960: 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 since at least 1834, 36.6 ft Apr. 1, 1886, from information by Georgia Department of Archives (discharge, 68,600 cfs).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,168	1,036	1,932	2,221	3,764	7,085	8,133	1,653	1,559	1,648	943	1,153	2,696
1952	708	2,187	6,756	5,218	3,879	8,875	5,224	1,928	1,899	746	1,094	855	3,087
1953	554	790	1,773	5,178	6,974	3,849	2,193	3,937	1,083	1,416	638	820	2,410
1954	523	536	2,072	9,055	2,372	4,619	3,824	2,183	1,413	824	865	384	2,407
1955	344	487	1,781	2,058	5,699	3,906	4,266	2,673	1,283	1,320	787	450	2,063
1956	641	1,076	1,082	958	9,270	4,738	6,188	2,899	1,158	1,135	674	642	2,504
1957	548	612	2,247	2,678	9,627	3,616	6,125	1,820	2,013	1,086	566	1,691	2,664
1958	1,656	5,975	4,597	2,961	4,409	3,686	4,144	5,040	1,198	2,521	1,213	1,019	3,194
1959	618	614	985	2,711	3,078	2,920	4,593	2,158	2,300	1,278	760	826	1,925
1960	1,194	2,414	2,844	3,221	4,755	5,618	3,008	1,624	996	746	1,200	1,000	2,395

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.84	0.72	1.38	1.59	2.44	5.07	5.63	1.33	1.08	1.18	0.68	0.80	22.74
1952	.51	1.51	4.84	3.74	2.60	6.21	2.23	1.38	1.18	.53	.78	.59	26.10
1953	.40	.55	1.27	3.71	4.51	2.76	1.53	2.82	.75	1.01	.46	.57	20.34
1954	.37	.37	1.49	6.48	1.53	3.31	2.72	1.57	.98	.59	.62	.27	20.30
1955	.25	.34	1.28	1.48	3.69	2.80	2.96	1.91	.89	.95	.56	.31	17.42
1956	.46	.75	.77	.69	6.21	3.39	4.28	2.08	.80	.81	.48	.45	21.17
1957	.39	.42	1.61	1.91	6.23	2.59	4.24	1.30	1.40	.78	.41	1.17	22.45
1958	1.19	4.14	3.30	2.12	2.85	2.65	2.87	3.61	.83	1.81	.87	.71	26.95
1959	.59	.56	.71	1.94	1.99	2.09	3.18	1.54	1.60	.92	.54	.57	16.23
1960	.86	1.67	2.04	2.31	3.18	4.16	2.09	1.16	.69	.53	.86	.69	20.24

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	3,126	26.35
1951	1204	54,800	Mar. 31, 1951	505	2,696	1.67	22.74	3,160	26.66
1952	1234	20,100	Mar. 25, 1952	540	3,087	1.92	26.10	2,539	21.46
1953	1274	15,600	Feb. 23, 1953	455	2,410	1.50	20.34	2,412	20.35
1954	1334	30,700	Jan. 18, 1954	331	2,407	1.50	20.30	2,363	19.94
1955	1384	19,100	Feb. 9, 1955	300	2,063	1.28	17.42	2,077	17.55
1956	1434	18,200	Apr. 18, 1956	415	2,504	1.56	21.17	2,557	21.61
1957	1504	32,800	Feb. 4, 1957	370	2,664	1.65	22.45	3,398	28.66
1958	1554	20,000	Nov. 21, 1957	610	3,194	1.98	26.95	2,392	20.18
1959	1624	12,100	Apr. 20, 1959	505	1,925	1.20	16.23	2,247	18.94
1960	1704	17,000	Mar. 5, 1960	460	2,395	1.49	20.24	-	-

3880. West Armuchee Creek near Subligna, Ga.

Location.--Lat 34°34', long 85°10', on left bank 500 ft downstream from bridge on county road, 1 mile upstream from Ruff Creek, and 2 miles east of Subligna, Chattooga County.

Drainage area.--34.5 sq mi.

Records available.--April 1939 to June 1940, May to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 750 ft (from topographic map).

Extremes.--1939-40, 1960: Maximum discharge, 1,110 cfs June 24, 1960 (gage height, 6.36 ft); minimum, 3.1 cfs Aug. 29, 1939.
Flood of Mar. 29, 1951, reached a stage of 12.1 ft, from floodmarks.

Remarks.--Some diurnal fluctuation during low flow caused by mills above station. Records for 1960 not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	24.5	21.3	11.9	11.7	14.5	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	-	-	-	-	-	-	-	0.82	0.69	0.40	0.39	0.47	-

Note.--Not previously published.

3885. Oostanaula River near Rome, Ga.

Location.--Lat 34°18', long 85°08', on left bank 1½ miles upstream from Dry Creek, 4½ miles north of Rome, Floyd County, 4½ miles upstream from confluence with Etowah River, and 6½ miles downstream from Armuchee Creek.

Drainage area.--2,120 sq mi, approximately. At site at Rome used October to November 1950, 2,150 sq mi, approximately.

Records available.--October 1939 to September 1960. Gage-height records collected at site 4½ 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. Oct. 1, 1939, to Dec. 7, 1950, water-stage recorder, at site 3½ miles downstream at same datum. Since Oct. 1, 1939, auxiliary water-stage recorder at Fifth Avenue Bridge 4½ 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.--21 years (1939-60), 3,403 cfs.

Extremes.--1939-60: Maximum discharge, 47,000 cfs Jan. 23, 1947; maximum gage height, 35.13 ft Jan. 22, 1947; minimum daily discharge, 408 cfs Oct. 25, 1954.

Maximum stage known since at least 1834, 40.3 ft in April 1886, at site of present auxiliary gage, from information by Georgia Department of Archives.

Correction.--In WSP 1304, the momentary maximum discharge for water year 1946 is listed in error, it should be 45,500 cfs.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,625	1,421	2,425	3,083	5,125	8,110	13,620	2,179	1,688	1,970	1,154	1,382	3,626
1952	858	3,036	9,916	7,233	5,272	11,510	3,832	2,233	2,041	935	1,318	1,110	4,119
1953	702	1,016	2,479	7,512	9,542	5,736	2,797	5,405	1,283	1,898	789	935	3,310
1954	638	687	2,706	11,940	2,994	6,244	5,210	2,901	2,007	1,013	1,039	530	3,172
1955	531	637	2,090	3,025	8,049	5,103	6,653	3,512	1,593	1,521	983	579	2,819
1956	834	1,395	1,319	1,156	11,430	6,636	8,509	3,450	1,350	1,400	904	820	3,225
1957	712	737	2,713	3,527	12,660	5,085	7,964	2,245	2,352	1,372	721	1,961	3,432
1958	2,338	7,463	5,951	4,063	5,496	5,446	5,506	6,237	1,445	2,954	1,461	1,201	4,123
1959	983	914	1,147	3,444	4,226	4,111	6,148	2,519	3,036	1,508	897	957	2,474
1960	1,364	3,035	3,732	4,483	6,767	8,121	4,322	2,017	1,148	881	1,332	1,122	3,183

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.87	0.74	1.31	1.67	2.52	4.42	7.18	1.19	0.89	1.07	0.63	0.73	23.20
1952	.47	1.60	5.40	5.93	2.68	6.26	2.02	1.21	1.07	.51	.72	.58	26.45
1953	.38	.53	1.35	4.08	4.69	3.12	1.47	2.94	.68	1.03	.43	.49	21.19
1954	.35	.36	1.48	6.49	1.47	3.40	2.74	1.58	1.06	.55	.56	.28	20.32
1955	.29	.33	1.14	1.65	3.96	2.78	3.50	1.91	.84	.83	.53	.30	18.06
1956	.45	.73	.72	.63	5.81	3.61	4.47	1.88	.71	.76	.49	.43	20.69
1957	.39	.39	1.48	1.91	6.22	2.77	4.20	1.22	1.24	.75	.39	1.03	21.99
1958	1.27	3.94	3.24	2.21	2.70	2.96	2.90	3.39	.76	1.60	.79	.63	26.39
1959	.53	.48	.62	1.87	2.07	2.24	3.24	1.37	1.60	.82	.49	.50	15.83
1960	.74	1.60	2.03	2.43	3.44	4.42	2.28	1.10	.60	.49	.72	.59	20.43

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	4,123	26.04
1951	1234	43,600	Apr. 2, 1951	633	3,628	1.71	23.20	4,330	27.75
1952	1234	23,900	Mar. 12, 1952	650	4,119	1.94	26.45	3,310	21.24
1953	1274	18,800	Feb. 22, 1953	520	3,310	1.56	21.19	3,298	21.12
1954	1334	28,900	Jan. 23, 1954	428	3,172	1.50	20.32	3,107	19.69
1955	1384	23,800	Feb. 7, 1955	408	2,819	1.33	18.06	2,842	18.20
1956	1434	20,600	Apr. 17, 1956	530	3,225	1.52	20.69	3,279	21.05
1957	1504	32,500	Feb. 6, 1957	442	3,432	1.62	21.99	4,399	28.18
1958	1554	21,500	Nov. 20, 1957	791	4,123	1.94	26.39	3,060	19.57
1959	1624	15,100	Apr. 21, 1959	629	2,474	1.17	15.83	2,900	18.57
1960	1704	18,600	Mar. 5, 1960	495	3,183	1.50	20.43	-	-

3890. 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, 7½ miles upstream from Shoal Creek.

Drainage area.--103 sq mi.

Records available.--March 1940 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 1,050 ft (by barometer).

Average discharge.--20 years (1940-60), 241 cfs.

Extremes.--1940-60: Maximum discharge, 4,780 cfs Jan. 7, 1946 (gage height, 15.8 ft); minimum daily, 50 cfs Oct. 22-28, 1954.

Remarks.--Diurnal fluctuation during periods of low flow caused by mills above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	157	132	161	150	183	355	392	233	196	128	88.3	104	190
1952	103	146	433	313	337	802	428	281	205	120	156	113	287
1953	91.9	128	173	367	391	356	250	273	160	171	103	117	214
1954	81.5	79.6	266	480	248	288	278	210	161	104	86.3	59.2	195
1955	53.5	79.2	158	160	417	239	296	270	171	174	123	76.0	183
1956	87.2	114	101	98.1	326	316	440	290	170	168	109	101	192
1957	95.3	99.5	212	246	422	294	508	263	205	149	95.3	102	223
1958	148	266	293	243	283	347	370	293	189	286	166	128	251
1959	119	113	127	208	277	285	333	257	254	157	128	147	200
1960	251	172	218	310	441	442	473	274	213	182	173	207	279

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.75	1.43	1.80	1.88	1.85	3.98	4.25	2.61	2.12	1.43	0.99	1.13	25.02
1952	1.15	1.58	4.84	3.50	3.53	8.98	4.64	3.15	2.22	1.35	1.74	1.23	37.91
1953	1.03	1.38	1.94	4.10	3.96	3.99	2.71	3.06	1.73	1.91	1.15	1.27	28.23
1954	.91	.86	2.97	5.37	2.51	3.23	3.01	2.35	1.74	1.16	.97	.64	25.72
1955	.60	.86	1.76	1.79	4.22	2.68	3.20	3.02	1.85	1.95	1.37	.82	24.12
1956	.98	1.24	1.13	1.10	3.42	3.54	4.76	3.25	1.84	1.88	1.22	1.09	25.45
1957	1.07	1.08	2.38	2.76	4.27	3.29	5.50	2.94	2.22	1.67	1.07	1.10	29.35
1958	1.66	2.88	3.27	2.72	2.86	3.68	4.00	3.27	2.04	3.20	1.86	1.38	33.02
1959	1.34	1.23	1.42	2.33	2.80	3.19	3.60	2.86	2.76	1.75	1.43	1.60	26.33
1960	2.81	1.86	2.44	3.47	4.62	4.95	5.12	3.07	2.31	2.04	1.94	2.24	36.87

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	244	32.08
1951	1204	2,120	Mar. 29, 1951	61	190	1.84	25.02	209	27.61
1952	1234	4,100	Mar. 11, 1952	74	287	2.79	37.91	262	34.69
1953	1274	2,120	Jan. 10, 1953	70	214	2.08	28.23	217	29.62
1954	1334	4,150	Jan. 16, 1954	52	195	1.69	25.72	184	24.20
1955	1384	4,010	Feb. 7, 1955	50	183	1.78	24.12	184	24.25
1956	1434	2,520	Apr. 16, 1956	69	192	1.86	25.45	201	26.63
1957	1504	3,000	Apr. 5, 1957	52	223	2.17	29.35	248	32.63
1958	1554	1,630	Dec. 20, 1957	100	251	2.44	33.02	222	29.20
1959	1624	2,290	Jan. 22, 1959	80	200	1.94	26.33	223	29.45
1960	1704	1,980	Sept. 26, 1960	87	279	2.71	36.87	-	-

3893. Shoal Creek near Dawsonville, Ga.

Location.--Lat 34°25'25", long 84°08'40", on left bank 350 ft upstream from bridge on State Highway 53, 650 ft upstream from Flat Creek, 1 mile west of Dawsonville, Dawson County, and 6½ miles upstream from mouth.

Drainage area.--20.5 sq mi.

Records available.--June 1958 to September 1960 and occasional low-flow measurements, 1952, 1954, 1956.

Gage.--Water-stage recorder. Altitude of gage is 1,250 ft (from topographic map).

Extremes.--1958-60: Maximum discharge, 1,540 cfs Jan. 21, 1959 (gage height, 5.78 ft), from rating curve extended above 1,100 cfs on basis of slope-area measurement at gage height 7.6 ft; minimum, 14 cfs Aug. 28, 1959.
A discharge of 13.2 cfs was measured on Oct. 13, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	35.0	54.0	30.3	25.9	-
1959	29.9	22.9	24.6	43.5	55.3	46.2	48.5	36.0	35.1	24.9	22.6	24.7	34.2
1960	38.5	28.0	36.4	48.1	57.2	68.3	70.1	44.6	39.4	30.3	31.5	45.0	44.7

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	1.91	3.03	1.71	1.41	-
1959	1.68	1.25	1.38	2.44	2.71	2.59	2.64	2.03	1.91	1.40	1.27	1.34	22.64
1960	2.17	1.53	2.05	2.71	3.01	3.84	3.82	2.51	2.14	1.71	1.78	2.46	29.73

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1958	1704	-	-	-	-	-	-	-	-	-	-
1959	1704	1,540	Jan. 21, 1959	16	34.2	1.67	22.64	36.3	24.08	-	-
1960	1704	1,450	Sept. 28, 1960	20	44.7	2.18	29.73	-	-	-	-

3900. Amicalola Creek near Dawsonville, Ga.

Location.--Lat 34°26', long 84°13', on left bank under bridge on State Highway 53, 5 miles upstream from mouth and 5½ miles west of Dawsonville, Dawson County.

Drainage area.--84.7 sq mi.

Records available.--April 1939 to May 1952. Monthly discharge only for April 1939, published in WSP 1304. Occasional low-flow measurements, water years 1953, 1955.

Gage.--Water-stage recorder. Datum of gage is 1,203.87 ft above mean sea level, datum of 1929, supplementary adjustment of 1936.

Average discharge.--12 years (1939-51), 215 cfs.

Extremes.--1939-52: Maximum discharge, 7,450 cfs Feb. 17, 1942 (gage height, 7.0 ft); minimum daily, 51 cfs Sept. 9, 1951.
A discharge of 50.3 cfs was measured on Oct. 20, 1954.

Remarks.--Moderate diurnal fluctuation at low flow caused by mills above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	133	106	143	131	170	331	352	217	184	130	80.2	97.5	173
1952	87.2	134	378	270	301	727	362	233	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.81	1.40	1.95	1.79	2.09	4.51	4.64	2.95	2.42	1.76	1.09	1.28	27.69
1952	1.19	1.76	5.14	3.68	3.83	9.89	4.76	3.17	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	-	214	34.26
1951	1204	2,380	Mar. 29, 1951	51	173	-	27.69	191	30.62	-	-
1952	1234	5,960	Mar. 11, 1952	-	-	2.04	-	-	-	-	-

3920. 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 1¼ miles downstream from Hickory Log Creek.

Drainage area.--605 sq mi.

Records available.--March 1892 to December 1905 (prior to 1895 and October to December 1905, gage heights only), October 1936 to September 1960. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1892 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 200 ft (corrected) 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.--33 years (1896-1905, 1936-60), 1,159 cfs.

Extremes.--1896-1905, 1936-60: 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 measurement of peak flow; minimum, 178 cfs Sept. 29, 30, 1954.

Maximum stage known since at least 1892, that of Jan. 7, 1946. Maximum discharge known, 36,700 cfs in January 1892 (gage height, 25 ft, present datum), from U.S. Weather Bureau. Flood of July 10, 1916, reached a stage of 25.9 ft (discharge, 36,100 cfs) and flood of Dec. 10, 1919, reached a stage of 26.3 ft (discharge, 36,100 cfs), from U.S. Weather Bureau.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	656	524	700	719	854	1,577	1,819	957	766	651	353	498	836
1952	372	612	2,018	1,408	1,494	4,256	1,957	1,277	977	563	708	484	1,347
1953	398	564	786	1,856	1,836	1,703	1,161	1,433	721	746	424	541	1,010
1954	374	431	1,258	2,480	1,174	1,413	1,537	1,043	742	478	436	230	967
1955	214	339	673	821	1,951	1,173	1,409	1,022	667	696	467	277	801
1956	322	439	415	425	1,419	1,509	1,892	1,384	673	726	472	487	844
1957	444	420	1,017	1,178	1,921	1,320	2,526	1,090	878	578	356	358	999
1958	565	1,189	1,367	1,098	1,344	1,755	1,802	1,397	619	1,163	774	571	1,154
1959	593	504	562	917	1,335	1,338	1,497	1,061	1,097	655	462	520	874
1960	637	607	609	1,301	1,782	1,755	1,923	1,052	749	599	598	772	1,062

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.24	0.97	1.34	1.37	1.47	3.01	3.36	1.82	1.42	1.24	0.67	0.90	16.81
1952	.71	1.13	3.85	2.69	2.66	8.10	3.60	2.43	1.80	1.07	1.35	.89	30.28
1953	.76	1.04	1.50	3.64	3.17	3.24	2.14	2.73	1.33	1.42	.81	1.00	22.68
1954	.71	.79	2.40	†4.73	2.02	2.70	2.83	1.98	1.37	.91	.83	.42	21.69
1955	.41	.62	1.28	1.57	3.35	2.24	2.60	1.95	1.23	1.33	.69	.51	17.96
1956	.61	.81	.79	.81	2.53	2.87	3.49	2.64	1.24	1.38	.90	.90	16.97
1957	.85	.77	1.94	2.25	3.31	2.51	4.66	2.08	1.62	1.10	.68	.66	22.43
1958	1.08	2.20	2.61	2.09	2.31	3.34	3.32	2.66	1.51	2.26	1.46	1.05	25.91
1959	1.13	.93	1.07	1.75	2.30	2.55	2.76	2.02	2.02	1.24	.88	.96	19.61
1960	1.59	1.12	1.54	2.48	3.18	3.34	3.55	2.01	1.38	1.14	1.14	1.43	23.90

† Corrected.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean
		Discharge	Date					Runoff in inches
1950	-	-	-	-	-	-	-	1,027
1951	1204	7,790	Mar. 30, 1951	230	838	1.39	18.81	933
1952	1234	19,500	Mar. 23, 1952	262	1,347	2.23	30.28	1,241
1953	1274	8,140	Jan. 10, 1953	300	1,010	1.67	22.68	1,038
1954	1334	15,500	Jan. 17, 1954	178	987	1.60	21.69	898
1955	1384	12,600	Feb. 7, 1955	167	801	1.32	17.98	797
1956	1434	7,500	Apr. 16, 1956	273	844	1.40	18.97	903
1957	1504	15,500	Apr. 5, 1957	222	999	1.65	22.43	1,102
1958	1554	5,440	Dec. 21, 1957	358	1,154	1.91	25.91	1,032
1959	1624	7,230	Feb. 14, 1959	364	874	1.44	19.61	924
1960	1704	6,320	Apr. 4, 1960	326	1,062	1.76	23.90	-

3925. 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.--January 1947 to September 1960. Monthly discharge only for some periods published in WSP 1304.

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.--13 years (1947-60), 70.0 cfs.

Extremes.--1947-60: Maximum discharge, 3,200 cfs Nov. 28, 1948 (gage height, 14.0 ft, from graph based on gage readings); minimum daily, 2.1 cfs Sept. 22-24, 1955. Maximum stage known since about 1890, 18.0 ft in January 1946, from information by local resident (discharge, 5,000 cfs, from rating curve extended above 2,600 cfs by logarithmic plotting).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	58.2	39.2	53.2	62.9	71.0	125	107	57.3	50.8	83.2	17.9	28.7	62.8
1952	29.3	43.2	181	97.2	90.3	312	108	63.9	39.6	22.6	26.9	20.7	86.5
1953	22.2	30.5	56.8	149	121	104	75.0	106	37.5	41.4	21.2	33.2	66.3
1954	21.6	24.6	81.1	155	67.1	88.7	80.4	56.6	36.7	15.6	27.7	6.23	55.2
1955	5.67	20.4	36.9	66.6	128	74.5	92.8	49.7	27.9	25.8	17.9	5.52	745.4
1956	13.7	24.1	27.5	28.7	109	128	83.4	54.2	20.3	31.6	12.2	19.4	45.8
1957	23.7	24.0	76.1	77.5	87.8	67.8	175	54.5	51.6	17.7	11.5	11.7	56.0
1958	20.9	61.7	84.0	63.9	117	111	109	62.3	35.2	79.8	30.6	18.8	65.8
1959	30.9	27.8	33.1	69.3	95.8	103	84.0	76.2	66.8	26.9	13.4	16.1	53.3
1960	62.6	31.8	45.4	112	116	111	98.4	54.0	30.2	16.3	27.3	33.9	61.5

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.11	0.72	1.01	1.20	1.22	2.39	1.98	1.09	0.94	1.59	0.34	0.53	14.12
1952	.56	.80	3.45	1.86	1.61	5.95	2.00	1.22	.73	.43	.51	.38	19.50
1953	.42	.56	1.08	2.84	2.08	1.98	1.38	2.02	.69	.79	.40	.61	14.85
1954	.41	.45	1.54	2.95	1.16	1.70	1.48	1.08	.68	.30	.53	.11	12.39
1955	.11	.38	.70	1.27	2.21	1.42	1.71	.95	.51	.49	.34	.10	10.19
1956	.26	.44	.52	.55	1.94	2.44	1.54	1.03	.37	.60	.23	.36	10.28
1957	.41	.44	1.45	1.48	1.51	1.29	3.22	1.04	.95	.34	.22	.22	12.57
1958	.40	1.14	1.60	1.22	2.01	2.11	2.01	1.19	.65	1.52	.58	.35	14.78
1959	.59	.51	.63	1.33	1.64	1.96	1.55	1.45	1.23	.51	.25	.30	11.95
1960	1.19	.59	.86	2.13	2.07	2.11	1.82	1.03	.56	.31	.52	.63	13.82

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950								66.5	14.91
1951	1204	998	Mar. 8, 1951	5.2	62.8	1.04	14.12	71.5	16.09
1952	1234	2,180	Mar. 11, 1952	11	86.5	1.43	19.50	74.4	16.75
1953	1274	974	Jan. 9, 1953	10	66.3	1.10	14.85	67.6	15.19
1954	1334	2,030	Jan. 16, 1954	3.1	55.2	.812	12.39	49.7	11.18
1955	1384	1,830	Feb. 7, 1955	2.1	745.4	.750	10.19	45.6	10.22
1956	1434	1,500	Mar. 16, 1956	4.6	45.8	.757	10.28	50.6	11.36
1957	1504	2,760	Apr. 5, 1957	3.9	56.0	.926	12.57	59.7	13.41
1958	1554	700	Feb. 26, 1958	11	65.8	1.09	14.78	59.6	13.37
1959	1624	926	May 31, 1959	7.3	53.3	.881	11.95	57.4	12.86
1960	1704	950	Jan. 31, 1960	9.6	61.5	1.02	13.82	-	-

† Corrected.

3935. Allatoona Reservoir near Cartersville, Ga.

Location.--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, 4 miles east of Cartersville, Bartow County, and 6 miles upstream from Pumpkinvine Creek.

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

Records available.--December 1949 to September 1960.

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

Extremes.--1949-60: Maximum contents, 485,000 acre-ft Mar. 25, 1952 (elevation, 848.93 ft); minimum, 119,600 acre-ft Dec. 4, 1954 (elevation, 809.34 ft).

Remarks.--Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 835.0 ft) is equipped with nine taintor gates 40 ft wide by 25 ft high, and two taintor gates 20 ft wide by 25 ft high. There are four sluices 5 ft 8 in. wide by 10 ft high and one 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. Figures given herein represent total contents.

Cooperation.--Records furnished by Corps of Engineers.

Contents, in acre-feet, on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	250,000	175,800	163,800	173,600	223,800	351,500	363,000	339,300	335,600	328,400	299,100	310,200
1952	277,000	225,000	359,300	310,200	312,400	421,200	349,700	341,700	331,100	299,900	279,500	259,900
1953	214,600	181,400	150,400	235,400	284,200	290,600	338,600	339,800	305,500	303,700	268,500	265,500
1954	225,200	183,900	195,100	323,700	256,300	308,300	310,900	302,700	288,500	284,300	271,000	218,500
1955	157,200	122,400	162,000	190,800	305,500	291,100	321,500	317,500	308,900	306,000	271,700	246,500
1956	219,300	205,100	157,800	168,900	288,000	309,300	314,400	322,900	307,300	306,800	295,000	274,200
1957	220,900	187,000	235,800	231,900	275,900	322,300	366,400	344,000	352,300	332,800	301,000	301,000
1958	256,200	229,000	184,700	224,400	276,100	338,700	360,800	359,400	343,300	355,700	346,200	319,400
1959	272,200	227,800	174,500	205,600	245,000	296,300	359,800	385,600	368,000	342,900	307,800	262,900
1960	274,100	226,200	176,700	217,600	264,300	323,200	354,600	362,800	356,200	326,500	311,500	306,100

3940. 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 1960. Prior to October 1949, published as Etowah River 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.--22 years (1938-60), 1,661 cfs (adjusted for storage since 1950).

Extremes.--1938-60: Maximum discharge, 40,400 cfs (corrected) Jan. 8, 1946 (gage height, 20.8 ft), from rating curve extended above 26,000 cfs; minimum daily, 208 cfs May 3, 1953. Maximum stage known since at least 1920, that of Jan. 8, 1946.

Remarks.--Flow regulated by Allatoona Reservoir.

Cooperation.--Records furnished by Corps of Engineers; reviewed by Geological Survey.

Correction.--In WSP 1304, the momentary maximum discharge for water year 1944 is listed in error; it should be 16,600 cfs.

Monthly and yearly mean discharge in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,347	2,072	1,283	975	514	654	2,731	1,665	1,185	1,150	963	541	1,259
1952	1,124	1,974	1,512	3,151	2,269	5,522	4,094	1,915	1,605	1,187	1,365	1,016	2,228
1953	1,238	1,221	2,003	1,640	2,080	2,548	1,001	2,453	1,801	1,212	1,069	881	1,579
1954	1,193	1,335	1,764	1,897	3,394	1,033	2,254	1,772	1,294	695	743	1,163	1,530
1955	1,274	1,099	332	880	1,068	2,097	1,878	1,526	1,019	1,089	1,322	711	1,192
1956	858	938	1,420	476	268	2,286	2,773	1,959	1,137	1,134	693	914	1,241
1957	1,440	1,190	841	1,991	2,071	1,217	3,556	1,970	1,097	1,024	887	503	1,476
1958	1,436	2,307	2,825	933	1,234	1,727	2,395	1,973	1,340	1,657	1,151	1,131	1,678
1959	1,665	1,465	1,745	957	1,348	1,263	1,170	1,448	2,027	1,283	1,096	1,369	1,402
1960	1,353	1,651	2,097	1,608	2,068	1,842	2,377	1,300	1,069	1,279	1,028	1,123	1,563

Monthly and yearly runoff, in inches (adjusted) a/, of Etowah River at Allatoona Dam, above Cartersville, Ga.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.08	0.83	1.13	1.18	1.33	2.84	2.93	1.33	1.13	1.07	0.50	0.73	16.08
1952	.61	1.11	3.84	2.44	2.24	7.57	2.91	1.86	1.44	.71	1.07	.69	26.49
1953	.52	.84	1.38	3.10	2.61	2.76	1.82	2.56	1.03	1.23	.52	.84	19.41
1954	.56	.64	2.02	4.14	1.71	2.29	2.31	1.71	1.06	.65	.55	.28	17.92
1955	.29	.52	1.01	1.40	2.94	1.94	2.40	1.52	.88	1.08	.79	.29	15.06
1956	.43	.70	.68	.68	2.28	2.73	2.88	2.18	.88	1.16	.52	.57	15.69
1957	.59	.62	1.70	2.01	2.69	2.05	4.32	1.67	1.24	.73	.38	.51	18.51
1958	.73	1.86	2.19	1.64	2.03	2.85	2.78	2.03	1.07	1.92	1.04	.68	20.82
1959	.93	.72	1.91	1.52	1.93	2.18	2.25	1.94	1.74	.91	.55	.82	16.20
1960	1.59	.85	1.34	2.36	2.79	2.90	2.92	1.49	.96	.83	.81	1.04	19.88

a Adjusted for change in contents in Allatoona Reservoir.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Observed			Adjusted a/			Observed		Adjusted a/	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	1,340	1,552	18.94
1951	1204	8,570	Jan. 10, 1951	226	1,259	1,316	1.19	16.08	1,251	1,521	18.60
1952	1234	10,300	Mar. 27, 1952	231	2,228	2,159	1.95	26.49	2,218	1,930	23.67
1953	1274	8,740	Dec. 31, 1952	208	1,579	1,587	1.45	19.41	1,564	1,626	19.89
1954	1334	8,420	Jan. 29, 1954	222	1,530	1,465	1.32	17.92	1,596	1,350	16.52
1955	1384	8,100	Jan. 10, 1955	214	1,192	1,231	1.11	15.06	1,236	1,230	15.05
1956	1434	8,190	May 14, 1956	227	1,241	1,279	1.15	15.69	1,262	1,369	16.79
1957	1504	9,840	Apr. 12, 1957	227	1,476	1,513	1.36	18.51	1,736	1,665	20.38
1958	1554	8,520	June 5, 1958	241	1,678	1,703	1.53	20.82	1,536	1,522	18.60
1959	1624	8,610	June 10, 1959	221	1,402	1,524	1.19	16.20	1,421	1,424	17.42
1960	1704	8,480	Jan. 15, 1960	248	1,563	1,623	1.46	19.88	-	-	-

a Adjusted for change in contents in Allatoona Reservoir.

3949.5. Hills Creek near Taylorsville, Ga.

Location.--Lat 34°04', long 84°57', on left bank on downstream side of highway bridge on county road, 2 miles southeast of Taylorsville, Polk County, and 2 miles upstream from mouth.

Drainage area.--26 sq mi, approximately.

Records available.--May 1959 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 690 ft (from topographic map).

Extremes.--1959-60: Maximum discharge, 624 cfs Jan. 31, 1960 (gage height, 7.98 ft); minimum, 0.56 cfs Aug. 5, 1960 (gage height, 1.14 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	14.9	8.33	2.86	3.91	-
1960	9.34	6.17	7.20	39.8	45.4	40.7	40.1	12.5	4.71	†2.10	2.98	11.5	18.3

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	0.64	0.37	0.13	0.17	-
1960	0.41	0.26	0.32	1.76	1.80	1.81	1.72	0.55	.20	.09	.13	.49	9.54

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1959	1704	a296	May 31, 1959	-	-	-	-	-	-	-	-
1960	1704	624	Jan. 31, 1960	0.66	18.3	0.704	9.54	-	-	-	-

a Maximum for period May to September.

3950. Etowah River near Kingston, Ga.

Location.--Lat 34°13', long 84°59', on downstream side of center pier of U.S. Highway 411 bridge, 1 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, October 1936 to September 1960. Monthly discharge only for some periods, published in WSP 1304. October 1955 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 609.97 ft above mean sea level (Dixie Construction Co. bench mark). Prior to Aug. 11, 1928, staff gage, Aug. 11, 1928, to Dec. 31, 1931, water-stage recorder, and Nov. 16, 1936, to June 15, 1937, staff gage, June 16, 1937, to June 27, 1960, water-stage recorder, all 500 ft upstream at old bridge at same datum.

Average discharge.--27 years (1928-31, 1936-60), 2,297 cfs (unadjusted).

Extremes.--1928-31, 1936-60: Maximum discharge, 42,700 cfs Apr. 9, 1938 (gage height, 27.7 ft); minimum daily, 268 cfs Oct. 19, 1931.

Maximum stage known, about 31 ft Dec. 11, 1919, from information by local resident (discharge, 52,000 cfs).

Remarks.--Flow regulated by Allatoona Reservoir.

Cooperation.--Records furnished by Corps of Engineers; reviewed by Geological Survey. Records for water years 1956-60 not previously published.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,673	2,353	1,710	1,447	1,223	2,049	4,097	2,187	1,637	1,592	1,228	880	1,840
1952	1,357	2,364	3,116	4,215	3,148	8,768	5,228	2,611	2,075	1,464	1,703	1,420	3,126
1953	1,485	1,507	2,398	3,017	3,331	3,513	1,644	3,417	1,958	1,621	1,325	1,142	2,194
1954	1,367	1,559	2,163	3,403	3,847	1,680	2,808	2,203	1,571	1,003	938	1,263	1,971
1955	1,390	1,239	580	1,331	2,395	2,833	3,042	1,942	1,300	1,415	1,605	909	1,660
1956	1,072	1,191	1,644	787	1,262	3,444	3,854	2,699	1,400	1,531	913	1,183	1,745
1957	1,859	1,421	1,356	2,596	3,120	1,947	5,256	2,669	1,496	1,259	1,049	843	2,045
1958	1,894	3,298	3,684	1,840	2,258	3,013	3,592	2,684	1,745	2,290	1,465	1,445	2,416
1959	2,139	1,768	1,981	1,450	2,224	2,037	2,023	1,696	2,711	1,624	1,286	1,620	1,899
1960	1,730	1,887	2,296	2,356	3,175	2,835	3,259	1,691	1,347	1,487	1,275	1,430	2,059

Note.--Figures for water years 1956-60 not previously published.

Monthly and yearly runoff, in inches (adjusted) a/

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.97	0.76	1.07	1.14	1.35	2.92	2.93	1.28	1.08	1.04	0.53	0.73	15.80
1952	.58	1.02	3.75	2.42	2.10	7.46	2.76	1.75	1.29	.68	.97	.75	25.53
1953	.53	.76	1.22	3.09	2.71	2.58	1.68	2.43	.95	1.13	.53	.75	18.34
1954	.50	.59	1.66	3.88	1.45	2.02	1.95	1.46	.91	.66	.51	.26	15.85
1955	.28	.45	.87	1.27	2.85	1.83	2.43	1.33	.79	.97	.74	.33	14.14
1956	.45	.65	.62	.65	2.20	2.68	2.70	2.01	.78	1.08	.51	.57	14.90
1957	.56	.58	1.52	1.79	2.50	1.91	4.11	1.63	1.12	.67	.38	.58	17.35
1958	.82	1.94	2.10	1.61	2.04	2.85	2.71	1.87	1.01	1.76	.93	.68	20.32
1959	.97	.70	.79	1.38	1.87	2.03	2.12	1.68	1.65	.86	.51	.59	15.15
1960	1.35	.74	1.05	2.13	2.64	2.69	2.60	1.29	.85	.71	.73	.92	17.70

a Adjusted for change in contents in Allatoona Reservoir.

Note.--Figures for water years 1956-60 not previously published.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30											Calendar year		
		Observed						Adjusted a/					Observed		
		Momentary maximum		Minimum day	Mean	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date												
1950	-	-	-	-	-	-	-	-	-	-	-	-	1,825	2,037	16.97
1951	1204	12,000	Mar. 29, 1951	365	1,840	1,897	1.16	15.80	1,934	2,204	18.35				
1952	1234	24,700	Mar. 23, 1952	455	3,126	3,057	1.88	25.53	3,006	2,718	22.69				
1953	1274	12,800	May 8, 1953	396	2,194	2,202	1.35	18.34	2,169	2,231	18.58				
1954	1334	13,800	Jan. 16, 1954	380	1,971	1,906	1.17	15.85	1,812	1,766	14.70				
1955	1384	9,520	Apr. 5, 1955	399	1,660	1,699	1.04	14.14	1,719	1,713	14.06				
1956	-	11,400	Mar. 16, 1956	387	1,745	1,783	1.09	14.90	1,789	1,896	15.84				
1957	-	18,000	Apr. 5, 1957	363	2,045	2,082	1.28	17.35	2,417	2,846	19.55				
1958	-	11,380	Nov. 19, 1957	512	2,416	2,441	1.50	20.32	2,166	2,153	17.92				
1959	-	9,730	June 1, 1959	407	1,899	1,821	1.12	15.15	1,901	1,904	15.83				
1960	-	9,350	Feb. 1, 1960	396	2,059	2,119	1.30	17.70	-	-	-				

a Adjusted for change in contents in Allatoona Reservoir.

Note.--Figures for water years 1956-60 not previously published.

3960. 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"), October 1938 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--38 years (1904-20, 1938-60), 2,796 cfs (unadjusted).

Extremes.--1904-21, 1938-60: 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.--Flow regulated by Allatoona Reservoir.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,793	2,441	1,841	1,589	1,451	2,657	4,706	2,421	1,836	1,751	1,354	1,033	2,073
1952	1,356	2,398	3,666	4,818	3,511	8,980	5,343	2,690	2,065	1,385	1,609	1,390	5,271
1953	1,590	1,640	2,357	3,151	3,489	3,855	1,889	3,737	2,135	1,743	1,453	1,329	2,362
1954	1,530	1,610	2,312	4,312	4,289	1,987	3,100	2,430	1,754	1,104	994	1,347	2,217
1955	1,523	1,271	615	1,355	2,394	3,038	3,437	2,177	1,518	1,598	1,701	972	1,795
1956	1,108	1,261	1,773	782	1,599	3,815	4,333	2,893	1,596	1,760	1,041	1,316	1,940
1957	1,672	1,444	1,373	2,776	3,471	2,275	5,712	2,734	1,520	2,253	1,133	976	2,182
1958	2,023	3,799	9,945	2,003	2,495	3,367	4,094	3,007	1,779	2,373	1,587	1,471	2,662
1959	2,172	1,850	1,997	1,595	2,432	2,141	2,328	2,041	2,718	1,622	1,328	1,650	1,984
1960	1,769	1,989	2,241	2,328	3,592	3,635	3,676	1,882	1,421	1,571	1,297	1,521	2,237

Monthly and yearly runoff, in inches (adjusted) a/

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.95	0.73	1.05	1.11	1.35	3.02	3.02	1.29	1.09	1.04	0.56	0.75	15.96
1952	.52	.94	3.72	2.56	2.11	6.85	2.56	1.63	1.16	.56	.81	.65	24.07
1953	.54	.77	1.08	2.87	2.53	2.52	1.66	2.39	.96	1.09	.56	.79	17.76
1954	.56	.56	1.59	4.08	1.56	2.01	1.94	1.46	.93	.66	.50	.29	16.14
1955	.34	.42	.80	1.16	2.56	1.79	2.43	1.35	.85	.99	.73	.34	13.76
1956	.42	.63	.64	.61	2.19	2.65	2.72	1.92	.82	1.12	.54	.60	14.86
1957	.51	.54	1.38	1.73	2.46	1.92	3.98	1.51	1.02	.60	.39	.60	16.64
1958	.82	2.06	2.05	1.68	1.97	2.79	2.76	1.90	.93	1.64	.91	.63	20.14
1959	.89	.68	.72	1.34	1.81	1.89	2.10	1.57	1.50	.77	.48	.55	14.30
1960	1.24	.73	.91	1.90	2.62	2.93	2.59	1.28	.81	.69	.67	.88	17.25

a Adjusted for change in contents in Allatoona Reservoir.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30										Calendar year		
		Observed					Adjusted a/					Observed		Adjusted a/
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date											
1950	-	-	-	-	-	-	-	-	-	-	-	2,033	2,245	16.83
1951	1204	14,800	Mar. 29, 1951	520	2,073	2,130	1.18	15.96	2,187	2,457	18.41	2,187	2,457	18.41
1952	1234	23,000	Mar. 23, 1952	562	3,271	3,202	1.77	24.07	3,113	2,830	21.28	3,113	2,830	21.28
1953	1274	11,700	May 8, 1953	465	2,362	2,370	1.31	17.76	2,350	2,412	18.08	2,350	2,412	18.08
1954	1334	15,000	Jan. 16, 1954	484	2,217	2,152	1.19	16.14	2,044	1,998	14.99	2,044	1,998	14.99
1955	1384	9,450	Feb. 7, 1955	400	1,795	1,834	1.01	13.76	1,857	1,851	13.89	1,857	1,851	13.89
1956	1434	11,400	Mar. 17, 1956	471	1,940	1,978	1.09	14.86	1,968	2,075	15.60	1,968	2,075	15.60
1957	1504	19,300	Apr. 5, 1957	441	2,182	2,219	1.23	16.64	2,624	2,553	19.14	2,624	2,553	19.14
1958	1554	10,500	Nov. 19, 1957	628	2,662	2,687	1.48	20.14	2,349	2,335	17.50	2,349	2,335	17.50
1959	1624	8,580	June 1, 1959	541	1,984	1,906	1.05	14.30	1,982	1,985	14.89	1,982	1,985	14.89
1960	1704	8,620	Feb. 1, 1960	489	2,257	2,297	1.27	17.25	-	-	-	-	-	-

† Corrected.

a Adjusted for change in contents in Allatoona Reservoir.

3970. 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.--October 1896 to December 1903 (published as "at Rome"), June 1928 to December 1931, March 1937 to December 1958, water years 1959-60 (annual maximum). Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site 1922-49 are contained in reports of U.S. Weather Bureau.

Gage.--Crest-stage gage. 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 8.65 ft higher. June 21, 1928, to Dec. 31, 1931, and Mar. 10, 1937, to Dec. 31, 1958, water-stage recorder at present site and datum.

Average discharge.--31 years (1896-1903, 1928-31, 1937-58), 6,491 cfs (unadjusted).

Extremes.--1896-1903, 1928-31, 1937-60: Maximum discharge, 65,000 cfs Jan. 22, 1947 (gage height, 37.0 ft).

1896-1903, 1928-31, 1937-58: Minimum daily discharge, 870 cfs Oct. 18-22, 1931 (gage height, -0.55 ft).

Maximum stage known since at least 1834, 40.3 ft at site and datum at Rome (equivalent to stage of about 43 ft at present site, from gage-height relation) Apr. 1, 1886 (discharge, 100,000 cfs, from rating curve extended above 63,000 cfs on basis of peak flow at station at Gadsden, Ala.).

Remarks.--Flow regulated by Allatoona Reservoir.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3,557	3,942	4,416	4,950	7,156	11,598	19,769	4,898	3,855	4,029	2,677	2,547	6,092
1952	2,165	5,208	14,340	12,010	9,181	21,230	9,544	5,300	4,550	2,735	3,308	2,842	7,717
1953	2,376	2,726	5,017	11,280	13,660	9,876	4,849	9,401	3,499	3,988	2,340	2,350	5,912
1954	2,207	2,286	5,243	16,610	7,121	8,537	20,201	5,375	3,866	2,215	2,095	1,855	5,470
1955	1,943	1,910	2,826	4,417	10,980	8,436	10,390	5,927	3,080	3,078	2,607	1,473	4,710
1956	1,881	2,639	3,013	1,922	13,980	10,470	12,960	6,507	2,992	3,217	1,985	2,135	5,263
1957	2,317	2,145	4,099	6,191	16,820	7,253	14,260	4,832	5,812	2,605	1,795	2,948	5,684
1958	4,242	11,320	10,010	5,794	7,765	8,766	9,549	9,194	3,014	4,871	2,679	2,647	6,663
1959	3,128	2,797	3,267	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches (adjusted) a/

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.93	0.74	1.20	1.45	2.08	3.91	5.51	1.29	1.05	1.12	0.63	0.76	20.67
1952	.46	1.19	4.72	3.19	2.46	6.56	2.30	1.48	1.20	.64	.85	.69	25.74
1953	.47	.64	1.24	3.61	3.76	2.85	1.56	2.69	.61	1.15	.50	.63	19.89
1954	.44	.44	1.54	5.34	1.43	2.77	2.28	1.50	1.00	.61	.54	.27	18.16
1955	.27	.37	.99	1.40	3.35	2.34	3.01	1.67	.81	.86	.58	.29	†15.94
1956	.41	.66	.64	.60	4.28	3.09	3.60	1.89	.75	.92	.51	.49	17.84
1957	.41	.44	1.40	1.75	4.54	2.28	4.14	1.28	1.09	.65	.36	.81	19.15
1958	1.00	3.00	2.65	1.83	2.24	2.79	2.74	2.62	.76	1.45	.78	.61	22.47
1959	.67	.59	.68	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

† Corrected.

a Adjusted for change in contents in Allatoona Reservoir.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30								Calendar year		
		Observed				Adjusted a/				Observed	Adjusted a/	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches	
		Discharge	Date									
1950	-	-	-	-	-	-	-	-	6,433	6,645	22.33	
1951	1204	49,400	Mar. 30, 1951	1,260	6,092	6,149	1.52	20.67	6,921	7,191	24.17	
1952	1234	35,600	Mar. 24, 1952	1,100	7,717	7,648	1.89	25.74	6,742	6,454	21.72	
1953	1274	25,300	Jan. 10, 1953	1,180	5,912	5,920	1.47	19.89	5,881	5,943	19.96	
1954	1334	37,200	Jan. 23, 1954	1,040	5,470	5,405	1.34	18.16	5,211	5,165	17.37	
1955	1384	29,400	Feb. 8, 1955	940	4,710	4,749	1.18	†15.94	4,780	4,774	16.02	
1956	1434	25,500	Apr. 17, 1956	1,010	5,263	5,301	1.31	17.84	5,351	5,458	18.38	
1957	1504	36,200	Apr. 6, 1957	1,040	5,664	5,701	1.41	19.15	7,084	7,013	23.55	
1958	1554	27,100	Nov. 20, 1957	1,460	6,663	6,688	1.66	22.47	5,295	5,309	17.76	
1959	-	b19,000	(c)	-	-	-	-	-	-	-	-	
1960	-	23,300	Mar. 5, 1960	-	-	-	-	-	-	-	-	

† Corrected.

a Adjusted for change in contents in Allatoona Reservoir.

b Estimated.

c Date not determined.

3975. 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 1960.

Gage.--Water-stage recorder. Datum of gage is 724.22 ft above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Georgia State Highway Department).

Average discharge.--18 years, 149 cfs.

Extremes.--1942-60: Maximum discharge, 8,820 cfs (revised) Nov. 28, 1948 (gage height, 16.4 ft); minimum daily, 26 cfs Oct. 20, Nov. 13, 14, 1954.

Maximum stage known since at least 1886, that of Nov. 28, 1948, from information by local residents.

Remarks.--Diurnal fluctuation and moderate regulation at low flow caused by powerplants above station.

Revisions.--Some records for the water years 1943, 1944, 1946, 1947, and 1949 were revised in WSP 1704, the resulting revised records as summarized herewith supersede those published in WSP 1304.

Period	Mean	Per square mile	Runoff in inches	Momentary maximum	
				Discharge	Date
Water year 1942-43.....	-	-	-	4,240	Apr. 19, 1943
Water year 1943-44.....	-	-	-	4,370	Mar. 7, 1944
Water year 1945-46.....	-	-	-	8,340	Feb. 10, 1946
Water year 1946-47.....	-	-	-	7,060	Jan. 20, 1947
November 1948.....	546	5.01	5.59	-	-
Calendar year 1948.....	196	1.80	24.44	-	-
Water year 1948-49.....	215	1.97	26.75	8,820	Nov. 28, 1948

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	68.7	56.1	63.6	91.8	170	470	333	103	84.7	106	94.9	57.8	141
1952	50.1	85.8	450	262	201	726	156	83.3	76.9	48.6	63.1	51.5	189
1953	44.3	50.1	82.6	340	263	195	120	217	87.5	136	77.0	63.1	139
1954	53.5	58.8	230	479	135	138	123	129	68.0	59.0	53.2	34.1	131
1955	35.9	29.9	46.1	120	288	214	†266	†131	63.6	64.6	41.9	37.7	110
1956	39.1	47.7	42.3	43.3	269	304	256	80.2	50.0	52.8	46.4	42.3	105
1957	34.8	35.5	57.9	94.8	209	195	442	90.8	92.6	80.2	42.4	113	121
1958	112	250	258	154	239	266	261	142	90.4	162	61.7	75.6	174
1959	110	58.1	59.6	130	302	179	170	143	186	77.1	53.4	49.5	129
1960	53.7	54.4	59.0	153	247	303	131	68.6	55.3	58.8	57.0	56.1	108

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.73	0.57	0.67	0.97	1.62	4.97	3.41	1.09	0.87	1.12	1.00	0.59	17.61
1952	.53	.88	4.76	2.77	1.98	7.68	1.60	.88	.79	.51	.67	.53	23.58
1953	.47	.51	.87	3.60	2.51	2.06	1.23	2.29	.90	1.44	.81	.65	17.34
1954	.57	.60	2.43	5.06	1.29	1.46	1.28	1.36	.70	.62	.56	.35	16.26
1955	.36	.31	.49	1.27	2.75	2.26	2.72	1.38	.65	.68	.44	.39	13.70
1956	.41	.49	.45	.46	2.66	3.22	2.62	.85	.51	.56	.49	.43	13.15
1957	.37	.36	.61	1.00	2.00	2.06	4.53	.96	.95	.64	.45	1.16	15.09
1958	1.19	2.56	2.73	1.63	2.28	2.81	2.88	1.50	.92	1.72	.65	.77	21.64
1959	1.16	.59	.63	1.37	2.88	1.89	1.74	1.94	1.91	.82	.56	.51	16.00
1960	.57	.56	.62	1.61	2.45	3.20	1.34	.73	.57	.63	.60	.57	13.45

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	124	15.46
1951	1204, 1704	7,300	Mar. 29, 1951	39	141	1.29	17.61	175	21.81
1952	1234, 1704	6,420	Mar. 23, 1952	39	189	1.73	23.58	154	19.26
1953	1274	3,200	Jan. 9, 1953	41	139	1.28	17.34	153	19.09
1954	1334, 1704	6,180	Jan. 16, 1954	28	131	1.20	16.26	111	13.82
1955	1384	4,170	Feb. 7, 1955	26	110	1.01	13.70	112	13.89
1956	1434	3,340	Mar. 16, 1956	34	105	.963	13.15	105	13.14
1957	1504, 1704	6,500	Apr. 5, 1957	31	121	1.11	15.09	162	20.23
1958	1554	2,920	July 20, 1958	47	174	1.60	21.64	141	17.54
1959	1624	4,170	May 31, 1959	45	129	1.18	16.00	123	15.37
1960	1704	1,720	Jan. 31, 1960	28	108	.991	13.45	-	-

3980. 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 1960.

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.--23 years (1937-60), 337 cfs.

Extremes.--1937-60: 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.--Low and medium flow regulated by powerplant at Trion, 6 miles above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	177	122	207	307	451	1,354	922	248	170	196	115	102	364
1952	97.9	221	1,030	644	486	1,116	290	164	147	121	296	219	404
1953	118	146	351	832	1,139	571	259	402	150	234	115	85.5	363
1954	74.5	75.9	179	928	206	406	338	198	203	89.7	73.6	63.2	237
1955	59.2	64.5	168	212	631	367	635	491	174	149	103	79.6	258
1956	78.0	118	122	123	1,333	652	741	191	114	107	134	82.8	311
1957	75.2	80.9	283	321	1,298	407	609	176	187	111	80.2	187	310
1958	299	1,150	607	442	426	546	562	351	140	208	141	104	414
1959	90.4	89.0	90.0	300	333	437	532	250	276	132	108	99.0	227
1960	111	334	334	493	600	803	377	177	103	85.7	104	102	301

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.06	0.71	1.23	1.83	2.44	8.09	5.33	1.48	0.98	1.18	0.69	0.59	25.61
1952	.58	1.28	6.16	3.65	2.72	6.66	1.67	.98	.85	1.72	1.76	1.26	28.49
1953	.70	.84	2.10	4.97	6.14	3.41	1.50	2.40	.87	1.40	.69	.49	25.51
1954	.44	.44	1.07	5.54	1.11	2.42	1.95	1.19	1.17	.54	.44	.36	16.67
1955	.35	.37	1.00	1.27	3.40	2.19	3.67	2.93	1.01	.89	.62	.46	18.16
1956	.47	.68	.73	.73	7.45	3.90	4.28	1.14	.66	.64	.80	.48	21.96
1957	.45	.47	1.70	1.91	7.00	2.43	3.53	1.05	1.08	.66	.48	1.08	21.84
1958	1.79	6.65	3.63	2.64	2.30	3.26	3.25	2.10	.61	1.24	.84	.60	29.11
1959	.54	.51	.54	1.79	1.80	2.61	3.08	1.50	1.60	.79	.65	.57	15.98
1960	.66	1.93	1.99	2.94	3.35	4.80	2.18	1.06	.60	.51	.62	.59	21.23

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	435	30.57
1951	1204	24,500	Mar. 29, 1951	50	364	1.69	25.61	435	30.53
1952	1234	16,000	Mar. 11, 1952	69	404	2.09	28.49	342	24.11
1953	1274	8,220	Feb. 21, 1953	75	363	1.68	25.51	339	23.82
1954	1334	10,300	Jan. 16, 1954	50	237	1.23	16.67	234	16.44
1955	1384	6,310	Feb. 7, 1955	54	258	1.34	18.16	260	18.32
1956	1434	6,500	Feb. 17, 1956	58	311	1.61	21.96	322	22.70
1957	1504	7,540	Feb. 1, 1957	64	310	1.61	21.84	445	31.29
1958	1554	13,900	Nov. 18, 1957	86	414	2.15	29.11	265	18.63
1959	1624	3,290	Jan. 22, 1959	71	227	1.18	15.98	270	18.97
1960	1704	3,190	Mar. 3, 1960	76	301	1.56	21.23	-	-

3983. Chattooga River above Gaylesville, Ala.

Location.--Lat 34°17'30", long 85°30'30", in SW $\frac{1}{4}$ sec.32, T.8 S., R.11 E., on left bank 10 ft upstream from bridge on county highway, 600 ft downstream from Mills Creek, and $3\frac{1}{2}$ miles northeast of Gaylesville.

Drainage area.--368 sq mi.

Records available.--January 1959 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 562.11 ft above mean sea level (Alabama Power Company bench mark). Prior to July 20, 1959, wire-weight gage at same site and datum.

Extremes.--1959-60: Maximum discharge, 4,050 cfs Mar. 30, 1960 (gage height, 13.93 ft); minimum daily, 130 cfs Oct. 4, 1959, Sept. 4-10, 15, 16, 1960.

Remarks.--Some regulation at low flows by powerplant 24 miles above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	534	660	787	890	423	440	208	188	169	-
1960	191	602	580	889	1,111	1,552	718	327	201	162	178	237	561

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	1.67	1.87	2.47	2.70	1.32	1.33	0.65	0.59	0.51	-
1960	0.60	1.83	1.82	2.79	3.26	4.86	2.18	1.03	.61	.51	.56	.73	20.77

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	1624	a3,400	Apr. 20, 1959	-	-	-	-	471	17.36
1960	1704	4,050	Mar. 30, 1960	130	561	1.52	20.77	-	-

a Maximum daily discharge during period January to September.

3985. 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., near center of channel at downstream side of bridge on State Highway 35, 0.2 mile southwest of Gaylesville and 9 miles upstream from Little River.

Drainage area.--377 sq mi.

Records available.--June 1937 to September 1960.

Gage.--Wire-weight gage. 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, Sept. 27, 1944, to Dec. 14, 1948, wire-weight gage, and Dec. 15, 1948, to Dec. 6, 1955, water-stage recorder, 75 ft downstream and at same datum.

Average discharge.--23 years (1937-60), 649 cfs.

Extremes.--1937-60: 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.--Some regulation at low flow by powerplant 27 miles above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	321	262	364	626	842	2,945	1,693	421	307	303	188	199	706
1952	211	449	2,222	1,400	994	2,134	578	355	291	254	511	364	817
1953	221	276	650	1,676	2,062	1,204	544	876	301	559	224	170	724
1954	151	150	387	1,812	407	812	658	380	355	164	137	109	462
1955	97.7	109	287	413	1,317	681	1,190	758	301	252	175	129	469
1956	132	209	191	196	2,215	1,212	1,505	360	203	218	205	165	559
1957	129	152	588	734	2,469	1,255	393	348	221	144	245	619	29.49
1958	499	1,891	1,234	802	803	1,027	1,100	758	272	633	293	188	791
1959	153	155	179	598	780	877	961	456	501	235	196	178	436
1960	194	598	583	898	1,119	1,660	756	356	218	161	178	242	579

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.98	0.77	1.11	1.91	2.33	9.01	5.01	1.29	0.91	0.93	0.57	0.59	25.41
1952	.64	1.33	6.79	4.28	2.84	6.53	1.71	1.09	.86	.78	1.56	1.08	29.49
1953	.69	.82	1.99	5.13	5.69	3.68	1.61	2.68	.89	1.71	.69	.50	26.07
1954	.46	.44	1.18	5.54	1.12	2.48	1.95	1.16	1.05	.50	.42	.32	16.62
1955	.30	.32	.88	1.26	3.64	2.08	3.52	2.32	.89	.77	.53	.38	16.89
1956	.40	.62	.58	.60	6.34	3.71	4.45	1.10	.60	.67	.63	.49	20.19
1957	.40	.45	1.80	2.25	6.82	2.81	3.71	1.20	1.03	.67	.44	.73	22.31
1958	1.53	5.60	3.77	2.45	2.22	3.14	3.25	2.32	.81	1.94	.90	.56	28.49
1959	.47	.46	.55	1.83	2.15	2.68	2.84	1.39	1.48	.72	.60	.53	15.70
1960	.59	1.77	1.78	2.75	3.20	5.08	2.24	1.09	.65	.49	.55	.72	20.91

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	818	29.46
1951	1204	33,700	Mar. 30, 1951	137	706	1.87	25.41	870	31.31
1952	1234	14,600	Mar. 12, 1952	170	817	2.17	29.49	670	24.22
1953	1274	8,600	Feb. 22, 1953	143	724	1.92	26.07	685	24.66
1954	1334	9,700	Jan. 17, 1954	100	462	1.23	16.62	446	16.04
1955	1384	6,780	Feb. 8, 1955	86	469	1.22	16.89	472	16.99
1956	1434	6,960	Apr. 17, 1956	108	559	1.48	20.19	588	21.24
1957	1504	11,200	Feb. 2, 1957	93	619	1.64	22.31	849	30.56
1958	1554	11,500	Nov. 29, 1957	150	791	2.10	28.49	529	19.07
1959	1624	4,320	Apr. 20, 1959	120	436	1.16	15.70	510	18.36
1960	1704	4,720	Mar. 30, 1960	132	579	1.54	20.91	-	-

3992. Little River near Blue Pond, Ala.

Location.--Lat 34°17'20", long 85°40'50", in N $\frac{1}{2}$ sec.3, T.9 S., R.9 E., on right bank on downstream side of Tennessee, Alabama & Georgia Railway bridge, 1 $\frac{1}{4}$ miles upstream from Wolf Creek, 4 $\frac{1}{4}$ miles northeast of Blue Pond, and 6 $\frac{1}{4}$ miles upstream from mouth.

Drainage area.--194 sq mi.

Records available.--December 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 581.38 ft above mean sea level, datum of 1929. Prior to Aug. 1, 1959, wire-weight gage on highway bridge a quarter of a mile downstream at datum 7.49 ft lower.

Extremes.--1958-60: Maximum discharge, 9,650 cfs Jan. 21, 1959 (gage height, 10.0 ft, site and datum then in use); minimum, 0.2 cfs July 21, 22, 1960 (gage height, 0.99 ft). Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	27.2	565	680	720	623	293	247	23.2	16.6	36.9	-
1960	57.7	565	597	865	962	1,106	441	117	4.98	1.83	5.77	253	413

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	0.16	3.36	3.65	4.28	3.59	1.74	1.42	0.14	0.10	0.21	-
1960	0.34	3.25	3.55	5.14	5.35	6.57	2.54	.70	.03	.01	.03	1.45	28.96

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1959	1704	9,650	Jan. 21, 1959	-	-	-	-	366	25.63	-	-
1960	1704	3,810	Nov. 24, 1959	0.2	413	2.13	28.96	-	-	-	-

3995. Coosa River at Leesburg, Ala.

Location.--Lat 34°11', long 85°45', in NW $\frac{1}{4}$ sec.12, T.10 S., R.8 E., near center of channel on downstream side of pier 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.--April 1937 to September 1958. Monthly discharge only for April and May 1937, published in WSP 1304.

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.--21 years (1937-58), 8,161 cfs.

Extremes.--1937-58: Maximum discharge, 73,200 cfs Feb. 14, 1946, Jan. 24, 1947 (gage height, 35.1 ft, from graph based on gage readings); minimum daily, 1,130 cfs Oct. 24-26, 1941.

Remarks.--Since December 1949, flow regulated by Allatoona Reservoir on Etowah River.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4,218	4,395	5,393	6,905	9,951	16,430	27,150	5,809	4,450	4,752	3,206	3,091	7,943
1952	2,800	6,904	21,620	15,800	12,620	27,180	11,240	6,070	5,235	2,990	4,132	3,579	10,040
1953	2,772	3,323	6,792	16,850	19,290	13,850	6,821	12,360	4,098	5,105	2,736	2,632	8,002
1954	2,394	2,539	6,630	22,980	8,667	11,270	10,500	6,542	4,725	2,525	2,287	1,994	6,929
1955	2,110	2,067	3,504	6,338	15,130	11,120	14,270	7,637	3,950	3,829	3,045	1,778	6,166
1956	2,241	3,213	3,608	2,559	20,140	14,430	17,450	7,463	3,444	3,690	2,333	2,386	6,843
1957	2,595	2,531	5,619	8,334	23,580	10,640	18,880	6,179	4,883	3,323	2,160	3,667	7,571
1958	6,061	16,210	14,140	8,406	10,610	12,730	12,750	11,670	4,124	7,551	3,815	3,522	9,291
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	8,621	-	-	-
1951	1204	66,900	Mar. 30, 31, 1951	1,630	7,943	-	-	9,407	-	-	-
1952	1234	42,900	Dec. 23, 1951	1,620	10,040	-	-	8,484	-	-	-
1953	1274	37,900	Jan. 11, 1953	1,540	8,002	-	-	7,882	-	-	-
1954	1334	45,700	Jan. 24, 1954	1,260	6,929	-	-	6,600	-	-	-
1955	1384	37,400	Feb. 8, 1955	1,300	6,166	-	-	6,280	-	-	-
1956	1434	32,800	Apr. 18, 1956	1,370	6,843	-	-	6,988	-	-	-
1957	1504	42,100	Feb. 5, 1957	1,300	7,571	-	-	9,714	-	-	-
1958	1554	36,300	Nov. 21, 1957	2,120	9,291	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-

Note.--Monthly and yearly figures of discharge per square mile and runoff in inches since December 1949, previously published in some water-supply papers, may be in error because of regulation above station; those figures are not published herein.

4000. 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 U.S. Highway 278 and 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, January 1955 to September 1956 (annual maximum only), October 1956 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 649.79 ft above mean sea level, datum of 1929. January 1955 to September 1956, crest-stage gage at same site and datum.

Average discharge.--14 years (1944-54, 1956-60), 156 cfs.

Extremes.--1944-60: 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.
1944-54, 1956-60: Minimum discharge, 0.9 cfs Oct. 18, 20, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	40.9	44.4	61.9	102	219	619	360	92.2	49.8	138	45.6	43.3	151
1952	26.6	82.1	485	251	181	753	145	82.1	74.5	14.8	37.1	25.0	179
1953	18.8	36.4	109	389	318	220	178	288	53.4	61.2	40.3	18.7	144
1954	10.2	18.2	165	464	123	145	190	132	54.5	23.5	13.7	5.61	112
1955	2.20	13.7	47.5	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	10.2	23.6	69.3	157	231	225	552	96.4	104	78.2	15.4	151	141
1958	75.9	290	282	168	298	328	327	102	86.8	155	30.6	135	189
1959	142	53.1	53.6	185	329	223	196	179	184	37.7	15.5	16.0	133
1960	19.6	26.9	32.5	192	252	321	115	41.8	19.6	7.70	34.2	39.7	91.5

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.41	0.43	0.62	1.02	1.99	6.21	3.50	0.92	0.48	1.39	0.46	0.42	17.85
1952	.27	.80	4.86	2.52	1.70	7.55	1.40	.82	.46	.15	.37	.24	21.14
1953	.19	.35	1.10	3.90	2.88	2.20	1.73	2.88	.52	.61	.40	.18	16.94
1954	.10	.18	1.65	4.66	1.12	1.46	1.84	1.32	.53	.24	.14	.04	13.28
1955	.02	.13	.48	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	.10	.23	.69	1.57	2.09	2.25	5.36	.97	1.01	.78	.15	1.47	16.67
1958	.76	2.81	2.83	1.68	2.70	3.29	5.17	1.02	.84	1.55	.31	1.30	22.26
1959	1.42	.52	.54	1.86	2.98	2.23	1.90	1.80	1.79	.38	.16	.16	15.74
1960	.20	.26	.33	1.93	2.36	3.22	1.12	.42	.19	.08	.34	.39	10.84

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	127	14.92
1951	1204	17,800	Mar. 29, 1951	10	151	1.31	17.85	189	22.32
1952	1234	10,000	Mar. 23, 1952	4.8	179	1.56	21.14	142	16.85
1953	1274	5,690	Jan. 9, 1953	3.1	144	1.25	16.94	146	17.23
1954	1334	12,000	Jan. 16, 1954	2.0	112	.974	13.28	101	11.98
1955	1554	6,380	Feb. 7, 1955	-	-	-	-	-	-
1956	1554	4,790	Mar. 17, 1956	-	-	-	-	-	-
1957	1504	10,600	Apr. 5, 1957	3.5	141	1.23	16.67	187	22.05
1958	1554	5,160	Sept. 2, 1958	5.7	189	1.64	22.26	155	18.34
1959	1624	3,500	(a)	7.6	133	1.16	15.74	119	14.05
1960	1704	2,310	Jan. 31, 1960	3.8	91.5	.796	10.84	-	-

a Oct. 1, 1958, Jan. 21, 1959.

4005. Coosa River at Gadsden, Ala.

Location.--Lat 34°01', long 86°00', in NE $\frac{1}{4}$ sec.10, T.12 S., R.6 E., near midstream in pier of Etowah County Memorial Bridge on U.S. Highway 431 in Gadsden, 450 ft downstream from Louisville & Nashville Railroad bridge and $\frac{1}{2}$ miles upstream from Big Wills Creek.

Drainage area.--5,800 sq mi, approximately.

Records available.--October 1926 to September 1960. Gage-height records collected at same site since 1890 and 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.--34 years (1926-60), 9,066 cfs.

Extremes.--1926-60: 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 (discharge, 115,000 cfs, from rating curve extended above 80,000 cfs by logarithmic plotting). Flood of July 15, 1916, reached a stage of 32.7 ft (discharge, 85,000 cfs).

Remarks.--Since December 1949 flow regulated by Allatoona Reservoir on Etowah River.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4,413	4,508	5,719	7,905	11,660	17,720	34,080	6,563	4,793	5,361	3,477	3,282	9,075
1952	2,964	7,390	24,540	17,860	14,730	29,290	12,070	6,321	5,586	3,159	4,366	3,795	11,030
1953	2,946	3,509	7,400	19,930	21,540	15,750	7,873	13,980	4,477	5,364	3,150	2,761	9,001
1954	2,579	2,812	7,623	26,210	9,778	12,600	11,640	7,089	5,035	2,870	2,506	2,165	7,751
1955	2,295	2,298	3,700	7,372	17,230	12,440	16,080	7,979	4,292	4,005	3,248	1,960	6,831
1956	2,325	3,276	3,592	2,714	21,610	15,890	19,180	7,763	3,755	3,929	2,616	2,581	7,361
1957	2,750	2,740	5,914	8,877	26,200	12,520	21,000	6,531	5,640	3,894	2,478	3,820	8,387
1958	7,254	17,840	16,390	9,898	12,270	15,100	14,100	12,910	4,845	9,079	4,414	3,914	10,660
1959	4,195	3,701	4,147	6,191	11,400	10,680	11,920	6,663	9,057	4,256	3,259	3,479	6,703
1960	3,752	6,936	8,408	10,270	16,980	18,860	11,000	5,007	3,285	3,043	3,470	3,723	7,863

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	9,428	-
1951	1204	64,600	Apr. 1, 1951	1,780	9,075	-	-	10,790	-
1952	1234	48,500	Dec. 23, 1951	2,000	11,030	-	-	9,255	-
1953	1274	44,600	Jan. 11, 1953	1,730	9,001	-	-	8,931	-
1954	1334	51,000	Jan. 24, 1954	1,480	7,751	-	-	7,352	-
1955	1384	41,900	Feb. 8, 1955	1,540	6,831	-	-	6,905	-
1956	1434	33,500	Apr. 18, 1956	1,530	7,361	-	-	7,549	-
1957	1504	47,600	Feb. 6, 1957	1,530	8,387	-	-	10,900	-
1958	1554	38,800	Nov. 21, 1957	2,260	10,660	-	-	8,199	-
1959	1624	28,700	Feb. 15, 1959	2,040	6,703	-	-	7,293	-
1960	1704	31,400	Mar. 5, 1960	1,880	7,863	-	-	-	-

Note.--Monthly and yearly figures of discharge per square mile and runoff in inches since December 1949, previously published in some water-supply papers, may be in error because of regulation above station; those figures are not published herein.

4010. 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., near right bank on upstream side of bridge on county road, 1 mile upstream from Fisher Creek, 2 miles west of Crudup, and 4 miles downstream from Little Duck Creek.

Drainage area.--185 sq mi.

Records available.--October 1943 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 650 ft (from topographic map). Prior to July 10, 1957, wire-weight gage at site 100 ft downstream at same datum.

Average discharge.--17 years (1943-60), 295 cfs.

Extremes.--1943-60: Maximum discharge, 14,800 cfs Mar. 29, 1951 (gage height, 14.5 ft, from floodmarks); minimum observed, 21 cfs Sept. 22, 1955, Dec. 5, 1956 (gage height, 1.26 ft).

Flood in 1884 reached a stage of 16.3 ft, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	110	82.1	139	308	514	1,265	782	209	156	196	85.2	73.5	326
1952	72.7	213	971	621	504	647	210	140	99.0	65.8	118	113	315
1953	82.8	65.8	256	667	910	522	288	523	173	174	91.9	64.1	315
1954	50.5	51.6	167	852	241	457	345	151	143	64.5	48.9	38.7	218
1955	30.1	40.2	124	175	727	380	464	236	157	124	49.3	35.7	208
1956	35.2	56.8	51.0	38.5	697	549	752	195	97.6	95.0	72.7	45.5	221
1957	36.3	33.5	208	342	1,091	338	587	133	199	104	55.7	74.4	261
1958	232	794	549	289	378	393	363	307	135	397	153	120	342
1959	82.8	62.3	63.9	216	457	445	320	198	207	95.6	66.0	65.2	187
1960	58.4	136	213	366	453	645	287	133	76.9	66.5	94.0	100	219

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.68	0.50	0.87	1.92	2.90	7.88	4.72	1.30	0.94	1.22	0.53	0.44	23.90
1952	.45	1.29	6.05	3.87	2.94	4.03	1.27	.87	.60	.41	.73	.68	23.19
1953	.52	.40	1.59	4.16	5.12	3.25	1.73	3.26	1.05	1.09	.57	.39	23.13
1954	.32	.31	1.04	5.31	1.35	2.85	2.08	.94	.86	.40	.30	.23	15.99
1955	.19	.24	.77	1.09	4.09	2.37	2.80	1.47	.95	.77	.31	.22	15.27
1956	.22	.34	.32	.24	4.07	3.42	4.53	1.22	.59	.59	.45	.27	16.26
1957	.23	.20	1.29	2.13	6.14	2.11	3.54	.83	1.20	.65	.35	.45	19.12
1958	1.44	4.79	3.42	1.80	2.13	2.45	2.19	1.91	.81	2.48	.95	.72	25.09
1959	.52	.38	.40	1.35	2.46	2.78	1.93	1.24	1.25	.60	.41	.39	13.71
1960	.36	.82	1.33	2.28	2.64	4.02	1.73	.83	.46	.41	.59	.61	16.08

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	328	24.08
1951	1204	14,800	Mar. 29, 1951	58	326	1.76	23.90	404	29.64
1952	1234	4,340	Dec. 21, 1951	50	315	1.70	23.19	243	17.91
1953	1274	5,180	Feb. 22, 1953	54	315	1.70	23.13	304	22.29
1954	1334	5,180	Jan. 16, 1954	35	218	1.18	15.99	212	15.52
1955	1384	3,040	Feb. 7, 1955	22	208	1.12	15.27	204	14.95
1956	1434	3,760	Apr. 17, 1956	25	221	1.19	16.26	232	17.10
1957	1504	5,360	Feb. 2, 1957	23	261	1.41	19.12	369	27.05
1958	1554	6,250	Nov. 19, 1957	75	342	1.85	25.09	228	16.74
1959	1624	11,400	Feb. 14, 1959	50	187	1.01	13.71	203	14.92
1960	1704	1,710	Mar. 3, 1960	46	219	1.18	16.08	-	-

a Maximum daily discharge.

4015. Big Canoe Creek near Gadsden, Ala.

Location.--Lat 33°54'11", long 86°96'37", in NW 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, 400 ft downstream from Rock Creek, 5 miles upstream from mouth, and 10 miles southwest of Gadsden.

Drainage area.--256 sq mi.

Records available.--October 1937 to September 1960. Monthly discharge only for low-water periods in water years 1938-39, published in WSP 1304.

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 Mar. 16, 1944, staff gage and Mar. 16, 1944, to Dec. 13, 1948, wire-weight gage, at present site and datum. Prior to Nov. 3, 1949, and Oct. 1, 1955, to Sept. 30, 1958, auxiliary staff gage on Coosa River at Greensport Ferry, 2.4 miles downstream from mouth of Big Canoe Creek. Nov. 3, 1949, to Sept. 30, 1953, auxiliary staff gage 2 miles downstream.

Average discharge.--23 years (1937-60), 415 cfs..

Extremes.--1937-60: 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, 9.6 cfs Oct. 20, 1956; minimum not determined prior to Oct. 1, 1945.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	78.1	84.7	290	449	848	1,876	1,014	126	95.6	217	58.4	150	438
1952	51.2	264	1,469	726	687	1,103	199	64.1	52.2	33.7	87.4	50.1	400
1953	55.6	64.6	492	1,527	1,148	559	395	632	100	73.5	30.7	25.2	422
1954	19.1	24.5	404	1,110	383	556	240	104	80.7	28.6	27.0	12.5	250
1955	17.7	30.2	351	711	1,236	577	909	171	89.8	83.1	39.2	14.3	346
1956	19.2	67.0	69.6	62.3	1,365	787	1,083	115	43.7	40.9	19.2	16.3	302
1957	12.9	20.7	156	346	1,023	766	1,006	303	160	115	25.7	347	349
1958	371	892	874	486	740	720	478	152	67.4	359	68.6	411	466
1959	77.6	110	116	643	1,084	850	389	394	369	48.0	34.4	121	348
1960	66.4	390	350	739	771	1,433	368	82.4	50.9	43.3	54.2	40.3	365

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.35	0.37	1.31	2.02	3.45	8.45	4.42	0.57	0.42	0.98	0.26	0.65	23.25
1952	.23	1.15	6.61	3.27	2.90	4.97	.87	.29	.23	.15	.39	.22	21.29
1953	.25	.28	2.22	6.88	4.67	2.52	1.72	2.85	.44	.33	.14	.11	22.41
1954	.09	.11	1.82	4.39	1.56	2.50	1.05	.47	.35	.13	.12	.05	15.24
1955	.08	.13	1.58	3.20	5.03	2.60	3.96	.77	.39	.37	.18	.06	18.35
1956	.09	.29	.31	.28	5.75	3.54	4.72	.52	.19	.18	.09	.07	16.03
1957	.06	.09	.61	1.56	4.16	3.45	4.38	1.36	.70	.52	1.51	18.52	18.52
1958	1.67	3.89	3.94	2.19	3.01	3.24	2.08	.69	.29	1.62	.31	1.79	24.72
1959	.35	.48	.52	2.89	4.41	3.83	1.69	1.78	1.61	.22	.15	.53	18.46
1960	.30	1.70	1.58	3.33	3.25	6.45	1.60	.37	.22	.20	.24	.18	19.42

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	401	21.29
1951	1204	15,800	Mar. 30, 1951	26	438	1.71	23.25	551	29.21
1952	1234	6,470	Dec. 21, 1951	24	400	1.56	21.28	301	16.04
1953	1274	7,520	Jan. 10, 1953	17	422	1.65	22.41	409	21.68
1954	1334	8,130	Jan. 16, 1954	11	250	.97	13.24	245	15.00
1955	1384	6,690	Feb. 6, 1955	11	346	1.35	18.35	326	17.25
1956	1434	5,480	Apr. 6, 1956	12	302	1.18	16.03	303	16.10
1957	1504	5,920	Apr. 6, 1957	9.6	349	1.36	18.52	514	27.26
1958	1554	6,690	Sept. 21, 1958	26	466	1.82	24.72	312	16.57
1959	1624	4,490	Feb. 15, 1959	25	348	1.36	18.46	390	20.69
1960	1704	6,690	Mar. 3, 1960	23	365	1.43	19.42	-	-

4017. Ohatchee Creek at Reads, Ala.

Location.--Lat 33°52'14", long 85°54'01", in NE $\frac{1}{4}$ sec.28, T.13 S., R.7 E., on left bank 50 ft upstream from Louisville & Nashville Railroad bridge and 100 ft downstream from county highway bridge at Reads.

Drainage area.--44.2 sq mi.

Records available.--August 1956 to October 1960.

Gage.--Water-stage recorder. Datum of gage is 527.20 ft above mean sea level, datum of 1929.

Extremes.--1956-60: Maximum discharge, 2,290 cfs Apr. 5, 1957 (gage height, 9.1 ft, from floodmark); minimum, 7.0 cfs Sept. 24, 1956, Jan. 3, 4, 1957.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	-	8.88	-
1957	8.45	11.8	11.1	35.8	114	93.1	152	24.3	34.7	25.0	12.2	13.8	44.0
1958	26.9	93.9	96.1	45.7	89.2	93.2	75.0	23.7	17.4	29.2	15.3	41.7	53.6
1959	21.9	23.3	29.5	82.2	135	102	54.4	47.9	32.1	15.7	15.7	14.2	47.3
1960	13.1	22.2	21.4	71.3	87.8	184	62.7	22.4	14.7	12.1	29.4	19.4	46.7

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	-	0.22	-
1957	0.22	0.30	0.29	0.93	2.68	2.43	3.83	0.63	0.88	0.65	0.32	.35	13.51
1958	.70	2.37	2.51	1.19	2.10	2.43	1.89	.62	.44	.76	.40	1.05	16.46
1959	.57	.59	.77	2.14	3.19	2.65	1.37	1.25	.81	.41	.41	.36	14.52
1960	.34	.56	.56	1.86	2.14	4.80	1.58	.58	.37	.32	.77	.49	14.37

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1956	1624	-	-	-	-	-	-	-	-
1957	1624, 1704	2,290	Apr. 5, 1957	7.0	44.0	0.995	13.51	59.5	18.28
1958	1624, 1704	1,080	Sept. 21, 1958	12	53.6	1.21	16.46	41.7	12.81
1959	1624, 1704	1,040	Feb. 13, 1959	12	47.3	1.07	14.52	45.8	14.05
1960	1704	1,710	Mar. 3, 1960	11	46.7	1.06	14.37	-	-

4018. Tallahatchee Creek near Wellington, Ala.

Location.--Lat 33°48'57", long 85°52'22", in NE $\frac{1}{4}$ sec.14, T.14 S., R.7 E., on left bank at upstream side of abandoned covered bridge, 100 ft upstream from bridge on Calhoun County Road 25, three-quarters of a mile downstream from Angel Creek, and 1 mile east of Wellington.

Drainage area.--88.6 sq mi.

Records available.--August 1956 to October 1960.

Gage.--Water-stage recorder. Datum of gage is 524.32 ft above mean sea level, datum of 1929 (levels by county engineer, Calhoun County).

Extremes.--1956-60: Maximum discharge, 3,480 cfs Sept. 21, 1958 (gage height, 15.2 ft), from rating curve extended above 1,600 cfs on basis of velocity-area study; minimum daily, 26 cfs Oct. 26, Nov. 4, 1956.

Remarks.--Diurnal fluctuation and some regulation at low flow by Leydon Mill above station. Records of water temperatures for period August 1958 to September 1959 are given in WSP 1641, and for the water year 1960 in WSP 1741.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	-	33.8	-
1957	31.1	34.0	41.8	133	229	213	340	141	113	76.4	45.7	52.9	120
1958	88.0	199	216	115	222	208	221	108	77.2	141	59.5	162	151
1959	124	65.6	70.9	137	243	180	115	94.0	98.1	57.9	53.2	54.7	107
1960	60.0	60.6	54.8	148	223	341	133	68.1	53.0	41.3	51.7	66.6	108

Monthly and yearly runoff, in inches, of Tallahatchee Creek near Wellington, Ala.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	-	0.43	-
1957	0.40	0.43	0.54	1.73	2.69	2.77	4.29	1.84	1.42	0.99	0.60	.67	18.37
1958	1.15	2.51	2.81	1.50	2.61	2.71	2.78	1.40	1.97	1.83	.77	2.04	23.08
1959	1.61	.83	.92	1.79	2.85	2.35	1.45	1.22	1.24	.75	.69	.69	16.39
1960	.78	.76	.71	1.92	2.71	4.44	1.67	.89	.67	.54	.67	.84	16.60

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1957	1504, 1704	3,240	Apr. 5, 1957	26	120	1.35	18.37	153	23.47
1958	1554	3,480	Sept. 21, 1958	44	151	1.70	23.08	130	19.97
1959	1624	1,810	Oct. 1, 1958	44	107	1.21	16.39	99.8	15.28
1960	1704	1,560	Mar. 3, 1960	36	108	1.22	16.60	-	-

4032. Choccolocco Creek at Choccolocco, Ala.

Location.--Lat 33°39'48", long 85°41'16", in SE $\frac{1}{4}$ sec.3, T.16 S., R.9 E., on left bank at upstream side of highway bridge, five-eighths of a mile east of Choccolocco and 1.1 miles downstream from Southern Railway bridge.

Drainage area.--129 sq mi.

Records available.--August 1956 to October 1960.

Gage.--Water-stage recorder. Datum of gage is 643.61 ft above mean sea level, datum of 1929.

Extremes.--1956-60: Maximum discharge, 6,860 cfs Apr. 5, 1957 (gage height, 11.95 ft); minimum, 15 cfs Sept. 15, 16, 17, 18, 1956.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	-	21.0	-
1957	23.5	32.9	66.1	185	292	261	475	179	110	73.5	25.7	90.9	148
1958	123	289	297	187	354	343	387	122	76.0	92.5	44.1	139	200
1959	156	64.0	74.8	205	330	206	163	180	151	49.7	35.2	42.3	137
1960	41.9	43.4	52.8	182	266	370	142	64.6	43.8	28.7	44.7	37.1	109

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	-	0.18	-
1957	0.21	0.28	0.59	1.48	2.36	2.33	4.11	1.60	0.95	0.66	0.23	.79	15.59
1958	1.10	2.32	2.65	1.49	2.86	3.06	3.35	1.09	.66	.83	.39	1.21	21.01
1959	1.40	.55	.67	1.83	2.66	1.84	1.41	1.61	1.30	.44	.31	.37	14.39
1960	.37	.38	.47	1.63	2.23	3.31	1.23	.58	.38	.26	.40	.32	11.56

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1956	1504	-	-	-	-	-	-	-	-
1957	1504	6,860	Apr. 5, 1957	17	148	1.15	15.59	196	20.58
1958	1554	3,920	Sept. 22, 1958	21	200	1.55	21.01	167	17.56
1959	1624	3,120	May 31, 1959	27	137	1.06	14.39	124	12.99
1960	1704	1,620	Jan. 31, 1960	22	109	.845	11.56	-	-

4035. Coldwater Spring near Anniston, Ala.

Location.--Lat 33°36', long 85°55', in SE $\frac{1}{4}$ sec.29, T.16 S., R.7 E., in pool of Coldwater Spring, 200 ft upstream from Coldwater Creek, 2 miles upstream from Choccolocco Creek, and 7 miles southwest of Anniston.

Records available.--July 1944 to March 1947, April 1957 to September 1960.

Gage.--Water-stage recorder and sharp-crested weir. Altitude of gage is 590 ft (from topographic map). July 1, 1944, to Mar. 31, 1947, staff gage at same site and datum.

Average discharge.--5 years (1944-46, 1957-60), 45.8 cfs.

Extremes.--1944-47, 1957-60: Maximum discharge for 5-day period, 59.3 cfs Apr. 1-5, 1946; minimum discharge for 5-day period, 37.3 cfs Dec. 21-25, 1944.

Remarks.--Records of discharge include flow over weir and diversion from pool of an average of 14 cfs for municipal water supply for city of Anniston as determined by venturi-meter readings furnished by Anniston Water Department.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	48.1	45.6	44.6	44.5	42.5	40.1	-
1958	43.2	42.1	46.9	48.1	50.9	51.7	51.4	51.1	48.5	49.2	47.9	45.3	48.0
1959	44.7	43.7	43.1	43.7	47.9	49.9	50.3	48.7	47.5	45.5	43.7	42.2	45.9
1960	41.0	39.5	38.2	39.9	44.8	49.0	49.3	45.9	43.8	42.1	40.8	38.3	42.7

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1957	1554	-	-	-	-	-	-	-	-
1958	1554	54	May 5, 1958	39	48.0	-	-	48.0	-
1959	1624	51	(a)	41	45.9	-	-	44.8	-
1960	1704	51	(b)	37	42.7	-	-	-	-

a Mar. 11, 20, 21, 24, 25, 27, Apr. 1, 16-22, 27, 28, 1959.

b Mar. 16, 18, 19, 1960.

4040. Choccolocco Creek near Jenifer, Ala.

Location.--Lat 33°34', long 85°56', in NW $\frac{1}{4}$ sec.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 $\frac{1}{2}$ miles north of Jenifer.

Drainage area.--281 sq mi.

Records available.--August 1903 to February 1908, May 1929 to March 1932, May 1935 to September 1960.

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.--31 years (1903-7, 1929-31, 1935-60), 383 cfs.

Extremes.--1903-8, 1928-32, 1935-60: Maximum discharge, 21,900 cfs Feb. 4, 1936 (gage height, 17.2 ft); minimum daily, 30 cfs Oct. 10, 1931.

Remarks.--Some diurnal fluctuation caused by milldams above station and diversion from Coldwater Spring (averaging about 14 cfs) for municipal water supply for city of Anniston.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	142	138	168	249	545	1,580	963	269	172	232	156	161	397
1952	125	212	1,065	590	518	1,562	404	233	179	118	134	119	440
1953	98.0	117	186	1,189	751	575	420	550	187	174	111	96.6	370
1954	95.2	115	345	963	330	344	283	235	174	105	86.8	63.2	262
1955	64.1	79.3	116	278	639	460	1,109	274	199	187	129	72.4	297
1956	72.4	99.7	94.9	107	800	974	797	214	140	116	82.2	69.1	295
1957	54.7	78.2	134	323	601	612	1,240	397	282	180	82.1	192	345
1958	322	487	619	370	730	698	848	296	204	278	144	219	432
1959	272	150	167	386	646	482	384	307	473	163	107	110	301
1960	140	134	168	374	709	794	357	203	144	109	128	137	282

Monthly and yearly runoff, in inches, of Choocolocco Creek near Jenifer, Ala.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.58	0.55	0.69	1.02	2.02	6.48	3.82	1.10	0.68	0.95	0.64	0.64	19.17
1952	.51	.84	4.37	2.42	1.99	6.41	1.60	.98	.71	.48	.55	.47	21.31
1953	.40	.46	.76	4.88	2.78	2.36	1.67	2.26	.74	.71	.45	.38	17.85
1954	.39	.46	1.41	3.95	1.22	1.41	1.12	.96	.69	.43	.36	.25	12.65
1955	.26	.31	.48	1.14	2.37	1.89	4.40	1.12	.79	.77	.53	.29	14.35
1956	.30	.40	.39	.44	3.07	3.99	3.16	.88	.55	.48	.34	.27	14.27
1957	.22	.31	.55	1.53	2.23	2.51	4.92	1.63	1.12	.74	.34	.76	16.66
1958	1.32	1.95	2.54	1.52	2.71	2.88	3.37	1.21	.81	1.14	.59	.87	20.87
1959	1.12	.59	.68	1.58	2.39	1.98	1.52	1.26	1.88	.67	.44	.44	14.55
1960	.58	.53	.69	1.53	2.72	3.26	1.42	.83	.57	.45	.52	.55	13.65

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	1204	-	-	-	-	-	-	270	13.01
1951	1204	20,400	Mar. 29, 1951	93	597	1.41	19.17	478	23.07
1952	1234	9,770	Mar. 23, 1952	92	440	1.57	21.31	356	17.21
1953	1274	8,440	Jan. 10, 1953	75	370	1.32	17.85	383	18.49
1954	1334	7,950	Jan. 17, 1954	56	262	.932	12.65	237	11.44
1955	1384	6,070	Apr. 14, 1955	59	297	1.06	14.35	298	14.39
1956	1434	6,630	Mar. 16, 1956	53	295	1.05	14.27	295	14.26
1957	1504	11,800	Apr. 5, 1957	47	345	1.23	16.66	442	21.37
1958	1554	4,800	Apr. 16, 1958	106	452	1.54	20.87	362	17.47
1959	1624	3,300	June 1, 1959	73	301	1.07	14.55	289	13.96
1960	1704	2,220	Feb. 1, 1960	78	282	1.00	13.65	-	-

4045. Choocolocco Creek near Lincoln, Ala.

Location--Lat 33°34', long 86°08', in SW¹ sec.9, T.17 S., R.5 E., on right bank at downstream side of bridge on Highway 77 (formerly 102), three-eighths of a mile downstream from Schmidts mill, 4 miles south of Lincoln, 6 miles upstream from mouth, and 8 miles north of Talladega.

Drainage area--499 sq mi.

Records available--October 1938 to September 1953, water years 1954-60 (annual maximum).

Gage--Crest-stage gage. Datum of gage is 448.46 ft above mean sea level, datum of 1929. Prior to June 4, 1939, staff gage at site 1,000 ft upstream at same datum. June 5, 1939, to Sept. 30, 1953, water-stage recorder at present site and datum.

Average discharge--15 years (1938-53), 709 cfs.

Extremes--1938-60: Maximum discharge, 49,300 cfs Mar. 29, 1951 (gage height, 25.5 ft).

1938-53: Minimum discharge, 66 cfs Oct. 1, 1941 (gage height, 0.28 ft); minimum daily, 151 cfs Oct. 10, 12, 1938.

Maximum stage known, about 27.5 ft in 1886, from floodmarks, at site used from October 1938 to June 1939.

Remarks--Diurnal fluctuation and some regulation at low flow caused by small mills and diversion for municipal water supply for city of Anniston above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	240	238	286	414	860	3,008	1,855	526	300	411	269	284	724
1952	211	326	1,614	938	909	2,406	736	430	326	217	304	219	722
1953	174	198	321	2,053	1,389	1,091	895	1,011	367	317	216	181	682

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.56	0.53	0.66	0.96	1.79	6.95	4.15	1.21	0.67	0.95	0.62	0.64	19.69
1952	.49	.73	3.73	2.17	1.96	5.56	1.64	.99	.73	.50	.70	.49	19.69
1953	.40	.44	.74	4.74	2.90	2.52	2.00	2.34	.82	.73	.50	.40	18.53

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	487	13.17
1951	1204	49,300	Mar. 29, 1951	179	724	1.45	19.69	841	22.89
1952	1234	13,200	Mar. 23, 1952	185	722	1.45	19.69	599	16.32
1953	1274	11,800	Jan. 10, 1953	154	682	1.37	18.53	-	-
1954	-	7,780	Jan. 17, 1954	-	-	-	-	-	-
1955	-	13,200	Apr. 13, 1955	-	-	-	-	-	-
1956	-	12,500	Mar. 16, 1956	-	-	-	-	-	-
1957	-	17,900	Apr. 5, 1957	-	-	-	-	-	-
1958	-	6,610	Feb. 8, 1958	-	-	-	-	-	-
1959	-	3,220	June 1, 1959	-	-	-	-	-	-
1960	-	3,670	Feb. 1, 1960	-	-	-	-	-	-

4050. 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 34, 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), October 1941 to September 1958. Monthly discharge only for period October 1941 to March 1942, published in WSP 1304. 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.--17 years (1941-58), 12,570 cfs.

Extremes.--1942-58: 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.--Since December 1949, flow regulated by Allatoona Reservoir on Etowah River.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	5,612	5,723	7,258	10,120	16,010	26,650	44,540	8,285	5,908	6,980	4,465	4,330	12,090
1952	3,861	8,361	32,440	23,570	19,450	59,420	14,790	7,448	6,717	4,010	5,706	4,831	14,250
1953	3,863	4,627	9,412	28,510	28,240	20,740	10,650	18,650	5,734	6,522	4,141	3,616	11,990
1954	3,029	3,495	9,844	33,410	12,560	15,700	14,140	8,405	6,161	3,585	2,971	2,543	9,663
1955	2,632	2,889	4,584	10,170	23,900	17,440	23,020	10,110	5,294	4,755	3,768	2,566	9,148
1956	2,927	4,340	4,565	3,631	29,680	23,320	26,210	9,051	4,426	4,623	3,187	2,938	9,804
1957	3,125	5,334	6,724	10,300	32,380	17,330	28,720	8,288	7,385	4,872	2,932	4,498	10,640
1958	9,329	22,460	21,640	12,000	16,800	19,930	17,500	15,190	5,659	11,180	5,145	5,320	13,490
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	12,160	-
1951	1204	126,000	Mar. 30, 1951	2,540	12,090	-	-	14,300	-
1952	1234	75,200	Dec. 21, 1951	2,700	14,250	-	-	11,990	-
1953	1274	74,000	Jan. 10, 1953	2,400	11,990	-	-	11,860	-
1954	1334	70,500	Jan. 17, 18, 1954	1,950	9,663	-	-	9,133	-
1955	1384	59,200	Feb. 8, 1955	1,950	9,148	-	-	9,291	-
1956	1434	55,600	Mar. 17, 1956	2,100	9,804	-	-	9,922	-
1957	1504	77,000	Apr. 6, 1957	1,950	10,640	-	-	14,010	-
1958	1554	47,800	Nov. 23, 1957	2,480	13,490	-	-	-	-
1959	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-

Note.--Monthly and yearly figures of discharge per square mile and runoff in inches since December 1949, previously published in some water-supply papers, may be in error because of regulation above station; those figures are not published herein.

4055. 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 53, 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--192 sq mi.

Records available--November 1951 to September 1960.

Gage--Water-stage recorder. Datum of gage is 404.09 ft above mean sea level, datum of 1929.

Average discharge--8 years (1952-60), 281 cfs.

Extremes--1951-60: Maximum discharge, 10,500 cfs Feb. 7, 1955 (gage height, 20.86 ft); minimum, 1.2 cfs Oct. 26, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	1,282	599	459	1,081	191	40.1	16.3	7.32	114	28.3	-
1953	21.0	31.9	418	1,466	928	566	378	544	53.2	62.4	10.0	7.16	372
1954	4.70	5.59	508	929	398	371	261	141	28.5	27.1	9.77	2.58	224
1955	1.78	4.50	55.6	455	1,133	556	1,032	87.9	32.1	62.1	57.6	3.25	283
1956	3.02	23.0	54.3	63.8	1,176	924	664	68.1	17.5	20.9	3.06	2.65	247
1957	2.37	5.36	62.8	401	777	556	1,124	185	95.7	55.4	6.85	152	280
1958	148	610	514	333	790	660	337	236	30.7	452	65.9	39.2	349
1959	64.4	102	114	570	616	727	272	304	262	14.9	7.60	25.6	255
1960	48.6	218	165	610	606	868	229	33.7	16.6	5.67	40.5	20.4	238

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	7.70	3.60	2.58	6.49	1.11	0.24	0.09	0.04	0.68	0.16	-
1953	0.13	0.19	2.51	8.80	5.03	3.40	2.20	3.27	.31	.37	.06	.04	26.31
1954	.03	.03	3.05	5.58	2.16	2.23	1.52	.85	.16	.16	.06	.02	15.85
1955	.01	.03	.33	2.73	6.14	3.34	6.00	.53	.19	.37	.34	.02	20.03
1956	.02	.13	.33	.38	6.61	5.55	3.86	.41	.10	.13	.02	.02	17.56
1957	.01	.03	.38	2.41	4.21	3.34	6.53	1.11	.56	.33	.04	.98	19.83
1958	.89	3.54	3.09	2.00	4.28	3.96	1.96	1.42	.18	2.71	.40	.23	24.66
1959	.39	.59	.68	3.42	3.34	4.36	1.58	1.83	1.52	.09	.05	.15	18.00
1960	.29	1.27	.99	3.66	3.41	5.21	1.33	.20	.10	.03	.24	.12	16.85

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day.	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234	8,770	Dec. 21, 1951	-	-	-	-	251	17.82
1953	1274	9,970	Jan. 10, 1953	3.7	372	1.94	26.31	376	26.59
1954	1334	7,190	Jan. 17, 1954	1.7	224	1.17	15.85	185	13.11
1955	1384	10,500	Feb. 7, 1955	1.6	283	1.47	20.03	285	20.14
1956	1434	6,000	Mar. 16, 1956	2.4	247	1.29	17.56	247	17.50
1957	1504	9,840	Apr. 5, 1957	2.0	280	1.46	19.83	381	26.93
1958	1554	5,040	Feb. 7, 1958	5.7	349	1.82	24.66	266	18.80
1959	1624	3,730	Jan. 22, 1959	4.2	255	1.33	18.00	267	18.89
1960	1704	3,880	Mar. 3, 1960	2.6	238	1.24	16.85	-	-

4058. Talladega Creek above Talladega, Ala.

Location.--Lat 33°22'30", long 86°01'20", in W $\frac{1}{2}$ sec.16, T.19 S., R.6 E., on right bank 300 ft upstream from Mump Creek, half a mile upstream from bridge on State Highway 77, and 6 miles southeast of Talladega.

Drainage area.--67.3 sq mi.

Records available.--May 1959 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 630 ft (from topographic map).

Extremes.--1959-60: Maximum discharge, 1,050 cfs Jan. 30, 1960; minimum, 8.3 cfs Sept. 14-16, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	70.0	49.4	25.1	28.2	-
1960	40.2	27.8	38.3	137	166	213	118	47.9	26.5	13.3	17.2	58.3	73.3

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	1.18	0.85	0.43	0.43	-
1960	0.69	0.46	0.66	2.34	2.66	2.64	1.96	0.82	.44	.23	.29	.63	14.82

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	1624	-	-	-	-	-	-	-	-
1960	1704	1,050	Jan. 30, 1960	8.3	73.3	1.09	14.82	-	-

4060. Talladega Creek near Talladega, Ala.

Location.--Lat 33°23'20", long 86°06'45", in SW $\frac{1}{4}$ sec.10, T.19 S., R.5 E., near right bank on downstream side of pier of bridge on county road, half a mile upstream from Weisinger Branch, 2 miles upstream from U.S. Highway 231 (alternate), 2 $\frac{1}{2}$ miles downstream from Dry Creek, and 3 $\frac{1}{4}$ miles south of Talladega.

Drainage area.--98.4 sq mi.

Records available.--September 1952 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 500 ft (by barometer).

Average discharge.--8 years (1952-60), 113 cfs.

Extremes.--1952-60: Maximum discharge, 8,450 cfs Mar. 16, 1956 (gage height, 14.6 ft); minimum daily, 0.2 cfs Oct. 11-14, 1954.

Flood in March 1951 reached a stage of approximately 19 ft, from floodmarks (discharge, 33,000 cfs, from valley-conveyance study).

Remarks.--Diurnal fluctuation at low flows caused by diversion of an average of 2.5 cfs for municipal water supply for city of Talladega.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	16.1	25.9	91.8	361	330	220	345	266	65.9	49.0	23.6	23.3	150
1954	14.3	19.9	116	143	103	119	96.7	60.9	29.8	12.8	4.80	2.37	60.1
1955	.76	3.66	34.0	118	215	185	518	103	68.4	44.5	29.7	8.59	109
1956	12.3	32.2	36.6	39.0	411	563	374	93.4	51.0	26.3	18.7	14.8	138
1957	15.1	30.4	87.5	175	121	208	492	170	200	70.5	22.1	62.7	137
1958	73.2	159	216	130	312	270	212	80.7	47.9	51.5	22.8	17.9	132
1959	28.5	30.8	35.2	120	147	224	150	110	90.1	55.7	26.6	28.3	86.8
1960	44.3	30.4	43.4	164	221	278	145	56.8	29.4	13.1	17.0	41.7	89.9

Monthly and yearly runoff, in inches, of Talladega Creek near Talladega, Ala.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	0.19	0.29	1.08	4.23	3.49	2.57	3.91	3.11	0.75	0.57	0.28	0.26	20.73
1954	.17	.23	1.36	1.68	1.09	1.39	1.10	.71	.34	.15	.06	.03	8.31
1955	.009	.04	.40	1.38	2.28	2.17	5.88	1.21	.78	.52	.35	.10	15.12
1956	.14	.36	.43	.46	4.51	6.60	4.24	1.10	.58	.31	.22	.17	19.12
1957	.19	.34	1.02	2.05	1.28	2.43	5.57	1.99	2.27	.83	.26	.71	18.93
1958	.86	1.80	2.56	1.53	3.30	3.16	2.40	.95	.54	.60	.27	.20	18.15
1959	.33	.35	.41	1.40	1.56	2.62	1.71	1.29	1.02	.65	.31	.32	11.98
1960	.52	.34	.51	1.92	2.42	3.25	1.65	.67	.33	.15	.20	.47	12.43

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1274	-	-	-	-	-	-	-	-
1953	1274	3,750	Apr. 12, 1953	8.6	†150	1.52	20.73	152	20.94
1954	1334	950	Jan. 22, 1954	1.4	60.1	.611	8.31	50.6	7.00
1955	1384	6,040	Apr. 13, 1955	.2	109	1.11	15.12	115	15.60
1956	1434	8,450	Mar. 16, 1956	4.5	138	1.40	19.12	142	19.73
1957	1504	7,770	Apr. 5, 1957	6.0	137	1.39	18.93	164	22.59
1958	1554	4,880	Feb. 6, 1958	5.8	132	1.34	18.15	102	14.04
1959	1625	1,620	Jan. 21, 1959	11	86.8	.882	11.97	88.8	12.25
1960	1704	1,330	Jan. 31, 1960	6.9	89.9	.914	12.43	-	-

† Corrected.

4065. Talladega Creek at Alpine, Ala.

Location.--Lat 33°21', long 86°14', in SE¼ sec.21, T.19 S., R.4 E., on left bank at downstream side of pier of highway bridge, half a mile downstream from Southern Railway bridge, 1 mile north of Alpine, 9 miles southwest of Talladega, and 11 miles upstream from mouth.

Drainage area.--148 sq mi (revised).

Records available.--August 1900 to December 1904, January 1939 to December 1951, water years 1952-60 (annual maximum). Published as "at Nottingham" 1900-1904. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Crest-stage gage. Datum of gage is 431.34 ft above mean sea level, datum of 1929. Aug. 16, 1900, to Dec. 31, 1904, staff gage 50 ft above Southern Railway bridge half a mile upstream at different datum. Jan. 7 to May 16, 1939, staff gage at present site and datum. May 17, 1939, to Dec. 31, 1951, water-stage recorder at present site and datum.

Average discharge.--17 years (1900-1904, 1938-51), 240 cfs.

Extremes.--1900-1904, 1939-60: Maximum discharge, 39,000 cfs Mar. 29, 1951 (gage height, 16.6 ft), from rating curve extended above 14,000 cfs on basis of slope-area measurement of peak flow.

1900-1904, 1939-51: Minimum daily discharge, 20 cfs June 18, 1904.

Remarks.--Some diurnal fluctuation and occasional regulation at low flow caused by gristmill above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	110	94.7	114	160	223	976	614	218	150	172	80.8	89.0	250
1952	77.7	98.8	452	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.85	0.71	0.88	1.25	1.57	7.60	4.63	1.70	1.13	1.34	0.63	0.67	22.96
1952	.61	.74	3.52	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	182	16.72
1951	1204	39,000	Mar. 29, 1951	62	250	1.69	22.96	277	25.39
1952	1204	4,750	Dec. 21, 1951	-	-	-	-	-	-
1953	-	3,080	Jan. 8, 1953	-	-	-	-	-	-
1954	-	980	Jan. 23, 1954	-	-	-	-	-	-
1955	-	8,100	Apr. 13, 1955	-	-	-	-	-	-
1956	-	9,800	Mar. 16, 1956	-	-	-	-	-	-
1957	-	10,500	Apr. 5, 1957	-	-	-	-	-	-
1958	-	4,630	Feb. 6, 1958	-	-	-	-	-	-
1959	-	1,480	Jan. 22, 1959	-	-	-	-	-	-
1960	-	1,410	Jan. 31, 1960	-	-	-	-	-	-

MOBILE RIVER BASIN

4070. 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 at Central of Georgia Railway bridge, 700 ft upstream from bridge on State Highway 38, half a mile downstream from Tallasseehattee Creek, and 1 mile northwest of Childersburg.

Drainage area.--8,390 sq mi, approximately.

Records available.--October 1913 to September 1960. Monthly discharge only for some periods published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 382.42 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.--47 years (1913-60), 13,450 cfs.

Extremes.--1914-60: Maximum discharge, 146,000 cfs Mar. 30, 31, 1951 (gage height, 30.1 ft); minimum, 1,300 cfs in September 1925.

Remarks.--Since December 1949, flow regulated by Allatoona Reservoir on Etowah River.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6,005	5,914	7,563	11,070	17,250	29,760	47,770	9,435	6,620	7,869	4,931	4,745	13,180
1952	3,978	8,955	33,630	24,130	20,430	40,310	15,910	8,415	7,440	4,363	6,050	5,126	14,950
1953	3,845	4,438	9,920	30,940	29,230	22,310	12,600	20,140	6,620	7,202	4,375	3,921	12,890
1954	3,601	3,826	10,850	33,860	13,890	16,230	14,920	9,234	6,623	4,035	3,209	2,731	10,260
1955	2,727	2,881	4,426	11,460	24,900	18,610	26,230	10,770	6,364	5,663	4,433	2,628	9,976
1956	2,792	4,269	4,698	3,436	30,560	25,920	27,870	9,621	4,527	4,890	3,297	2,908	10,290
1957	3,270	3,054	5,668	11,260	31,920	18,550	31,790	9,679	8,536	5,925	3,074	5,356	11,450
1958	10,240	22,790	22,370	13,050	18,740	20,980	18,330	15,690	6,050	12,200	5,703	5,353	14,270
1959	5,597	4,560	5,345	12,430	18,380	17,300	16,040	9,101	12,610	5,062	3,819	4,162	9,463
1960	4,376	7,909	10,540	14,190	23,730	27,710	15,290	6,632	4,274	3,920	4,794	4,175	10,590

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	12,770	-
1951	1204	146,000	Mar. 30, 1951	2,850	13,180	-	-	15,470	-
1952	1234	86,200	Dec. 22, 1951	2,850	14,930	-	-	12,540	-
1953	1274	85,100	Jan. 11, 1953	2,720	12,890	-	-	12,900	-
1954	1334	72,200	Jan. 18, 1954	2,050	10,260	-	-	9,559	-
1955	1384	72,800	Apr. 14, 1955	2,220	9,976	-	-	10,120	-
1956	1434	75,400	Mar. 17, 1956	1,830	10,290	-	-	10,420	-
1957	1504	90,900	Apr. 6, 1957	2,080	11,430	-	-	14,960	-
1958	1554	49,200	Nov. 23, 1957	2,460	14,270	-	-	10,930	-
1959	1624	44,400	Feb. 16, 1959	2,760	9,463	-	-	10,080	-
1960	1704	51,600	Mar. 4, 1960	2,270	10,590	-	-	-	-

Note.--Monthly and yearly figures of discharge per square mile and runoff in inches for the period December 1949 to September 1956, previously published in water-supply papers, may be in error because of regulation above station; those figures are not published herein.

4075. 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, 3½ miles south of U.S. Highway 280, 4 miles upstream from Muddy Prong, and 6 miles northwest of Wilsonville.

Drainage area.--97.2 sq mi.

Records available.--December 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 430.56 ft above mean sea level, datum of 1929.

Average discharge.--9 years (1951-60), 133 cfs.

Extremes.--1950-60: 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 measurement of peak flow. No flow July 31, Aug. 1, 3-6, 1952, Oct. 3-28, Nov. 7-10, 21-29, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	187	309	974	462	43.3	7.27	64.5	2.94	18.3	-
1952	7.56	25.7	478	234	241	542	138	19.6	7.79	6.67	15.7	3.28	144
1953	1.25	2.91	103	689	484	315	301	340	29.5	46.1	5.38	2.21	192
1954	1.31	2.15	195	285	175	199	108	52.6	13.5	3.18	1.63	.56	86.3
1955	.023	.313	4.88	180	458	210	619	128	31.8	56.2	17.0	.50	138
1956	.68	5.79	24.5	23.2	606	568	442	31.6	5.48	2.73	.69	.93	140
1957	.40	2.31	18.5	94.9	256	233	583	117	60.1	62.6	1.16	75.7	124
1958	81.9	324	276	178	419	363	167	111	17.1	150	26.3	7.04	175
1959	26.1	20.4	28.8	187	292	362	152	91.1	87.2	5.29	2.52	4.10	104
1960	3.15	38.2	46.2	247	279	394	116	15.1	5.44	3.15	8.33	1.63	96.1

Monthly and yearly runoff, in inches, of Yellowleaf Creek near Wilsonville, Ala.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	2.22	3.31	11.56	5.30	0.51	0.08	0.76	0.03	0.21	-
1952	0.09	0.29	5.67	2.78	2.68	6.43	1.58	.23	.09	.08	.19	.04	20.15
1953	.01	.03	1.22	8.17	5.19	3.74	3.45	4.04	.34	.55	.06	.03	26.83
1954	.02	.02	2.31	3.58	1.87	2.36	1.24	.62	.16	.04	.02	.006	12.05
1955	.0005	.004	.06	2.14	4.91	2.49	7.10	1.51	.36	.43	.20	.006	19.21
1956	.008	.07	.29	.28	6.72	6.74	5.07	.37	.06	.03	.008	.01	19.66
1957	.005	.03	.22	1.13	2.74	2.76	6.69	1.39	.69	.74	.01	.87	17.28
1958	.97	5.72	3.27	2.12	4.49	4.31	1.91	1.32	.20	1.78	.31	.08	24.48
1959	.31	.23	.34	2.22	3.13	4.29	1.74	1.08	1.00	.06	.03	.05	14.48
1960	.04	.44	.55	2.93	3.09	4.68	1.33	.18	.06	.04	.10	.02	13.46

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	19,300	Mar. 29, 1951	-	-	-	-	215	30.03
1952	1234	4,190	Dec. 22, 1951	0	144	1.48	20.15	110	15.36
1953	1274	3,590	Jan. 9, 1953	.3	192	1.98	26.83	200	27.92
1954	1334	1,050	Jan. 17, 1954	.1	86.3	.888	12.05	69.6	9.76
1955	1384	3,210	Apr. 14, 1955	0	138	1.42	19.21	140	19.51
1956	1434	3,280	Mar. 16, 1956	.1	140	1.44	19.66	140	19.54
1957	1504	4,050	Apr. 5, 1957	.1	124	1.28	17.28	179	24.98
1958	1554	2,200	Feb. 7, 1958	1.0	175	1.80	24.48	125	17.40
1959	1624	982	Jan. 22, 1959	1.1	104	1.07	14.48	105	14.63
1960	1704	1,010	Mar. 16, 1960	.1	96.1	.989	13.46	-	-

4079. Paint Creek near Marble Valley, Ala.

Location.--Lat 33°02'20", long 86°25'30", in SE $\frac{1}{4}$ sec.25, T.24 N., R.16 E., on left bank 1,000 ft downstream from bridge on Coosa County Highway 56, 1.6 miles east of Marble Valley and 4 miles upstream from Crumpy Creek.

Drainage area.--13.5 sq mi.

Records available.--July 1959 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 480 ft (from topographic map).

Extremes.--1959-60: Maximum discharge, 424 cfs Mar. 29, 1960 (gage height, 4.26 ft); minimum daily, 0.2 cfs Sept. 14, 15, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	-	3.81	3.59	-
1960	4.21	3.71	5.74	15.9	20.9	33.0	22.1	7.18	3.76	1.72	2.68	2.07	10.2

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	-	0.32	0.30	-
1960	0.36	0.31	0.49	1.36	1.67	2.82	1.83	0.61	0.31	0.15	.23	.17	10.31

4085. Hatchet Creek near Rockford, Ala.

Location.--Lat 32°57', long 86°13', in NW $\frac{1}{4}$ sec.31, T.23 N., R.19 E., near left bank on downstream side of pier of bridge on county road, 1 mile downstream from U.S. Highway 231 (revised), $1\frac{1}{2}$ miles downstream from Socapatoy Creek, and 4 miles north of Rockford.

Drainage area.--244 sq mi.

Records available.--October 1944 to September 1960.

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.--16 years (1944-60), 349 cfs.

Extremes.--1944-60: Maximum discharge, 22,800 cfs Jan. 6, 1946 (gage height, 24.9 ft); minimum, 7 cfs Sept. 7, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	104	99.2	185	246	362	1,025	666	211	188	139	57.4	114	283
1952	83.1	171	720	496	453	1,239	433	375	215	87.9	170	86.0	379
1953	64.2	83.7	435	857	894	677	1,029	772	364	353	154	207	488
1954	92.6	103	445	350	307	396	398	222	134	74.8	40.2	12.5	214
1955	8.8	32.4	89.1	267	477	307	1,087	434	218	219	127	58.0	276
1956	53.8	110	121	110	735	1,111	968	278	161	124	61.8	59.9	322
1957	70.9	80.7	265	348	266	444	1,347	364	283	188	55.2	182	323
1958	127	363	465	289	544	622	577	236	210	197	98.1	84.4	316
1959	106	101	134	409	572	681	436	274	219	172	64.3	70.5	268
1960	143	99.1	146	413	538	777	578	194	111	78.9	78.5	119	272

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.49	0.45	0.87	1.16	1.55	4.84	3.05	1.00	0.86	0.66	0.27	0.52	15.72
1952	.39	.78	3.40	2.34	2.00	5.85	1.98	1.77	.98	.42	.80	.39	21.10
1953	.30	.38	2.06	4.05	3.82	3.20	4.70	3.65	1.66	1.67	.73	.95	27.17
1954	.44	.47	2.10	1.65	1.31	1.87	1.82	1.05	.61	.35	.19	.06	11.92
1955	.04	.15	.42	1.35	2.04	1.45	4.97	2.05	1.00	1.03	.60	.27	15.37
1956	.25	.50	.57	.52	3.25	5.25	4.42	1.31	.74	.58	.29	.27	17.95
1957	.34	.37	1.25	1.65	1.14	2.10	6.16	1.72	1.29	.89	.26	.83	18.00
1958	.60	1.66	2.20	1.37	2.32	2.94	2.64	1.11	.98	.93	.46	.39	17.58
1959	.50	.46	.63	1.93	2.44	3.22	1.99	1.30	1.00	.81	.30	.32	14.90
1960	.68	.45	.69	1.95	2.38	3.67	2.64	.92	.51	.37	.37	.55	15.18

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	256	14.28
1951	1204	18,600	Mar. 29, 1951	21	283	1.16	15.72	332	18.48
1952	1234	11,000	Dec. 21, 1951	37	379	1.55	21.10	346	19.27
1953	1274	7,160	Apr. 30, 1953	37	468	2.00	27.17	493	27.44
1954	1334	2,870	Apr. 16, 1954	10	214	.877	11.92	171	9.52
1955	1384	11,400	Apr. 13, 1955	8	276	1.13	15.37	289	16.08
1956	1434	15,600	Mar. 16, 1956	26	322	1.32	17.95	333	18.59
1957	1504	18,900	Apr. 5, 1957	22	323	1.32	18.00	368	20.50
1958	1554	5,060	Feb. 6, 1958	38	316	1.30	17.58	265	14.71
1959	1624	5,000	Jan. 22, 1959	37	268	1.10	14.90	272	15.13
1960	1704	5,120	Mar. 30, 1960	26	272	1.11	15.18	-	-

4090. 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 bridge on county road, 2 miles south of Weogufka and 6 miles upstream from Phinikochika Creek.

Drainage area.--73.6 sq mi.

Records available.--December 1950 to September 1958, water years 1959-60 (annual maximum).

Gage.--Crest-stage gage. Datum of gage is 593.08 ft above mean sea level, datum of 1929. Dec. 27, 1950, to Sept. 30, 1958, water-stage recorder at present site and datum.

Average discharge.--7 years (1951-58), 97.3 cfs.

Extremes.--1950-60: Maximum discharge, 24,200 cfs Mar. 29, 1951 (gage height, 16.8 ft). 1950-58: No flow Sept. 29 to Oct. 9, Oct. 16, 17, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	70.2	113	671	212	61.9	57.4	36.2	7.72	36.1	-
1952	16.7	44.5	233	191	152	395	120	118	36.4	11.8	40.4	16.2	115
1953	14.1	18.5	122	279	299	218	372	225	84.8	71.8	21.4	23.2	145
1954	10.9	17.5	122	99.1	93.3	110	93.2	38.0	27.7	11.5	3.74	1.21	52.2
1955	.45	2.03	23.8	73.1	141	87.0	405	110	49.5	57.0	15.4	5.29	79.9
1956	2.98	14.7	20.5	20.5	215	350	350	60.9	30.2	30.2	17.6	15.8	93.2
1957	10.6	18.3	73.0	74.9	64.0	138	479	216	80.5	58.1	5.57	41.9	105
1958	17.9	96.2	133	90.0	184	187	153	59.9	41.0	70.8	24.8	44.0	91.1
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	1.10	1.59	10.51	3.22	0.97	0.87	0.57	0.12	0.55	-
1952	0.26	0.67	3.64	2.99	2.23	6.19	1.83	1.85	.55	.18	.63	.24	21.26
1953	.22	.28	1.92	4.38	4.23	3.41	5.65	3.52	1.29	1.12	.33	.35	26.70
1954	.17	.27	1.92	1.55	1.32	1.73	1.41	.59	.42	.18	.06	.02	9.64
1955	.007	.03	.37	1.15	1.99	1.36	6.14	1.73	.75	.89	.24	.08	14.74
1956	.05	.22	.32	.32	3.15	5.48	5.30	.95	.46	.47	.28	.24	17.23
1957	.17	.28	1.14	1.17	.91	2.16	7.27	3.38	1.22	.91	.09	.64	19.34
1958	.28	1.46	2.08	1.41	2.60	2.93	2.32	.94	.62	1.11	.39	.67	16.81
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	24,200	Mar. 29, 1951	-	-	-	-	131	24.07
1952	1234	3,220	Dec. 21, 1951	3.6	115	1.56	21.26	103	19.11
1953	1274	2,700	Apr. 30, 1953	3.4	145	1.97	26.70	144	26.64
1954	1334	858	Mar. 27, 1954	0	52.2	.709	9.64	41.7	7.69
1955	1384	5,100	Apr. 14, 1955	0	79.9	1.09	14.74	80.9	14.92
1956	1434	4,450	Mar. 16, 1956	1.2	93.2	1.27	17.23	98.6	18.24
1957	1504	6,600	Apr. 5, 1957	1.4	105	1.43	19.34	117	21.57
1958	1554	1,800	Feb. 7, 1958	10	91.1	1.24	16.81	-	-
1959	-	1,680	Jan. 21, 1959	-	-	-	-	-	-
1960	-	1,370	Mar. 30, 1960	-	-	-	-	-	-

4100. Sofkahatchee Creek near Wetumpka, Ala.

Location.--Lat 32°41', long 86°07', in NW $\frac{1}{4}$ sec.36, T.20 N., R.19 E., near right bank on upstream side of pier of bridge on county road, 2 miles west of Central and 11 miles northeast of Wetumpka.

Drainage area.--5.1 sq mi, approximately.

Records available.--October 1953 to September 1960.

Gage.--Water-stage recorder. Concrete control since Oct. 24, 1953. Altitude of gage is 440 ft (by barometer).

Average discharge.--7 years (1953-60), 5.11 cfs.

Extremes.--1953-60: Maximum discharge, 856 cfs Feb. 6, 1958, Mar. 29, 1960; maximum gage height, 7.20 ft Feb. 6, 1958; minimum daily discharge, 0.02 cfs Sept. 25, Oct. 3-5, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	2.33	2.07	9.83	5.18	6.02	6.94	7.37	4.13	2.80	1.71	0.408	0.076	4.07
1955	.143	.710	1.15	3.86	7.43	4.84	13.3	3.55	2.44	3.12	1.45	.680	3.51
1956	.760	1.48	1.55	1.77	11.4	15.2	12.1	3.28	1.92	3.24	.940	2.99	4.69
1957	2.01	2.48	8.74	7.21	5.47	7.49	24.1	5.21	2.64	2.71	.393	2.91	5.93
1958	2.85	6.51	7.93	6.21	15.9	15.9	9.04	4.85	3.49	6.07	2.56	2.11	6.90
1959	1.86	2.11	2.78	5.15	10.6	9.68	6.67	5.05	6.97	2.16	.951	.844	4.52
1960	1.94	1.95	2.50	10.6	9.79	17.3	16.7	4.49	2.59	1.85	2.21	1.95	6.14

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	0.53	0.45	2.22	1.17	1.23	1.57	1.61	0.93	0.61	0.39	0.09	0.02	10.82
1955	.03	.16	.26	.87	1.52	1.10	2.90	.80	.53	.70	.33	.15	9.35
1956	.17	.32	.35	.40	2.41	3.44	2.68	.74	.42	.73	.21	.65	12.50
1957	.45	.54	1.97	1.63	1.12	1.69	5.27	1.18	.58	.61	.09	.64	15.77
1958	.65	1.42	1.79	1.40	3.25	3.60	1.98	1.10	.76	1.37	.58	.46	18.36
1959	.42	.46	.63	1.17	2.16	2.19	1.46	1.14	1.53	.49	.21	.18	12.04
1960	.44	.43	.57	2.39	2.07	3.92	3.66	1.02	.57	.42	.50	.43	16.42

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1334	258	June 2, 1954	0.02	4.07	0.798	10.82	3.03	8.07
1955	1594	410	Feb. 6, 1955	.02	3.51	.688	9.35	3.66	9.74
1956	1434	640	Apr. 5, 1956	.15	4.69	.920	12.50	5.48	14.62
1957	1504, 1554	828	Apr. 4, 1957	.06	5.93	1.16	15.77	6.26	16.67
1958	1554	856	Feb. 6, 1958	.76	6.90	1.35	18.36	6.02	16.01
1959	1624	204	June 6, 1959	.34	4.52	.886	12.04	4.49	11.97
1960	1704	856	Mar. 29, 1960	.18	6.14	1.20	16.42	-	-

Reservoirs on Coosa River in Alabama

4079.5. Lay Lake.--Lat 32°58', long 86°31', in NE $\frac{1}{4}$ sec.24, T.23 N., R.15 E., at Lay Dam on Coosa River, half a mile upstream from Page Creek and 11 miles northeast of Clanton. Drainage area, 9,090 sq mi, approximately. Staff gage, altitude of gage is 350 ft (from topographic map).

Reservoir, completed April 1914, is formed by a concrete gravity-type dam equipped with 26 taintor gates 14 ft high by 30 ft wide. Usable capacity at elevation 420 ft (top of gates) is 48,000 acre-ft.

4094. Mitchell Lake.--Lat 32°48', long 86°26', in NE $\frac{1}{4}$ sec.15, T.21 N., R.16 E., at Mitchell Dam on Coosa River, 5 miles downstream from Hatchet Creek and 11 miles south-east of Clanton. Drainage area, 9,830 sq mi, approximately. Staff gage, altitude of gage is 280 ft (from topographic map).

Reservoir, completed August 1923, is formed by concrete gravity-type dam equipped with 26 taintor gates 15 ft high by 30 ft wide. Usable capacity at elevation 350 ft (top of gates) is 54,000 acre-ft.

4104. Jordan Lake.--Lat 32°37', long 86°15', in N $\frac{1}{2}$ sec.22, T.19 N., R.18 E., at Jordan Dam on Coosa River, 4 miles upstream from Pigeonroost Creek and 5 miles northwest of Wetumpka. Drainage area, 10,200 sq mi, approximately. Staff gage, altitude of gage is 190 ft (from topographic map).

Reservoir, completed January 1929, is formed by a concrete arch-type dam equipped with 17 taintor gates 18 ft high by 30 ft wide and 642 ft open-crest spillway. Usable capacity at elevation 283 ft (crest of open spillway) is 84,000 acre-ft.

Records available.--October 1939 to September 1960.

Extremes.--1939-60: Maximum combined month-end contents, 454,500 acre-ft Mar. 31, 1944; minimum combined month-end contents, 319,300 acre-ft Jan. 31, 1940.

Remarks.--Figures given herein represent combined usable contents. Records for 1951-60 not previously published; monthly combined change in contents only previously published.

Combined contents, in acre-feet, on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	381,700	377,300	381,300	376,700	391,800	444,000	419,700	381,400	385,300	377,000	379,000	394,200
1952	379,500	371,600	436,500	435,000	416,800	436,500	392,200	382,900	381,900	374,900	388,100	371,300
1953	380,800	387,000	397,000	408,500	438,500	397,200	429,200	391,500	382,500	374,700	375,900	383,500
1954	379,400	381,300	357,400	433,000	417,500	427,500	379,700	378,600	373,500	370,900	373,000	375,200
1955	380,500	372,600	348,000	363,500	424,500	396,900	397,200	406,200	373,300	367,600	369,100	377,400
1956	376,900	352,300	358,800	361,800	416,400	391,600	391,700	389,500	376,700	372,800	373,700	368,600
1957	379,100	375,300	370,600	418,500	387,900	407,000	386,700	384,700	393,400	379,000	376,700	379,500
1958	375,900	425,100	421,200	404,500	392,300	419,500	385,000	384,400	379,700	381,800	377,100	372,600
1959	371,200	373,000	368,400	391,600	369,600	414,400	388,600	423,400	382,100	389,500	385,400	374,000
1960	380,900	377,800	365,200	435,400	411,800	422,900	377,000	382,700	390,000	374,700	379,100	372,400

† Corrected; change in contents published in error.

Note.--Figures herein not previously published; figures of monthly change in contents only previously published.

4110. 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 1960. 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 gages at site a quarter of a mile upstream at different datum.

Average discharge.--36 years (1912-14, 1926-60), 15,740 cfs.

Extremes.--1912-14, 1925-60: 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.--Flow regulated by several upstream reservoirs and hydroelectric plants.

Cooperation.--Records collected by Alabama Power Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6,683	6,606	9,053	13,730	20,360	37,800	54,390	11,670	7,649	9,036	5,460	5,218	15,570
1952	4,621	10,390	38,230	29,220	25,770	49,500	20,190	11,040	8,493	5,124	6,807	5,698	17,950
1953	3,821	4,579	12,240	37,690	36,220	28,230	19,110	27,090	8,146	9,331	4,806	4,514	16,230
1954	3,830	4,087	15,640	35,280	17,710	19,960	18,940	10,400	7,237	4,150	3,332	2,641	11,930
1955	2,616	3,217	5,544	13,750	28,800	22,220	35,690	13,080	8,342	7,302	5,342	2,777	12,250
1956	3,090	5,335	5,500	4,237	37,620	36,180	35,820	11,470	5,876	5,624	3,586	3,490	13,020
1957	3,461	3,832	8,742	13,550	36,140	24,250	43,650	13,320	10,070	7,435	3,513	6,435	14,250
1958	11,470	26,040	27,810	16,340	24,470	26,920	22,380	17,580	7,668	15,210	6,974	6,710	17,440
1959	6,778	5,664	6,945	15,800	24,710	22,960	20,380	11,190	15,830	6,060	4,593	5,450	12,090
1960	5,677	9,019	12,390	16,850	29,390	34,860	21,130	8,473	5,023	4,785	5,329	5,158	13,120

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	14,860	19.78
1951	1204	217,000	Mar. 29, 1951	93	15,570	1.53	20.72	18,180	24.20
1952	1234	124,000	Dec. 21, 1951	784	17,950	1.76	23.96	15,210	20.29
1953	1274	100,000	Jan. 10, 1953	1,070	16,230	1.59	21.60	16,480	21.93
1954	1334	80,000	Jan. 22, 1954	120	11,930	1.17	15.87	10,900	14.50
1955	1384	142,000	Apr. 13, 1955	112	12,250	1.20	16.31	12,460	16.59
1956	1434	172,000	Mar. 16, 1956	138	13,020	1.28	17.38	13,210	17.62
1957	1504	194,000	Apr. 5, 1957	134	14,250	1.40	18.97	18,380	24.46
1958	1554	78,700	Feb. 7, 1958	184	17,440	1.71	23.21	13,590	18.09
1959	1624	53,700	Feb. 15, 1959	148	12,090	1.19	16.09	12,740	16.96
1960	1704	56,700	Mar. 5, 1960	158	13,120	1.29	17.51	-	-

4118. Little River near Buchanan, Ga.

Location.--Lat 33°47'10", long 85°07'10", on right bank 150 ft upstream from bridge on county highway, 4½ miles east of Buchanan, Haralson County, and 7 miles above mouth.

Drainage area.--18 sq mi, approximately.

Records available.--June 1959 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 1,110 ft (from topographic map).

Extremes.--1959-60: Maximum discharge, 780 cfs Apr. 3, 1960 (gage height, 6.05 ft); minimum, 2.0 cfs Aug. 29, 1959 (gage height, 0.92 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	23.3	6.92	3.97	5.83	-
1960	10.6	10.0	11.3	47.2	45.5	49.4	48.0	15.0	8.32	5.01	10.1	9.86	22.4

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	1.44	0.44	0.25	0.36	-
1960	0.68	0.62	0.72	3.02	2.73	3.16	2.98	0.96	.52	.32	.65	.61	16.97

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	1704	-	-	a2.1	-	-	-	-	-
1960	1704	780	Apr. 3, 1960	5.0	22.4	1.24	16.97	-	-

a Minimum daily during period June to September.

4120. Tallapoosa River near Heflin, Ala.

Location.--Lat 33°37', long 85°31', in NE¼ sec.19, T.16 S., R.11 E., on right bank on downstream side of pier of bridge on county roads, 2¼ miles upstream from Cane Creek and 4 miles southeast of Heflin.

Drainage area.--444 sq mi.

Records available.--July 1952 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 830 ft (by barometer).

Average discharge.--8 years (1952-60), 520 cfs.

Extremes.--1952-60: Maximum discharge, 9,140 cfs Apr. 5, 1957 (gage height, 21.4 ft); minimum daily, 13 cfs Oct. 9, 10, 13, 14, 20-22, 1954.

Remarks.--Slight diurnal fluctuation caused by small mills above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	117	274	503	-
1953	149	206	537	1,551	1,200	972	804	1,168	345	374	198	130	635
1954	109	144	553	1,229	486	607	569	445	259	159	88.7	30.0	391
1955	16.2	51.0	213	533	887	685	1,182	585	272	318	151	47.5	408
1956	96.9	171	193	209	1,263	1,327	1,116	398	210	299	119	110	455
1957	83.8	172	475	742	767	787	1,640	566	372	227	151	570	543
1958	484	965	963	754	1,182	1,162	1,270	555	488	640	243	338	750
1959	407	251	294	509	856	788	779	628	949	257	141	182	500
1960	297	228	274	757	1,243	1,032	882	379	237	114	158	173	478

Monthly and yearly runoff, in inches, of Tallapoosa River near Heflin, Ala.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	0.30	0.71	0.76	-
1953	0.39	0.52	1.39	4.03	2.81	2.52	2.02	3.03	0.87	.97	.51	.33	19.39
1954	.28	.36	1.43	3.19	1.14	†1.58	1.43	1.15	.65	.41	.23	.08	11.93
1955	.04	.13	.55	1.38	2.08	1.78	2.97	1.52	.68	.82	.39	.12	12.46
1956	.25	.43	.50	.54	3.07	3.45	2.80	1.03	.53	.78	.31	.28	13.97
1957	.22	.43	1.23	1.93	1.80	2.07	4.12	1.47	.93	.59	.39	1.43	16.61
1958	1.26	2.43	2.50	1.96	2.77	3.02	3.19	1.44	1.23	1.66	.63	.85	22.94
1959	1.06	.63	.76	1.32	2.01	2.05	1.96	1.63	2.38	.67	.37	.46	15.30
1960	.77	.57	.71	1.97	3.02	2.68	2.22	.98	.60	.30	.40	.44	14.66

† Corrected.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	1274	8,110	Jan. 10, 1953	50	635	1.43	19.39	627	19.16
1954	1334	7,020	Jan. 18, 1954	-	391	.861	11.93	346	10.58
1955	1384	4,770	Apr. 14, 1954	13	408	.925	12.46	423	12.92
1956	1434	6,840	Mar. 17, 1956	43	455	1.02	13.97	478	14.67
1957	1504	9,140	Apr. 5, 1957	44	543	1.22	16.61	684	20.92
1958	1554	4,820	Feb. 7, 1958	84	750	1.69	22.94	628	19.20
1959	1624	6,840	June 1, 1959	101	500	1.13	15.30	487	14.90
1960	1704	4,950	Feb. 1, 1960	60	478	1.08	14.66	-	-

4125. Tallapoosa River near Ofelia, Ala.

Location.--Lat 33°20', long 85°35', in SW $\frac{1}{4}$ sec.34, T.19 S., R.10 E., on left bank near downstream side of highway bridge, 1 mile northeast of Ofelia, $\frac{1}{2}$ miles upstream from Little Tallapoosa River, and 9 miles east of Lineville.

Drainage area.--787 sq mi.

Records available.--October 1938 to December 1951, water years 1952-60 (annual maximum).

Monthly discharge only for period October to December 1938, published in WSP 1304.

Gage.--Crest-stage gage. Altitude of gage is 665 ft (from topographic map). Prior to Aug. 10, 1939, staff gage and Aug. 10, 1939, to Dec. 31, 1951, water-stage recorder, at same site and datum.

Average discharge.--13 years (1938-51), 1,139 cfs.

Extremes.--1939-60: Maximum discharge, 24,500 cfs Nov. 29, 1948 (gage height, 16.2 ft).

1939-51: Minimum discharge, 52 cfs Sept. 30, Oct. 6, 7, 1947 (gage height, 0.64 ft); minimum daily, 63 cfs Oct. 26, 1941.

Maximum stage known, about 21 ft in December 1919, from information by local residents.

Remarks.--Diurnal fluctuation and occasional regulation at low flow by mill dam 22 miles above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	512	460	636	804	1,328	2,328	2,205	808	530	615	241	342	897
1952	296	633	2,711	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.75	0.65	0.93	1.18	1.76	3.41	3.13	1.18	0.75	0.90	0.35	0.49	15.48
1952	.43	.90	3.97	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	16,600	Mar. 29, 1951	90	897	1.14	15.48	878	15.16
1952	1204	19,600	Dec. 21, 1951	-	-	-	-	1,069	18.45
1953	-	13,700	Jan. 9, 1953	-	-	-	-	-	-
1954	-	7,470	Jan. 18, 1954	-	-	-	-	-	-
1955	-	8,590	Apr. 15, 1955	-	-	-	-	-	-
1956	-	21,900	Mar. 18, 1956	-	-	-	-	-	-
1957	-	21,400	Apr. 5, 1957	-	-	-	-	-	-
1958	-	9,550	Apr. 16, 1958	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-
1960	-	7,020	Jan. 31, 1960	-	-	-	-	-	-

4130. 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 downstream from Curtis Creek, 1 mile upstream from Central of Georgia Railway bridge, and 3½ miles upstream from Buck Creek.

Drainage area.--89 sq mi, approximately.

Records available.--March 1937 to December 1955, water years 1956-60 (annual maximum).

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.--18 years (1937-55), 131 cfs.

Extremes.--1937-60: Maximum discharge observed, 6,010 cfs Nov. 29, 1948 (gage height, 19.3 ft).
1937-55: Minimum daily discharge, 0.3 cfs Oct. 12, 16, 1954. Flow may have been increased by releases from Lake Carroll.
Flood of Feb. 1, 1936, reached a stage of 18.15 ft, from floodmark (discharge, 5,450 cfs).

Remarks.--Low flow affected by storage in Lake Carroll on Curtis Creek since October 1953.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	58.8	54.8	98.8	96.5	164	213	242	60.2	51.6	84.5	22.7	55.5	99.7
1952	37.5	93.7	387	189	172	425	145	83.4	78.5	17.5	48.9	57.9	145
1953	31.0	41.9	110	358	260	217	132	260	82.4	116	31.2	82.7	143
1954	29.3	34.4	118	220	109	144	107	62.2	33.1	16.7	6.45	3.43	73.6
1955	1.37	11.9	50.1	106	194	109	186	104	37.0	49.8	23.3	9.12	72.7
1956	16.7	32.9	38.7	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.76	0.69	1.28	1.24	1.92	2.76	3.04	0.78	0.65	1.09	0.29	0.70	15.20
1952	.49	1.17	5.02	2.44	2.08	5.51	1.82	1.08	.98	.23	.63	.73	22.18
1953	.40	.53	1.43	4.64	3.04	2.81	1.65	3.37	1.03	1.50	.40	1.04	21.84
1954	.38	.43	1.53	2.85	1.27	1.87	1.34	.81	.42	.22	.08	.04	11.24
1955	.02	.15	.65	1.37	2.27	1.41	2.33	1.35	.46	.65	.30	.11	11.07
1956	.22	.41	.50	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	113	17.22
1951	1204	980	Mar. 30, 1951	5.8	99.7	1.12	15.20	126	19.15
1952	1234	3,980	Dec. 21, 1951	6.3	145	1.63	22.18	117	17.86
1953	1274	2,830	Jan. 9, 1953	16	143	1.61	21.84	143	21.82
1954	1334	1,620	Jan. 17, 1954	.5	73.6	.827	11.24	63.6	9.72
1955	1384	1,510	Feb. 8, 1955	.3	72.7	.817	11.07	74.7	11.38
1956	1384	3,630	Mar. 18, 1956	-	-	-	-	-	-
1957	-	3,330	Apr. 5, 1957	-	-	-	-	-	-
1958	-	1,980	Feb. 7, 1958	-	-	-	-	-	-
1959	-	3,130	June 1, 1959	-	-	-	-	-	-
1960	-	2,330	Jan. 31, 1960	-	-	-	-	-	-

4134. Wedowee Creek above Wedowee, Ala.

Location.--Lat 33°18'20", long 85°20'40", in NE $\frac{1}{4}$ sec.12, T.20 S., R.12 E., at right up-stream abutment of bridge on Randolph County Highway 56, 8 miles east of Wedowee.

Drainage area.--9.7 sq mi.

Records available.--May 1959 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 1,050 ft (from topographic map).

Extremes.--1959-60: Maximum discharge, 694 cfs Apr. 3, 1960 (gage height, 5.58 ft); minimum, 1.9 cfs Sept. 13, 1960 (gage height, 0.58 ft); minimum daily, 2.1 cfs Sept. 14, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	16.2	7.52	6.54	10.7	-
1960	10.2	7.11	8.49	24.0	21.1	25.7	26.6	9.85	5.32	5.41	4.85	3.98	12.7

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	1.87	0.89	0.78	1.23	-
1960	1.21	0.82	1.01	2.85	2.35	3.06	3.06	1.17	.61	.64	.58	.46	17.82

4135. Little Tallapoosa River near Wedowee, Ala.

Location.--Lat 33°21', long 85°33', in NE $\frac{1}{4}$ sec.25, T.19 S., R.10 E., on right bank at downstream side of right pier of highway bridge, 4 $\frac{1}{2}$ miles northwest of Wedowee and 5 $\frac{1}{2}$ miles upstream from mouth.

Drainage area.--592 sq mi.

Records available.--August 1913 to June 1914 (gage heights only), October 1939 to December 1951, water years 1952-60 (annual maximum).

Gage.--Crest-stage gage. Altitude of gage is 680 ft (revised), from topographic map. Aug. 29, 1913, to June 30, 1914, staff gage about 40 ft upstream at datum 2.70 ft higher. Oct. 19, 1939, to Jan. 31, 1940, staff gage and Feb. 1, 1940, to Dec. 31, 1951, water-stage recorder, at present site and datum.

Average discharge.--12 years (1939-51), 858 cfs.

Extremes.--1939-60: Maximum discharge, 20,800 cfs Nov. 28, 1948 (gage height, 20.8 ft). 1939-51: Minimum discharge, 36 cfs Sept. 23, 1941 (gage height, 2.85 ft); minimum daily, 53 cfs Oct. 23, 1941.

Remarks.--Occasional regulation at low flow by small mills above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	328	304	456	522	856	1,149	1,623	526	372	666	204	323	608
1952	219	493	1,892	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.64	0.57	0.89	1.02	1.51	2.24	3.06	1.02	0.70	1.30	0.40	0.61	13.96
1952	.43	.93	3.69	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	660	15.13	
1951	1204	6,920	Mar. 29, 1951	74	608	1.03	13.96	736	16.90	
1952	1204	16,000	Dec. 21, 1951	-	-	-	-	-	-	
1953	-	9,790	Apr. 30, 1953	-	-	-	-	-	-	
1954	-	3,500	Jan. 18, 1954	-	-	-	-	-	-	
1955	-	7,480	Apr. 15, 1955	-	-	-	-	-	-	
1956	-	20,600	Mar. 18, 1956	-	-	-	-	-	-	
1957	-	19,600	Apr. 5, 1957	-	-	-	-	-	-	
1958	-	12,500	Nov. 23, 1957	-	-	-	-	-	-	
1959	-	6,480	June 2, 1959	-	-	-	-	-	-	
1960	-	7,140	Jan. 31, 1960	-	-	-	-	-	-	

4145. Tallapoosa River at Wadley, Ala.

Location.--Lat 33°07', long 85°34', in SW $\frac{1}{4}$ sec.12, T.22 S., R.10 E., near center of channel on downstream side of bridge on State Highway 22, .1 mile downstream from Beaver Dam Creek.

Drainage area.--1,660 sq mi, approximately.

Records available.--September 1923 to September 1960.

Gage.--Wire-weight gage. Datum of gage is 599.87 ft above mean sea level, datum of 1929. Prior to June 17, 1959, staff gage, a quarter of a mile upstream at datum 1.46 ft higher.

Average discharge.--37 years (1923-60), 2,382 cfs.

Extremes.--1923-60: Maximum discharge observed, 52,800 cfs Feb. 5, 1936 (gage height, 27.9 ft); minimum daily, 45 cfs Oct. 2-4, 1954.

Remarks.--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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,010	915	1,285	1,558	2,515	4,031	4,749	1,346	1,125	1,507	581	795	1,803
1952	564	1,375	5,467	3,007	3,008	8,288	2,793	1,890	1,514	523	1,151	1,078	2,562
1953	589	765	1,958	5,245	4,247	3,825	3,804	5,241	1,656	1,719	805	925	2,560
1954	594	653	2,045	2,998	1,761	2,122	2,172	1,552	990	590	322	111	1,326
1955	65.1	274	831	2,124	3,255	2,345	4,296	2,132	1,209	1,454	776	287	1,574
1956	507	930	909	888	4,735	6,185	4,780	1,970	1,039	1,141	535	623	2,007
1957	545	833	1,745	2,846	2,698	3,279	7,007	2,330	1,658	1,048	597	1,615	2,173
1958	1,660	2,921	3,409	2,591	4,601	4,413	4,773	2,086	1,653	2,308	986	745	2,682
1959	1,185	888	1,046	1,844	3,092	3,813	3,098	2,380	3,267	1,125	554	834	1,917
1960	1,094	885	1,106	3,067	4,613	4,424	4,046	1,616	959	546	688	641	1,963

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.70	0.62	0.89	1.08	1.58	2.80	3.19	1.14	0.76	1.05	0.40	0.53	14.74
1952	.39	.92	3.80	2.09	1.95	5.76	1.88	1.31	1.02	.36	.80	.72	21.00
1953	.41	.51	1.36	3.64	2.66	2.66	2.56	3.64	1.11	1.19	.56	.62	20.92
1954	.41	.44	1.42	2.08	1.10	1.47	1.46	1.08	.67	.41	.22	.07	10.83
1955	.04	.18	.58	1.48	2.04	1.63	2.89	1.48	.81	1.01	.54	.19	12.87
1956	.35	.62	.63	.62	3.08	4.30	3.21	1.37	.70	.79	.37	.42	16.46
1957	.38	.56	1.21	1.98	1.69	2.28	4.71	1.62	1.11	.73	.41	1.09	17.77
1958	1.29	1.96	2.37	1.80	2.89	3.07	3.21	1.45	1.11	1.60	.68	.50	21.93
1959	.82	.60	.73	1.28	1.94	2.65	2.08	1.65	2.20	.78	.38	.56	15.67
1960	.76	.59	.77	2.13	3.00	3.07	2.72	1.12	.64	.38	.48	.43	16.09

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1951	1204	26,700	Mar. 30, 1951	231	1,803	1.09	14.74	1,859	15.20
1952	1234	36,800	Dec. 21, 1951	300	2,562	1.54	21.00	2,158	17.64
1953	1274	27,700	Jan. 9, 1953	284	2,560	1.54	20.92	2,558	20.91
1954	1334	9,260	Jan. 18, 1954	54	1,326	.799	10.83	1,147	9.36
1955	1384	21,100	Apr. 14, 1955	45	1,574	.948	12.87	1,672	13.67
1956	1434	47,400	Mar. 16, 1956	236	2,007	1.21	16.46	2,023	17.01
1957	1504	45,800	Apr. 5, 1957	251	2,173	1.31	17.77	2,598	21.24
1958	1554	24,800	Feb. 6, 1958	201	2,662	1.62	21.93	2,257	18.46
1959	1624	14,300	May 31, 1959	330	1,917	1.15	15.67	1,914	15.64
1960	1704	16,500	Jan. 31, 1960	212	1,963	1.18	16.09	-	-

4148. Harbuck Creek near Hackneyville, Ala.

Location.--Lat 33°07', long 85°57', in SE $\frac{1}{4}$ sec.7, T.22 S., R.7 E., on left bank at upstream abutment of bridge on county highway, half a mile upstream from mouth, 1 mile north of Clay County line, and 4 miles north of Hackneyville.

Drainage area.--6.7 sq mi.

Records available.--Water years 1951-58 (annual maximum), July 1958 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 710 ft (from topographic map). Nov. 9, 1950, to July 23, 1958, crest-stage gage at same site and datum.

Extremes.--1950-60: Maximum gage height, 8.9 ft May 22, 1955 (discharge not determined). 1958-60: Minimum discharge, 0.3 cfs Sept. 13, 14, 1960 (gage height, 0.42 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	1.84	1.67	-
1959	5.06	4.12	4.55	15.0	21.7	31.7	18.3	10.5	7.48	5.29	1.95	2.61	10.6
1960	8.13	4.15	5.32	19.5	24.4	35.0	26.3	7.47	3.71	2.42	1.89	3.81	11.8

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	0.32	0.28	-
1959	0.87	0.69	0.78	2.58	3.38	5.46	3.05	1.80	1.25	0.91	.33	.43	21.53
1960	1.40	.69	.91	3.36	3.94	6.02	4.38	1.28	.62	.42	.33	.63	23.98

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1624	-	Mar. 29, 1951	-	-	-	-	-	-
1952	1624	801	Dec. 20, 1951	-	-	-	-	-	-
1953	1624	-	Apr. 12, 1953	-	-	-	-	-	-
1954	1624	445	Feb. 24, 1954	-	-	-	-	-	-
1955	1624	-	May 22, 1955	-	-	-	-	-	-
1956	1624	-	Mar. 16, 1956	-	-	-	-	-	-
1957	1624	-	Apr. 5, 1957	-	-	-	-	-	-
1958	1624	-	Mar. 11, 1958	-	-	-	-	-	-
1959	1624	729	Oct. 1, 1958	0.85	10.6	1.58	21.53	11.0	22.19
1960	1704	415	Mar. 29, 1960	.4	11.8	1.76	23.98	-	-

4150. Hillabee Creek near Hackneyville, Ala.

Location.--Lat 33°04', long 85°53', in SW $\frac{1}{4}$ sec.17, T.24 N., R.22 E., near center of channel on downstream side of pier of highway bridge, 1 mile downstream from Enitachoo Creek, 3 miles east of Hackneyville, and 4 miles upstream from Hackney Creek.

Drainage area.--196 sq mi.

Records available.--June 1952 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 557.92 ft above mean sea level, datum of 1929.

Average discharge.--8 years (1952-60), 279 cfs.

Extremes.--1952-60: Maximum discharge, 15,600 cfs Apr. 5, 1957 (gage height, 25.7 ft); minimum, 8.1 cfs Oct. 16, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	68.8	114	64.9	-
1953	56.9	72.4	281	715	659	622	821	725	257	255	96.9	170	393
1954	77.3	79.3	351	270	263	325	435	281	140	96.6	61.8	24.1	200
1955	11.5	57.5	88.6	275	407	281	801	351	179	194	112	41.1	230
1956	49.1	114	104	93.5	647	1,002	968	266	154	115	57.2	87.9	303
1957	87.1	104	213	269	237	357	1,193	335	490	191	75.5	189	311
1958	181	350	433	287	574	559	507	204	131	139	95.7	58.3	291
1959	91.1	90.2	99.6	268	420	623	401	273	212	152	68.0	76.4	230
1960	149	91.8	121	410	531	751	620	185	124	78.5	84.1	126	272

Monthly and yearly runoff, in inches, of Hillabee Creek near Hackneyville, Ala.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	0.40	0.67	0.37	-
1952	-	-	-	-	-	-	-	-	-	1.50	.57	.97	27.21
1953	0.33	0.41	1.65	4.21	3.50	3.66	4.68	4.27	1.46	.79	.36	.14	15.86
1954	.45	.45	2.07	1.59	1.40	1.91	2.48	1.65	.79	.57	.36	.14	15.86
1955	.07	.21	.52	1.62	2.16	1.65	4.56	2.07	1.02	1.14	.66	.23	15.91
1956	.29	.65	.61	.55	3.56	5.89	5.52	1.57	.86	.69	.34	.50	21.04
1957	.51	.59	1.25	1.58	1.26	2.10	6.79	1.97	2.79	1.13	.44	1.07	21.48
1958	1.07	1.99	2.55	1.69	3.05	3.29	2.88	1.20	.75	.62	.50	.33	20.12
1959	.54	.51	.59	1.58	2.23	3.66	2.28	1.60	1.21	.89	.40	.44	15.93
1960	.86	.52	.71	2.41	2.92	4.42	3.53	1.09	.71	.46	.49	.72	18.86

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1274	-	-	-	-	-	-	-	-
1953	1274	5,850	Jan. 8, 1953	42	393	2.01	27.21	401	27.79
1954	1334	3,300	Apr. 29, 1954	11	200	1.02	13.86	169	11.69
1955	1384	7,300	Apr. 14, 1955	8.1	230	1.17	15.91	241	16.66
1956	1434	12,600	Mar. 16, 1956	23	303	1.55	21.04	314	21.84
1957	1504	15,600	Apr. 5, 1957	36	311	1.59	21.48	357	24.74
1958	1554	6,300	Feb. 6, 1958	29	291	1.48	20.12	235	16.15
1959	1624	3,420	Mar. 12, 1959	44	230	1.17	15.93	257	16.40
1960	1704	4,560	Mar. 30, 1960	26	272	1.39	18.86	-	-

4175. Lake Martin near Tallassee, Ala.

Location.--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.

Drainage area.--3,000 sq mi, approximately.

Records available.--January 1927 to September 1960.

Gage.--Remote indicating gage, referenced to wire-weight gage. Datum of gage is at mean sea level (levels by Alabama Power Co.).

Extremes.--1927-60: Maximum daily contents, 1,669,000 acre-ft Mar. 21, 1929 (elevation, 491.20 ft); minimum daily (after first filling), 279,200 acre-ft Dec. 3, 1931 (elevation, 433.10 ft).

Remarks.--Reservoir is formed by a combination arch and gravity concrete dam with rip-rap earth embankment on left or east end. Spillway is equipped with 20 modified stoney-type gates, 16 ft high by 30 ft wide. Storage began June 6, 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). Figures given herein represent total contents. Reservoir is used for power.

Contents, in thousands of acre-feet, on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	1,168.3	981.0	948.8	956.6	1,052.8	1,324.6	1,610.4	1,521.8	1,459.4	1,407.0	1,237.9	1,201.8
1952	1,112.5	1,106.3	1,398.1	1,470.2	1,508.7	1,599.6	1,604.7	1,604.2	1,534.7	1,355.8	1,341.8	1,319.3
1953	1,133.8	1,039.9	1,061.8	1,258.0	1,508.7	1,484.8	1,622.6	1,608.6	1,555.3	1,570.5	1,423.1	1,419.7
1954	1,266.3	1,123.0	1,117.1	1,123.0	1,206.8	1,343.7	1,486.7	1,529.2	1,450.2	1,392.8	1,214.9	1,041.3
1955	904.0	816.1	843.2	964.9	1,124.7	1,216.5	1,540.4	1,583.6	1,566.6	1,538.6	1,373.3	1,171.5
1956	1,041.2	952.8	845.7	800.5	1,126.1	1,532.8	1,597.4	1,564.8	1,525.4	1,483.0	1,364.6	1,338.4
1957	1,151.1	1,048.4	1,187.3	1,254.6	1,307.2	1,452.0	1,598.9	1,585.4	1,551.7	1,461.2	1,293.6	1,283.3
1958	1,254.6	1,253.0	1,244.5	1,278.2	1,494.0	1,576.0	1,596.2	1,606.3	1,599.9	1,562.2	1,525.0	1,371.7
1959	1,234.6	1,086.8	966.0	1,038.1	1,233.9	1,534.7	1,556.0	1,583.6	1,542.2	1,528.7	1,427.0	1,356.3
1960	1,298.9	1,148.1	1,092.1	1,244.0	1,460.8	1,628.1	1,595.1	1,586.6	1,515.2	1,488.1	1,455.2	1,356.5

† Corrected.

* Not previously published; figures of monthly change in contents only previously published.

MOBILE RIVER BASIN

4185. 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 Uphabee Creek.

Drainage area.--3,320 sq mi, approximately.

Records available.--July 1928 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 162.03 ft above mean sea level (levels by Alabama Power Co.).

Average discharge.--32 years (1928-60), 4,613 cfs (unadjusted).

Extremes.--1928-60: 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.--Flow regulated by Lake Martin 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.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	4,241	4,778	3,036	2,783	2,334	2,028	3,160	4,148	2,824	2,844	3,468	2,249	3,163
1952	2,393	2,373	3,727	4,510	5,562	13,600	5,341	4,428	3,682	3,662	2,288	2,472	4,508
1953	3,980	2,810	3,736	6,343	4,669	8,389	7,375	11,570	4,755	3,283	3,900	3,433	5,368
1954	3,829	3,876	6,610	5,239	2,191	2,385	2,163	1,994	3,097	1,968	3,603	2,979	3,341
1955	2,355	2,110	979	2,067	2,992	2,425	2,977	3,070	2,201	3,812	4,562	4,040	2,797
1956	2,921	3,131	3,414	2,224	3,203	5,130	8,186	3,613	2,202	2,723	2,720	2,604	3,502
1957	4,507	3,309	2,645	4,614	3,897	3,801	11,300	5,343	4,784	3,729	3,878	3,095	4,570
1958	5,649	5,421	6,434	4,205	5,146	8,228	8,229	3,443	3,176	4,672	2,470	4,476	4,974
1959	4,235	4,150	4,212	2,888	2,906	2,811	5,116	3,516	5,980	2,156	2,658	2,728	3,625
1960	3,586	4,408	3,155	3,636	5,887	7,667	9,715	3,237	3,204	1,474	2,222	3,126	4,259

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30								Calendar year		
		Observed				Adjusted a/				Observed	Adjusted a/	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches	
		Discharge	Date									
1950	-	-	-	-	-	-	-	-	3,430	3,393	13.87	
1951	1204	10,300	Nov. 27, 28, 1950	60	3,163	3,005	0.905	12.29	2,868	3,488	14.26	
1952	1234	32,900	Mar. 5, 1952	62	4,508	4,670	1.41	19.15	4,680	4,217	17.29	
1953	1274	44,900	May 6, 1953	61	5,368	5,507	1.66	22.52	5,687	5,763	23.56	
1954	1334	111,300	Dec. 28, 1953	80	3,341	2,818	0.849	11.52	2,592	2,214	9.05	
1955	1384	9,570	May 25, 1955	77	2,797	2,977	0.897	12.17	3,136	3,139	12.83	
1956	1434	22,200	Apr. 17, 1956	75	3,502	3,733	1.12	15.30	3,586	4,057	16.63	
1957	1504	72,600	Apr. 6, 1957	78	4,570	4,494	1.35	18.37	4,992	5,071	20.73	
1958	1554	10,700	(b)	74	4,974	5,096	1.53	20.84	4,730	4,710	19.26	
1959	1624	10,800	June 4, 1959	115	3,625	3,623	1.09	14.81	3,501	3,675	15.03	
1960	1704	34,600	Apr. 4, 1960	75	4,259	4,259	1.28	17.46	-	-	-	

† Corrected.

* Not previously published.

a Adjusted for change in contents in Lake Martin.

b Mar. 7, 26, Apr. 2, 1958.

4190. Uphabee 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.--330 sq mi.

Records available.--October 1939 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 223.65 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Average discharge.--21 years (1939-60), 425 cfs.

Extremes.--1939-60: Maximum discharge, 29,600 cfs Mar. 21, 1943 (gage height, 27.33 ft); minimum daily, 0.8 cfs Sept. 14, 1954.
Flood in March 1929 reached a stage about 2 ft higher than that of Mar. 21, 1943.

Remarks.--Occasional diurnal fluctuation at low flows caused by small powerplants above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	22.3	30.2	114	200	230	265	356	63.9	66.0	48.6	20.7	89.5	125
1952	25.1	75.1	358	359	609	1,642	539	359	116	26.0	168	189	372
1953	49.7	54.9	424	1,027	1,437	835	1,469	1,517	144	127	48.4	231	608
1954	107	89.9	2,042	476	527	610	206	78.8	26.8	41.4	11.9	1.67	353
1955	4.92	11.2	31.6	268	483	241	573	377	82.0	41.5	105	15.9	216
1956	9.88	46.8	57.6	58.9	654	1,072	330	95.3	26.9	37.2	7.33	94.9	206
1957	71.4	40.9	799	439	417	678	1,276	556	265	403	22.1	26.9	416
1958	96.6	775	553	368	929	1,847	713	174	87.4	252	72.3	60.9	491
1959	33.5	39.5	92.0	314	984	1,196	445	146	475	129	28.1	210	336
1960	291	263	375	1,145	1,391	1,024	1,282	251	104	52.7	65.2	37.7	520

Monthly and yearly runoff, in inches, of Uphapes Creek near Tuskegee, Ala.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.08	0.10	0.40	0.70	0.75	0.93	1.20	0.22	0.22	0.17	0.07	0.30	5.12
1952	.09	.25	1.25	1.25	1.99	5.74	1.82	1.25	.39	.09	.59	.64	15.35
1953	.17	.19	1.48	3.59	4.53	2.92	4.97	5.30	.49	.44	.17	.78	25.03
1954	.37	.30	7.13	1.66	1.66	2.13	.70	.28	.09	.14	.04	.006	14.51
1955	.02	.04	.11	.94	1.52	.84	1.94	1.32	.28	1.45	.57	.05	8.88
1956	.05	.16	.20	.21	2.14	3.75	1.12	.53	.09	.13	.03	.52	8.51
1957	.25	.14	2.79	1.53	1.32	2.37	4.31	1.94	.89	1.41	.08	.09	17.12
1958	.34	2.62	1.93	1.28	2.93	6.45	2.41	.61	.30	.88	.25	.21	20.21
1959	.12	.13	.52	1.10	3.11	4.18	1.50	.51	1.60	.45	.10	.71	13.83
1960	1.02	.89	1.51	4.00	4.55	3.58	4.34	.88	.35	.18	.23	.13	21.46

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	185	7.61	
1951	1204	1,080	Mar. 20, 1951	3.8	125	0.379	5.12	149	6.13	
1952	1234	9,000	Mar. 25, 1952	8.8	372	1.13	15.35	378	15.60	
1953	1274	8,390	May 5, 1953	11	608	1.84	25.03	754	30.99	
1954	1334	12,400	Dec. 5, 1953	.8	353	1.07	14.51	167	6.88	
1955	1384	4,740	Apr. 15, 1955	1.4	216	.655	8.88	221	9.10	
1956	1434	5,890	Mar. 17, 1956	1.0	206	.624	8.51	273	11.30	
1957	1504	11,100	Apr. 6, 1957	6.0	416	1.26	17.12	458	18.85	
1958	1554	20,400	Mar. 8, 1958	16	491	1.49	20.21	386	15.89	
1959	1624	2,950	Mar. 7, 1959	4.1	336	1.02	13.83	401	16.48	
1960	1704	7,250	Apr. 4, 1960	12	520	1.58	21.46	-	-	

4200. Alabama River near Montgomery, Ala.

Location.--Lat 32°24'42", long 86°24'32", in NW $\frac{1}{4}$ 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 1960. 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 bench mark). 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 auxiliary gage.

Average discharge.--33 years (1927-60), 22,940 cfs.

Extremes.--1927-60: Maximum discharge, 256,000 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, -2.2 ft 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.--Flow regulated by Allatoona Reservoir, Lake Martin, and Coosa River reservoirs.

Cooperation.--Records collected by Alabama Power Co. under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	11,190	11,130	12,610	16,760	23,090	32,570	67,000	17,320	11,360	12,280	9,424	8,427	19,340
1952	6,929	12,560	41,420	35,100	33,383	73,220	20,030	18,270	14,020	9,142	10,310	8,909	24,520
1953	8,124	7,878	16,170	47,900	45,040	41,850	32,000	49,420	14,800	13,590	9,610	10,300	24,720
1954	8,777	8,363	30,330	41,350	23,090	24,520	22,850	13,120	10,320	6,681	6,971	5,931	16,860
1955	5,514	5,509	6,518	17,150	33,740	26,500	44,350	18,280	12,030	12,030	10,180	6,851	16,410
1956	6,342	8,170	8,969	6,689	42,380	46,650	47,660	16,710	8,911	8,776	6,547	8,145	17,860
1957	8,767	7,740	16,910	19,040	41,890	29,220	60,850	24,690	17,030	13,050	7,912	10,060	21,240
1958	15,260	35,530	57,070	22,090	35,940	45,070	34,220	23,140	11,290	21,420	9,954	10,780	24,770
1959	10,710	9,654	10,590	18,940	32,040	33,120	26,810	14,930	24,570	8,906	7,597	8,407	16,810
1960	9,794	13,550	16,010	24,410	42,330	45,510	38,940	12,140	8,008	8,551	7,646	8,120	19,320

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	20,040	18.02	
1951	1204	137,000	Apr. 1, 1951	3,710	19,340	1.28	17.39	21,610	19.43	
1952	1234	103,000	Mar. 27, 1952	3,640	24,520	1.62	22.10	22,090	19.92	
1953	1274	113,000	May 8, 1953	3,170	24,720	1.64	22.23	26,020	23.39	
1954	1334	79,000	Jan. 25, 1954	2,700	16,860	1.12	15.18	14,320	12.88	
1955	1384	109,000	Apr. 15, 1955	3,820	16,410	1.09	14.75	16,900	15.20	
1956	1434	122,000	Mar. 17, 1956	4,500	17,860	1.18	16.10	18,700	16.86	
1957	1504	139,000	Apr. 7, 1957	4,260	21,240	1.41	19.09	25,620	23.03	
1958	1554	85,000	Mar. 10, 1958	5,700	24,770	1.64	22.26	20,170	18.13	
1959	1624	57,000	Feb. 17, 1959	5,510	16,810	1.11	15.11	17,510	15.74	
1960	1704	84,500	Apr. 6, 1960	5,000	19,320	1.28	17.41	-	-	

4205. Autauga Creek at Prattville, Ala.

Location.--Lat 32°27'30", long 86°28'30", in N $\frac{1}{4}$ 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.--109 sq mi.

Records available.--October 1938 to September 1959, water year 1960 (annual maximum).

Monthly discharge only for period October to December 1938, published in WSP 1304.

Gage.--Crest-stage gage in concrete channel. Datum of gage is 164.38 ft above mean sea level, datum of 1929. Prior to Sept. 27, 1944, staff or recording gages at several sites within 3 miles downstream of present site at various datums. Sept. 27, 1944, to Sept. 30, 1959, water-stage recorder at present site and datum.

Average discharge.--21 years (1938-59), 185 cfs.

Extremes.--1938-60: Maximum discharge, 21,800 cfs Aug. 16, 17, 1939 (gage height, 18.35 ft, present datum, prior to major channel improvement).

1938-59: Minimum discharge recorded, 3 cfs June 1, 1941; minimum daily, 33 cfs 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.--Extensive diurnal fluctuation and some regulation caused by small powerplant 500 ft above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	114	108	159	165	159	240	244	112	107	75.9	71.3	91.0	137
1952	73.4	92.6	166	152	143	370	172	190	102	69.3	102	75.3	143
1953	74.7	96.2	157	220	263	234	328	310	124	128	83.9	120	178
1954	83.3	108	240	156	156	173	133	92.3	71.0	57.7	47.5	40.3	113
1955	47.6	76.2	94.2	147	171	129	374	150	135	107	96.1	57.3	131
1956	64.4	91.7	90.1	90.5	199	291	192	85.3	92.9	73.7	62.0	102	119
1957	114	103	144	135	157	169	438	274	94.1	107	71.6	143	162
1958	99.4	151	173	146	228	315	195	131	140	236	139	154	175
1959	117	116	135	181	264	224	196	144	143	94.3	84.0	111	150
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.20	1.11	1.68	1.75	1.52	2.54	2.49	1.18	1.09	0.80	0.75	0.93	17.04
1952	.78	.95	1.76	1.60	1.42	3.92	1.76	2.00	1.04	.73	1.08	.77	17.81
1953	.79	.98	1.66	2.33	2.51	2.48	3.36	3.28	1.27	1.35	.89	1.23	22.13
1954	.88	1.10	2.54	1.65	1.49	1.83	1.36	.98	.73	.61	.50	.41	14.08
1955	.50	.78	1.00	1.56	1.64	1.37	3.83	1.59	1.39	1.13	1.02	.59	16.40
1956	.68	.94	.95	.96	1.97	3.08	1.97	.90	.95	.78	.66	1.04	14.88
1957	1.20	1.05	1.52	1.42	1.50	1.79	4.48	2.90	.96	1.13	.76	1.46	20.17
1958	1.05	1.55	1.85	1.54	2.18	3.53	2.00	1.38	1.43	2.49	1.47	1.58	21.85
1959	1.24	1.19	1.42	1.91	2.53	2.37	2.01	1.52	1.46	1.00	.89	1.13	18.67
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	162	20.26
1951	-	-	-	-	-	-	-	133	16.54
1951	1204	2,160	Mar. 30, 1951	42	137	1.26	17.04	142	17.75
1952	1234	1,370	Mar. 4, 1952	48	143	1.31	17.81	186	23.72
1953	1274	1,570	Apr. 30, 1953	57	178	1.63	22.13	95.0	11.84
1954	1334	581	Apr. 16, 1954	33	113	1.04	14.08	134	16.69
1955	1384	2,450	Apr. 14, 1955	38	131	1.20	16.40	-	-
1956	1434	1,800	Mar. 16, 1956	45	119	1.09	14.88	129	16.08
1957	1504	3,170	Apr. 5, 1957	42	162	1.49	20.17	167	20.83
1958	1554	1,350	Mar. 7, 1958	62	175	1.61	21.85	171	21.25
1959	1624	525	Feb. 9, 1959	53	150	1.58	18.67	-	-
1960	-	1,300	Mar. 30, 1960	-	-	-	-	-	-

4210. Catoma Creek near Montgomery, Ala.

Location.--Lat 32°18'25", long 86°18'00", in center of sec.6, T.15 N., R.18 E., on right bank on downstream side of bridge on U.S. Highway 331, 5 miles south of Montgomery.

Drainage area.--298 sq mi.

Records available.--June 1952 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 151.02 ft above mean sea level, datum of 1929.

Average discharge.--8 years (1952-60), 306 cfs.

Extremes.--1952-60: Maximum discharge, 25,600 cfs Mar. 8, 1958 (gage height, 25.7 ft); 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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	2.02	33.5	10.3	-
1953	0.465	0.157	146	514	1,500	301	962	1,033	45.5	34.4	5.14	438	407
1954	23.3	14.0	1,643	152	321	694	93.1	11.9	5.93	3.81	.11	0	249
1955	0	0	.87	113	220	31.3	551	112	72.9	86.0	67.4	2.76	103
1956	.18	.39	.33	.95	177	872	222	45.9	20.7	19.5	2.76	508	155
1957	236	29.1	1,262	243	320	420	1,399	923	251	75.3	2.17	148	443
1958	40.5	679	401	268	850	1,981	343	185	40.5	70.8	35.4	8.32	406
1959	.729	1.33	9.17	150	813	1,056	319	54.7	260	56.2	3.45	87.2	+230
1960	140	200	259	1,055	1,186	968	1,305	105	18.1	31.8	103	127	455

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	0.008	0.13	0.04	-
1953	0.002	0.0006	0.56	1.99	5.24	1.16	3.60	4.00	0.17	.13	.02	1.64	18.51
1954	.09	.05	6.36	.59	1.12	2.69	.35	.05	.02	.01	.0004	0	11.33
1955	0	0	.003	.44	.77	.12	2.06	.43	.27	.33	.26	.01	4.69
1956	.0007	.001	.001	.004	.64	3.38	.83	.18	.08	.08	.01	1.80	7.11
1957	.91	.11	4.88	.94	1.12	1.63	5.24	3.57	.94	.29	.008	.55	20.19
1958	.18	2.54	1.55	1.04	2.97	7.66	1.28	.71	.15	.27	.14	.03	18.50
1959	.003	.005	.04	.58	2.84	4.08	1.20	.21	.97	.22	.01	.31	10.47
1960	.54	.75	1.00	4.08	4.29	3.75	4.89	.41	.07	.12	.40	.47	20.77

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1274	-	-	80.4	-	-	-	-	-
1953	1274	6,420	Feb. 27, 1953	0	407	1.37	18.51	537	24.45
1954	1334	10,700	Dec. 5, 1953	0	249	.836	11.33	106	4.83
1955	1384	5,560	Apr. 15, 1955	0	103	.346	4.69	103	4.69
1956	1434	6,200	Sept. 26, 1956	0	155	.520	7.11	285	13.00
1957	1504	15,000	Apr. 6, 1957	0	443	1.49	20.19	407	18.54
1958	1554	25,600	Mar. 8, 1958	0	406	1.36	18.50	+314	14.30
1959	1624	3,660	Mar. 7, 1959	0	1230	.772	10.47	279	12.71
1960	1704	13,500	Apr. 4, 1960	.6	455	1.53	20.77	-	-

† Corrected.

a Minimum daily during period June to September.

4220. Big Swamp Creek near Lowndesboro, Ala.

Location.--Lat 32°16', long 86°42', in NE¼ sec.19, T.15 N., R.14 E., at upstream side of right 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.--247 sq mi.

Records available.--December 1937 to April 1938, October 1940 to September 1960.

Gage.--Water-stage recorder. Wooden control Aug. 8, 1951, to July 20, 1955. 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.--20 years (1940-60), 303 cfs.

Extremes.--1937-38, 1940-60: 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 most years.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2.17	1.49	58.5	143	290	249	394	8.41	8.64	1.05	13.8	2.88	96.1
1952	.39	3.73	53.3	53.7	246	809	194	212	48.3	1.52	22.9	5.93	138
1953	.132	.777	55.2	232	1,060	266	1,004	922	14.0	82.8	1.78	255	318
1954	28.3	8.75	1,038	124	354	647	147	4.22	2.21	.12	0	0	197
1955	0	0	.26	42.8	147	14.1	968	121	66.7	49.2	25.7	1.99	118
1956	.09	.47	.51	.84	97.7	818	427	6.64	11.5	9.21	1.91	344	143
1957	34.4	7.19	1,045	169	337	329	1,459	228	31.4	32.1	.46	40.5	308
1958	6.16	295	264	209	548	1,524	199	155	11.2	48.8	21.4	18.6	274
1959	.30	2.19	.13	141	557	607	601	93.5	467	36.8	5.14	17.2	208
1960	515	125	147	919	785	851	663	53.1	28.9	28.7	348	69.8	360

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.01	0.007	0.27	0.67	1.22	1.16	1.78	0.04	0.04	0.005	0.08	0.01	5.27
1952	.002	.02	.25	.25	1.07	3.77	.88	.99	.22	.007	.11	.03	7.60
1953	.0006	.004	.26	1.08	4.47	1.24	4.53	4.30	.06	.39	.008	1.15	17.49
1954	.13	.04	4.84	.58	1.49	3.02	.67	.02	.01	.0005	0	0	10.80
1955	0	0	.001	.20	.62	.07	4.37	.56	.30	.23	.12	.009	6.48
1956	.0004	.002	.002	.004	.43	3.82	1.93	.03	.05	.04	.009	1.55	7.87
1957	.16	.03	4.88	.79	1.42	1.54	6.59	1.06	.14	.15	.002	.18	16.94
1958	.03	1.33	1.23	.98	2.31	7.11	.90	.72	.05	.23	.10	.08	15.07
1959	.001	.01	.04	.66	2.35	2.85	2.71	.44	2.11	.17	.02	.08	11.42
1960	1.47	.56	.68	4.29	3.43	3.97	3.00	.25	.13	.13	1.63	.32	19.86

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	176	9.64
1951	1204	-	-	-	-	-	-	95.7	5.26
1952	1234	2,130	Apr. 22, 1951	0	98.1	0.389	5.27	138	7.59
1953	1274	3,460	Mar. 25, 1952	0	158	.559	7.60	405	22.24
1954	1334	8,770	May 4, 1953	0	318	1.29	17.49	105	5.79
1955	1384	4,200	Dec. 6, 1953	0	197	.798	10.80	118	6.48
1956	1434	11,500	Apr. 14, 1955	0	118	.478	6.48	235	12.93
1957	1504	7,210	Mar. 16, 1956	0	143	.579	7.87	263	14.46
1958	1554	16,000	Apr. 5, 1957	.2	308	1.25	16.94	228	12.53
1959	1624	19,500	Mar. 7, 1958	0	274	1.11	15.07	256	14.08
1960	1704	5,260	Apr. 12, 1959	0	208	.842	11.42	-	-
		6,800	Jan. 18, 1960	.3	360	1.46	19.86	-	-

4225. Mulberry Creek at Jones, Ala.
(Formerly published as Mulberry River at Jones)

Location.--Lat 32°35', long 86°54', in E $\frac{1}{2}$ 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.--208 sq mi.

Records available.--October 1938 to September 1960. Prior to October 1959, published as Mulberry River at Jones.

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 3, 1939, staff gage at site 50 ft upstream at same datum.

Average discharge.--22 years (1938-60), 317 cfs.

Extremes.--1938-60: Maximum discharge, 32,800 cfs Aug. 16, 1939 (gage height, 30.4 ft); minimum daily, 27 cfs Oct. 6, 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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	133	132	203	256	347	1,034	599	192	114	103	85	113	276
1952	77.8	112	331	356	265	947	349	193	132	82.7	114	61.9	251
1953	56.4	94.7	206	610	843	487	600	499	140	159	76	87.8	318
1954	75.1	103	472	256	288	398	397	157	91.4	61.1	42.4	32.3	198
1955	59.1	82.6	132	233	453	327	1,405	285	200	165	154	87.7	294
1956	66	109	135	111	593	890	552	193	108	87.9	66.6	61.0	246
1957	107	85.1	136	206	203	308	1,084	447	191	155	74.7	95.4	257
1958	111	237	352	236	414	733	319	211	148	385	152	151	284
1959	108	129	154	261	511	583	412	306	338	142	92.6	109	260
1960	145	123	130	242	308	563	372	154	95.9	74.6	92.1	74.2	198

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.74	0.71	1.13	1.42	1.74	5.73	3.21	1.06	0.61	0.57	0.47	0.61	18.00
1952	.43	.60	1.84	1.86	1.38	5.25	1.87	1.07	.71	.46	.63	.33	16.43
1953	.31	.51	1.14	3.58	4.22	2.70	3.22	2.76	.75	.88	.42	.47	20.76
1954	.42	.55	2.62	1.43	1.44	2.20	2.13	.87	.49	.34	.23	.17	12.89
1955	.22	.44	.73	1.29	2.27	1.81	7.54	1.58	1.07	.91	.85	.47	19.18
1956	.37	.58	.75	.62	3.07	4.93	2.96	1.07	.58	.49	.37	.33	16.12
1957	.59	.46	.75	1.14	1.02	1.71	5.81	2.46	1.03	.66	.41	.51	16.77
1958	.62	1.27	1.90	1.31	2.07	4.06	1.71	1.17	.79	2.13	.84	.70	18.57
1959	.60	.69	.85	1.44	2.56	3.23	2.21	1.69	1.81	.78	.51	.58	16.95
1960	.81	.66	.72	1.34	1.60	3.12	1.99	.86	.51	.41	.51	.40	12.93

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	230	15.03
1951	1204	18,200	Mar. 29, 1951	48	276	1.33	18.00	280	18.29
1952	1234	5,250	Mar. 4, 1952	45	251	1.21	16.43	237	15.52
1953	1274	3,750	Feb. 25, 1953	42	318	1.53	20.76	343	22.39
1954	1334	3,030	Apr. 16, 1954	29	198	.952	12.89	164	10.69
1955	1384	9,740	Apr. 13, 1955	27	294	1.41	19.18	299	19.49
1956	1434	8,460	Mar. 16, 1956	43	246	1.18	16.12	248	16.22
1957	1504	8,800	Apr. 5, 1957	48	257	1.24	16.77	287	18.76
1958	1554	4,580	July 13, 1958	75	224	1.37	18.57	260	16.92
1959	1624	2,440	Mar. 12, 1959	66	260	1.25	16.95	261	17.00
1960	1704	3,380	Mar. 30, 1960	47	198	.952	12.93	-	-

a Maximum daily discharge.

4230. Alabama River at Selma, Ala.

Location.--Lat 32°24', long 87°01', in SE $\frac{1}{4}$ sec.36, 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 to December 1899 (gage heights only), January 1900 to December 1913, and June 1928 to September 1960. 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 21, 1940, wire-weight gage, all at site 300 ft upstream at present datum.

Average discharge.--45 years (1900-13, 1928-60), 25,790 cfs.

Extremes.--1900-13, 1928-60: 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.--Flow regulated by upstream reservoirs on Etowah, Coosa, and Tallapoosa Rivers.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	12,470	11,820	13,850	18,930	26,460	33,680	74,360	17,880	11,880	13,580	10,640	9,427	21,140
1952	7,570	14,090	41,540	38,050	37,130	74,590	33,020	19,470	15,110	9,239	11,070	9,651	25,900
1953	8,646	8,414	17,600	50,180	49,820	48,940	38,060	54,400	14,810	13,570	9,821	11,070	27,020
1954	9,843	9,013	34,310	41,070	26,670	27,710	26,320	14,970	11,370	7,520	7,655	6,416	18,560
1955	5,802	6,015	6,572	18,260	35,830	27,530	51,700	19,270	13,960	12,370	11,700	7,771	17,730
1956	6,999	8,633	9,608	7,253	44,440	54,150	51,740	17,350	9,182	8,865	6,640	9,656	19,400
1957	10,220	8,470	7,710	20,920	43,800	33,380	70,820	29,080	17,230	14,540	8,079	10,510	23,680
1958	17,230	34,090	40,550	24,930	38,330	54,460	37,520	26,360	13,120	23,820	12,020	12,490	27,860
1959	11,810	10,300	11,640	20,650	36,790	34,360	31,480	16,240	28,860	10,240	8,730	9,911	19,100
1960	12,210	15,400	18,150	28,360	47,020	49,820	45,980	15,180	9,870	7,820	9,210	8,900	22,220

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	21,330	16.93
1951	1204	159,000	Apr. 2, 1951	4,540	21,140	1.23	16.78	23,270	18.47
1952	1234	101,000	Mar. 27, 1952	4,120	25,900	1.51	20.62	23,500	18.71
1953	1274	112,000	May 10, 1953	4,670	27,020	1.58	21.45	28,580	22.70
1954	1334	76,100	Jan. 25, 1954	3,510	18,560	1.09	14.74	15,600	12.38
1955	1384	123,000	Apr. 18, 1955	4,300	17,730	1.04	14.07	18,320	14.54
1956	1434	129,000	Mar. 18, 1956	5,020	19,400	1.13	15.45	20,520	16.33
1957	1504	148,000	Apr. 9, 1957	5,280	23,680	1.38	18.80	28,150	22.35
1958	1554	110,000	Mar. 10, 1958	7,200	27,860	1.63	22.12	22,990	18.25
1959	1624	57,900	Feb. 18, 1959	7,200	19,100	1.12	15.16	20,100	15.96
1960	1704	97,200	Apr. 6, 1960	6,360	22,220	1.30	17.68	-	-

4235. Cahaba River near Acton, Ala.

Location.--Lat 33°22', long 86°49', in SE $\frac{1}{4}$ sec.23, T.19 W., R.3 W., on right bank at downstream side of county road bridge (formerly U.S. Highway 31), half a mile upstream from Patton Creek, 1 mile downstream from new U.S. Highway 31, 1 mile northwest of Acton, and 16 miles south of Birmingham.

Drainage area.--230 sq mi.

Records available.--October 1938 to September 1957.

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.--19 years (1938-57), 327 cfs.

Extremes.--1938-57: Maximum discharge, 25,500 cfs Dec. 28, 1942; maximum gage height, 44.23 ft Dec. 29, 1942; no flow for several days each year 1953-56.

Remarks.--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 Purdy Lake (capacity, 15,300 acre-ft) on Little Cahaba River.

Monthly and yearly mean discharge, in cubic feet per second, of Cahaba River near Acton, Ala.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	59.2	43.2	166	309	738	1,652	1,018	82.7	35.9	36.3	17.2	127	354
1952	19.6	68.2	1,029	592	423	852	165	24.7	27.9	6.74	28.4	8.62	272
1953	18.3	19.0	226	1,227	912	609	362	499	11.8	37.4	4.64	4.52	325
1954	.94	3.43	398	913	296	388	253	130	18.9	6.70	4.14	.01	202
1955	.13	19.1	241	537	1,079	586	995	90.5	20.6	31.9	15.4	.68	295
1956	1.75	28.3	25.6	29.1	1,056	897	773	43.6	4.83	254	1.21	.64	236
1957	2.48	5.55	93.5	331	722	685	1,165	108	20.8	26.2	2.72	184	275
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	241	-	14.20
1951	1204	18,100	Mar. 29, 1951	0.3	354	\$1.54	\$20.92	426	-	\$25.17
1952	1234	7,720	Dec. 21, 1951	1.9	272	\$1.18	\$16.09	200	-	\$11.82
1953	1274	8,700	Jan. 9, 1953	.1	325	\$1.41	\$19.19	337	-	19.89
1954	1334	7,300	Jan. 16, 1954	0	202	.878	11.90	190	-	11.19
1955	1384	9,340	Feb. 7, 1955	0	295	1.28	17.44	278	-	16.41
1956	1434	6,100	Apr. 6, 1956	0	236	1.03	13.99	240	-	14.23
1957	1504	11,700	Apr. 5, 1957	0	275	1.20	16.20	-	-	-
1958	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-

* Not previously published.

4238. Little Cahaba River near Brierfield, Ala.

Location.--Lat 33°03'25", long 86°57'10", in SE $\frac{1}{4}$ sec.15, T.24 N., R.11 E., on left bank 100 ft upstream from bridge on Bibb County Highway 33, $1\frac{1}{4}$ miles downstream from Mahan Creek, and 3 miles northwest of Brierfield.

Drainage area.--148 sq mi.

Records available.--December 1957 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 325 ft (from topographic map).

Extremes.--1957-60: Maximum discharge, 3,860 cfs Feb. 6, 1958 (gage height, 12.10 ft); minimum, 39 cfs Sept. 15, 16, 25, 1960 (gage height, 1.29 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	\$110	\$270	298	189	398	425	183	175	108	236	115	112	\$217
1959	144	99.0	94.7	198	337	354	219	162	151	79.2	63.7	69.8	163
1960	85.4	95.2	84.3	263	291	427	185	97.6	84.7	69.8	61.0	46.6	149

* Not previously published; estimated on the basis of records for station on Cahaba River at Centerville.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	\$0.86	\$2.04	2.32	1.47	2.80	3.31	1.38	1.36	0.81	1.84	0.89	0.84	\$19.92
1959	1.12	.75	.74	1.54	2.37	2.75	1.65	1.27	1.14	.62	.50	.53	14.98
1960	.67	.72	.66	2.05	2.12	3.33	1.40	.76	.64	.54	.48	.35	13.72

* Not previously published; see footnote to preceding table.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1958	1554	3,860	Feb. 6, 1958	-	\$217	\$1.47	\$19.92	189	-	17.31
1959	1624	1,700	Mar. 12, 1959	54	163	1.10	14.98	157	-	14.42
1960	1704	1,480	Jan. 18, 1960	40	149	1.01	13.72	-	-	-

* Not previously published.

4240. Cahaba River at Centerville, Ala.

Location--Lat 32°56', long 87°08', in E½ sec.26, T.23 N., R.9 E., on left bank below bridge on U.S. Highway 82, a quarter of a mile west of Centerville, half a mile upstream from Gulf, Mobile and Ohio Railroad bridge, and 2½ miles upstream from Sandy Creek.

Drainage area--1,029 sq mi.

Records available--August 1901 to February 1908, May 1929 to March 1932, May 1935 to September 1960. 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--33 years (1901-7, 1929-31, 1935-60), 1,561 cfs.

Extremes--1901-8, 1929-32, 1935-60: 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--An average of 53 cfs is diverted above station by Birmingham Water Works Co., and is not included in records except about 5 cfs, which is returned to river above station. Flow partly regulated by Purdy Lake (capacity, 15,300 acre-ft) on Little Cahaba River.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	553	455	979	1,566	2,783	7,042	3,978	757	412	483	274	502	1,643
1952	262	388	3,488	2,217	1,791	3,881	1,570	642	436	289	399	218	1,303
1953	196	223	618	3,870	3,843	2,435	2,423	2,899	430	434	264	234	1,477
1954	185	216	2,101	2,908	1,395	1,693	1,114	699	290	236	173	128	930
1955	124	201	655	1,708	3,648	1,901	4,959	1,657	638	1,022	453	195	1,411
1956	184	327	423	343	4,570	4,562	4,776	666	461	419	419	193	1,410
1957	292	263	646	1,392	2,352	2,197	4,918	1,219	522	505	256	658	1,258
1958	624	2,113	2,386	1,529	3,362	2,944	1,534	1,609	453	1,190	509	495	1,551
1959	743	446	497	1,664	2,540	2,820	1,339	1,368	1,499	397	289	416	1,142
1960	539	863	783	2,082	2,160	3,572	1,266	465	391	269	295	227	1,074

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,185	15.64
1951	1204	83,600	Mar. 29, 1951	208	1,643	1.60	21.67	1,826	24.08
1952	1234	26,300	Dec. 21, 1951	180	1,303	1.27	17.23	1,041	13.77
1953	1274	20,600	Jan. 10, 1953	168	1,477	1.44	19.49	1,601	21.13
1954	1334	13,800	Jan. 17, 1954	118	930	.904	12.26	800	10.56
1955	1384	27,900	Apr. 14, 1955	116	1,411	1.37	18.61	1,407	18.56
1956	1434	31,600	Mar. 16, 1956	147	1,410	1.37	18.65	1,434	18.97
1957	1504	35,400	Apr. 5, 1957	170	1,258	1.22	16.59	1,584	20.90
1958	1554	17,800	Feb. 7, 1958	214	1,551	1.51	20.45	1,263	16.66
1959	1624	10,200	Jan. 21, 1959	216	1,142	1.11	15.06	1,183	15.61
1960	1704	9,930	Mar. 4, 1960	180	1,074	1.04	14.21	-	-

4245. Cahaba River at Sprott, Ala.

Location.--Lat 32°40', long 87°14', in NE¼ sec.35, T.20 N., R.8 E., near right bank on downstream side of pier of bridge on State Highways 14 and 183 (revised), half a mile upstream from Goose Creek, 1 mile west of Sprott, and 5½ miles northeast of Marion.

Drainage area.--1,378 sq mi.

Records available.--October 1938 to September 1960. Monthly discharge only for low-water periods in water years 1938-44, published in WSP 1304.

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.--22 years (1938-60), 2,020 cfs.

Extremes.--1938-60: Maximum discharge, 85,200 cfs Aug. 16, 1939 (gage height, 27.5 ft); minimum observed since Oct. 1, 1944, 188 cfs Oct. 25, 26, 1954.
Flood of Apr. 9, 1938, reached a stage of 28.55 ft, from floodmark (discharge, 95,000 cfs).

Remarks.--For diversion and regulation above station see Remarks for station at Centerville.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	727	625	1,322	2,072	3,502	8,118	6,161	1,055	569	623	382	731	2,148
1952	428	662	3,826	3,831	2,358	5,179	2,339	1,050	646	377	538	342	1,719
1953	328	404	824	4,423	4,912	3,255	2,682	3,934	634	651	380	344	1,882
1954	281	340	2,772	3,280	1,854	2,187	1,523	960	437	345	259	207	1,205
1955	211	329	747	2,122	4,006	2,440	6,431	2,194	1,074	1,453	685	296	1,818
1956	287	474	652	519	5,531	5,992	6,228	977	646	519	297	256	1,844
1957	441	381	863	1,673	2,906	2,849	6,484	1,811	725	626	303	740	1,635
1958	817	2,648	3,115	2,016	4,141	4,187	1,964	2,043	775	2,043	807	714	2,096
1959	983	637	756	2,040	3,318	3,298	1,903	1,626	2,225	613	428	589	1,522
1960	907	1,173	1,122	2,673	3,263	4,692	1,925	727	584	431	542	416	1,534

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.61	0.51	1.11	1.73	2.65	6.79	4.99	0.88	0.46	0.52	0.32	0.59	21.16
1952	.36	.54	3.20	2.37	1.85	4.33	1.89	.88	.52	.32	.45	.28	16.99
1953	.27	.33	.69	3.70	3.71	2.72	2.17	3.29	.51	.54	.32	.28	18.53
1954	.23	.28	2.32	2.74	1.40	1.83	1.23	.80	.35	.29	.22	.17	11.86
1955	.18	.27	.63	1.78	3.09	2.04	5.21	1.94	.87	1.22	.57	.24	17.94
1956	.24	.38	.55	.43	4.33	5.01	5.04	.82	.52	.43	.25	.21	18.21
1957	.37	.51	.72	1.40	2.20	2.38	5.25	1.52	.59	.52	.25	.60	16.11
1958	.68	2.14	2.61	1.69	3.13	3.50	1.59	1.71	.63	1.71	.68	.58	20.65
1959	.82	.52	.63	1.71	2.51	2.76	1.54	1.36	1.80	.51	.36	.48	15.00
1960	.76	.95	.94	2.24	2.55	3.93	1.56	.61	.47	.36	.45	.34	15.16

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,568	15.46
1951	1204	80,000	Mar. 30, 1951	299	2,148	1.56	21.16	2,338	23.03
1952	1234	115,000	Dec. 22, 1951	296	1,719	1.25	16.99	1,435	14.18
1953	1274	18,500	Jan. 12, 1953	259	1,882	1.37	18.53	2,039	20.07
1954	1334	11,600	Jan. 18, 1954	196	1,205	1.874	11.86	1,026	10.11
1955	1384	27,000	Apr. 15, 1955	194	1,818	1.32	17.94	1,829	18.03
1956	1434	33,000	Mar. 17, 1956	216	1,844	1.34	18.21	1,868	18.44
1957	1504	33,000	Apr. 6, 1957	220	1,635	1.19	16.11	2,045	20.14
1958	1554	16,600	Feb. 8, 1958	357	2,096	1.52	20.65	1,744	17.19
1959	1624	9,400	Jan. 23, 1959	311	1,522	1.10	15.00	1,591	15.68
1960	1704	10,300	Mar. 5, 1960	327	1,534	1.11	15.16	-	-

a Maximum daily discharge.

4250. 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.--1,768 sq mi.

Records available.--October 1938 to September 1954. Monthly discharge only for period October to December 1938, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 86.72 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Subsequent to Oct. 1, 1940, auxiliary wire-weight gage at Beicot, 12 miles downstream.

Average discharge.--16 years (1938-54), 2,691 cfs.

Extremes.--1939-54: Maximum discharge, 83,400 cfs Aug. 16, 1939 (gage height, 42.95 ft); minimum observed, 224 cfs Sept. 16, 1954 (gage height, 0.80 ft).

Remarks.--For diversion and regulation above station see Remarks for station near Acton. Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	835	772	1,593	2,491	4,200	7,937	9,164	1,436	779	817	505	916	2,604
1952	550	877	4,541	3,363	3,082	6,902	3,024	1,225	748	441	689	412	2,159
1953	379	507	1,110	5,227	6,083	4,669	3,729	5,097	792	872	489	476	2,435
1954	397	512	3,736	3,811	2,388	2,923	2,326	1,354	608	424	279	230	1,583

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.54	0.48	1.04	1.62	2.47	5.18	5.78	0.94	0.49	0.53	0.33	0.58	19.99
1952	.36	.55	2.96	2.19	1.88	4.50	1.91	.80	.47	.29	.45	.26	16.62
1953	.25	.32	.72	3.41	3.58	3.04	2.35	3.32	.50	.57	.32	.30	18.68
1954	.26	.32	2.44	2.49	1.41	1.91	1.47	.88	.38	.28	.18	.15	12.17

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	1,964	15.08	
1951	1204	80,400	Mar. 31, 1951	339	2,604	1.47	19.99	2,839	21.83		
1952	1234	17,500	Dec. 24, 1951	350	2,159	1.22	16.62	1,824	14.04		
1953	1274	16,100	Jan. 13, 1953	314	2,435	1.38	18.68	2,660	20.41		
1954	1334	10,600	Jan. 19, 1954	224	1,583	.895	12.17	-	-		

4253. Butler County Pond Outlet near Greenville, Ala.

Location.--Lat 31°53', long 86°41', in sec.29, T.11 N., R.14 E., 10 ft upstream from spillway of upper pond and 5 miles northwest of Greenville.

Drainage area.--0.55 sq mi.

Records available.--October 1955 to September 1959.

Gage.--Water-stage recorder.

Extremes.--1955-59: Maximum discharge, 14 cfs Mar. 26, 1959 (gage height, 12.71 ft); minimum daily, 0.03 cfs Aug. 10, Sept. 23, 1956, Aug. 23-29, 1957. A discharge of 15.3 cfs was measured Sept. 26, 1953.

Remarks.--Flow regulated somewhat by storage in pond.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	0.248	0.144	0.248	0.232	0.369	0.448	0.337	0.256	0.345	0.342	0.100	0.414	0.290
1957	.158	.131	.542	.281	.268	.319	.663	.306	.167	.115	.109	.229	.274
1958	.210	.387	.268	.218	.228	.397	.347	.216	.240	.222	.128	.154	.251
1959	.136	.263	.252	.271	.411	.439	.370	.245	.367	.329	.248	.260	.298

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	0.52	0.29	0.52	0.49	0.72	0.94	0.68	0.54	0.70	0.72	0.21	0.84	7.17
1957	.33	.27	1.14	.59	.51	.67	1.35	.64	.54	.24	.23	.46	6.77
1958	.44	.78	.56	.46	.43	.83	.70	.45	.49	.46	.27	.31	6.18
1959	.29	.53	.53	.57	.78	.92	.75	.51	.74	.69	.52	.53	7.36

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1956	1434	11.4	Sept. 25, 1956	0.03	0.290	0.527	7.17	0.306	7.58		
1957	1504	10.7	Apr. 4, 1957	.03	.274	.498	6.77	.276	6.81		
1958	1554	2.9	Nov. 18, 1957	.07	.251	.456	6.18	.233	5.75		
1959	1624	14	Mar. 26, 1959	.07	.298	.542	7.36	-	-		

4255. 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.--217 sq mi.

Records available.--June 1952 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 123.50 ft above mean sea level, datum of 1929.

Average discharge.--8 years (1952-60), 217 cfs.

Extremes.--1952-60: Maximum discharge, 14,100 cfs Dec. 24, 1956 (gage height, 21.5 ft); minimum daily, 0.1 cfs Aug. 12, Sept. 15, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	8.25	46.4	3.78	-
1953	0.90	4.57	83.7	153	713	351	829	746	29.3	65.8	23.5	203	263
1954	28.6	50.7	840	155	311	544	162	38.7	13.0	11.7	1.04	.69	180
1955	1.64	9.34	14.9	72.6	175	31.3	722	165	55.5	110	62.7	7.43	118
1956	7.10	9.21	11.1	21.0	111	503	385	25.5	40.4	49.3	2.45	186	112
1957	57.1	21.5	731	214	231	202	1,185	259	104	62.8	12.9	100	264
1958	30.9	372	251	217	406	966	252	78.9	61.9	68.8	27.5	78.2	233
1959	14.8	22.4	39.5	162	423	685	567	105	392	127	30.6	38.2	215
1960	185	63.2	125	564	501	1,046	947	321	44.5	43.1	287	119	354

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	0.04	0.25	0.02	-
1953	0.005	0.02	0.44	0.81	3.42	1.87	4.26	3.97	0.15	.35	.12	1.04	16.46
1954	.15	.26	4.46	.82	1.49	2.89	.83	.21	.07	.06	.006	.004	11.25
1955	.009	.05	.08	.39	.84	.17	3.71	.88	.29	.59	.33	.04	7.38
1956	.03	.05	.06	.11	.55	2.67	1.98	.14	.21	.26	.01	.96	7.03
1957	.30	.11	3.89	1.14	1.11	1.08	6.09	1.38	.54	.33	.07	.51	16.55
1958	.16	1.91	1.33	1.15	1.95	5.13	1.29	.42	.32	.37	.15	.40	14.58
1959	.08	.11	.21	.86	2.03	3.63	2.92	.56	2.01	.68	.16	.20	13.45
1960	.98	.32	.67	3.00	2.49	5.56	4.87	1.71	.23	.23	1.53	.61	22.20

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-
1952	1274	al,030	Aug. 10, 1952	-	-	-	-	-	-	-
1953	1274	7,940	May 3, 1953	0.5	263	1.21	16.46	334	20.86	
1954	1334	5,040	Dec. 5, 1953	.1	180	.829	11.25	104	6.52	
1955	1384	8,360	Apr. 10, 1955	.4	118	.544	7.38	118	7.38	
1956	1434	5,360	Apr. 6, 1956	.8	112	.516	7.03	178	11.19	
1957	1504	14,100	Dec. 24, 1956	2.5	264	1.22	16.55	250	15.65	
1958	1554	11,800	Mar. 7, 1958	6.1	233	1.07	14.58	185	11.58	
1959	1624	5,940	Mar. 28, 1959	11	215	.991	13.45	240	15.02	
1960	1704	9,360	Apr. 3, 1960	14	354	1.63	22.20	-	-	

a Maximum for period June to September.

4260. 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., 300 ft downstream from bridge on U.S. Highway 80, a 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.--104 sq mi.

Records available.--October 1943 to June 1954, water years 1954-60 (annual maximum). Prior to February 1944 monthly discharge only, published in WSP 1304.

Gage.--Crest-stage gage. 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. 4, 1945, chain gage, Feb. 4, 1945, to Dec. 10, 1949, wire-weight gage, and Dec. 10, 1949, to June 1954, water-stage recorder, at highway bridge 300 ft upstream at same datum.

Average discharge.--11 years (1943-54), 137 cfs.

Extremes.--1943-60: Maximum discharge, 14,200 cfs Mar. 29, 1951 (gage height, 19.0 ft).

1943-54: No flow for many days in 1951-53.

Flood of Dec. 28, 1942, reached a stage of 20.7 ft, from floodmarks (discharge, 19,000 cfs, from rating curve extended above 14,000 cfs).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	12.4	14.5	109	134	196	776	197	35.2	18.3	2.92	0.38	7.01	125
1952	3.12	11.6	139	143	97.4	480	105	43.3	9.77	.223	2.42	0	86.7
1953	.4	5.7	54.4	247	488	199	210	157	4.35	35.0	1.53	.57	115
1954	2.47	7.53	291	64.5	82.6	145	147	27.9	3.96	-	-	-	\$64.5

* Not previously published, yearly figures only estimated; monthly figures not available for July, August, and September.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.14	0.16	1.21	1.49	1.96	8.60	2.12	0.39	0.20	0.03	0.004	0.08	16.38
1952	.03	.12	1.54	1.59	1.01	5.32	1.12	.46	.10	.002	.03	0	11.34
1953	.005	.06	.60	2.74	4.88	2.21	2.25	1.74	.05	.39	.02	.006	14.95
1954	.03	.08	3.23	.71	.83	1.61	1.57	.31	.04	-	-	-	\$8.42

* Not previously published; see footnote for preceding table.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	65.9	8.61
1951	1204	14,200	Mar. 29, 1951	0	125	1.20	16.38	127	16.56
1952	1234	5,670	Mar. 4, 1952	0	86.7	.834	11.34	78.8	10.32
1953	1274	2,690	Feb. 21, 1953	0	115	1.11	14.95	135	17.63
1954	1334	2,440	Apr. 16, 1954	-	\$64.5	\$.620	\$8.42	-	-
1955	-	4,950	Apr. 13, 1955	-	-	-	-	-	-
1956	-	5,170	Mar. 14, 1956	-	-	-	-	-	-
1957	-	720	Apr. 4, 1957	-	-	-	-	-	-
1958	-	3,310	Mar. 7, 1958	-	-	-	-	-	-
1959	-	(a)	-	-	-	-	-	-	-
1960	-	1,740	Oct. 15, 1959	-	-	-	-	-	-

* Not previously published.

a No peak above 450 cfs.

4273. Prairie Creek near Oak Hill, Ala.

Location.--Lat 31°56', long 87°06', in N $\frac{1}{2}$ sec.18, T.11 N., R.10 E., at right bank on downstream end of pier of bridge on State Highway 10, 0.3 mile downstream and 0.4 mile upstream from small unnamed tributaries, 1.4 miles west of Oak Hill, and about 6 miles above junction with Pine Barren Creek.

Drainage area.--9.73 sq mi.

Records available.--July 1959 to September 1960.

Gage.--Water-stage recorder.

Extremes.--1959-60: Maximum discharge, 1,320 cfs May 7, 1960 (gage height, 12.32 ft); no flow for many days.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	-	4.81	4.46	-
1960	15.8	2.49	7.08	32.2	33.6	45.1	27.1	14.8	0.43	0.99	8.89	2.36	16.0

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	-	0.57	0.51	-
1960	1.87	0.29	0.84	3.81	3.72	5.34	3.11	1.75	0.05	0.12	1.17	.27	22.34

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	1704	-	-	0	-	-	-	-	-
1960	1704	1,320	May 7, 1960	0	16.0	1.64	22.34	-	-

4275. 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 handrail 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. Gage-height records collected at same site since 1931 are contained in reports of U.S. Weather Bureau.

Gage.--Wire-weight gage. 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. Since Aug. 6, 1940, auxiliary staff gage 9 $\frac{1}{2}$ miles downstream from base gage.

Average discharge.--17 years (1937-54), 30,330 cfs.

Extremes.--1937-54: Maximum discharge, 237,000 cfs Apr. 14, 1938 (gage height, 56.6 ft); minimum daily, 3,700 cfs 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.--Flow regulated by upstream reservoirs on Etowah, Coosa, and Tallapoosa Rivers.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	13,760	12,800	16,220	22,590	31,600	41,280	92,750	22,070	12,720	15,850	10,780	9,540	24,870
1952	8,335	13,530	45,310	41,060	42,380	86,700	40,960	21,550	16,750	9,754	11,870	9,791	29,020
1953	8,596	8,768	18,480	56,100	57,640	59,000	45,880	66,780	17,250	15,820	11,350	10,940	31,290
1954	11,000	9,755	41,430	46,130	31,000	32,770	33,450	16,230	11,990	8,186	7,876	6,509	21,180

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	24,600	16.13
1951	1204	155,000	Apr. 4, 5, 1951	5,610	24,870	1.20	16.31	26,940	17.66
1952	1234	113,000	Dec. 24, 1951	4,890	29,020	1.40	19.08	26,380	17.35
1953	1274	127,000	Feb. 28, 1953	5,060	31,290	1.51	20.52	33,520	21.98
1954	1334	85,300	Jan. 27, 1954	3,700	21,180	1.02	13.89	-	-

4277. Turkey Creek at Kimbrough, Ala.

Location.--Lat 32°01', long 87°33', in SE $\frac{1}{4}$ sec.10, T.12 N., R.5 E., on right bank on upstream side of pier of bridge on county road, 0.3 mile upstream from Southern Railway bridge, 0.6 mile downstream from State Highway 5, 1 mile south of Kimbrough, and 2 miles upstream from mouth.

Drainage area.--114 sq mi.

Records available.--August 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 58.78 ft above mean sea level, datum of 1929.

Extremes.--1958-60: Maximum discharge, 7,310 cfs June 2, 1960 (gage height, 19.90 ft); minimum, 3.2 cfs Sept. 8-11, 1959.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	-	33.4	-
1959	8.04	14.1	16.5	66.5	237	183	208	46.0	65.4	43.3	16.6	13.3	78.6
1960	184	121	42.5	264	264	489	277	135	294	26.1	51.8	23.7	181

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	-	0.33	-
1959	0.08	0.14	0.17	0.68	2.17	1.85	2.04	0.47	0.84	0.44	0.17	.13	9.38
1960	1.86	1.19	.43	2.67	2.50	4.95	2.71	1.37	2.88	.26	.52	.23	21.57

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1958	1624	-	-	-	-	-	-	-	-
1959	1624	1,900	Apr. 1, 1959	3.2	78.6	0.689	9.38	105	12.47
1960	1704	7,310	June 2, 1960	4.3	181	1.59	21.57	-	-

4283. Tallatchee Creek near Vredenburgh, Ala.

Location.--Lat 31°48', long 87°18', in N $\frac{1}{2}$ sec.31, T.10 N., R.8 E., near midstream on downstream side of bridge on Monroe County road No. 56, 0.8 mile upstream from St. Louis-San Francisco Railway bridge, 1 mile upstream from small tributary, 1.1 miles southeast of Vredenburgh, and about 10 miles upstream from mouth.

Drainage area.--14.6 sq mi.

Records available.--October 1958 to September 1960.

Gage.--Water-stage recorder and steel sheet piling control. Datum of gage is 109.73 ft above mean sea level, datum of 1929.

Extremes.--1959-60: Maximum discharge, 2,430 cfs June 9, 1959 (gage height, 11.10 ft); no flow for many days each year.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	0.232	0.427	1.56	11.2	42.3	52.1	25.9	6.00	49.3	3.03	1.34	13.6	17.0
1960	24.4	3.77	5.93	34.2	40.5	63.6	33.1	16.3	.543	2.81	14.1	11.1	20.9

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	0.02	0.03	0.12	0.69	3.02	4.11	1.98	0.47	3.77	0.24	0.11	1.04	15.80
1960	1.93	.29	.47	2.70	3.00	5.02	2.53	1.29	.04	.22	1.12	.85	19.46

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	1624	2,430	June 9, 1959	0	17.0	1.16	15.80	19.7	18.32
1960	1704	1,000	Mar. 29, 1960	0	20.9	1.43	19.46	-	-

4285. 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 41 (revised), three-quarters of a mile downstream from St. Louis-San Francisco Railroad 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.--245 sq mi.

Records available.--October 1943 to September 1960. Monthly discharge only for period October 1943 to February 1944, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 45.43 ft (revised), above mean sea level, datum of 1929. Prior to July 12, 1944, wire-weight gage at same site and datum.

Average discharge.--17 years (1943-60), 305 cfs.

Extremes.--1943-60: Maximum discharge, 26,000 cfs Nov. 27, 1948 (gage height, 23.2 ft), from rating curve extended above 17,000 cfs by logarithmic plotting; minimum, 0.2 cfs Sept. 13, 14, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	16.7	15.3	40.5	112	185	472	788	65.8	60.6	19.3	7.31	15.4	149
1952	6.95	18.9	59.0	76.6	144	380	375	248	36.5	8.32	31.2	10.4	116
1953	3.34	12.1	85.5	191	789	395	870	418	31.1	118	25.2	13.0	242
1954	9.00	39.6	875	193	322	499	150	26.4	12.4	13.7	4.20	1.05	179
1955	2.81	6.26	13.4	64.9	157	27.8	1,055	198	44.9	106	69.2	10.5	145
1956	4.58	8.18	11.6	16.8	113	512	139	21.4	17.9	265	5.85	7.85	94.1
1957	14.9	8.94	388	134	215	183	1,598	309	245	112	11.7	234	296
1958	88.5	765	318	371	512	902	416	144	120	177	35.4	149	331
1959	28.7	27.4	47.2	211	676	705	553	89.6	779	121	114	335	303
1960	513	194	191	681	760	1,212	991	262	48.9	87.9	118	146	433

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.08	0.07	0.19	0.53	0.79	2.22	3.59	0.31	0.28	0.09	0.03	0.07	8.25
1952	.03	.09	.28	.36	.64	1.79	1.71	1.17	.17	.04	.15	.05	6.48
1953	.02	.05	.40	.90	3.35	1.86	3.96	1.97	.14	.56	.12	.08	13.39
1954	.04	.18	4.12	.91	1.37	2.35	.68	.12	.06	.06	.02	.005	9.92
1955	.01	.03	.06	.31	.67	.13	4.80	.93	.20	.50	.33	.05	8.02
1956	.02	.04	.05	.08	.50	2.41	.63	.10	.08	1.25	.03	.04	5.23
1957	.07	.04	1.83	.63	.91	.86	7.28	1.46	1.12	.53	.06	1.07	15.86
1958	.42	3.49	1.49	1.75	2.18	4.25	1.89	.68	.54	.83	.17	.68	18.37
1959	.14	.12	.22	.99	2.87	3.32	2.52	.42	3.55	.57	.54	1.52	16.78
1960	2.41	.88	.90	3.21	3.35	5.70	4.51	1.23	.22	.41	.55	.66	24.03

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	146	8.09
1951	1204	4,490	Apr. 21, 1951	2.3	149	0.608	8.25	150	8.31
1952	1234	1,820	Mar. 24, 1952	3.2	116	.473	6.48	118	6.55
1953	1274	2,790	Apr. 9, 1953	1.6	242	.988	13.39	311	17.26
1954	1334	2,210	Dec. 6, 1953	.2	179	.731	9.92	103	5.68
1955	1384	6,220	Apr. 15, 1955	.7	145	.592	8.02	145	8.03
1956	1434	3,960	July 8, 1956	1.6	94.1	.385	5.23	127	7.06
1957	1504	15,100	Apr. 6, 1957	4.2	286	1.17	15.86	348	19.32
1958	1554	3,160	Mar. 10, 1958	6.5	331	1.35	18.37	243	13.45
1959	1624	6,040	June 11, 1959	14	303	1.24	16.78	370	20.49
1960	1704	6,040	Mar. 31, 1960	22	433	1.77	24.03	-	-

MOBILE RIVER BASIN

4290. 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 41, 3 miles northwest of Monroeville, and 10 miles upstream from mouth.

Drainage area.--117 sq mi.

Records available.--December 1951 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 104.88 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Average discharge.--8 years (1952-60), 137 cfs.

Extremes.--1951-60: Maximum discharge, 9,770 cfs Apr. 14, 1955 (gage height, 11.50 ft); minimum, 10 cfs June 10, 1956.

Flood in March 1929 reached a stage of about 22 ft, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	85.7	129	257	246	110	38.2	31.0	62.0	44.4	-
1953	25.3	33.3	153	160	331	250	299	200	49.4	118	65.6	48.4	143
1954	37.7	83.6	578	196	242	240	137	51.5	31.4	32.7	17.1	14.3	138
1955	19.0	29.1	49.3	94.9	124	49.6	446	113	60.8	75.5	47.0	21.8	93.5
1956	21.4	35.1	36.9	51.7	116	205	68	29.5	32.4	181	16.1	40.4	69.5
1957	33.4	35.7	336	124	84.2	98.1	466	151	107	62.8	29.1	178	142
1958	92.5	303	188	183	264	294	216	96.6	47.5	64.9	52.9	75.6	156
1959	44.2	51.6	57.9	104	254	294	250	84.2	198	93.6	70.9	136	135
1960	202	139	154	274	268	492	527	185	87.2	74.5	95.2	163	221

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	0.84	1.19	2.53	2.35	1.08	0.36	0.31	0.61	0.42	-
1953	0.25	0.32	1.50	1.57	2.95	2.46	2.84	1.97	.47	1.16	.63	.46	16.58
1954	.37	.80	5.69	1.93	2.15	2.36	1.31	.51	.30	.32	.17	.14	16.05
1955	.19	.28	.49	.94	1.11	.49	4.26	1.11	.58	.74	.46	.21	10.86
1956	.21	.33	.36	.51	1.07	2.02	.65	.29	.31	1.79	.16	.38	8.08
1957	.33	.34	3.31	1.23	.75	.97	4.45	1.49	1.02	.62	.29	1.70	16.50
1958	.91	2.89	1.85	1.81	2.35	2.90	2.06	.95	.45	.64	.52	.72	18.05
1959	.44	.49	.57	1.03	2.26	2.89	2.39	.83	1.89	.92	1.70	1.30	15.71
1960	1.99	1.33	1.51	2.70	2.47	4.85	5.03	1.80	.83	.73	.94	1.55	25.73

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234	3,070	Mar. 23, 1952	-	-	-	-	101	11.76
1953	1274	1,710	(a)	23	143	1.22	16.58	184	21.37
1954	1334	4,300	Dec. 4, 1953	12	138	1.18	16.05	87.4	10.15
1955	1384	9,770	Apr. 14, 1955	15	93.5	.799	10.86	93.1	10.80
1956	1434	5,550	July 8, 1956	11	69.5	.594	8.08	95.9	11.16
1957	1504	6,760	Dec. 23, 1956	16	142	1.21	16.50	157	18.17
1958	1554	2,490	Nov. 14, 1957	24	156	1.33	18.05	120	13.90
1959	1624	2,180	June 10, 1959	33	135	1.15	15.71	164	19.04
1960	1704	4,660	Mar. 30, 1960	45	221	1.89	25.73	-	-

a Dec. 10, 1952, Apr. 7, 1953.

4295. 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 1960.

Gage--Water-stage recorder. Datum of gage is 0.4 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Average discharge--30 years (1930-60), 31,140 cfs.

Extremes--1930-60: Maximum discharge, 227,000 cfs Apr. 16, 17, 1938; maximum gage height, 52.25 ft Apr. 17, 1938; minimum discharge, 4,450 cfs Oct. 1, 1954.

Flood of Mar. 25, 1929, is reported to have reached a stage of 54.6 ft (discharge, 270,000 cfs).

Remarks--Flow regulated by upstream reservoirs on Etowah, Coosa, and Tallapoosa Rivers.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	13,890	12,810	16,410	24,300	33,720	40,510	99,190	23,960	13,400	13,980	11,030	9,635	25,920
1952	8,823	13,670	41,990	42,830	44,010	85,350	46,300	22,110	17,490	9,990	11,590	9,679	29,540
1953	8,484	8,590	18,580	55,680	56,290	66,050	48,990	70,270	15,750	15,370	11,240	10,030	32,030
1954	12,030	10,110	43,980	44,880	35,920	34,800	33,460	16,710	11,980	7,758	7,853	7,060	22,010
1955	6,133	6,815	7,975	22,230	39,990	30,330	73,670	22,940	18,050	15,120	15,380	8,688	22,080
1956	8,127	9,621	11,720	9,110	50,150	67,850	61,730	19,880	11,140	12,670	7,692	9,224	23,100
1957	11,900	9,242	22,770	23,330	50,420	36,580	98,490	35,150	19,690	17,700	9,680	13,200	28,770
1958	20,330	41,950	52,100	32,600	52,250	73,150	46,910	33,670	15,000	27,790	15,400	14,440	35,390
1959	13,870	11,620	14,310	24,880	48,940	43,750	41,830	19,080	38,790	11,970	9,800	11,240	23,950
1960	17,290	18,700	21,440	36,080	57,530	65,880	61,300	19,980	12,280	9,414	12,340	10,560	28,440

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean
		Discharge	Date					
1950	-	-	-	-	-	-	-	25,100
1951	1204	148,000	Apr. 8, 1951	6,710	25,920	1.18	15.99	27,740
1952	1234	107,000	Mar. 31, 1952	6,020	29,540	1.34	18.28	27,110
1953	1274	124,000	Mar. 1, 2, 1953	5,900	32,030	1.46	19.76	34,620
1954	1354	81,300	Jan. 27, 1954	4,840	22,010	1.00	13.58	18,180
1955	1384	135,000	Apr. 20, 1955	4,970	22,080	1.00	13.62	22,800
1956	1434	128,000	Mar. 23, 1956	5,490	23,100	1.05	14.30	24,320
1957	1504	155,000	Apr. 14, 1957	6,990	28,770	1.31	17.75	34,660
1958	1554	119,000	Mar. 13, 1958	9,400	35,390	1.61	21.84	29,140
1959	1624	71,200	June 10, 1959	8,280	23,950	1.09	14.78	25,430
1960	1704	112,000	Apr. 7, 8, 1960	7,860	28,440	1.29	17.60	-

4300. 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 10 miles upstream from confluence with Browns Creek.

Drainage area.--66 sq mi, approximately.

Records available.--October 1937 to September 1960. 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.--23 years (1937-60), 104 cfs.

Extremes.--1937-60: Maximum discharge, 16,300 cfs Mar. 21, 1955 (gage height, 28.44 ft), from rating curve extended above 4,200 cfs on basis of slope-area measurement of peak flow; minimum since Jan. 1, 1944, 8.2 cfs Sept. 3, 4, 5, 1954.

Correction.--In WSP 1304, the momentary maximum for water year 1949 is listed in error; it should be 3,330 cfs.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	57.0	92.7	139	246	416	347	200	73.5	56.5	59.3	29.5	47.6	145
1952	41.8	86.7	321	255	161	220	130	71.1	32.6	30.3	41.7	25.9	118
1953	27.1	56.2	68.1	160	375	562	221	168	42.6	46.1	24.9	23.0	130
1954	20.5	29.6	57.6	170	117	83.6	119	79.0	31.6	19.9	12.4	10.9	62.3
1955	17.5	22.8	68.1	76.4	160	553	162	145	53.4	68.7	25.4	14.1	114
1956	20.2	40.1	65.7	47.5	239	98.2	192	135	28.9	19.0	22.6	15.6	76.2
1957	20.2	26.7	79.5	160	274	87.3	136	37.7	70.2	37.4	19.8	59.7	82.6
1958	57.0	40.8	181	104	116	113	209	167	71.4	93.9	45.0	81.5	137
1959	42.1	70.0	53.4	111	129	90.8	122	69.6	57.5	27.7	27.4	27.9	68.6
1960	34.5	42.5	144	127	98.2	186	127	58.6	31.5	17.7	24.3	50.8	78.6

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.00	1.57	2.43	4.29	6.56	6.06	3.38	1.28	0.96	1.04	0.51	0.80	29.88
1952	.73	1.47	5.61	4.45	2.63	3.84	2.20	1.24	.55	.53	.73	.44	24.42
1953	.47	.95	1.19	2.79	5.88	6.33	3.74	2.94	.72	.81	.44	.39	26.65
1954	.36	.50	1.01	2.98	1.85	1.46	2.01	1.38	.53	.35	.22	.19	12.84
1955	.31	.39	1.19	1.33	2.53	9.66	2.74	2.52	.90	1.20	.44	.24	23.45
1956	.35	.68	1.15	.83	3.91	1.71	3.24	2.35	.49	.33	.40	.26	15.70
1957	.35	.45	1.39	2.80	4.32	1.52	2.30	.86	1.19	1.65	.35	1.01	16.99
1958	1.00	6.89	3.16	1.82	1.83	1.96	3.53	2.91	1.21	1.64	.79	1.38	28.14
1959	.74	1.18	.93	1.95	2.04	1.59	2.08	1.22	.97	.48	.48	.47	14.11
1960	.60	.72	2.51	2.22	1.61	3.26	2.15	1.02	.53	.31	.42	.86	16.21

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	153	31.50
1951	1204	1504	4,760	Mar. 29, 1951	22	145	2.20	29.88	32.69
1952	1234	1,910	Dec. 26, 1951	17	118	1.79	24.42	93.2	19.22
1953	1274	2,780	Feb. 21, 1953	17	130	1.97	26.65	126	25.91
1954	1334	-	Jan. 22, 1954	8.8	62.3	.944	12.84	62.4	12.86
1955	1384	16,300	Mar. 21, 1955	11	114	1.73	23.45	115	23.74
1956	1434	1,850	Feb. 18, 1956	11	76.2	1.15	15.70	78.2	15.71
1957	1504	2,950	Feb. 1, 1957	12	82.6	1.25	16.99	128	25.85
1958	1554	2,250	Nov. 14, 1957	23	137	2.08	28.14	96.9	19.94
1959	1624	510	Jan. 22, 1959	15	68.6	1.04	14.11	73.3	15.09
1960	1704	1,360	Dec. 19, 1959	11	78.6	1.19	16.21	-	-

4310. 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, $\frac{1}{2}$ miles upstream from Mantachie Creek Canal, and 1 $\frac{3}{4}$ miles downstream from Twentymile Creek Canal.

Drainage area.--605 sq mi.

Records available.--August 1928 to September 1960. 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.--32 years (1928-60), 894 cfs.

Extremes.--1928-60: Maximum discharge, 82,200 cfs Mar. 22, 1955 (gage height, 25.75 ft), from rating curve extended above 30,000 cfs on basis of estimate of flow made by indirect methods and by logarithmic plotting; minimum, 12 cfs Aug. 31 to Sept. 2, 1943; minimum gage height, 0.87 ft Aug. 12, 1930.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	264	954	1,470	2,808	4,291	3,172	1,928	426	254	303	100	135	1,324
1952	126	421	2,937	2,478	1,521	1,901	1,105	410	153	77.7	125	69.2	946
1953	77.3	215	297	879	3,404	2,471	1,617	1,766	157	348	69.0	50.8	930
1954	50.8	79.6	225	1,332	1,036	577	857	555	108	62.9	31.0	21.2	408
1955	36.8	64.3	201	477	1,283	4,546	1,689	877	337	490	108	41.1	846
1956	48.7	94.5	281	228	2,819	960	2,458	1,230	121	82.1	63.0	30.5	690
1957	39.9	72.2	386	1,315	3,699	933	1,238	228	884	625	106	298	797
1958	412	4,606	1,960	1,112	964	1,306	2,029	1,720	367	540	214	817	1,334
1959	215	425	395	1,261	1,543	788	1,080	463	686	228	80.9	97.6	598
1960	124	187	1,627	1,560	1,268	2,357	1,157	406	142	63.2	67.5	212	765

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.50	1.76	2.80	5.35	7.39	6.05	3.56	0.81	0.47	0.58	0.19	0.25	29.71
1952	.24	.78	5.60	4.72	2.71	3.62	2.04	.78	.28	.15	.24	.13	21.29
1953	.15	.40	.57	1.67	5.86	4.71	2.98	3.56	.29	.66	.13	.09	20.87
1954	.10	.15	.43	2.54	1.78	1.10	1.58	1.06	.20	.12	.06	.04	9.15
1955	.07	.12	.38	.91	2.21	8.66	3.12	1.67	.62	.93	.21	.08	18.98
1956	.09	.17	.54	.44	5.02	1.83	4.53	2.34	.22	.16	.12	.06	15.52
1957	.08	.13	.74	2.51	6.37	1.78	2.28	.43	1.63	1.19	.21	.55	17.90
1958	.79	8.50	3.73	2.12	1.66	2.49	3.74	3.28	.68	1.03	.41	1.51	29.94
1959	.41	.78	.75	2.40	2.66	1.50	1.99	.88	1.27	.44	.15	.18	13.41
1960	.24	.34	3.10	2.97	2.26	4.49	2.13	.77	.26	.12	.13	.39	17.20

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,488	33.39
1951	1204	34,500	Mar. 29, 1951	46	1,324	2.19	29.71	1,393	31.27
1952	1234	13,800	Dec. 27, 1951	34	946	1.56	21.29	701	15.79
1953	1274	16,900	Feb. 22, 1953	34	930	1.54	20.87	911	20.43
1954	1354	11,400	Jan. 23, 1954	16	408	.674	9.16	403	9.05
1955	1384	82,200	Mar. 22, 1955	24	846	1.40	18.98	856	19.21
1956	1434	12,900	Feb. 5, 19, 1956	21	690	1.14	15.52	696	15.67
1957	1504	29,000	Feb. 2, 1957	23	797	1.32	17.90	1,335	29.97
1958	1554	24,800	Nov. 15, 1957	74	1,334	2.20	29.94	840	18.86
1959	1624	6,000	Feb. 15, 1959	51	598	.988	13.41	675	15.15
1960	1704	13,600	Mar. 4, 1960	37	765	1.26	17.20	-	-

4325. Bull Mountain Creek at Tremont, Miss.

Location.--Lat 34°14'20", long 88°16'15", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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, $\frac{1}{2}$ miles upstream from Cypress Creek, $\frac{3}{4}$ miles upstream from Chubby Creek, and 8 miles southeast of Fulton.

Drainage area.--120 sq mi, approximately.

Records available.--October 1943 to September 1960.

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.--17 years (1943-60), 203 cfs.

Extremes.--1943-60: Maximum discharge not determined, occurred Mar. 21, 1955 (gage height, 11.28 ft); minimum, 4.6 cfs Sept. 13, 1954 (gage height, 1.78 ft).

Remarks.--Bull Mountain, Cypress, and Chubby Creeks overflow into the same flood plain above station which may result in natural diversion from one stream to the others at flood stages.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	56.5	159	215	285	1,056	757	426	117	62.3	131	37.8	37.4	273
1952	35.5	136	842	349	285	357	190	77.0	37.7	19.8	36.8	31.5	199
1953	28.4	62.1	110	278	656	266	283	379	57.2	52.0	19.2	26.2	192
1954	19.5	30.1	80.1	451	250	156	322	115	35.8	23.7	12.9	7.18	125
1955	16.8	43.3	201	187	589	907	387	145	77.4	123	33.6	13.1	225
1956	18.4	43.2	71.9	64.4	445	236	532	166	34.4	20.5	23.1	24.7	136
1957	25.2	46.2	326	320	705	276	244	139	175	96.9	24.8	35.4	198
1958	71.8	714	318	219	244	253	328	436	71.8	97.1	61.8	198	250
1959	64.6	95.0	82.3	251	326	198	321	146	88.2	52.4	31.2	39.9	140
1960	56.2	92.9	275	358	260	519	234	104	47.5	22.8	33.0	42.9	171

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.54	1.48	2.07	2.74	9.16	7.28	3.96	1.12	0.58	1.26	0.36	0.35	30.90
1952	.32	1.26	8.09	3.36	2.38	3.43	1.76	.74	.35	.19	.35	.29	22.52
1953	.27	.58	1.06	2.67	5.69	2.56	2.63	3.64	.53	.50	.18	.24	20.55
1954	.19	.28	.77	4.33	2.17	1.50	2.99	1.11	.33	.23	.12	.07	14.09
1955	.16	.40	1.93	1.80	5.11	8.72	3.59	1.39	.72	1.19	.32	.12	25.45
1956	.18	.40	.69	.62	4.00	2.26	4.95	1.59	.32	.20	.22	.23	15.66
1957	.24	.43	3.13	3.07	6.12	2.65	2.27	1.54	1.63	.93	.24	.33	22.58
1958	.69	6.63	3.05	2.11	2.11	2.43	3.05	4.19	.67	.93	.59	1.84	28.29
1959	.62	.88	.79	2.42	2.83	1.90	2.98	1.40	.82	.50	.30	.37	15.81
1960	.54	.86	2.64	3.44	2.34	4.99	2.17	1.00	.44	.22	.32	.40	19.36

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	281	31.81	
1951	1204	13,500	Mar. 29, 1951	22	273	2.28	30.90	323	36.48	
1952	1234	5,000	Dec. 26, 1951	12	199	1.66	22.52	130	14.76	
1953	1274	5,600	Apr. 30, 1953	13	182	1.52	20.55	176	19.98	
1954	1334	5,040	Jan. 22, 1954	5.0	125	1.04	14.09	136	15.34	
1955	1384	-	Mar. 21, 1955	7.9	225	1.88	25.45	214	24.23	
1956	1434	3,310	Apr. 7, 1956	8.0	138	1.15	15.66	160	18.19	
1957	1504	7,540	Feb. 1, 1957	13	198	1.65	22.38	256	28.95	
1958	1554	4,050	Nov. 18, 1957	27	250	2.08	28.29	179	20.21	
1959	1624	1,580	Feb. 14, 1959	21	140	1.17	15.81	155	17.56	
1960	1704	3,700	Mar. 3, 1960	12	171	1.42	19.36	-	-	

4330. 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 Mississippiian 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 1960.

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.--20 years (1940-60), 522 cfs.

Extremes.--1940-60: Maximum discharge not determined, occurred Mar. 22, 1955 (gage height, 17.18 ft); minimum, 19 cfs Aug. 28 to Sept. 3, 1943 (period of doubtful gage-height record), Sept. 10, 13, 14, 15, 1954.

Flood in December 1926 reached a stage of 15.7 ft, from floodmark (discharge, about 29,000 cfs), from information by Corps of Engineers.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	130	385	626	902	2,539	2,058	1,411	315	143	323	89.3	96.1	739
1952	78.6	311	2,198	920	720	1,022	522	181	102	54.5	75.9	59.2	524
1953	59.9	123	242	747	1,748	879	651	1,339	116	123	50.7	47.6	503
1954	45.8	61.7	148	1,059	655	405	801	339	82.8	70.3	40.8	23.8	309
1955	38.3	67.1	183	525	1,420	2,270	1,190	400	194	355	91.6	43.0	560
1956	41.4	93.4	173	137	1,174	666	1,468	515	82.5	51.3	46.4	43.0	369
1957	45.1	83.8	728	816	2,107	803	633	363	411	307	66.0	110	529
1958	193	2148	1,000	668	724	776	1,044	1,253	187	255	165	472	738
1959	177	236	216	782	969	594	1,218	427	246	140	78.8	77.2	425
1960	118	206	784	1,041	766	1,375	767	293	132	64.0	71.0	92.8	476

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.45	1.28	2.15	3.10	7.89	7.08	4.70	1.08	0.48	1.11	0.31	0.32	29.95
1952	.27	1.04	7.56	3.17	2.41	3.52	1.74	.82	.34	.19	.26	.20	21.32
1953	.21	.41	.83	2.57	5.43	3.02	2.17	4.61	.39	.42	.17	.16	20.39
1954	.15	.21	.51	3.64	2.04	1.39	2.67	1.16	.28	.24	.14	.09	12.51
1955	.13	.22	.63	1.81	4.42	7.82	3.97	1.38	.65	1.22	.32	.14	22.71
1956	.14	.31	.60	.47	3.78	2.29	4.89	1.77	.27	.18	.16	.14	15.00
1957	.16	.28	2.50	2.81	6.55	2.78	2.11	1.25	1.37	1.06	.23	.37	21.45
1958	.66	7.15	3.44	2.30	2.25	2.67	3.48	4.51	.62	.88	.57	1.57	29.90
1959	.61	7.18	.74	2.69	3.01	2.05	4.06	1.47	.82	.48	.27	.26	17.24
1960	.41	.69	2.70	3.58	2.47	4.73	2.56	1.01	.44	.22	.24	.31	19.36

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	779	31.56
1951	1204	26,700	Mar. 29, 1951	57	739	2.21	29.95	862	34.94
1952	1234	7,650	Dec. 27, 1951	41	524	1.56	21.32	342	13.90
1953	1274	10,500	Feb. 22, 1953	31	503	1.50	20.39	489	19.81
1954	1334	8,800	Jan. 25, 1954	19	309	.922	12.51	312	12.62
1955	1384	-	Mar. 22, 1955	25	560	1.67	22.71	562	22.78
1956	1434	5,950	Apr. 8, 1956	25	369	1.10	15.00	416	16.89
1957	1504	18,000	Feb. 2, 1957	34	529	1.58	21.45	734	29.76
1958	1554	12,200	Nov. 18, 1957	66	738	2.20	29.90	513	20.76
1959	1624	3,070	Feb. 16, 1959	51	425	1.27	17.24	466	18.91
1960	1704	-	Mar. 4, 1960	48	476	1.42	19.36	-	-

4335. East Fork Tombigbee River at Bigbee, Miss.

Location--Lat 34°00'40", long 88°30'50", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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, 8 $\frac{1}{2}$ miles downstream from Boguefala Creek, and 15 $\frac{1}{2}$ miles downstream from Bull Mountain Creek.

Drainage area--1,194 sq mi.

Records available--October 1944 to September 1954. Monthly discharge only for some periods, published in WSP 1304.

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--10 years (1944-54), 2,157 cfs.

Extremes--1944-54: 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, 29 cfs Sept. 15, 1954 (gage height, 1.10 ft).

Remarks--Some regulation at low flow by operation of gravel pit above station in 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	540	1,618	2,689	4,560	8,040	6,475	5,125	1,036	453	846	234	255	2,620
1952	218	853	5,855	3,844	3,027	3,840	2,058	757	303	154	229	142	1,777
1953	150	365	600	1,926	6,466	4,976	3,105	4,625	362	731	158	127	1,940
1954	112	159	424	3,112	2,437	1,571	2,512	1,452	252	152	80.4	53.7	1,018

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.52	1.51	2.60	4.40	7.01	6.25	4.79	1.00	0.42	0.82	0.23	0.24	29.79
1952	.21	.80	5.65	3.71	2.73	3.71	1.92	.73	.28	.15	.22	.13	20.24
1953	.14	.34	.58	1.86	5.64	4.80	2.90	4.47	.34	.71	.15	.12	22.05
1954	.11	.15	.41	3.01	2.13	1.52	2.35	1.40	.24	.15	.08	.05	11.60

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	2,836	32.24
1951	1204	43,900	Mar. 30, 1951	135	2,620	2.19	29.79	2,799	31.82
1952	1234	17,800	Dec. 29, 1951	86	1,777	1.49	20.24	1,286	14.64
1953	1274	25,000	Feb. 23, 1953	89	1,940	1.62	22.05	1,905	21.66
1954	1334	15,100	Jan. 25, 1954	39	1,018	.853	11.60	-	-

4340. Oldtown Creek at Tupelo, Miss.

Location.--Lat 34°17'40", long 88°42'35", in SW¹/₄SE¹/₄ 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. At site used prior to Oct. 1, 1951, 114 sq mi.

Records available.--October 1943 to September 1946, October 1951 to September 1960. Monthly discharge only for October 1943 to January 1944, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 244.24 ft above mean sea level, datum of 1929 (levels by Mississippi State Highway Department). Feb. 9 to Aug. 2, 1944, chain gage and Aug. 3, 1944, to Sept. 30, 1946, wire-weight gage, at site 2¹/₂ miles downstream at different datum.

Average discharge.--12 years (1943-46, 1951-60), 180 cfs.

Extremes.--1943-46, 1951-60: Maximum discharge, 23,000 cfs Mar. 21, 1955 (gage height, 27.72 ft), from rating curve extended above 12,000 cfs; 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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	1.53	22.4	84.1	474	303	383	190	66.2	6.07	0.85	1.32	0.21	192
1953	.86	2.80	11.4	133	808	612	456	248	9.61	97.1	1.13	.29	194
1954	.77	.71	18.0	260	230	70.8	137	83.2	11.2	4.08	.20	.08	67.0
1955	.28	.43	118	49.2	142	958	476	169	42.5	70.6	2.05	.15	170
1956	.30	2.16	15.0	7.25	692	127	847	153	32.0	37.4	1.81	2.71	156
1957	.51	.81	104	657	702	158	310	21.9	327	196	4.89	11.3	204
1958	84.9	1.22	248	195	138	204	455	275	95.6	64.4	4.89	510	293
1959	12.7	82.6	29.5	270	314	123	182	76.5	310	6.51	2.72	7.77	116
1960	11.1	8.24	496	422	223	633	169	64.0	4.58	2.64	.84	29.9	173

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.02	0.22	8.66	4.87	2.91	3.94	1.89	0.68	0.06	0.009	0.01	0.002	23.27
1953	.007	.03	.12	1.37	7.51	6.30	4.54	2.55	.10	1.00	.01	.003	23.54
1954	.008	.007	.19	2.68	2.14	.73	1.36	.86	.11	.04	.002	.0008	8.13
1955	.003	.004	1.22	.51	1.32	9.66	4.74	1.74	.42	.73	.02	.002	20.57
1956	.003	.02	.15	.07	6.66	1.31	8.44	1.57	.32	.38	.02	.03	18.97
1957	.005	.008	1.07	6.76	6.53	1.63	3.09	.23	3.26	2.02	.05	.11	24.76
1958	.87	12.57	2.55	2.01	1.28	2.10	4.54	2.85	.93	.66	.05	5.09	35.48
1959	.13	.82	.30	2.77	2.92	1.27	1.82	.79	3.09	.07	.03	.08	14.09
1960	.11	.08	5.10	4.55	2.15	6.52	1.68	.66	.05	.03	.009	.30	21.04

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234	8,320	Dec. 26, 1951	0	192	1.71	25.27	120	14.53
1953	1274	7,330	Feb. 21, 1953	0	192	1.73	23.54	195	23.59
1954	1334	5,270	Feb. 20, 1954	0	67.0	1.598	8.13	75.5	9.15
1955	1384	23,000	Mar. 21, 1955	0	170	1.52	20.57	161	19.52
1956	1434	11,400	Apr. 30, 1956	0	156	1.39	18.97	164	19.88
1957	1504	9,800	Feb. 1, 1957	.1	204	1.82	24.76	327	39.67
1958	1554	15,800	Nov. 14, 1957	1.0	293	2.62	35.48	171	20.74
1959	1624	5,500	June 10, 1959	.4	116	1.04	14.09	150	18.13
1960	1704	6,400	Mar. 3, 1960	0	173	1.54	21.04	-	-

MOBILE RIVER BASIN

4345. Euclautubba Creek at Saltillo, Miss.

Location.--Lat 34°22'20", long 88°42'00", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ 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 2 $\frac{1}{4}$ miles upstream from mouth.

Drainage area.--19.7 sq mi.

Records available.--October 1951 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 280 ft (from topographic map).

Average discharge.--9 years (1951-60), 28.0 cfs.

Extremes.--1951-60: Maximum discharge, 5,750 cfs Mar. 21, 1955 (gage height, 14.53 ft), from rating curve extended above 1,500 cfs; no flow at times.

Flood of Jan. 3, 1951, reached a stage of 13.65 ft, from records of Corps of Engineers.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.07	2.84	137	80.5	41.7	63.8	21.9	10.9	0.70	0.35	0.05	0	30.2
1953	0	.25	1.98	287	150	98.4	93.3	25.2	.39	31.3	.10	0	35.0
1954	0	.01	2.52	34.0	30.8	13.4	25.6	9.28	.71	.04	0	0	9.56
1955	2.67	.08	30.5	16.8	43.3	162	62.3	24.8	3.06	10.0	1.14	0	29.8
1956	0	.03	.96	1.85	98.4	19.0	92.5	11.6	3.71	6.27	.35	0	19.1
1957	0	.16	32.8	100	87.1	24.1	36.2	.93	55.3	44.6	.21	3.70	31.7
1958	14.7	224	48.8	30.4	24.0	30.1	71.1	39.2	17.6	20.1	1.41	85.8	50.3
1959	2.88	13.8	4.56	52.0	50.8	17.6	22.6	12.2	45.6	2.53	.75	.53	18.5
1960	2.39	1.87	91.0	67.8	29.9	97.6	22.5	8.12	.48	.53	.003	12.8	28.1

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.004	0.16	8.04	4.71	2.28	3.73	1.24	0.64	0.04	0.02	0.003	0	20.87
1953	0	.01	.12	1.68	7.92	5.76	5.28	1.47	.02	1.83	.006	0	24.10
1954	0	.0004	.15	1.99	1.63	.78	1.45	.54	.04	.002	0	0	6.58
1955	.16	.003	1.78	.98	2.29	9.50	3.53	1.45	.17	.59	.07	0	20.52
1956	0	.002	.06	.11	5.38	1.11	5.24	.68	.21	.37	.02	0	13.18
1957	0	.009	1.92	5.86	4.60	1.41	2.05	.05	3.13	2.61	.01	.21	21.86
1958	.86	12.68	2.85	1.78	1.27	1.76	4.02	2.30	1.00	1.17	.08	4.86	34.63
1959	.17	.78	.27	3.04	2.68	1.03	1.28	.72	2.59	.15	.04	.03	12.78
1960	.14	.11	5.33	3.97	1.64	5.71	1.27	.48	.03	.03	.0002	.73	19.44

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234	3,240	Dec. 26, 1951	0	30.2	1.53	20.87	18.5	12.79
1953	1274	3,480	Mar. 22, 1953	0	35.0	1.78	24.10	35.0	24.12
1954	1334	1,600	Feb. 20, 1954	0	9.56	.485	6.58	12.2	8.38
1955	1384	5,750	Mar. 21, 1955	0	29.8	1.51	20.52	27.1	18.64
1956	1434	2,220	Apr. 4, 1956	0	19.1	.970	13.18	21.8	15.05
1957	1504	1,990	Feb. 1, 1957	0	31.7	1.61	21.86	52.7	36.32
1958	1554	4,860	Nov. 14, 1957	0	50.3	2.55	34.63	28.2	19.46
1959	1624	1,810	June 9, 1959	0	18.5	.939	12.78	24.9	17.14
1960	1704	2,160	Mar. 2, 1960	0	28.1	1.43	19.44	-	-

4360. Chiwapa Creek at Shannon, Miss.

Location.--Lat 34°06'35", long 88°43'25", in SE $\frac{1}{4}$ sec.24, T.11 S., R.5 E., Chickasaw meridian, on left bank at downstream side of bridge on U.S. Highway 45W at Shannon, 0.7 mile upstream from Gulf, Mobile and Ohio Railroad bridge, and 4 $\frac{1}{2}$ miles upstream from mouth.

Drainage area.--136 sq mi.

Records available.--October 1951 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 226.96 ft above mean sea level (Mississippi Highway Department bench mark).

Average discharge.--9 years (1951-60), 178 cfs.

Extremes.--1951-60: Maximum discharge, 35,500 cfs Mar. 21, 1955 (gage height, 15.72 ft in gage well, 16.35 ft from outside gage); minimum daily, 0.5 cfs Sept. 2, 20, 1954.

Flood of Mar. 28, 1951, reached a stage of 13.95 ft, from records of Corps of Engineers.

No flow observed Aug. 26, 1943.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	7.43	34.7	611	358	214	334	167	69.1	31.9	26.0	19.2	5.66	157
1953	3.68	19.4	30.2	150	675	470	339	274	21.9	202	7.68	4.22	180
1954	4.33	6.75	36.5	190	160	64.2	99.2	145	10.7	26.4	2.28	2.36	61.9
1955	2.75	4.93	194	93.2	320	872	482	372	131	87.3	35.5	2.78	216
1956	3.78	9.03	38.8	27.3	524	180	732	185	57.2	29.4	23.8	3.23	149
1957	3.68	10.1	159	453	718	214	508	110	295	128	11.1	42.5	217
1958	151	1,151	279	202	201	268	415	351	110	58.6	21.9	335	294
1959	33.1	89.0	46.7	290	377	231	220	81.0	410	27.5	20.7	21.8	152
1960	27.5	26.7	613	317	252	560	190	116	24.3	14.6	9.72	14.5	181

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.06	0.28	5.18	3.03	1.69	2.83	1.37	0.59	0.26	0.22	0.16	0.05	15.72
1953	.03	.16	.26	1.28	5.17	3.99	2.78	2.32	.18	1.71	.07	.03	17.98
1954	.04	.06	.31	1.61	1.23	.54	.81	1.23	.09	.22	.02	.02	6.18
1955	.02	.04	1.65	.79	2.45	7.39	3.95	3.15	1.07	.74	.30	.02	21.57
1956	.03	.07	.33	.23	4.15	1.53	6.01	1.57	.47	.25	.20	.03	14.87
1957	.03	.08	1.34	3.84	5.49	1.81	4.17	.94	2.40	1.09	.09	.35	21.63
1958	1.28	9.44	2.37	1.71	1.54	2.28	3.40	2.98	.90	.50	.19	2.75	29.34
1959	.28	.73	.40	2.46	2.89	1.96	1.81	.69	3.36	.23	.18	.18	15.17
1960	.23	.22	5.19	2.68	2.00	4.75	1.56	.98	.20	.12	.08	.12	18.13

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	-	-	-	-	-	-	-	-
1952	1234	12,000	Dec. 26, 1951	2.2	157	1.15	15.72	107	10.65
1953	1624	9,880	Feb. 21, 1953	1.4	180	1.32	17.98	180	17.94
1954	1624	5,690	May 1, 1954	.5	61.9	.455	6.18	75.0	7.48
1955	1624	35,500	Mar. 21, 1955	1.0	216	1.59	21.57	205	20.29
1956	1624	9,600	Apr. 30, 1956	1.7	149	1.10	14.67	159	15.89
1957	1624	12,400	Feb. 1, 1957	2.4	217	1.60	21.63	333	33.27
1958	1624	18,100	Nov. 14, 1957	6.0	294	2.16	29.34	177	17.66
1959	1624	11,400	June 10, 1959	6.6	152	1.12	15.17	194	19.40
1960	1704	10,900	Dec. 18, 1959	2.6	181	1.33	18.13	-	-

4365. West Fork Tombigbee River near Nettleton, Miss.

Location.--Lat 34°03'32", long 88°37'40", in NW $\frac{1}{4}$ 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 Tallabinella Creek, 2 miles downstream from Tubbalubba Creek, and 2.1 miles south of Nettleton.

Drainage area.--617 sq mi.

Records available.--October 1939 to September 1960. Monthly discharge only for October 1939, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 194.01 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to Oct. 1, 1947, at datum 10.00 ft higher.

Average discharge.--21 years (1939-60), 908 cfs.

Extremes.--1939-60: Maximum discharge, 151,000 cfs Mar. 22, 1955 (gage height, 33.88 ft); minimum, 0.8 cfs Sept. 14, 15, 1942.

Maximum stage known since at least 1892, that of Mar. 22, 1955. Flood of Dec. 24, 1926, reached a stage of 32.5 ft, present datum, from floodmark.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	121	671	1,564	3,362	3,964	4,080	1,517	214	268	627	41.3	29.2	1,342
1952	13.4	118	2,734	1,585	943	1,411	711	212	51.8	38.6	37.6	12.4	659
1953	9.75	44.9	81.7	619	3,244	2,103	1,670	1,333	57.2	581	21.6	10.1	799
1954	9.55	14.7	86.9	1,205	859	240	539	618	45.9	69.0	7.12	5.39	306
1955	11.1	16.0	491	296	1,232	5,670	2,510	1,672	262	344	92.8	12.8	1,053
1956	11.2	19.0	114	66.6	2,698	908	3,027	1,461	163	149	28.2	19.5	710
1957	7.92	24.8	709	2,241	3,711	958	1,820	181	1,532	816	24.1	138	993
1958	580	6,074	1,499	1,020	894	1,219	2,323	1,824	352	273	57.2	2,208	1,519
1959	99.3	329	160	1,467	2,028	965	955	396	1,289	167	60.5	45.7	653
1960	64.5	74.5	2,779	2,149	1,174	2,906	884	531	73.8	29.2	24.2	89.2	903

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.23	1.21	2.55	6.28	6.69	7.62	2.74	0.40	0.49	1.17	0.08	0.05	29.51
1952	.03	.21	5.11	2.96	1.65	2.64	1.29	.40	.09	.07	.07	.02	14.54
1953	.02	.08	.15	1.16	5.47	3.93	3.02	2.49	.10	1.09	.04	.02	17.57
1954	.02	.03	.16	2.25	1.45	.45	.97	1.15	.08	.13	.01	.01	6.71
1955	.02	.03	.92	.55	2.08	10.59	4.54	3.12	.47	.64	.17	.02	23.15
1956	.02	.03	.21	.12	4.70	1.70	5.47	2.73	.30	.28	.05	.04	15.65
1957	.01	.04	1.33	4.19	6.26	1.79	3.29	.34	2.77	1.52	.05	.25	21.84
1958	1.08	10.98	2.80	1.91	1.51	2.28	4.20	3.41	.64	.51	.11	3.99	33.42
1959	.19	.60	.30	2.74	3.42	1.80	1.75	.74	2.33	.31	.11	.09	14.36
1960	.12	.13	5.19	4.01	2.05	5.43	1.60	.99	.13	.05	.05	.16	19.91

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950		-	-	-	-	-	-	1,384	30.44	
1951	1204	49,200	Mar. 29, 1951	-	1,342	2.18	29.51	1,405	30.87	
1952	1234	24,300	Dec. 26, 1951	6.3	659	1.07	14.54	428	9.44	
1953	1274	51,200	Feb. 21, 1953	6.9	799	1.29	17.57	797	17.53	
1954	1334	15,200	Jan. 22, 1954	3.1	306	.496	6.71	340	7.47	
1955	1434	151,000	Mar. 22, 1955	4.4	1,053	1.71	23.15	1,021	22.44	
1956	1434	22,700	May 1, 1956	5.4	710	1.15	15.65	760	16.77	
1957	1504	35,800	Feb. 1, 1957	3.0	993	1.61	21.84	1,606	35.32	
1958	1554	28,900	Nov. 14, 1957	13	1,519	2.46	33.42	892	19.65	
1959	1624	16,800	Feb. 13, 1959	15	653	1.06	14.36	851	18.71	
1960	1704	24,800	Dec. 19, 1959	7.0	903	1.46	19.91	-	-	

4370. 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.--October 1937 to September 1960. Monthly discharge only for October and November 1937, published in WSP 1304.

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, was used as an auxiliary gage for this station 1950-58.

Average discharge.--23 years (1937-60), 2,975 cfs.

Extremes.--1937-60: Maximum discharge, 126,000 cfs Mar. 22, 1955; maximum gage height, 34.47 ft Mar. 23, 1955; minimum discharge, 45 cfs Sept. 20, 1954; minimum gage height, 0.77 ft Sept. 1, 1943.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	720	2,554	4,857	8,648	14,270	10,710	7,550	1,369	749	1,528	308	287	4,400
1952	250	986	10,510	6,497	4,678	6,128	3,210	1,028	389	195	281	154	2,867
1953	155	440	688	2,761	11,470	7,781	5,088	7,117	426	1,378	219	153	3,089
1954	124	180	502	4,843	3,649	1,872	3,161	2,361	322	246	102	66.9	1,440
1955	97.9	167	975	1,731	5,192	15,070	8,036	4,302	1,240	1,469	440	145	3,232
1956	130	260	686	521	9,003	3,525	9,334	3,979	534	417	177	128	2,353
1957	113	208	2,383	4,356	11,790	3,747	4,793	932	3,082	2,427	282	642	2,831
1958	1,773	14,540	6,505	3,615	3,431	4,102	6,188	5,982	1,018	1,372	543	5,476	4,365
1959	680	1,187	973	3,936	5,406	2,652	4,648	1,750	2,511	789	300	320	2,085
1960	401	595	5,159	6,047	4,463	8,452	3,772	1,645	541	205	206	402	2,663

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.43	1.47	2.88	5.14	7.65	6.36	4.34	0.81	0.43	0.91	0.18	0.16	30.76
1952	.15	.57	6.24	3.86	2.60	3.64	1.85	.61	.22	.12	.17	.09	20.12
1953	.09	.25	.41	1.64	6.16	4.62	2.92	4.23	.25	.82	.13	.09	21.61
1954	.07	.10	.30	2.88	1.96	1.11	1.82	1.40	.18	.15	.06	.04	10.07
1955	.06	.10	.58	1.03	2.79	8.95	4.62	2.55	.71	.67	.26	.08	22.60
1956	.08	.15	.41	.31	5.00	2.09	5.37	2.36	.31	.25	.11	.07	16.51
1957	.07	.12	1.42	2.59	6.33	2.23	2.75	.55	1.77	1.44	.17	.37	19.81
1958	1.05	8.36	3.66	2.15	1.84	2.44	3.56	3.55	.59	.61	.32	2.00	30.53
1959	.40	.68	.58	2.34	2.90	1.69	2.67	1.04	1.44	.47	.18	.18	14.57
1960	.24	.34	3.07	3.59	2.48	5.02	2.17	.98	.31	.12	.12	.23	18.67

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	4,833	33.80
1951	1204	64,700	Mar. 30, 1951	190	4,400	2.27	30.76	4,711	32.94
1952	1234	36,900	Dec. 27, 1951	99	2,867	1.48	20.12	1,982	13.91
1953	1274	42,800	Feb. 22, 1953	88	3,089	1.59	21.61	3,050	21.33
1954	1334	23,600	Jan. 22, 1954	51	1,440	.742	10.07	1,477	10.34
1955	1384	126,000	Mar. 22, 1955	72	3,232	1.67	22.60	3,218	22.50
1956	1434	25,500	Apr. 7, 1956	71	2,353	1.21	16.51	2,491	17.48
1957	1504	54,700	Feb. 3, 1957	84	2,831	1.46	19.81	4,500	31.47
1958	1554	55,800	Nov. 18, 1957	211	4,365	2.25	30.53	2,705	18.92
1959	1624	15,500	Feb. 13, 1959	149	2,085	1.07	14.57	2,369	16.56
1960	1704	23,400	Mar. 3, 1960	124	2,663	1.37	18.67	-	-

4378. Barn Creek near Hackleburg, Ala.

Location.--Lat 34°10', long 87°47', in NW¼ sec.22, T.10 S., R.12 W., near right bank on downstream side of culvert on county road, 4 miles upstream from mouth and 8 miles southeast of Hackleburg.

Drainage area.--12.9 sq mi.

Records available.--August 1959 to September 1960.

Gage.--Water-stage recorder.

Extremes.--1959-60: Maximum discharge, 928 cfs Mar. 2, 1960 (gage height, 6.84 ft); minimum, 1.1 cfs Aug. 8, 19, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	-	-	7.20	-
1960	12.5	11.2	37.7	44.0	33.9	67.8	29.0	19.4	5.85	2.94	7.27	5.21	23.1

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	-	-	0.62	-
1960	1.11	0.97	3.37	3.93	2.84	6.06	2.51	1.74	0.51	0.26	0.65	.45	24.40

4379. Woods Creek near Hamilton, Ala.

Location.--Lat 34°07', long 87°54', in SW¼ sec.3, T.11 S., R.13 W., near right bank on upstream side of bridge on county road, 5 miles upstream from mouth and 5 miles southeast of Hamilton.

Drainage area.--14.1 sq mi.

Records available.--September 1959 to September 1960.

Gage.--Water-stage recorder.

Extremes.--1959-60: Maximum discharge, 741 cfs Mar. 2, 1960 (gage height, 7.85 ft, from floodmark); minimum daily, 2.6 cfs July 29, 30, Aug. 6, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	7.61	8.24	23.9	38.5	35.1	70.8	37.5	18.8	7.24	5.33	7.25	5.41	22.2

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1960	0.62	0.65	1.95	3.14	2.69	5.79	2.97	1.54	0.57	0.44	0.59	0.43	21.38

4380. 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.--284 sq mi.

Records available.--October 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 360.50 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). July 7, 1953, to July 10, 1954, staff gage at site 300 ft upstream at same datum.

Average discharge.--10 years (1950-60), 459 cfs.

Extremes.--1959-60: Maximum discharge, 24,200 cfs Mar. 29, 1951 (gage height, 26.3 ft); minimum, 19 cfs Sept. 2-5, 15, 1954 (gage height, 0.78 ft).

Remarks.--Occasional diurnal fluctuation at low flow.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	#110	#200	#280	913	1,791	1,994	1,091	295	172	206	61.0	70.9	#591
1952	70.5	153	2,154	852	611	945	382	152	77.2	46.8	122	71.4	472
1953	66.7	112	184	754	1,718	695	767	958	104	128	49.7	59.4	458
1954	42.1	68.6	181	1,365	338	317	757	358	92.4	70.2	43.0	48.1	307
1955	44.2	85.6	934	568	1,123	1,267	771	268	131	302	92.5	41.2	466
1956	46.8	87.5	117	111	1,718	735	1,228	275	106	59.0	61.1	54.4	376
1957	86.8	106	806	1,072	1,243	645	619	179	335	135	49.5	87.7	442
1958	179	1555	753	516	692	718	886	764	182	490	132	499	611
1959	137	237	184	675	808	398	820	527	428	195	127	113	384
1960	160	198	572	945	764	1,563	674	409	131	75.1	162	104	480

Not previously published; estimated on basis of records for station near Hamilton, $\frac{1}{2}$ miles upstream.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	#0.45	#0.79	#1.14	3.71	6.57	8.09	4.29	1.20	0.68	0.84	0.25	0.28	#28.35
1952	.29	.60	8.74	3.46	2.32	3.83	1.50	.62	.30	.19	.50	.28	22.63
1953	.27	.44	.75	3.06	6.30	2.82	3.01	3.89	.41	.52	.20	.25	21.90
1954	.17	.27	.74	5.54	1.24	1.29	2.97	1.45	.36	.29	.17	.19	14.68
1955	.16	.34	3.79	2.31	4.12	5.14	3.03	1.09	.52	1.22	.38	.16	22.28
1956	.19	.34	.47	.45	6.52	2.98	4.83	1.11	.42	.24	.25	.21	18.01
1957	†.35	.42	3.27	4.35	4.56	2.62	2.43	.73	1.32	.55	.20	.34	21.14
1958	.73	6.11	3.06	2.10	2.50	2.92	3.48	3.10	.72	1.99	.54	1.96	29.21
1959	.56	.93	.75	2.74	2.96	1.62	3.22	2.14	1.68	.79	.52	.45	18.36
1960	.58	.78	2.32	3.84	2.90	6.35	2.65	1.66	.52	.30	.66	.41	23.04

† Corrected.

Not previously published; see footnote to preceding table.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	24,200	Mar. 29, 1951	-	#591	#2.08	#28.35	743	35.60
1952	1234	20,200	Dec. 8, 1951	30	472	1.66	22.63	302	14.46
1953	1274	15,600	Apr. 30, 1953	36	458	1.61	21.90	452	21.62
1954	1334	15,100	Jan. 22, 1954	19	307	1.08	14.68	373	17.81
1955	1384	17,200	Mar. 21, 1955	32	466	1.64	22.28	397	18.97
1956	1434	13,500	Feb. 3, 1956	26	376	1.32	18.01	439	21.05
1957	1504	11,000	Jan. 31, 1957	29	442	1.56	21.14	565	27.00
1958	1554	10,200	Nov. 17, 1957	59	611	2.15	29.21	450	21.55
1959	1624	4,770	Feb. 13, 1959	58	384	1.35	18.36	416	19.87
1960	1704	14,900	Mar. 2, 1960	46	480	1.69	23.04	-	-

Not previously published.

4390. Buttahatchee River near Sulligent, Ala.

Location.--Lat 33°55', long 88°09', in NE $\frac{1}{4}$ sec.19, T.13 S., R.15 W., at bridge on State Highway 17 (revised), 1 mile upstream from Bogue Creek, $\frac{1}{2}$ miles northwest of Sulligent, and 2 miles downstream from Beaver Creek.

Drainage area.--472 sq mi.

Records available.--March 1939 to September 1959, water year 1960 (annual maximum).

Gage.--Crest-stage gage. 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. July 1, 1942, to Sept. 30, 1959, wire-weight gage at present site and datum. Nov. 3, 1948, to Sept. 30, 1959, supplementary wire-weight gage on side channel at datum 10.00 ft lower.

Average discharge.--20 years (1939-59), 747 cfs.

Extremes.--1939-60: Maximum discharge, 33,000 cfs Jan. 8, 1946; maximum gage height, 16.4 ft Jan. 7, 1950.

1939-59: Minimum discharge observed, 32 cfs Sept. 15, 16, 1954 (gage height, 2.30 ft).

Remarks.--Discharge figures computed by summation of flow in main and side channels and include flow of unnamed tributary entering river from left bank a short distance downstream from station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	212	411	559	1,264	3,160	3,034	1,953	503	258	325	117	120	979
1952	117	297	2,995	1,376	1,092	1,473	693	274	149	104	156	115	739
1953	114	206	329	1,185	2,243	1,146	812	1,853	204	242	97.5	98.4	702
1954	74.3	111	356	1,801	854	604	1,218	849	173	103	64.0	77.9	487
1955	64.5	166	911	1,032	1,829	1,828	1,285	470	226	505	168	72.2	707
1956	77.0	164	236	199	2,780	1,351	2,390	537	187	104	127	90.0	675
1957	136	195	1,527	1,559	2,082	1,154	1,022	362	550	282	88.9	158	748
1958	289	2,548	1,229	889	1,137	1,206	1,445	1,332	316	705	255	733	1,003
1959	251	450	367	1,092	1,470	708	1,312	682	682	278	187	175	651
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.52	0.97	1.37	3.09	6.97	7.41	4.62	1.23	0.61	0.79	0.29	0.28	28.15
1952	.29	.70	7.31	3.36	2.50	3.60	1.64	.67	.35	.25	.38	.27	21.32
1953	.28	.49	.80	2.90	4.95	2.80	1.92	4.53	.48	.59	.24	.23	20.21
1954	.18	.26	.82	4.40	1.40	1.48	2.88	1.59	.41	.25	.16	.18	14.01
1955	.16	.39	2.22	2.52	4.03	4.46	3.04	1.15	.54	1.23	.41	.17	20.32
1956	.19	.39	.58	.49	6.35	3.30	5.65	1.31	.44	.25	.31	.21	19.47
1957	.33	.46	3.73	3.81	4.59	2.82	2.37	.88	1.30	.69	.22	.33	21.53
1958	.70	6.02	3.00	2.17	2.51	2.95	3.42	3.25	.75	1.72	.62	1.73	28.84
1959	.61	1.06	.90	2.67	3.24	1.73	3.10	1.67	1.61	.68	.46	.41	18.14
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,120	32.23
1951	1204	29,700	Mar. 29, 1951	72	979	2.07	28.15	1,168	33.59
1952	1234	16,000	Dec. 9, 1951	76	759	1.57	21.32	506	14.59
1953	1274	11,400	May 1, 1953	63	702	1.49	20.21	692	19.90
1954	1334	12,700	Jan. 23, 1954	32	487	1.03	14.01	539	15.52
1955	1384	17,700	Dec. 30, 1954	54	707	1.50	20.32	650	18.71
1956	1434	14,200	Feb. 4, 1956	46	675	1.43	19.47	792	22.83
1957	1504	12,200	Dec. 14, 1956	56	748	1.58	21.53	929	26.73
1958	1554	11,500	Nov. 19, 1957	101	1,003	2.12	28.84	754	21.69
1959	1624	7,300	Feb. 14, 1959	108	631	1.54	18.14	-	-
1960	-	15,200	Mar. 5, 1960	-	-	-	-	-	-

4395. Buttahatchee River near Caledonia, Miss.

Location.--Lat 33°42'10", long 88°20'50", in SW $\frac{1}{4}$ sec.5, T.16 S., R.17 W., Huntsville meridian, on left bank 50 ft downstream from bridge on county road, 600 ft downstream from Elbethel Creek, 2 miles northwest of Caledonia, 2 miles upstream from Dry Creek, 16 miles north of Columbus, and 19 miles upstream from mouth.

Drainage area.--823 sq mi.

Records available.--August 1928 to September 1932, October 1938 to September 1951. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 198.59 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to June 1, 1932, staff gage at bridge 50 ft upstream at datum 0.62 ft lower. Feb. 20, 1939, to May 16, 1945, staff gage and May 17, 1945, to May 22, 1951, wire-weight gage, both at bridge 50 ft upstream at present datum. June 6 to Sept. 12, 1951, staff gage at present site and datum.

Average discharge.--17 years (1928-32, 1938-51), 1,265 cfs.

Extremes.--1928-32, 1938-51: Maximum discharge observed, 30,800 cfs Jan. 6, 1949 (gage height, 18.65 ft); minimum, 79 cfs Aug. 28, 29, 1943 (gage height, 1.74 ft).

Flood in July 1916 reached a stage about 4 ft higher than that of Jan. 6, 1949, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	356	532	849	2,028	4,359	3,987	3,350	812	367	454	299	237	1,449

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.50	0.72	1.19	2.84	5.52	5.59	4.54	1.14	0.50	0.64	0.42	0.32	23.92

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,837	30.29
1951	1204	29,400	Mar. 30, 1951	179	1,449	1.76	23.92	-	-

4400. 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 bridge on State Highway 8, 4½ miles southwest of Egypt and 1½ miles upstream from Houlika Creek.

Drainage area--170 sq mi, approximately.

Records available--October 1951 to September 1960.

Gage--Water-stage recorder. Altitude of gage is 225 ft (from topographic map).

Average discharge--9 years (1951-60), 202 cfs.

Extremes--1951-60: Maximum discharge, 28,300 cfs Mar. 21, 1955 (gage height, 11.23 ft), from rating curve extended above 11,000 cfs on basis of field estimate of peak flow; no flow at times.

Flood of Mar. 28, 1951, reached a stage of 10.47 ft, from records of Corps of Engineers.

Remarks--Occasional slight regulation at low water, the result of releases from Davis Lake.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	1.76	26.1	812	240	238	470	220	63.8	13.4	20.7	10.4	0	177
1953	0	8.16	14.9	151	934	408	341	331	13.4	119	9.80	.04	189
1954	0	1.10	13.3	314	222	60.0	116	247	4.21	14.5	.84	.07	82.2
1955	.51	1.12	44.5	70.5	390	840	784	387	58.1	73.1	7.47	.01	220
1956	.42	5.87	17.4	13.7	544	334	682	298	30.1	14.6	.12	22.4	160
1957	2.47	3.54	284	749	775	235	366	25.4	419	108	3.89	58.3	249
1958	484	1,285	443	256	249	294	567	595	72.6	38.2	18.4	408	392
1959	26.8	36.3	29.5	275	528	253	358	75.3	212	128	41.7	38.1	164
1960	10.5	14.0	400	536	271	616	155	190	20.6	10.1	7.56	19.2	189

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.01	0.17	5.50	1.62	1.51	3.19	1.44	0.43	0.09	0.14	0.07	0	14.17
1953	0	.05	.10	1.02	5.72	2.77	2.24	2.24	.09	.80	.07	.0002	15.10
1954	0	.007	.09	2.13	1.36	.41	.76	1.87	.03	.10	.006	.0004	6.56
1955	.003	.007	.30	.48	2.39	5.70	5.14	2.63	.38	.50	.05	.00004	17.58
1956	.003	.04	.12	.09	3.45	2.26	4.34	2.02	.20	.10	.0008	.15	12.77
1957	.02	.02	1.93	5.08	4.75	1.60	2.40	.17	2.75	.73	.03	.38	19.86
1958	3.28	8.43	3.00	1.74	1.53	1.99	3.72	4.03	.48	.26	.12	2.67	31.25
1959	.18	.24	.20	1.86	3.24	1.71	2.55	.51	1.59	.87	.28	.25	13.08
1960	.07	.09	2.71	3.63	1.72	4.18	1.02	1.29	.14	.07	.05	.13	15.10

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1234	9,110	Dec. 20, 1951	0	177	1.04	14.17	108	8.64
1953	1274	15,700	Feb. 21, 1953	0	189	1.11	15.10	189	15.05
1954	1334	4,930	May 3, 1954	0	82.2	1.484	6.56	84.9	6.78
1955	1384	28,300	Mar. 21, 1955	0	220	1.29	17.58	218	17.43
1956	1434	6,110	Apr. 6, 1956	0	160	.941	12.77	158	14.59
1957	1504	7,310	Feb. 1, 1957	0	249	1.46	19.86	408	32.60
1958	1554	11,500	Oct. 3, 1957	3.4	392	2.31	31.25	215	17.16
1959	1624	6,540	Feb. 13, 1959	2.8	164	.965	13.08	192	15.33
1960	1704	8,850	Mar. 3, 1960	.2	189	1.11	15.10	-	-

* Not previously published.

4405. Chookatonchee 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 1960. Monthly discharge only for October 1946 to September 1947, published in WSP 1304. 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 7, 1944, chain gage and July 7, 1944, to Aug. 2, 1949, wire-weight gage, at present site and datum.

Average discharge.--17 years (1943-60), 770 cfs.

Extremes.--1943-60: Maximum discharge, 45,800 cfs Mar. 29, 1951 (gage height, 23.55 ft); no flow at times.

Remarks.--Occasional slight regulation at low water, the result of releases from Davis Lake.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	66.0	314	971	2,604	3,782	3,971	1,320	171	356	102	5.42	2.19	1,124
1952	1.08	31.0	2,096	671	914	1,387	756	148	23.6	18.6	12.7	.01	504
1953	0	5.67	15.0	575	2,797	1,289	710	1,966	16.9	114	12.5	.167	612
1954	0 .626	0	16.5	895	654	233	470	693	12.5	37.3	0	0	249
1955	0	1.54	132	416	1,345	2,217	2,540	531	225	353	14.4	.98	642
1956	2.28	341	24.5	19.0	2,117	1,197	1,966	901	53.3	14.8	2.05	22.7	518
1957	5.03	2.76	906	1,449	2,599	868	1,001	50.0	1,044	605	7.49	73.5	704
1958	1,177	4,459	1,344	964	977	1,427	1,703	2,118	155	221	61.4	735	1,274
1959	582	74.3	87.1	936	1,867	749	1,444	306	558	238	66.8	41.7	523
1960	307	43.1	793	1,707	1,546	2,460	513	518	56.0	21.8	27.0	18.4	645

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.15	0.68	2.18	5.84	7.66	8.91	2.87	0.38	0.77	0.23	0.01	0.005	29.68
1952	.002	.07	4.70	1.50	1.92	3.07	1.84	.33	.05	.04	.03	.00003	13.35
1953	0	.01	.03	1.29	5.67	2.89	1.54	4.41	.04	.28	.03	.0004	16.17
1954	.001	0	.04	2.01	1.33	.52	1.02	1.55	.03	.08	0	0	6.58
1955	0	.003	.30	.93	2.72	4.97	5.51	1.19	.49	.79	.03	.002	16.94
1956	.005	.007	.05	.04	4.44	2.69	4.27	2.02	.12	.03	.005	.05	13.73
1957	.01	.006	2.03	3.25	5.27	1.95	2.17	.11	2.27	1.36	.02	.16	18.61
1958	2.64	9.68	3.01	2.16	1.98	3.20	3.70	4.75	.34	.50	.14	1.55	33.65
1959	.13	.16	.15	2.10	3.78	1.68	3.14	.69	1.21	.53	.15	.09	13.81
1960	.07	.09	1.78	3.83	3.24	5.52	1.11	1.16	.12	.05	.06	.04	17.07

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,132	29.91
1951	1204	45,800	Mar. 29, 1951	0	1,124	2.19	29.68	1,191	31.45
1952	1234	10,600	Dec. 22, 1951	0	504	.981	13.35	326	8.62
1953	1274	20,000	Feb. 22, 1953	0	612	1.19	16.17	612	16.17
1954	1334	6,460	May 5, 1954	0	249	.484	6.58	259	6.84
1955	1384	34,900	Mar. 29, 1955	0	642	1.25	16.94	633	16.69
1956	1434	10,400	Apr. 8, 1956	0	518	1.01	13.73	593	15.71
1957	1504	13,800	Feb. 2, 1957	.1	704	1.37	18.61	1,207	31.89
1958	1554	18,000	Nov. 16, 1957	9.5	1,274	2.48	33.65	710	18.76
1959	1624	13,400	Feb. 15, 1959	6.4	523	1.02	13.81	580	15.31
1960	1704	17,000	Mar. 4, 1960	1.6	645	1.25	17.07	-	-

4410. 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, 4 $\frac{1}{2}$ miles upstream from Magee Creek, 5 miles south of West Point, and 9 $\frac{1}{2}$ miles upstream from Catalpa Creek.

Drainage area.--928 sq mi.

Records available.--August 1928 to September 1930, October 1939 to September 1960.

Monthly discharge only for September 1930 and October 1939, published in WSP 1304. 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.--23 years (1928-30, 1939-60), 1,212 cfs.

Extremes.--1928-30, 1939-60: 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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	124	506	1,325	4,150	7,121	7,458	2,697	221	602	141	8.96	3.35	2,000
1952	1.47	33.5	5,526	1,099	1,435	2,157	1,199	178	28.6	18.1	20.6	.46	810
1953	.05	5.26	15.5	906	4,716	2,075	935	3,843	24.0	140	12.9	.20	1,035
1954	0	.04	20.7	1,280	1,087	455	839	1,191	17.0	43.6	.003	0	408
1955	0	.18	161	851	2,490	2,989	3,990	639	291	603	27.5	1.16	991
1956	2.52	6.47	31.7	26.6	3,707	2,546	3,047	1,192	70.9	19.0	4.31	31.1	876
1957	4.99	2.95	1,156	1,948	4,301	1,649	1,736	80.6	1,479	1,168	11.8	74.6	1,112
1958	1,418	3,189	2,093	1,618	1,851	2,729	3,255	251	154	542	107	728	2,404
1959	95.7	151	110	1,440	4,078	1,267	3,337	429	696	233	71.6	72.1	972
1960	195	79.0	983	3,255	3,544	5,106	788	889	88.7	22.2	44.8	17.5	1,249

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.15	0.61	1.65	5.16	7.99	9.26	3.24	0.27	0.72	0.18	0.01	0.004	29.24
1952	.002	.04	4.38	1.37	1.67	2.68	1.44	.22	.03	.02	.03	.0005	11.88
1953	.00006	.006	.02	1.13	5.29	2.58	1.12	4.77	.03	.17	.02	.0002	15.14
1954	0	.00005	.03	1.59	1.22	.56	1.01	1.48	.02	.05	.00004	0	5.96
1955	0	.0002	.20	1.06	2.79	3.71	4.80	.79	.35	.75	.03	.001	14.48
1956	.003	.008	.04	.03	4.31	3.16	3.66	1.48	.09	.02	.005	.04	12.85
1957	.006	.004	1.44	2.42	4.83	2.05	2.09	.10	1.78	1.45	.01	.09	16.27
1958	1.76	11.02	2.60	2.01	2.08	3.39	3.91	6.52	.18	.67	.13	.88	35.15
1959	.12	.18	.14	1.79	4.58	1.57	4.01	.53	.84	.29	.09	.09	14.23
1960	.24	.10	1.22	4.04	4.12	6.34	.95	1.10	.11	.03	.06	.02	18.33

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,922	26.10
1951	1204	75,200	Mar. 29, 1951	0.6	2,000	2.16	29.24	2,137	31.26
1952	1234	16,700	Dec. 23, 1951	0	810	.873	11.88	510	7.48
1953	1274	25,600	Feb. 23, 1953	0	1,035	1.12	15.14	1,035	15.14
1954	1334	8,620	May 6, 1954	0	408	.440	5.96	420	6.13
1955	1384	38,300	Mar. 23, 1955	0	991	1.07	14.48	980	14.33
1956	1434	17,900	Mar. 17, 1956	0	876	.944	12.85	971	14.24
1957	1504	19,500	Feb. 5, 1957	0	1,112	1.20	16.27	2,065	30.20
1958	1554	29,900	Nov. 16, 1957	15	2,404	2.59	35.15	1,382	20.21
1959	1624	25,000	Feb. 15, 1959	6.2	972	1.05	14.23	1,049	15.35
1960	1704	30,600	Mar. 4, 1960	2.1	1,249	1.35	18.33	-	-

4415. 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, 1,200 ft downstream from bridge on U.S. Highway 45, 1,800 ft upstream from Gulf, Mobile and Ohio Railroad bridge, 2.3 miles upstream from Luxapallila Creek, and 6.7 miles downstream from Tibbee Creek.

Drainage area.--4,490 sq mi, approximately.

Records available.--October 1899 to December 1912, August 1928 to September 1960. Monthly discharge only for some periods, published in WSP 1304. 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, chain, or wire-weight 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 3.7 miles upstream from base gage.

Average discharge.--45 years (1899-1912, 1928-60), 6,154 cfs.

Extremes.--1899-1912, 1928-60: Maximum discharge, 148,000 cfs Jan. 7, 1949 (gage height, 39.32 ft); minimum, 138 cfs Sept. 20, 1954; minimum gage height observed, -0.1 ft Oct. 9-12, 1911, present datum.

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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,392	3,959	7,855	17,660	29,900	21,290	25,460	3,066	2,260	2,297	660	580	9,551
1952	520	1,565	16,970	11,230	10,310	12,360	6,644	1,797	780	445	599	367	5,306
1953	372	742	1,261	6,621	19,080	14,480	6,728	16,970	951	1,611	471	334	5,750
1954	268	381	1,064	8,948	5,778	3,761	6,438	4,891	673	481	232	179	2,744
1955	223	400	1,465	5,768	11,070	21,970	16,880	4,548	2,874	3,528	1,100	582	5,618
1956	305	636	1,155	862	17,770	10,070	16,850	6,989	999	679	425	322	4,685
1957	354	528	6,278	8,505	24,140	9,048	8,671	1,860	5,376	4,461	533	999	5,768
1958	4,734	29,450	14,120	8,527	9,428	11,290	12,020	17,380	1,689	5,163	1,399	5,565	10,050
1959	1,704	2,144	2,005	8,376	13,300	6,808	12,060	3,937	4,893	1,747	867	694	4,808
1960	1,192	1,262	6,485	11,920	12,490	19,230	7,654	3,735	1,233	545	775	693	5,595

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.36	0.98	2.02	4.54	6.93	5.47	6.33	0.79	0.56	0.59	0.17	0.14	28.88
1952	.13	.39	4.36	2.88	2.46	3.16	1.65	.46	.19	.11	.15	.09	16.07
1953	.10	.18	.32	1.70	4.43	3.72	1.67	4.36	.24	.47	.12	.08	17.39
1954	.07	.09	.27	2.30	1.34	.97	1.60	1.26	.17	.12	.06	.04	8.29
1955	.06	.10	.38	1.49	2.57	5.64	4.19	1.17	.71	.91	.28	.09	17.59
1956	.08	.16	.30	.22	4.27	2.59	4.19	1.79	.25	.17	.11	.08	14.21
1957	.09	.13	1.61	2.18	5.69	2.32	2.15	.48	1.34	1.15	.14	.25	17.44
1958	1.22	7.32	3.63	2.19	2.19	2.90	2.99	4.46	.42	1.33	.36	1.36	30.39
1959	.44	.53	.51	2.15	3.08	1.75	3.00	1.01	1.22	.45	.22	.17	14.53
1960	.31	.31	1.67	3.06	3.00	4.94	1.90	.96	.31	.14	.20	.17	16.97

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	10,260	31.04	-	-
1951	1204	118,000	Apr. 1, 1951	370	9,551	2.13	28.88	10,050	30.40	-	-
1952	1234	34,800	Dec. 25, 1951	280	5,306	1.18	16.07	5,895	11.79	-	-
1953	1274	49,800	Feb. 25, 1953	233	5,750	1.28	17.39	5,695	17.22	-	-
1954	1334	26,100	Jan. 26, 1954	140	2,744	.611	8.29	2,776	8.40	-	-
1955	1384	120,000	Mar. 25, 1955	184	5,818	1.30	17.59	5,817	17.59	-	-
1956	1434	34,500	Apr. 11, 1956	194	4,685	1.04	14.21	5,114	15.50	-	-
1957	1504	64,400	Feb. 5, 1957	184	5,768	1.28	17.44	9,164	27.78	-	-
1958	1554	85,100	Nov. 22, 1957	782	10,050	2.24	30.39	6,516	19.70	-	-
1959	1624	32,100	Feb. 17, 1959	414	4,808	1.07	14.53	5,073	15.34	-	-
1960	1704	40,700	Mar. 7, 1960	344	5,595	1.25	16.97	-	-	-	-

4420. 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 1960.

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).

Average discharge.--15 years (1945-60), 214 cfs.

Extremes.--1945-60: Maximum discharge, 9,910 cfs Jan. 5, 1949 (gage height, 13.8 ft); minimum, 21 cfs Sept. 28, 1956.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	74.8	93.3	153	314	587	758	374	150	109	115	61.1	90.2	233
1952	59.7	106	413	341	283	358	151	95.5	66.5	49.8	69.7	53.6	171
1953	53.7	71.4	118	339	553	295	228	404	62.1	95.0	48.8	50.0	191
1954	47.1	54.8	114	404	146	160	276	164	59.2	41.9	31.4	34.2	128
1955	39.7	64.6	139	224	403	290	274	93.5	63.3	161	64.4	40.8	153
1956	40.0	74.6	67.4	69.1	654	361	377	118	663	46.3	46.6	32.4	160
1957	65.8	70.3	383	444	592	234	323	82.0	155	80.5	41.5	68.1	194
1958	110	615	313	208	356	546	436	395	82.0	209	73.8	165	275
1959	90.7	159	125	279	386	284	306	176	180	67.2	57.1	63.3	180
1960	72.7	98.5	160	361	311	610	209	136	60.8	59.3	66.2	79.8	187

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.68	0.82	1.21	2.85	4.81	6.70	3.28	1.18	0.96	1.05	0.55	0.79	24.88
1952	.54	.93	3.74	3.10	2.40	3.25	1.32	.87	.58	.45	.63	.47	18.28
1953	.49	.63	1.07	3.08	4.53	2.67	2.00	3.67	.55	.84	.44	.44	20.41
1954	.43	.48	1.04	3.66	1.19	1.46	2.42	1.49	.52	.38	.28	.30	13.65
1955	.36	.57	1.26	2.04	3.31	2.63	2.40	.85	.56	1.46	.58	.36	16.38
1956	.36	.66	.61	.63	5.56	3.27	3.32	1.07	.58	.42	.42	.28	17.18
1957	.60	.62	3.48	4.03	3.21	2.12	2.84	.74	1.36	.73	.38	.60	20.71
1958	1.00	5.39	2.84	1.89	2.76	3.16	3.83	3.57	.72	1.90	.67	1.45	29.18
1959	.82	1.40	1.14	2.54	3.17	2.57	2.69	1.60	1.58	.61	.52	.56	19.20
1960	.66	.87	1.63	3.28	2.64	5.53	1.84	1.23	.53	.54	.60	.70	20.05

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	290	30.95
1951	1204	8,150	Mar. 29, 1951	50	233	1.83	24.88	256	27.38
1952	1234	4,710	Mar. 11, 1952	40	171	1.35	18.28	142	15.26
1953	1274	5,060	Feb. 21, 1953	38	191	1.50	20.41	189	20.17
1954	1354	3,860	(a)	26	128	1.01	13.65	150	15.89
1955	1384	4,280	Mar. 22, 1955	36	153	1.20	16.38	148	15.82
1956	1434	4,060	Feb. 20, 1956	24	160	1.26	17.18	189	20.25
1957	1504	4,960	Apr. 4, 1957	30	194	1.53	20.71	236	25.24
1958	1554	5,330	Nov. 19, 1957	47	273	2.15	29.18	218	23.31
1959	1624	2,970	Feb. 13, 1959	50	180	1.42	19.20	178	19.00
1960	1704	5,330	Mar. 3, 1960	35	187	1.47	20.05	-	-

a Jan. 22, Apr. 16, 1954.

4425. Luxapalila Creek at Millport, Ala.

Location.--Lat 33°34', long 88°05', in SW $\frac{1}{4}$ sec.14, T.17 S., R.15 W., near left bank on downstream side of pier of bridge on State Highway 17, a quarter of a mile downstream from Driver Creek and 1 mile north of Millport.

Drainage area.--241 sq mi.

Records available.--August 1954 to September 1959.

Gage.--Water-stage recorder. Datum of gage is 243.65 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Average discharge.--5 years (1954-59), 328 cfs.

Extremes.--1954-59: Maximum discharge, 5,060 cfs Apr. 4, 1957 (gage height, 11.8 ft); minimum, 34 cfs Sept. 15, 16, 20, 21, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	49.4	90.4	182	336	692	470	541	149	90.5	235	42.7 84.5	44.3 48.2	244
1956	52.4	106	104	104	1,019	601	623	179	98.9	64.0	58.9	45.3	251
1957	111	105	688	754	784	454	646	170	295	133	62.5	†112	355
1958	192	1,030	542	407	614	576	656	683	185	408	129	204	464
1959	164	312	246	575	686	523	519	309	306	106	82.9	94.9	324
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	0.24	0.42	0.87	1.61	2.99	2.25	2.50	0.71	0.42	1.12	0.20 .40	0.21 .22	13.75
1956	.25	.49	.50	.50	4.56	2.87	2.88	.86	.46	.31	.28	.21	14.17
1957	.53	.48	3.29	3.51	3.39	2.17	2.99	.81	1.36	.64	.30	.52	19.99
1958	.92	4.77	2.59	1.95	2.65	2.75	3.04	3.27	.72	1.95	.62	.94	26.17
1959	.78	1.44	1.18	2.75	2.97	2.50	2.40	1.48	1.42	.50	.40	.44	18.26
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-
1955	1384	4,020	Feb. 6, 1955	41	244	1.01	13.75	239	13.46
1956	1434	4,080	(a)	36	251	1.04	14.17	305	17.23
1957	1504	5,060	Apr. 4, 1957	45	355	1.47	19.99	426	23.97
1958	1554	4,990	Nov. 19, 1957	69	464	1.93	26.17	378	21.29
1959	1624	3,960	Jan. 21, 1959	61	324	1.34	18.26	-	-
1960	-	-	-	-	-	-	-	-	-

a Feb. 20, Apr. 6, 1956.

4430. Luxapalila Creek at Steens, Miss.

Location.--Lat 33°34', long 88°19', in NE¹ 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 6½ miles northeast of Columbus.

Drainage area.--309 sq mi.

Records available.--October 1943 to September 1947, October 1949 to September 1960.

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.--15 years (1943-47, 1949-60), 464 cfs.

Extremes.--1943-47, 1949-60: 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, 23 cfs Aug. 14, 1954 (gage height, 2.52 ft).
Flood of Jan. 6, 1949, reached a stage of 19.2 ft (discharge, about 16,000 cfs).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	160	219	366	755	1,572	2,187	1,173	279	167	195	93.6	124	600
1952	96.3	230	943	810	659	338	459	158	102	63.5	101	73.4	387
1953	73.8	116	205	843	1,356	850	411	989	102	138	60.8	61.6	429
1954	52.8	72.3	230	1,116	325	400	670	335	82.2	47.8	31.5	32.0	283
1955	42.6	80.8	179	425	952	604	703	211	97.3	290	76.4	41.7	304
1956	42.0	115	109	108	1,481	893	871	237	98.0	55.4	50.7	34.5	335
1957	111	110	977	972	1,220	630	951	217	338	201	57.3	96.9	485
1958	186	141.9	734	533	879	801	977	978	182	560	150	240	628
1959	249	422	392	784	837	670	709	389	405	111	85.5	88.8	433
1960	172	202	355	954	869	1,489	492	260	153	81.5	144	124	441

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.60	0.79	1.36	2.82	5.30	8.08	4.24	1.04	0.60	0.73	0.35	0.45	26.36
1952	.36	.83	3.52	3.02	2.30	3.50	1.66	.59	.37	.24	.38	.28	17.03
1953	.28	.42	.76	3.14	4.57	3.17	1.48	3.69	.37	.52	.23	.22	16.85
1954	.20	.26	.86	4.16	1.10	1.49	2.42	1.25	.30	.18	.12	.12	12.46
1955	.16	.29	.67	1.58	3.21	2.25	2.54	.79	.55	1.08	.29	.15	13.36
1956	.16	.42	.41	.40	5.17	3.33	3.15	.89	.35	.21	.19	.12	14.80
1957	.41	.40	3.64	3.63	4.11	2.35	3.43	.81	1.22	.75	.21	.35	21.31
1958	.69	5.12	2.74	1.99	2.96	2.99	3.17	3.65	.66	2.09	.56	.87	27.49
1959	.93	1.52	1.46	2.93	3.16	2.50	2.56	1.45	1.46	.41	.32	.32	19.02
1960	.64	.73	1.33	3.56	3.03	5.56	1.78	.97	.55	.30	.54	.45	19.44

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	693	30.45
1951	1204	12,700	Mar. 30, 1951	59	600	1.94	26.36	645	28.32	
1952	1234	5,350	Mar. 12, 1952	43	387	1.25	17.03	313	13.78	
1953	1274	6,670	Feb. 22, 1953	41	429	1.39	18.85	426	18.71	
1954	1334	5,590	Jan. 23, 1954	24	283	.916	12.46	279	12.26	
1955	1384	4,140	Mar. 23, 1955	36	304	.984	13.36	301	13.23	
1956	1434	4,500	Feb. 21, 1956	28	335	1.08	14.90	414	18.26	
1957	1504	6,820	Apr. 5, 1957	32	485	1.57	21.31	579	25.41	
1958	1554	6,820	Nov. 20, 1957	70	626	2.03	27.49	520	22.85	
1959	1624	3,800	Jan. 23, 1959	70	433	1.40	19.02	405	17.81	
1960	1704	7,650	Mar. 4, 1960	58	441	1.43	19.44	-	-	

MOBILE RIVER BASIN

4440. Coal Fire Creek near Pickensville, Ala.

Location.--Lat 33°18', long 88°16', in NE $\frac{1}{4}$ sec.25, T.20 S., R.17 W., near center of channel on downstream side of pier of bridge on State Highway 14, $4\frac{1}{2}$ miles north of Pickensville and $4\frac{1}{2}$ miles upstream from mouth.

Drainage area.--131 sq mi.

Records available.--October 1954 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 148.50 ft above mean sea level, datum of 1929.

Average discharge.--6 years (1954-60), 141 cfs.

Extremes.--1954-60: Maximum discharge, 3,060 cfs Mar. 4, 1960 (gage height, 8.60 ft); minimum, 2.0 cfs Sept. 25, 1955, Aug. 12, 1956 (gage height, 0.42 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	20.9	35.4	52.9	166	398	192	319	44.5	27.5	40.1	22.1	7.43	108
1956	9.38	39.9	43.8	37.2	374	367	358	64.6	23	14.7	11.2	6.84	111
1957	41.7	41.5	551	246	361	246	314	64.1	55	48.7	13.6	27.1	149
1958	48.1	376	187	180	291	262	198	445	47.8	103	34.3	46.8	184
1959	81.7	158	159	285	320	286	238	111	106	21.3	23.5	24.5	148
1960	36.5	55.2	97.1	276	423	531	150	93.5	40.3	15.4	47.8	34.1	149

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	0.18	0.30	0.47	1.46	3.16	1.69	2.72	0.39	0.23	0.35	0.19	0.06	11.20
1956	.08	.34	.39	.53	3.08	3.23	3.05	.57	.20	.13	.10	.06	11.56
1957	.37	.35	3.09	2.16	2.87	2.17	2.67	.56	.47	.43	.12	.23	15.49
1958	.42	3.20	1.64	1.58	2.32	2.30	1.69	3.91	.41	.90	.30	.40	19.07
1959	.72	1.35	1.23	2.50	2.54	2.52	2.02	.98	.90	.19	.21	.21	15.37
1960	.32	.47	.85	2.43	3.48	4.68	1.28	.82	.34	.14	.42	.29	15.52

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-
1955	1384	734	Feb. 24, 1955	2.2	108	0.824	11.20	107	11.06
1956	1434	1,130	Apr. 8, 1956	2.3	111	.847	11.56	140	14.56
1957	1504	1,100	(a)	5.7	149	1.14	15.49	164	16.94
1958	1554, 1704	1,820	May 3, 1958	11	184	1.40	19.07	165	17.11
1959	1624	1,000	Jan. 24, 1959	15	148	1.13	15.37	132	13.71
1960	1704	3,060	Mar. 4, 1960	11	149	1.14	15.52	-	-

a Dec. 24, 1956, Apr. 5, 1957.

4445. 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 Boguschtito Creek, and 7 miles southwest of Aliceville.

Drainage area.--5,990 sq mi, approximately.

Records available.--October 1938 to September 1960. Monthly discharge only for period October to December 1938, published in WSP 1304. 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. Prior to July 10, 1939, staff gage at site 200 ft downstream at same datum. Auxiliary water-stage recorder at Vienna Perry, 12 miles downstream; Jan. 30, 1940, to Oct. 16, 1958, staff gage.

Average discharge.--22 years (1938-60), 8,096 cfs.

Extremes.--1939-60: Maximum discharge, 163,000 cfs Jan. 9, 1949; maximum gage height, 46.9 ft Jan. 9, 1949; minimum discharge, 165 cfs Sept. 21, 1954 (gage height, 2.34 ft). Maximum stage known, 50.2 ft in April 1892, present datum, from reports of U.S. Weather Bureau.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,071	4,714	9,186	20,750	36,420	21,330	38,550	4,328	3,187	2,782	976	823	11,900
1952	762	2,118	18,410	15,360	12,890	16,210	8,758	2,454	1,146	2,634	850	566	6,677
1953	521	965	1,861	9,291	20,600	21,120	7,945	22,980	1,426	2,408	745	515	7,476
1954	419	537	1,650	12,000	7,532	5,385	9,318	6,256	985	667	324	235	3,741
1955	345	584	1,620	7,006	14,010	21,380	24,520	5,444	3,842	4,673	1,502	524	7,115
1956	464	927	1,637	1,180	22,970	14,830	20,630	8,261	1,364	872	541	449	6,089
1957	754	807	9,827	10,530	30,430	12,200	12,640	2,786	6,046	5,561	731	1,152	7,631
1958	4,865	27,380	17,670	10,050	12,230	13,270	13,230	23,910	2,748	7,525	2,215	6,101	11,760
1959	2,968	3,739	3,592	12,430	17,510	9,748	15,360	5,574	6,594	2,115	1,123	982	6,725
1960	1,622	1,867	8,175	17,890	19,290	27,320	10,890	5,480	1,832	818	1,169	979	8,095

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.40	0.88	1.77	3.99	6.33	4.11	7.18	0.83	0.59	0.54	0.19	0.15	26.96
1952	.15	.39	3.54	2.96	2.32	3.10	1.63	.47	.21	.12	.16	.11	15.16
1953	.10	.18	.36	1.79	3.58	4.06	1.48	4.42	.27	.46	.14	.10	16.94
1954	.08	.10	.32	2.31	1.27	1.04	1.74	1.20	.18	.13	.08	.04	8.47
1955	.07	.11	.51	1.47	2.44	4.11	4.57	1.05	.72	.90	.29	.10	16.14
1956	.09	.17	.32	.23	4.13	2.85	3.84	1.59	.25	.17	.10	.08	13.82
1957	.15	.15	1.89	2.03	5.29	2.35	2.35	.54	1.13	1.07	.14	.21	17.29
1958	.94	5.10	3.40	1.93	2.13	2.55	2.47	4.60	.51	1.45	.43	1.14	26.65
1959	.57	.70	.69	2.39	3.04	1.88	2.86	1.07	1.23	.41	.22	.18	15.24
1960	.31	.35	1.57	3.44	3.47	5.26	2.03	1.05	.34	.16	.23	.18	18.39

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	-	12,600	28.58
1951	1204	124,000	Apr. 2, 1951	560	11,900	1.99	26.96	12,360	27.99		
1952	1234	37,700	Dec. 28, 1951	425	6,677	1.11	15.16	5,157	11.72		
1953	1274	52,000	Feb. 28, 1953	365	7,476	1.25	16.94	7,414	16.80		
1954	1354	30,200	Jan. 28, 1954	172	3,741	.625	8.47	3,736	8.46		
1955	1384	77,000	Mar. 29, 1955	247	7,115	1.19	16.14	7,154	16.23		
1956	1434	37,000	Mar. 18, 19, 1956	319	6,089	1.02	13.82	6,797	15.43		
1957	1504	59,700	Feb. 9, 1957	335	7,631	1.27	17.29	10,830	24.55		
1958	1554	69,200	Nov. 25, 1957	830	11,760	1.96	26.65	8,456	19.17		
1959	1624	35,100	Feb. 20, 1959	585	6,725	1.12	15.24	6,846	15.51		
1960	1704	44,700	Mar. 9, 1960	540	8,095	1.35	18.39	-	-		

MOBILE RIVER BASIN

4450. Lubbub Creek near Carrollton, Ala.

Location.--Lat 33°15', long 88°05', in E½ sec.10, T.21 S., R.15 W., near center of channel on upstream side of bridge on County Highway 12, 1 mile southeast of Carrollton and 4 miles upstream from Little Lubbub Creek.

Drainage area.--116 sq mi.

Records available.--September 1954 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 174.24 ft above mean sea level, datum of 1929.

Average discharge.--6 years (1954-60), 128 cfs.

Extremes.--1954-60: Maximum discharge, 2,720 cfs Mar. 3, 1960 (gage height, 9.27 ft), minimum, 0.1 cfs Sept. 14-20, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	0.737	-
1955	4.93	20.4	50.7	173	461	206	342	31.4	14.8	49.7	25.3	1.84	112
1956	2.93	42.0	44.8	33.8	436	380	338	67.3	14.5	7.77	4.47	2.43	113
1957	23.4	37.9	296	201	297	201	263	31.5	23.5	23.1	3.44	13.8	117
1958	40.3	368	172	166	255	235	159	276	32.5	54.6	21.5	39.5	151
1959	54.2	84.7	90.0	234	282	265	211	122	115	10.4	22.4	20.3	125
1960	31.2	56.6	106	353	405	501	159	110	26.9	7.41	38.2	24.4	151

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	0.007	-
1955	0.05	0.20	0.50	1.72	4.14	2.04	3.29	0.31	0.14	0.49	0.25	.02	13.15
1956	.03	.40	.44	.34	4.06	3.78	3.25	.67	.14	.08	.04	.02	13.25
1957	.23	.36	2.94	2.00	2.67	2.00	2.53	.31	.23	.23	.03	.13	13.66
1958	.40	3.54	1.71	1.65	2.29	2.33	1.53	2.75	.31	.54	.21	.38	17.64
1959	.54	.81	.89	2.32	2.53	2.63	2.03	1.21	1.11	.10	.22	.19	14.58
1960	.31	.54	1.05	3.51	3.76	4.98	1.53	1.09	.26	.07	.38	.23	17.71

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1384	-	-	-	-	-	-	-	-
1955	1384	1,560	Feb. 7, 1955	-	0.7	112	0.965	13.15	114
1956	1434	1,480	Feb. 5, 1956	.8	113	.974	13.25	136	15.91
1957	1504	1,480	Dec. 15, 1956	.7	117	1.01	13.66	135	15.78
1958	1554	1,410	Nov. 20, 1957	4.0	151	1.30	17.64	122	14.23
1959	1624	1,410	May 31, 1959	4.6	125	1.08	14.58	122	14.24
1960	1704	2,720	Mar. 3, 1960	1.6	151	1.30	17.71	-	-

4455. 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 Railway bridge.

Drainage area.--276 sq mi.

Records available.--February 1939 to September 1959.

Gage.--Water-stage recorder. Datum 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.--20 years (1939-59), 416 cfs.

Extremes.--1939-59: Maximum discharge, 20,500 cfs Jan. 7, 1950, Mar. 29, 1951; maximum gage height, 21.75 ft Jan. 8, 1946; minimum discharge observed, 7.0 cfs Sept. 15, 1954.

Remarks.--An average of about 0.5 cfs is diverted upstream from gage for municipal water supply for city of Fayette. All or a greater part of this diversion is returned as sewage a short distance downstream from gage.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	73.1	110	218	635	1,455	1,927	886	182	83.1	113	43.6	64.6	477
1952	42.4	141	1,100	830	621	852	323	125	65.3	28.6	58.4	39.2	353
1953	31.1	49.2	156	903	1,503	735	411	945	66.0	104	32.5	28.6	408
1954	23.7	35.2	133	1,132	280	423	622	312	47.3	31.8	17.5	20.3	257
1955	16.8	51.4	164	542	1,126	778	843	143	71.0	308	76.1	15.8	339
1956	19.1	72.5	53.6	54.1	1,711	866	994	452	111	45.5	29.3	14.7	362
1957	81.6	77.0	1,072	1,031	1,469	787	806	108	242	103	24.5	91.3	485
1958	142	1,574	864	583	884	953	951	894	105	441	98.3	257	643
1959	121	276	245	789	973	684	630	214	374	59.3	50.2	65.9	369
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.31	0.45	0.91	2.65	5.49	8.05	3.58	0.76	0.34	0.47	0.18	0.26	23.45
1952	.18	.57	4.59	3.47	2.43	3.56	1.31	.52	.26	.12	.24	.16	17.41
1953	.13	.20	.65	3.77	5.67	3.07	1.66	3.95	.27	.43	.14	.12	20.06
1954	.10	.14	.55	4.73	1.06	1.77	2.51	1.30	.19	.13	.07	.08	12.63
1955	.07	.21	.69	2.26	4.25	3.25	3.41	.60	.29	1.29	.32	.06	16.70
1956	.08	.29	.22	.23	6.69	3.62	4.02	1.89	.45	.19	.12	.06	17.86
1957	.34	.31	4.48	4.31	5.54	3.29	3.26	.45	.98	.43	.10	.37	23.86
1958	.59	6.36	3.61	2.43	3.34	3.98	3.85	3.73	.43	1.84	.41	1.04	31.61
1959	.51	1.12	1.03	3.30	3.67	2.86	2.55	.90	1.51	.25	.21	.27	18.18
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Runoff in inches
		Discharge	Date					
1950	-	-	-	-	-	-	-	568
1951	1204	20,500	Mar. 29, 1951	17	477	1.73	23.45	27.97
1952	1234	5,600	(a)	15	353	1.28	17.41	27.12
1953	1274	10,100	Feb. 22, 1953	18	408	1.48	20.06	13.05
1954	1334	7,200	Jan. 23, 1954	7.4	257	.931	12.63	404
1955	1384	8,100	Mar. 23, 1955	11	339	1.23	16.70	260
1956	1434	5,600	Nov. 5, 1956	9.2	362	1.31	17.86	332
1957	1504	6,600	(b)	13	485	1.76	23.86	454
1958	1554	11,500	Nov. 19, 1957	34	643	2.33	31.61	596
1959	1624	3,610	Jan. 24, 1959	34	369	1.34	18.18	29.29
1960	-	-	-	-	-	-	-	23.71

a Dec. 22, 1951, Mar. 12, 1952.

b Dec. 15, 1956, Feb. 2, 1957.

4460. Sipsey River at Moores Bridge, Ala.

Location.--Lat 33°27', long 87°46', in NW¼ sec.35, T.18 S., R.12 W., on upstream handrail of highway bridge, 1 mile east of Moores Bridge and 6 miles downstream from Bear Creek.

Drainage area.--403 sq mi.

Records available.--February 1939 to September 1951.

Gage.--Wire-weight gage. Datum of gage is 240.95 ft above mean sea level, datum of 1929 (levels by the Corps of Engineers). Prior to Dec. 23, 1946, staff gage at same site and datum.

Average discharge.--12 years (1939-51), 681 cfs.

Extremes.--1939-51: Maximum discharge, 23,600 cfs Jan. 10, 1946 (gage height, 16.78 ft, from floodmark); minimum observed, 29 cfs Oct. 9-13, 1943.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	155	220	428	965	2,317	2,645	1,921	336	140	172	81.5	87.4	779

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.44	0.61	1.23	2.76	5.99	7.57	5.32	0.96	0.39	0.49	0.23	0.24	26.23

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	917	30.91
1951	1204	21,700	Mar. 30, 1951	35	779	193	26.23	-	-

4465. Sipsey River near Elrod, Ala.

Location.--Lat 33°15', long 87°46', in NE $\frac{1}{4}$ 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.--518 sq mi.

Records available.--August 1928 to March 1932, October 1939 to September 1960.

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 from present site at datum 1.93 ft higher. Nov. 1 to Dec. 11, 1939, wire-weight gage at present site and datum.

Average discharge.--24 years (1928-31, 1939-60), 743 cfs.

Extremes.--1928-32, 1939-60: Maximum discharge, 21,000 cfs Jan. 9, 1950, Mar. 31, 1951 (gage height, 18.1 ft); minimum, 12 cfs Sept. 20, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	238	310	542	1,146	2,569	2,945	2,674	484	185	203	105	108	947
1952	101	285	1,569	1,388	1,344	1,496	628	214	135	54.4	117	93.3	618
1953	61.2	107	306	1,518	2,296	1,624	742	1,777	128	180	70.8	50.3	731
1954	40.0	69.3	276	1,487	655	598	1,073	561	86.6	49.6	28.4	26.6	412
1955	29.2	72.5	146	790	1,428	1,304	1,539	268	151	437	158	32.6	523
1956	29.9	130	158	133	2,216	1,719	1,733	583	180	144	46.8	30.7	584
1957	113	169	1,412	1,205	2,280	1,162	1,295	233	272	208	46.5	129	700
1958	287	2,260	1,324	754	1,449	1,247	1,115	1,702	225	485	189	271	938
1959	297	331	518	1,173	1,557	1,077	1,205	428	648	109	84.7	118	622
1960	178	354	579	1,374	1,817	2,436	978	549	224	126	206	158	746

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.53	0.67	1.21	2.55	5.16	6.55	5.76	1.08	0.40	0.45	0.23	0.23	24.82
1952	.23	.62	3.49	3.09	2.80	3.33	1.35	.48	.29	.12	.26	.20	16.26
1953	.14	.23	.68	3.38	4.61	3.61	1.60	3.95	.28	.40	.16	.11	19.15
1954	.09	.15	.62	3.31	1.32	1.33	2.31	1.25	.19	.11	.06	.06	10.80
1955	.06	.16	.32	1.76	2.87	2.90	3.32	.60	.33	.97	.35	.07	13.71
1956	.07	.28	.35	.30	4.61	3.82	3.73	1.30	.39	.32	.11	.07	15.35
1957	.25	.56	3.14	2.68	4.58	2.59	2.79	.52	.59	.46	.10	.28	18.34
1958	.84	4.87	2.95	1.68	2.91	2.78	2.40	3.79	.48	1.08	.42	.58	24.58
1959	.66	.71	1.15	2.61	3.13	2.40	2.59	.95	1.39	.24	.19	.25	16.27
1960	.40	.76	1.29	3.06	3.78	5.42	2.11	1.22	.48	.28	.46	.34	19.60

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	21,000	Mar. 31, 1951	52	947	1.84	24.82	1,084	28.41
1952	1234	5,400	Dec. 26, 1951	32	618	1.19	16.26	1,021	26.75
1953	1274	9,400	Feb. 25, 1953	32	731	1.41	19.15	494	12.97
1954	1334	6,400	Jan. 26, 1954	13	412	.795	10.80	723	18.96
1955	1364	4,230	Mar. 27, 1955	23	523	1.01	13.71	400	10.46
1956	1434	5,190	Feb. 9, 1956	20	584	1.13	15.35	529	13.87
1957	1504	6,190	Feb. 4, 1957	24	700	1.35	18.34	700	18.40
1958	1554	8,990	Nov. 21, 1957	72	958	1.81	24.58	879	23.05
1959	1624	3,020	Feb. 19, 1959	57	622	1.20	16.27	712	18.64
1960	1704	7,190	Mar. 7, 1960	62	746	1.44	19.60	619	16.20

4475. 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 Shotgun 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 September 1942, October 1943 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Altitude of gage is 180 ft (from river-profile map). Prior to May 18, 1945, staff gage and May 18, 1945, to July 23, 1949, wire-weight gage, at same site and datum.

Average discharge.--19 years (1940-42, 1943-60), 553 cfs.

Extremes.--1940-42, 1943-60: 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.--Occasional slight regulation by Bluff Lake at low water.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	253	516	559	1,524	2,925	3,660	1,614	194	307	48.5	26.9	24.0	959
1952	17.8	46.9	331	369	574	886	542	77.6	35.1	16.0	11.4	5.26	242
1953	.85	5.99	49.5	509	1,383	799	322	1,976	353	102	21.6	22.0	431
1954	1.56	.05	44.1	471	282	304	832	665	28.3	44.0	4.66	.46	223
1955	.42	7.23	37.4	200	1,063	679	1,413	353	81.1	162	49.0	2.53	331
1956	.79	26.9	35.3	26.0	1,713	1,311	1,341	204	50.7	14.4	6.21	3.06	388
1957	56.5	13.0	925	717	1,650	947	989	124	206	352	12.5	13.0	493
1958	43.0	1,188	559	733	1,017	1,229	930	2,046	96.9	529	86.6	51.9	708
1959	72.2	139	104	496	1,180	838	1,100	434	219	61.1	51.1	40.4	388
1960	36.7	75.7	187	892	1,812	2,272	420	440	29.4	26.5	60.4	30.0	521

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.66	0.80	1.46	3.99	6.92	10.11	4.09	0.51	0.78	0.13	0.07	0.06	29.58
1952	.05	.12	.87	.97	1.41	2.32	1.37	.20	.09	.04	.03	.01	7.48
1953	.002	.02	.13	1.33	3.27	2.09	.82	5.18	.09	.27	.06	.06	13.32
1954	.004	.0001	.12	1.23	.67	.80	2.11	1.74	.07	.12	.01	.001	6.88
1955	.001	.02	.10	.52	2.51	1.78	3.58	.93	.21	.42	.13	.006	10.21
1956	.002	.07	.09	.07	4.20	3.44	3.40	.54	.13	.04	.02	.008	12.01
1957	.15	.03	2.42	1.88	3.90	2.48	2.51	.32	.52	.92	.03	.03	15.19
1958	.11	3.01	1.47	1.92	2.41	3.22	2.36	5.36	.25	1.39	.23	.13	22.88
1959	.19	.35	.27	1.30	2.79	2.20	2.79	1.14	.55	.16	.13	.10	11.97
1960	.10	.19	.49	2.34	4.44	5.95	1.06	1.15	.07	.07	.16	.08	16.10

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	899	27.73
1951	1204	55,000	Mar. 29, 1951	15	959	2.18	29.58	898	27.70
1952	1234	2,530	Mar. 11, 1952	-	242	.550	7.48	213	6.59
1953	1274	6,920	May 2, 1953	0	431	.980	13.32	431	13.29
1954	1334	-	-	0	223	.507	6.88	223	6.88
1955	1384	6,220	Apr. 14, 1955	0	351	.752	10.21	352	10.25
1956	1434	7,500	Mar. 16, 1956	.1	388	.882	12.01	467	14.45
1957	1504	6,560	Feb. 3, 1957	.4	493	1.12	15.19	557	18.20
1958	1554	8,850	May 2, 1958	11	708	1.61	22.88	586	18.08
1959	1624	5,030	Apr. 22, 1959	9.5	388	.882	11.97	387	11.94
1960	1704	12,300	Mar. 4, 1960	8.3	521	1.18	16.10	-	-

4480. 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 September 1932, September 1938 to September 1960.

Monthly discharge only for June to September 1932, published in WSP 1304.

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.--26 years (1928-32, 1938-60), 903 cfs.

Extremes.--1928-32, 1938-60: 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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	397	473	1,011	2,342	3,977	5,469	2,746	298	626	112	89.1	83.0	1,453
1952	82.5	112	597	718	935	1,506	964	154	83.6	53.8	52.8	41.0	442
1953	39.0	51.8	112	925	2,660	1,505	513	3,701	87.3	326	70.9	62.5	830
1954	40.7	48.3	132	1,093	452	534	1,309	1,257	74.4	86.0	34.4	28.4	425
1955	34.3	50.5	96.9	332	1,831	1,234	2,449	511	158	274	88.9	34.5	580
1956	32.4	94.7	87.3	69.5	3,109	2,496	2,772	283	109	53.6	46.1	31.8	753
1957	169	55.5	1,599	1,125	2,828	1,432	2,158	267	282	447	44.2	78.9	859
1958	211	258	956	1,391	2,257	2,350	1,477	4,477	205	1,090	182	136	1,431
1959	343	594	247	1,402	2,669	1,401	2,335	664	426	110	103	97.8	851
1960	145	203	377	1,839	3,246	4,013	852	683	76.9	64.3	102	79.2	968

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.56	0.65	1.44	3.33	5.10	7.76	3.77	0.42	0.86	0.16	0.13	0.11	24.29
1952	.12	.15	.85	1.02	1.24	2.14	1.35	.22	.11	.08	.08	.06	7.42
1953	.06	.07	.16	1.31	3.41	2.14	.71	5.25	.12	.46	.10	.09	13.88
1954	.06	.07	.19	1.55	.56	.76	1.80	1.78	.10	.12	.05	.04	7.10
1955	.05	.07	.14	.47	2.35	1.75	3.37	.73	.22	.39	.13	.05	9.72
1956	.05	.13	.12	.10	4.13	3.54	3.81	.40	.15	.08	.07	.04	12.62
1957	.24	.08	2.27	1.60	3.63	2.03	2.94	.38	.39	.64	.06	.11	14.37
1958	.30	3.46	1.33	1.98	2.89	3.31	2.03	6.36	.28	1.55	.26	.19	23.94
1959	.49	.82	.35	1.99	3.42	1.99	5.21	.94	.59	.16	.15	.13	14.24
1960	.21	.28	.54	2.61	4.31	5.70	1.17	.97	.11	.09	.14	.11	16.24

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,414	23.64
1951	1204	52,000	Mar. 30, 1951	65	1,453	1.79	24.29	1,362	22.76
1952	1234	3,790	Mar. 11, 1952	35	442	.544	7.42	392	6.59
1953	1274	10,900	May 1, 1953	34	830	1.02	13.88	832	13.91
1954	1334	5,750	May 8, 1954	25	425	.523	7.10	421	7.04
1955	1384	6,900	Apr. 16, 1955	28	590	.714	9.72	583	9.76
1956	1434	11,800	Apr. 7, 1956	28	753	.927	12.62	889	14.91
1957	1504	10,500	Apr. 5, 1957	26	859	1.06	14.37	1,008	16.87
1958	1554	13,400	May 3, 1958	56	1,431	1.76	23.94	1,226	20.51
1959	1624	6,710	Feb. 15, 1959	60	851	1.05	14.24	813	13.61
1960	1704	13,800	Mar. 4, 1960	48	968	1.19	16.24	-	-

4485. 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.--1,140 sq mi, approximately.

Records available.--March 1939 to September 1940, July 1944 to September 1960.

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 (corrected) above mean sea level. July 26, 1944, to June 5, 1949, wire-weight gage at present site and datum. Water-stage recorder for station on Tombigbee River at Gainesville is used as an auxiliary gage for this station.

Average discharge.--17 years (1939-40, 1944-60), 1,453 cfs.

Extremes.--1939-40, 1944-60: Maximum discharge, 37,600 cfs Mar. 31, 1951 (gage height, 42.7 ft); minimum, 13 cfs July 7, 1954.

Remarks.--Discharge includes flow of Noxubee cutoff channel at bridge on State Highway 17, 1 mile north of gage.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	528	582	1,490	3,292	6,315	5,779	5,673	364	915	144	117	93.4	2,068
1952	81.1	141	877	774	1,114	2,124	1,373	185	103	62.8	69.4	48.0	578
1953	39.3	54.5	115	1,401	3,234	2,574	1,298	4,901	115	799	85.1	84.0	1,218
1954	49.5	54.8	242	1,631	702	825	2,111	1,335	92.8	103	34.1	27.5	600
1955	31.0	49.5	159	633	2,856	1,985	3,744	723	272	522	153	39.7	914
1956	42.6	99.5	116	91.1	4,839	3,614	4,380	360	150	72.5	50.6	35.6	1,134
1957	206	77.7	1,790	1,328	5,240	2,082	2,437	351	313	614	49.2	158	1,044
1958	386	2,858	1,389	1,594	2,518	2,907	1,654	4,820	418	1,654	276	256	1,750
1959	437	666	398	1,799	2,918	1,806	2,179	778	755	181	127	125	999
1960	211	289	598	2,581	4,307	5,228	1,178	833	113	91.8	148	95.0	1,300

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.53	0.57	1.51	3.33	5.77	5.84	5.55	0.37	0.80	0.15	0.12	0.09	24.63
1952	.08	.14	.89	.78	1.05	2.15	1.34	.19	.10	.06	.07	.05	6.90
1953	.04	.05	.12	1.42	2.95	2.60	1.27	4.96	.11	.81	.09	.08	14.50
1954	.05	.05	.24	1.65	.84	.83	2.07	1.35	.09	.10	.03	.03	7.13
1955	.03	.05	.16	.64	2.61	2.01	3.66	.73	.27	.55	.15	.04	10.88
1956	.04	.10	.12	.09	4.58	3.66	4.29	.36	.15	.07	.05	.03	13.54
1957	.21	.08	1.81	1.34	2.96	2.11	2.44	.36	.31	.62	.05	.15	12.44
1958	.39	2.90	1.40	1.61	2.30	2.94	1.81	4.87	.41	1.67	.28	.25	20.83
1959	.44	.65	.40	1.82	2.67	1.83	2.13	.79	.74	.18	.13	.12	11.90
1960	.21	.28	.61	2.61	4.07	5.29	1.15	.84	.12	.09	.15	.09	15.51

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	2,145	25.55
1951	1204	37,600	Mar. 31, 1951	65	2,068	1.81	24.63	1,942	23.13
1952	1234	5,980	Mar. 12, 1952	40	578	.507	6.90	503	6.00
1953	1274	11,900	May 16, 1953	34	1,218	1.07	14.50	1,229	14.63
1954	1334	8,550	Apr. 17, 1954	22	600	.526	7.13	591	7.05
1955	1384	8,270	Apr. 14, 1955	24	914	.802	10.88	915	10.90
1956	1434	12,700	Apr. 7, 1956	27	1,134	.995	13.54	1,288	15.38
1957	1504	7,690	Apr. 5, 1957	23	1,044	.916	12.44	1,262	15.03
1958	1554	12,800	May 7, 1958	84	1,750	1.54	20.83	1,482	17.63
1959	1624	6,240	Feb. 10, 1959	68	999	.876	11.90	966	11.51
1960	1704	10,200	Mar. 4, 10, 1960	54	1,300	1.14	15.51	-	-

4490. Tombigbee River at Gainesville, Ala.

Location.--Lat 32°49', long 88°09', in SE¹/₄ 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 1955, October 1955 to September 1960 (fragmentary). 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. Prior to Feb. 2, 1939, wire-weight gage at same site and datum. Since Oct. 15, 1939, an auxiliary water-stage recorder at Epes, 19 miles downstream from base gage. Prior to Oct. 15, 1939, auxiliary staff gage at Epes, 700 ft upstream from site of auxiliary water-stage recorder.

Average discharge.--17 years (1938-55), 11,330 cfs.

Extremes.--1938-60: Maximum discharge, 168,000 cfs Jan. 11, 1949; maximum gage height, 53.9 ft Jan. 11, 1949; minimum daily discharge prior to 1956, 250 cfs Sept. 21, 22, 1954.

Remarks.--After 1955, discharge below 2,000 cfs not determined because of indefinite stage-discharge relation resulting from operations of Demopolis lock and dam near Demopolis.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3,465	6,090	12,860	26,270	747,320	30,460	56,130	6,542	4,747	3,268	1,376	1,083	16,380
1952	1,043	2,703	20,140	19,460	17,810	22,270	12,650	3,188	1,566	839	1,212	878	8,643
1953	715	1,256	2,586	14,480	26,000	32,130	12,240	33,050	1,875	4,535	1,015	680	10,830
1954	542	708	2,389	15,720	9,845	7,650	14,310	8,986	1,336	905	435	328	5,238
1955	465	810	2,323	9,435	20,660	23,670	37,110	6,711	4,737	5,794	2,220	723	9,450
1956	-	-	-	-	33,550	22,900	31,620	-	6,765	-	-	-	-
1957	-	-	-	13,970	37,420	17,520	18,620	3,538	-	-	-	-	-
1958	-	30,910	24,970	13,610	17,450	19,750	16,900	33,860	-	-	-	-	-
1959	-	-	4,998	15,400	24,800	13,960	19,920	7,242	8,947	-	-	-	-
1960	-	-	9,062	21,800	29,720	37,810	14,650	7,867	-	-	-	-	-

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.46	0.78	1.70	3.48	5.66	4.04	7.20	0.87	0.61	0.43	0.18	0.14	25.55
1952	.14	.35	2.67	2.58	2.21	2.95	1.62	.42	.20	.11	.16	.11	13.52
1953	.09	.16	.34	1.92	3.11	4.26	1.57	4.38	.24	.60	.13	.09	16.89
1954	.07	.09	.32	2.08	1.18	1.01	1.84	1.19	.17	.12	.06	.04	8.17
1955	.06	.10	.31	1.25	2.47	3.14	4.76	.89	.61	.77	.29	.09	14.74
1956	-	-	-	-	4.16	3.04	4.06	-	-	-	-	-	-
1957	-	-	-	1.85	4.48	2.32	2.39	.47	.87	-	-	-	-
1958	-	3.96	3.31	1.80	2.09	2.62	2.17	4.49	-	-	-	-	-
1959	-	-	.66	2.04	2.97	1.85	2.55	.96	1.15	-	-	-	-
1960	-	-	1.20	2.89	3.68	5.01	1.88	1.04	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	17,300	26.98
1951	1204	141,000	Apr. 3, 1951	666	16,380	1.88	25.55	16,510	25.77
1952	1234	40,600	Dec. 31, 1951	532	8,643	.993	13.52	7,010	10.95
1953	1274	60,700	Mar. 2, 1953	525	10,830	1.24	16.89	10,750	16.78
1954	1334	35,800	Apr. 18, 1954	250	5,238	.602	8.17	5,234	8.16
1955	1384	67,900	Apr. 1, 1955	-	9,450	1.09	14.74	-	-
1956	1434	55,200	Apr. 7, 1956	-	-	-	-	-	-
1957	1504	63,800	Feb. 10, 1957	-	-	-	-	-	-
1958	1554	76,500	Nov. 27, 1957	-	-	-	-	-	-
1959	1624	41,100	Feb. 20, 1959	-	-	-	-	-	-
1960	1704	60,200	Mar. 11, 1960	-	-	-	-	-	-

4494. Jones Creek near Epes, Ala.

Location.--Lat 32°41'20", long 88°10'00", on line between secs. 22 and 23, T.20 N., R.2 W., at bridge on State Highway 39, 2½ miles west of Epes and 6 miles upstream from mouth.

Drainage area.--11.7 sq mi.

Records available.--May 1959 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 125 ft (from topographic map).

Extremes.--1959-60: Maximum discharge, 1,530 cfs June 11, 1959 (gage height, 13.11 ft); no flow for many days.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	17.5	4.80	0.03	0.003	-
1960	0.090	0.681	5.48	35.0	31.4	38.9	14.3	0.869	.168	.006	4.85	.785	11.0

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	1.67	0.47	0.003	0.0003	-
1960	0.009	0.06	0.54	3.45	2.90	3.83	1.36	0.09	.02	.0006	.48	.07	12.81

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	1704	1,530	June 11, 1959 ^a	0	-	-	-	-	-
1960	1704	1,480	Apr. 3, 1960	0	11.0	0.94	12.81	-	-

^a Maximum discharge during period May to September.

4500. 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., on left bank near downstream side 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.--368 sq mi.

Records available.--June 1928 to September 1960. Monthly discharge only for period April to June 1932, published in WSP 1304. Prior to 1941, published as "Mulberry Fork of Black Warrior River."

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.--32 years (1928-60), 633 cfs.

Extremes.--1928-60: Maximum discharge, 46,600 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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	44.3	70.5	310	990	1,809	2,647	1,450	166	124	268	54.4	71.4	660
1952	117	660	2,441	1,645	1,030	1,546	281	119	453	34.9	266	130	729
1953	372	103	702	1,959	1,913	1,003	726	960	83.3	102	43.5	25.9	660
1954	7.36	7.27	405	1,949	534	767	537	268	277	55.7	16.8	7.67	404
1955	9.47	23.8	226	662	1,861	1,231	874	389	183	168	201	14.4	478
1956	22.6	93.8	97.5	59.9	2,534	1,245	1,405	329	102	141	96.9	34.9	504
1957	8.26	17.3	784	1,367	2,326	874	957	150	127	134	61.8	68.3	562
1958	128	2265	1,167	616	1,023	1,043	1,820	605	130	514	126	138	793
1959	97.7	101	155	931	1,155	1,070	687	448	526	50.0	42.1	229	453
1960	84.1	497	762	1,374	1,152	2,043	539	214	49.6	46.3	142	58.8	580

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.14	0.21	0.97	3.10	5.12	8.29	4.40	0.52	0.38	0.84	0.17	0.22	24.36
1952	.37	2.00	7.65	5.15	3.02	4.84	.85	.37	1.37	.11	.83	.39	26.95
1953	1.16	.31	2.20	6.14	5.41	3.14	2.20	3.01	.25	.32	.14	.08	24.36
1954	.02	.02	1.27	6.11	1.51	2.40	1.63	.84	.84	.17	.05	.02	14.88
1955	.03	.07	.71	2.08	5.27	3.86	2.65	1.22	.56	.53	.63	.04	17.65
1956	.07	.28	.31	.19	7.43	3.90	4.26	1.03	.31	.44	.30	.11	18.63
1957	.03	.05	2.46	4.28	6.58	2.74	2.90	.47	.39	.42	.19	.21	20.72
1958	.40	6.87	3.66	1.93	2.90	3.27	5.52	1.90	.40	1.61	.40	.42	29.28
1959	.31	.31	.48	2.92	3.27	3.55	2.08	1.40	1.60	.16	.13	.70	16.71
1960	.26	1.51	2.39	4.31	3.38	6.40	1.63	.67	.15	.14	.45	.18	21.47

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	729	26.87
1951	1204	35,200	Mar. 29, 1951	8.0	660	1.79	24.36	896	33.06
1952	1234	17,200	Dec. 21, 1951	5.0	729	1.98	26.95	558	20.60
1953	1274	18,200	Apr. 30, 1953	5.7	660	1.79	24.36	596	22.00
1954	1334	20,400	Jan. 16, 1954	4.6	404	1.10	14.88	390	14.38
1955	1384	20,400	Mar. 22, 1955	3.2	478	1.30	17.65	474	17.50
1956	1434	13,000	Feb. 20, 1956	4.9	504	1.37	18.63	554	20.51
1957	1504	16,300	Jan. 31, 1957	5.5	562	1.53	20.72	789	29.11
1958	1554	27,300	Nov. 18, 1957	11	793	2.15	29.28	527	19.45
1959	1624	13,900	Jan. 21, 1959	23	453	1.23	16.71	536	19.77
1960	1704	21,400	Mar. 3, 1960	16	580	1.58	21.47	-	-

4502. Dorsey Creek near Arkadelphia, Ala.

Location.--Lat 33°57'10", long 87°00'14", in SW $\frac{1}{4}$ sec.31, T.12 S., R.4 W., at center of downstream side of county road bridge, 4 miles northwest of Arkadelphia and 8 miles upstream from mouth.

Drainage area.--13.0 sq mi.

Records available.--September 1958 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 430 ft (from topographic map).

Extremes.--1958-60: Maximum discharge, 1,370 cfs Mar. 2, 1960 (gage height, 6.64 ft); no flow at times each year.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	-	9.79	-
1959	8.14	5.64	5.58	37.8	44.0	44.4	27.3	23.7	18.2	1.09	0.83	4.86	18.3
1960	2.10	19.1	27.7	49.3	32.8	73.5	16.0	9.04	.07	.36	.22	1.81	19.4

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	-	0.84	-
1959	0.72	0.48	0.49	3.35	3.53	3.94	2.34	2.10	1.56	0.10	0.07	.42	19.10
1960	.19	1.64	2.46	4.37	2.72	6.52	1.37	.80	.006	.03	.02	.16	20.29

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	1624	894	Jan. 21, 1959	0	18.3	1.41	19.10	20.8	21.70
1960	1704	1,370	Mar. 2, 1960	0	19.4	1.49	20.29	-	-

4505. 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., on downstream side of bridge on county road, 1 $\frac{1}{2}$ 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.--365 sq mi.

Records available.--October 1943 to December 1954.

Gage.--Water-stage recorder. Altitude of gage is 360 ft (by barometer).

Average discharge.--11 years (1943-54), 640 cfs.

Extremes.--1943-54: Maximum discharge, 48,400 cfs Jan. 8, 1946 (gage height, 29.6 ft), from rating curve extended above 16,000 cfs; minimum, 3.4 cfs Sept. 15, 16, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	86.0	150	277	879	2,263	2,735	1,151	196	79.7	120	40.4	61.2	.660
1952	47.3	182	2,341	1,336	891	1,410	317	130	73.8	22.5	76.2	26.8	.574
1953	23.7	52.3	131	935	2,188	1,066	718	1,029	65.0	74.2	25.0	22.8	.517
1954	17.2	22.3	116	1,614	289	402	845	353	84.1	21.1	11.9	14.4	.317
1955	11.0	45.2	554	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.27	0.46	0.88	2.78	6.46	8.64	3.52	0.62	0.24	0.38	0.13	0.19	24.57
1952	.15	.56	7.39	4.22	2.63	4.45	.97	.41	.23	.07	.24	.08	21.40
1953	.07	.16	.41	2.95	6.24	3.37	2.19	3.25	.20	.23	.08	.07	19.22
1954	.05	.07	.57	5.10	.82	1.27	2.58	1.12	.26	.07	.04	.04	11.79
1955	.03	.13	1.75	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	786	29.25
1951	1204	39,000	Mar. 29, 1951	18.0	660	1.81	24.57	835	31.06
1952	1234	15,300	Dec. 26, 1951	9.4	574	1.57	21.40	374	13.94
1953	1274	18,200	Feb. 21, 1953	11.0	517	1.42	19.22	513	19.07
1954	1334	17,500	Jan. 22, 1954	3.5	317	.868	11.79	355	13.21

4510. 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.--147 sq mi.

Records available.--June 1904 to December 1905 (gage heights only), October 1939 to November 1954, water years 1955-60 (annual maximum). Published as "near Elk" 1904-5.

Gage.--Crest-stage gage. Altitude of gage is 460 ft (by barometer). Prior to Dec. 4, 1939, staff gage and Dec. 5, 1939, to Nov. 28, 1954, water-stage recorder, at same site and datum.

Average discharge.--15 years (1939-54), 250 cfs.

Extremes.--1939-60: Maximum discharge, 13,000 cfs Jan. 8, 1946 (gage height, 10.97 ft), from rating curve extended above 6,800 cfs.
1939-54: Minimum discharge, 4.1 cfs Sept. 17, 18, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	61.1	91.1	134	330	883	998	507	128	73.7	72.6	35.0	50.1	276
1952	42.2	110	855.5	495	366	527	172	83.7	49.2	27.0	81.3	34.1	238
1953	31.0	45.3	96.5	435	870	453	309	496	79.5	62.6	28.2	24.2	240
1954	20.0	28.6	79.7	637	178	206	339	174	65.7	22.2	20.8	28.1	150
1955	18.3	45.0	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.48	0.69	1.05	2.59	6.25	7.83	3.85	1.00	0.56	0.57	0.27	0.38	25.52
1952	.33	.83	6.71	3.88	2.69	4.13	1.31	.66	.37	.21	.64	.26	22.02
1953	.24	.34	.76	3.41	6.16	3.55	2.34	3.89	.60	.49	.22	.18	22.18
1954	.16	.22	.63	5.00	1.26	1.61	2.57	1.36	.50	.17	.16	.21	13.85
1955	.14	.34	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean
		Discharge	Date					
1950	-	-	-	-	-	-	-	345
1951	1204	11,700	Mar. 29, 1951	22	276	1.88	25.52	338
1952	1234	3,980	Dec. 21, 1951	18	238	1.62	22.02	167
1953	1274	5,480	Feb. 21, 1953	15	240	1.63	22.18	257
1954	1334	4,980	Jan. 22, 1954	4.8	150	1.02	13.85	-
1955	1334	6,900	Mar. 22, 1955	-	-	-	-	-
1956	-	4,230	Feb. 6, 1956	-	-	-	-	-
1957	-	3,980	Feb. 1, 1957	-	-	-	-	-
1958	-	6,770	(a)	-	-	-	-	-
1959	-	1,900	Jan. 21, 1959	-	-	-	-	-
1960	-	5,860	Mar. 2, 1960	-	-	-	-	-

a Date unknown.

4520. 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, $3\frac{1}{4}$ miles downstream from Ryan Creek, 11 miles upstream from mouth, and 13.7 miles northeast of Jasper.

Drainage area.--971 sq mi.

Records available.--July 1952 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 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.

Average discharge.--8 years (1952-60), 1,402 cfs.

Extremes.--1952-60: Maximum discharge, 47,300 cfs Nov. 19, 1957 (gage height, 53.1 ft); minimum daily, 1.0 cfs Sept. 28-30 (result of closure of Lewis Smith Dam); minimum prior to closure of Lewis Smith Dam, 9.0 cfs Sept. 20, 1954 (gage height, 0.54 ft).

Remarks.--Some regulation during 1959 and 1960 by construction of Lewis Smith Dam and since Sept. 27, 1960, flow completely regulated by Lewis Smith Reservoir 2.6 miles upstream (capacity, 1,650,000 acre-ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	61.5	343	66.2	-
1953	71.6	108	440	3,066	5,276	2,540	1,564	2,697	223	313	74.2	48.4	1,346
1954	35.9	54.1	568	4,672	1,040	1,310	1,665	743	255	112	55.4	57.2	884
1955	34.5	103	1,130	1,673	4,524	3,682	2,293	651	327	810	173	37.5	1,266
1956	48.7	161	178	145	5,802	2,820	3,846	1,739	328	223	166	45.6	1,269
1957	101	134	2,434	3,195	5,464	1,924	2,024	3,730	398	421	82.5	561	1,400
1958	641	7,107	2,843	1,590	2,655	2,954	3,958	2,159	409	1,947	457	661	2,270
1959	287	610	567	2,907	3,005	2,569	2,353	1,350	1,527	306	152	246	1,311
1960	224	530	1,531	3,238	2,971	5,530	1,598	1,016	251	209	182	342	1,469

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	0.07	0.41	0.08	-
1953	0.09	0.12	0.52	3.64	5.66	3.02	1.80	3.20	0.26	.37	.09	.06	18.83
1954	.04	.06	.67	5.55	1.12	1.56	1.91	.88	.29	.13	.07	.07	12.35
1955	.04	.12	1.34	1.99	4.85	4.37	2.63	.77	.38	.96	.21	.04	17.70
1956	.06	.18	.21	.17	6.44	3.35	4.42	2.06	.38	.27	.20	.05	17.79
1957	.12	.15	2.89	3.79	5.86	2.28	2.33	.44	.46	.50	.10	.64	19.56
1958	.76	8.17	3.38	1.89	2.85	3.51	4.55	2.56	.47	2.31	.54	.76	31.75
1959	.34	.70	.67	3.45	3.22	3.05	2.70	1.60	1.75	.36	.18	.28	18.30
1960	.27	.61	1.82	3.84	3.30	6.57	1.84	1.21	.29	.25	.22	.39	20.61

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	1274	33,200	Feb. 21, 1953	30	1,346	1.39	18.83	1,349	18.89
1954	1334	34,000	Jan. 22, 1954	10	884	.910	12.35	935	13.08
1955	1384	43,900	Mar. 22, 1955	27	1,266	1.30	17.70	1,192	16.65
1956	1434	27,100	Feb. 4, 1956	20	1,269	1.31	17.79	1,463	20.50
1957	1504	34,400	Feb. 2, 1957	17	1,400	1.44	19.56	2,053	28.71
1958	1554	47,300	Nov. 19, 1957	69	2,270	2.34	31.75	1,513	21.15
1959	1624	19,500	Jan. 22, 1959	32	1,311	1.35	18.30	1,351	18.29
1960	1704	22,100	Mar. 4, 1960	1.0	1,469	1.51	20.61	-	-

4530. Blackwater Creek near Manchester, Ala.

Location--Lat 33°54'30", long 87°15'25", in SE¼ sec.15, T.13 S., R.7 W., on right bank at downstream side of bridge on county road, a quarter of a mile downstream from small unnamed tributary, 2 miles east of Manchester, and 5½ miles north of Jasper.

Drainage area--188 sq mi.

Records available--October 1938 to September 1960.

Gage--Water-stage recorder. Datum of gage is 401.04 ft above mean sea level, datum of 1929, unadjusted. Prior to Nov. 6, 1938, reference point and Nov. 7 to Dec. 12, 1938, wire-weight gage, at same site and datum.

Average discharge--22 years (1938-60), 299 cfs.

Extremes--1938-60: Maximum discharge, 8,050 cfs Jan. 9, 1946 (gage height, 11.49 ft); minimum daily, 1.3 cfs Oct. 25, 1938 (result of regulation).

Remarks--Occasional regulation at very low flow by milldam 2 miles above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	44.0	66.2	149	419	1,027	1,125	807	107	53.4	78.8	23.3	30.7	523
1952	18.3	140	939	611	535	616	182	70.5	31.3	12.8	75.6	14.5	271
1953	11.8	22.7	104	683	1,013	505	299	622	37.2	63.5	20.2	11.6	279
1954	5.20	9.66	85.5	806	213	272	368	162	42.6	11.3	16.5	20.3	168
1955	7.56	31.1	161	490	909	630	548	131	109	297	52.4	10.2	277
1956	9.89	32.2	33.4	31.1	1,162	607	774	403	66.3	26.1	17.6	10.4	260
1957	37.1	45.6	655	699	1,070	495	446	62.7	61.8	35.6	13.7	66.8	304
1958	176	1,424	543	341	524	600	573	550	68.8	334	69.5	105	440
1959	56.5	118	135	556	665	525	450	237	318	42.0	22.6	25.4	259
1960	41.6	71.9	294	640	614	1,075	336	192	60.7	31.1	51.9	41.2	287

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.27	0.39	0.91	2.57	5.69	6.90	4.79	0.66	0.32	0.48	0.14	0.18	23.30
1952	.11	.83	5.76	3.75	3.07	3.78	1.08	.43	.19	.08	.46	.09	19.63
1953	.07	.13	.64	4.19	5.61	3.10	1.77	3.81	.22	.39	.12	.07	20.12
1954	.03	.06	.51	4.94	1.18	1.67	2.19	.99	.25	.07	.10	.12	12.11
1955	.05	.18	.99	3.01	5.03	3.87	3.25	.80	.65	1.82	.32	.06	20.03
1956	.06	.19	.20	.19	6.66	3.72	4.60	2.47	.39	.16	.11	.06	18.81
1957	.23	.27	4.01	4.29	5.93	3.03	2.65	.38	.37	.22	.08	.52	21.98
1958	1.08	8.45	3.33	2.09	2.90	3.68	3.40	3.37	.41	2.05	.43	.62	31.81
1959	.35	.70	.83	3.41	3.68	3.22	2.67	1.45	1.89	.26	.14	.15	18.75
1960	.26	.43	1.80	3.92	3.52	6.59	1.99	1.17	.36	.19	.32	.24	20.79

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	421	30.40
1951	1204	7,350	Mar. 30, 1951	6.0	323	1.72	23.30	394	28.43
1952	1234	2,550	Dec. 20, 1951	4.4	271	1.44	19.63	190	13.77
1953	1274	5,050	May 4, 1953	5.0	279	1.46	20.12	276	19.86
1954	1334	2,850	Jan. 22, 1954	1.9	168	1.894	12.11	176	12.73
1955	1384	3,220	Mar. 22, 1955	4.8	277	1.47	20.03	267	19.26
1956	1434	2,720	Feb. 6, 1956	4.2	260	1.38	18.81	316	22.87
1957	1504	3,440	Feb. 3, 1957	4.6	304	1.62	21.98	420	30.33
1958	1554	6,300	Nov. 18, 1957	17	440	2.34	31.81	288	20.83
1959	1624	2,720	Jan. 21, 1959	12	259	1.38	18.75	268	19.36
1960	1704	3,350	Mar. 3, 1960	13	287	1.53	20.79	-	-

4540. Lost Creek near Oakman, Ala.

Location.--Lat 33°45'50", long 87°21'30", in SE $\frac{1}{4}$ 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 northeast of Oakman, and 6 $\frac{1}{2}$ miles southwest of Jasper.

Drainage area.--130 sq mi.

Records available.--October 1951 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 280 ft (from topographic map).

Average discharge.--9 years (1951-60), 191 cfs.

Extremes.--1951-60: Maximum discharge, 9,760 cfs (revised) Nov. 19, 1957 (gage height, 24.9 ft); no flow Oct. 25 to Nov. 7, 1953, Oct. 25, 27, 28, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	*13.1	*97.3	679	464	335	409	100	21.1	7.34	1.81	39.9	4.58	*182
1953	3.04	3.01	81.4	545	734	297	214	393	9.86	25.6	4.13	1.78	190
1954	.671	.547	48.1	633	141	202	232	63.8	25.9	24.2	21.0	22.8	118
1955	2.11	7.48	68.9	290	723	321	393	65.0	41.6	232	29.1	2.70	178
1956	3.08	23.6	20.2	15.9	650	416	448	185	37.8	8.59	4.85	2.21	165
1957	10.7	17.6	439	492	661	311	326	24.1	38.1	20.0	3.71	71.0	198
1958	109	(a)	347	243	406	406	550	310	13.4	58.8	9.60	14.0	*297
1959	10.3	370	33.7	351	502	431	324	174	303	10.5	8.02	32.5	182
1960	47.0	63.5	275	601	438	798	141	83.7	39.0	12.7	12.3	17.3	213

* Revised.

* Not previously published; estimated on basis of records for Blackwater Creek near Manchester.

a *1,121.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	*0.12	*0.84	6.02	4.12	2.78	3.63	0.86	0.19	0.06	0.02	0.35	0.04	*18.35
1953	.03	.05	.72	4.84	5.88	2.64	1.84	3.48	.08	.23	.04	.02	19.83
1954	.006	.005	.43	5.62	1.13	1.79	1.99	.57	.22	.21	.19	.20	12.36
1955	.02	.06	.61	2.57	5.79	2.85	3.37	.58	.36	2.06	.26	.02	18.55
1956	.03	.20	.18	.14	7.05	3.69	3.85	1.64	.32	.08	.04	.02	17.24
1957	.10	.15	3.89	4.37	5.29	2.76	2.80	.21	.33	.18	.03	.61	20.72
1958	.97	*9.62	3.08	2.15	3.25	3.60	4.72	2.75	.12	.52	.09	.12	*30.99
1959	.09	.32	.30	3.11	4.02	3.82	2.78	1.55	2.60	.09	.07	.28	19.03
1960	.42	.72	2.44	5.33	3.63	7.08	1.21	.74	.53	.11	.11	.15	22.27

* Revised.

* Not previously published; see footnote to preceding table.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-
1952	1234	3,550	Dec. 21, 1951	-	-	*182	*1.40	*18.93	122	12.83
1953	1274	3,850	Feb. 22, 1953	0.5	190	1.46	19.83	186	19.49	
1954	1334	3,910	Jan. 16, 1954	0	118	1.908	12.36	121	12.62	
1955	1384	4,290	Feb. 7, 1955	0	178	1.37	18.55	175	18.27	
1956	1434	3,300	Feb. 4, 1956	.2	165	1.27	17.24	200	20.97	
1957	1504	3,290	Feb. 1, 1957	.2	198	1.52	20.72	*290	*30.25	
1958	1554	*9,760	Nov. 19, 1957	.9	*297	*2.28	*30.99	173	18.12	
1959	1624	3,250	Jan. 21, 1959	2.4	182	1.40	19.03	210	21.90	
1960	1704	5,180	Mar. 3, 1960	3.8	213	1.64	22.27	-	-	

* Revised.

* Not previously published.

4542. Wolf Creek near Oakman, Ala.

Location.--Lat 33°40'20", long 87°23'15", in NW $\frac{1}{4}$ sec.9, T.16 S., R.8 W., near right bank on downstream side of pier of bridge on State Highway 69, 3 miles south of Oakman, and 9 miles upstream from Indian Creek.

Drainage area.--89.1 sq mi.

Records available.--July 1959 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 220 ft (from topographic map).

Extremes.--1959-60: Maximum discharge, 4,860 cfs Mar. 3, 1960 (gage height, 17.75 ft); minimum daily, 0.1 cfs July 28-31, Aug. 2-6, Sept. 6, 8, 1959, Aug. 1-4, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	0.67	2.53	28.9	-
1960	55.0	113	194	437	278	543	83.8	66.7	12.9	.90	6.49	13.2	151

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	0.009	0.03	0.36	-
1960	0.71	1.42	2.52	5.66	3.36	7.02	1.05	0.86	0.16	.01	.08	.17	23.02

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1959	1704	-	-	-	-	-	-	-	-
1960	1704	4,860	Mar. 3, 1960	0.1	151	1.69	23.02	-	-

4545. 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 up-stream side of pier of bridge on State Highway 75, half a mile downstream from Mud Creek, $\frac{1}{2}$ miles upstream from Slab Creek, and $2\frac{1}{4}$ miles northwest of Snead.

Drainage area.--147 sq mi.

Records available.--August 1952 to September 1957, water years 1952-60 (annual maximum).

Gage.--Crest-stage gage. Datum of gage is 702.94 ft above mean sea level, datum of 1929. Prior to Sept. 30, 1957, water-stage recorder at same site and datum.

Average discharge.--5 years (1952-57), 187 cfs.

Extremes.--1952-60: Maximum discharge, 7,750 cfs Jan. 16, 1954 (gage height, 25.1 ft), 1952-57: Minimum discharge, 2.2 cfs Sept. 22, 1955.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	32.4	23.4	252	801	710	350	176	355	87.3	42.0	8.63	35.1	235
1954	5.51	8.11	110	829	222	344	189	43.3	66.3	13.4	8.30	4.12	154
1955	3.41	6.56	96.8	294	651	328	419	126	61.1	69.4	21.3	6.39	169
1956	9.94	46.6	42.4	26.6	824	418	625	79.1	25.6	25.9	6.40	10.3	175
1957	5.36	8.88	107	364	909	340	472	118	70.2	38.6	11.1	33.7	201
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	0.38	0.27	-
1953	0.25	0.18	1.98	6.28	5.03	2.74	1.34	2.78	0.66	0.33	.07	.07	21.71
1954	.04	.06	.86	6.51	1.57	2.70	1.43	.34	.50	.10	.07	.03	14.21
1955	.03	.05	.76	2.30	4.47	2.57	3.18	.99	.46	.54	.17	.05	15.57
1956	.08	.35	.33	.21	6.05	3.27	4.74	.62	.19	.20	.05	.08	16.17
1957	.04	.07	.84	2.86	6.44	2.67	3.58	.93	.53	.30	.09	.26	18.61
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1274	-	-	-	-	-	-	-	-
1953	1274	4,720	Jan. 10, 1953	6.4	235	1.60	21.71	219	20.26
1954	1334	7,750	Jan. 16, 1954	3.4	154	1.05	14.21	153	14.09
1955	1384	4,240	Feb. 6, 1955	2.2	169	1.15	15.57	168	15.49
1956	1434	4,720	Apr. 15, 1956	3.3	175	1.19	16.17	177	16.36
1957	1504	3,640	Feb. 3, 1957	3.1	201	1.37	18.61	-	-
1958	-	1,800	Dec. 20, 1957	-	-	-	-	-	-
1959	-	3,550	Jan. 21, 1959	-	-	-	-	-	-
1960	-	4,380	Mar. 3, 1960	-	-	-	-	-	-

4550. Locust Fork near Cleveland, Ala.

Location.--Lat 34°02', long 86°34', in NE¹/₄ sec.6, T.12 S., R.1 E., on downstream side of pier near center of bridge on U.S. Highway 231, 2 miles north of Cleveland and 2½ miles downstream from Graves Creek.

Drainage area.--309 sq mi.

Records available.--December 1936 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 536.94 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). 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.--23 years (1937-60), 494 cfs.

Extremes.--1936-60: Maximum discharge observed, 47,000 cfs Dec. 28, 1942 (gage height, 19.2 ft); minimum since Oct. 1, 1943, 2.3 cfs Sept. 14, 15, 16, 1954; minimum prior to Oct. 1, 1943, not determined.

Remarks.--Records of water temperatures for the period October 1959 to September 1960 are published in report of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	45.4	55.9	356	745	1,122	2,382	1,177	136	191	389	119	66.0	563
1952	34.9	294	2,008	1,338	985	1,173	289	76.8	261	46.4	137	85.7	562
1953	118	58.3	542	1,658	1,568	822	443	757	173	115	15.1	26.9	520
1954	6.71	9.36	215	1,714	435	641	399	148	196	25.1	10.4	5.04	318
1955	5.31	8.96	142	519	1,272	715	819	358	136	144	43.8	11.9	340
1956	27.0	103	92.5	62.7	1,883	954	1,329	157	40.6	60.5	12.7	14.5	387
1957	6.26	10.2	317	762	1,776	671	922	228	136	73.3	15.9	85.4	407
1958	361	1,478	986	448	822	785	689	384	81.1	245	83.3	144	539
1959	105	67.2	126	704	986	930	490	438	336	27.1	28.0	87.6	357
1960	50.2	412	568	1,019	952	1,518	379	96.7	21.6	13.8	45.2	17.9	424

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.17	0.20	1.33	2.78	3.78	8.89	4.25	0.51	0.69	1.45	0.45	0.24	24.74
1952	.13	1.06	7.49	4.99	3.44	4.38	1.04	.29	.94	.17	.51	.31	24.75
1953	.44	.21	2.02	6.19	5.29	3.07	1.60	2.82	.63	.43	.06	.10	22.86
1954	.03	.03	.80	6.39	1.47	2.39	1.44	.55	.71	.09	.04	.02	13.96
1955	.02	.03	.53	1.94	4.29	2.67	2.96	1.26	.49	.54	.16	.04	14.93
1956	.10	.37	.35	.23	6.57	3.56	4.80	.59	.15	.23	.05	.05	17.05
1957	.02	.04	1.18	2.84	5.98	2.50	3.33	.85	.49	.27	.06	.31	17.87
1958	1.35	5.34	3.68	1.87	2.77	2.93	2.49	1.43	.29	.91	.31	.52	23.69
1959	.39	.24	.47	2.63	3.32	3.47	1.77	1.63	1.21	.10	.10	.32	15.65
1960	.19	1.49	2.12	3.80	3.32	5.66	1.37	.36	.08	.05	.17	.06	18.67

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	628	27.56
1951	1204	26,700	Mar. 29, 1951	21	563	1.82	24.74	722	31.72
1952	1234	12,200	Dec. 21, 1951	16	562	1.82	24.75	426	18.74
1953	1274	8,800	Jan. 10, 1953	7.9	520	1.68	22.86	479	21.05
1954	1334	15,000	Jan. 16, 1954	2.3	318	1.03	13.96	312	13.68
1955	1384	9,120	Feb. 6, 1955	3.7	340	1.10	14.93	345	15.17
1956	1434	8,880	Apr. 16, 1956	4.7	387	1.25	17.05	397	17.47
1957	1504	6,630	Feb. 3, 1957	4.3	407	1.32	17.87	615	27.00
1958	1554	6,630	Nov. 19, 1957	10	539	1.74	23.69	329	14.42
1959	1624	6,270	Jan. 22, 1959	12	357	1.16	15.65	418	18.35
1960	1704	9,600	Mar. 3, 1960	8.7	424	1.37	18.67	-	-

4552. Inland Reservoir near Oneonta, Ala.

Location.--Lat 33°50', long 86°33', in NW¼ sec.9, T.14 S., R.1 E., at Inland Dam on Blackburn Fork, 9 miles upstream from confluence with Calvert Prong, 9 miles southwest of Oneonta, and 27 miles northeast of Birmingham.

Drainage area.--70.1 sq mi.

Records available.--November 1939 to September 1960.

Gage.--Staff gage. Datum of gage is at mean sea level (levels by City of Birmingham Engineering Department).

Extremes.--1939-60: Maximum month-end contents, 65,500 acre-ft July 31, 1941 (elevation, 785.0 ft); minimum month-end contents, 28,000 acre-ft Jan. 31, 1956 (elevation, 750.85 ft).

Remarks.--Reservoir is formed by rock-filled earth dam with concrete spillway. Storage began in June 1938. Total capacity at elevation 784 ft (crest of spillway) is 62,800 acre-ft, of which 61,570 acre-ft is usable storage above elevation 679.5 ft (invert of diversion outlet). Figures given herein represent total contents. Reservoir is used for industrial water supply for city of Birmingham.

Cooperation.--Records furnished by City of Birmingham, Industrial Water Supply Department. Records of contents for water years 1951-60 not previously published.

Contents, in acre-feet, on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1951	57,100	53,800	54,300	60,800	62,400	62,800	62,500	58,700	55,000	53,500	48,800	45,400
1952	41,000	40,000	57,500	62,700	62,500	62,400	60,200	56,000	52,700	49,100	44,600	40,600
1953	37,400	33,000	39,000	59,700	62,600	62,200	62,600	61,100	57,400	54,600	49,900	45,300
1954	40,300	33,900	37,800	58,500	62,900	63,000	62,200	59,700	56,200	51,600	46,800	42,000
1955	37,600	35,100	39,800	49,000	62,000	62,200	61,600	58,400	54,200	50,600	46,400	41,200
1956	36,700	34,400	31,800	28,000	44,800	62,200	61,900	60,100	56,000	53,000	48,600	43,600
1957	40,100	36,700	34,000	36,800	50,600	57,200	61,600	58,900	57,200	52,700	48,200	47,100
1958	46,800	57,800	62,200	62,400	62,700	62,300	62,200	59,900	56,000	55,900	51,900	54,000
1959	51,000	47,000	46,300	54,700	62,000	62,300	62,100	62,800	59,800	55,800	52,600	50,900
1960	49,100	53,200	55,200	62,800	62,300	62,300	61,500	57,900	53,400	48,900	44,500	40,400

Monthly and yearly mean diversion, in cubic feet per second from Inland Reservoir

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	79	79	80	77	83	80	73	81	83	81	84	82	80
1952	80	68	76	77	79	78	81	79	62	56	80	84	*75
1953	84	82	79	81	82	81	83	84	87	83	86	84	83
1954	84	80	76	74	73	71	70	71	79	80	82	81	77
1955	78	74	72	72	73	74	78	83	85	84	78	86	78
1956	*81	*79	*76	*74	*78	*77	*78	*65	*63	*59	*78	*86	*75
1957	84	80	76	75	76	75	80	86	88	88	87	88	82
1958	84	80	77	76	75	71	76	78	84	78	79	82	*78
1959	80	76	73	75	78	76	82	84	87	78	55	55	*75
1960	52	61	76	78	79	78	78	79	83	82	78	80	75

* Not previously published.

4555. 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 highway bridge, three-quarters of a mile northwest of Trafford, $\frac{1}{2}$ miles east of Coaldale, and 2 $\frac{1}{2}$ miles upstream from Gurley Creek.

Drainage area.--625 sq mi.

Records available.--September 1930 to September 1960. Monthly discharge only for period April to June 1932, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 309.12 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to Jan. 27, 1934, chain gage at same site and datum.

Average discharge.--30 years (1930-60), 986 cfs (unadjusted).

Extremes.--1930-60: Maximum discharge, 60,700 cfs Jan. 6, 1949 (gage height, 59.1 ft); minimum daily, 8 cfs Oct. 20, 1931.

Flood in 1908 reached a stage of about 60 ft; from information by local residents.

Remarks.--Diversion above station subsequent to 1938 from Inland Reservoir (usable capacity, 61,570 acre-ft) on Blackburn Fork for industrial water supply for city of Birmingham.

Monthly and yearly mean discharges, in cubic feet per second *

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	81.4	100	534	1,293	2,117	5,287	2,577	284	219	545	156	114	1,105
1952	80.9	405	3,677	2,226	1,687	2,186	481	133	369	66.9	200	156	973
1953	271	116	955	3,090	2,934	1,396	754	1,642	216	195	39.7	44.2	963
1954	19.9	25.1	411	3,502	875	1,351	712	317	290	53.0	55.0	22.2	836
1955	18.4	46.2	364	1,084	2,534	1,425	1,756	497	191	179	96.1	33.2	872
1956	79.2	293	242	135	3,766	1,807	2,956	279	107	119	44.5	38.8	804
1957	21.5	35.8	677	1,395	3,459	1,470	1,903	356	199	157	37.9	245	811
1958	598	2,488	1,793	825	1,559	1,474	1,234	688	147	483	170	284	973
1959	228	159	262	1,372	1,977	1,819	929	716	700	68.3	72.2	395	716
1960	161	1,034	1,135	1,953	1,899	3,471	790	207	77.2	40.4	157	50.1	914

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean
		Discharge	Date					Runoff in inches
1950	-	-	-	-	-	-	-	1,125
1951	1204	51,100	Mar. 29, 1951	31	1,105	-	-	1,395
1952	1234	18,000	Dec. 21, 1951	26	973	-	-	737
1953	1274	16,100	Jan. 10, 1953	17	963	-	-	888
1954	1334	30,000	Jan. 16, 1954	9.8	656	-	-	634
1955	1384	18,600	Feb. 7, 1955	13	672	-	-	697
1956	1434	19,000	Apr. 16, 1956	11	804	-	-	815
1957	1504	13,600	Feb. 4, 1957	12	811	-	-	1,156
1958	1554	10,800	Nov. 19, 1957	34	973	-	-	620
1959	1624	12,300	Jan. 22, 1959	25	716	-	-	857
1960	1704	21,900	Mar. 3, 1960	23	914	-	-	-

a Maximum daily.

4560. 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 former U.S. Highway 31, at Morris, three-quarters of a mile downstream from Cunningham Creek, and 4 miles upstream from mouth.

Drainage area.--81.5 sq mi.

Records available.--January 1944 to September 1960.

Gage.--Staff and crest-stage gages. Datum of gage is 345.18 ft above mean sea level, datum of 1929.

Average discharge.--16 years (1944-60), 126 cfs.

Extremes.--1944-60: Maximum discharge, 14,300 cfs (revised) Nov. 28, 1948 (gage height, 23.1 ft, from graph based on gage readings); minimum observed, 8.6 cfs Sept. 23, 24, 26, 1956.

Flood in December 1942 reached a stage of 22.6 ft; from information by local residents.

Remarks.--Occasional slight diversions by sawmills above station.

Revisions.--The momentary maximum discharge for water year 1949, published in WSP 1304, has been revised to 14,300 cfs.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	15.7	19.5	65.6	127	272	513	298	53.7	41.9	66.8	60.9	90.6	135
1952	27.0	68.6	386	224	175	268	96.1	34.1	24.6	18.9	28.8	15.7	114
1953	23.0	16.0	84.3	374	327	188	127	200	23.9	24.9	14.0	13.0	117
1954	10.4	11.8	62.2	287	98.9	152	92.3	68.7	28.5	17.5	13.8	14.0	71.6
1955	15.8	14.5	84.4	197	334	153	278	61.9	43.1	51.1	17.8	12.7	104
1956	17.6	42.4	41.2	25.8	474	267	343	44.0	28.4	26.7	15.8	13.5	110
1957	15.2	13.9	50.7	147	323	250	296	53.6	42.2	56.7	19.0	107.1	113
1958	50.6	236	210	138	236	199	93.0	90.8	34.9	66.4	23.9	38.2	117
1959	23.8	25.1	24.9	138	226	255	129	111	64.8	23.0	21.1	105	96.3
1960	88.5	123	125	228	201	423	121	42.2	27.5	17.7	29.8	23.2	121

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.22	0.27	0.93	1.79	3.48	7.26	4.09	0.76	0.57	0.95	0.86	1.24	22.42
1952	.38	.94	5.46	3.17	2.31	3.79	1.32	.48	.34	.27	.41	.22	19.09
1953	.33	.22	1.19	5.29	4.18	2.66	1.73	2.83	.33	.35	.20	.18	19.49
1954	.15	.16	.88	4.06	1.26	2.15	1.26	.97	.39	.25	.19	.19	11.91
1955	.22	.20	1.19	2.78	4.27	2.16	3.81	.88	.59	.72	.25	.17	17.24
1956	.25	.58	.58	.36	6.27	3.78	4.69	.62	.39	.38	.22	.18	†18.30
1957	.21	.19	.72	2.08	4.12	3.54	4.06	.76	.58	.80	.27	1.47	18.80
1958	.72	3.23	2.97	1.96	3.02	2.81	1.27	1.28	.48	.94	.34	.52	19.54
1959	.34	.34	.35	1.95	2.89	3.61	1.76	1.57	1.16	.33	.30	1.44	16.04
1960	1.25	1.68	1.77	3.23	2.66	5.99	1.65	.60	.38	.25	.42	.32	20.20

† Corrected.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	93.6	15.60
1951	1204	*11,100	Mar. 29, 1951	13	135	1.66	22.42	167	27.78
1952	1234	5,790	Dec. 20, 1951	12	114	1.40	19.09	84.1	14.05
1953	1274	6,160	Jan. 9, 1953	9.4	117	1.44	19.49	114	18.94
1954	1334	6,120	Jan. 16, 1954	8.8	71.6	.879	11.91	74.2	12.33
1955	1384	5,520	Feb. 6, 1955	9.4	104	1.26	17.24	102	17.04
1956	1434	5,650	Apr. 6, 1956	9.1	110	1.35	†18.30	108	†18.01
1957	1504	4,420	Apr. 4, 1957	8.8	113	1.39	18.80	148	24.60
1958	1554	2,160	Dec. 20, 1957	14	117	†1.44	19.54	82.0	13.65
1959	1624	3,130	Mar. 11, 1959	12	96.3	1.18	16.04	118	19.71
1960	1704	5,390	Mar. 2, 1960	12	121	1.48	20.20	-	-

* Revised.

† Corrected.

4565. Locust Fork at Sayre, Ala.

Location.--Lat 33°42'35", long 86°59'00", in NW $\frac{1}{4}$ sec.29, T.15 S., R.4 W., on right bank at downstream side of bridge on county road at Sayre, $1\frac{1}{2}$ miles downstream from Camp Creek.

Drainage area.--887 sq mi.

Records available.--July 1928 to March 1932 (published as "near Warrior"). October 1941 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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 11, 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.--22 years (1928-31, 1941-60), 1,348 cfs.

Extremes.--1928-32, 1941-60: Maximum discharge, 55,300 cfs Jan. 7, 1949 (gage height, 47.9 ft); minimum, 17 cfs Sept. 28, Oct. 2, 1931.

Remarks.--Diversion above station subsequent to 1938 from Inland Reservoir (usable capacity, 61,570 acre-ft) on Blackburn Fork for industrial water supply for city of Birmingham.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	122	159	685	1,679	2,959	6,608	3,967	436	227	732	270	247	1,501
1952	98.6	558	4,621	2,530	2,010	2,941	721	199	422	94.3	229	197	1,228
1953	310	178	1,205	4,273	3,865	1,997	1,077	2,417	292	266	61.9	74.7	1,324
1954	34.2	45.8	589	4,414	1,164	1,826	1,008	541	368	105	67.4	46.0	853
1955	46.4	78.5	509	1,593	3,588	1,974	2,445	633	316	283	130	54.6	952
1956	89.1	404	341	174	5,023	2,540	3,881	378	138	222	68.3	59.3	1,088
1957	48.5	58.6	877	1,720	4,261	2,130	2,558	517	257	267	66.0	399	1,072
1958	703	2,955	2,202	1,227	2,242	2,176	1,585	1,012	200	775	255	355	1,300
1959	277	214	334	1,874	2,861	2,636	1,484	927	1,127	115	114	879	1,057
1960	440	1,782	1,631	2,689	2,553	4,472	1,053	360	121	66.3	202	94.9	1,288

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.16	0.20	0.89	2.18	3.47	8.59	5.01	0.57	0.29	0.95	0.35	0.31	22.97
1952	.13	.68	6.01	3.29	2.55	3.82	.91	.26	.53	.12	.30	.25	18.85
1953	.40	.22	1.57	5.55	4.54	2.60	1.35	3.14	.37	.35	.08	.09	20.26
1954	.04	.06	.77	5.74	1.37	2.37	1.27	.70	.46	.14	.09	.06	13.07
1955	.06	.10	.66	2.07	4.21	2.57	3.08	.62	.40	.37	.17	.07	14.58
1956	.11	.51	.44	.23	6.11	3.30	4.88	.49	.17	.29	.09	.07	16.69
1957	.06	.07	1.14	2.24	5.00	2.77	3.19	.67	.32	.35	.09	.50	16.40
1958	.91	3.72	2.86	1.59	2.63	2.83	1.99	1.32	.25	1.01	.33	.45	19.89
1959	.36	.27	.43	2.44	3.36	3.43	1.87	1.21	1.42	.15	.15	1.11	16.20
1960	.57	2.24	2.12	3.50	3.10	5.81	1.32	.47	.15	.09	.26	.12	19.75

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean
		Discharge	Date					
1950	-	-	-	-	-	-	-	1,400
1951	1204	47,200	Mar. 30, 1951	66	1,501	1.69	22.97	1,665
1952	1234	23,500	Dec. 21, 1951	40	1,228	1.38	18.85	927
1953	1274	19,900	Jan. 10, 1953	35	1,324	1.49	20.26	1,238
1954	1334	27,600	Jan. 17, 1954	21	853	.962	13.07	850
1955	1384	20,200	Feb. 7, 1955	24	952	1.07	14.58	968
1956	1434	17,400	Apr. 17, 1956	23	1,088	1.23	16.69	1,102
1957	1504	15,300	Apr. 5, 1957	24	1,072	1.21	16.40	1,478
1958	1554	11,300	Nov. 19, 1957	45	1,300	1.47	19.89	880
1959	1624	12,300	Jan. 22, 1959	68	1,057	1.19	16.20	1,310
1960	1704	20,500	Mar. 4, 1960	42	1,288	1.45	19.75	-

4570. Fivemile Creek at Ketona, Ala.

Location.--Lat 33°36'05", long 86°45'20", in NW¼ sec.33, T.16 S., R.2 W., near left bank at downstream side of footbridge at Ketona, 0.6 mile downstream from Barton Branch, 0.9 mile downstream from Tarrant Spring Branch, and 2 miles northeast of Tarrant City.

Drainage area.--22.8 sq mi.

Records available.--August 1953 to September 1958, water years 1959-60 (annual maximum).

Gage.--Crest-stage gage. Datum of gage is 546.70 ft above mean sea level, datum of 1929. Prior to Sept. 6, 1955, water-stage recorder at same site and datum. Sept. 6, 1955, to Sept. 30, 1958, water-stage recorder at site 700 ft downstream at same datum.

Average discharge.--5 years (1953-58), 27.4 cfs.

Extremes.--1953-60: Maximum discharge, 1,300 cfs Sept. 15, 1959 (gage height, 6.5 ft).

1953-58: Minimum daily discharge, 4.8 cfs Nov. 2, 1954.

A stage of about 12 ft has been reached on several occasions, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	9.75	8.99	-
1954	7.80	9.18	22.8	64.0	31.0	33.9	24.7	16.9	12.0	9.68	9.14	6.79	20.6
1955	6.41	8.71	22.4	38.1	72.1	44.4	64.8	21.5	14.6	14.8	9.36	7.06	26.7
1956	8.45	13.4	11.0	8.40	84.1	65.1	79.1	25.1	15.6	16.2	10.6	10.2	28.6
1957	8.07	9.09	17.8	33.7	49.6	55.9	81.8	26.1	35.6	24.4	13.2	26.3	31.6
1958	16.1	45.8	49.6	35.8	62.9	45.0	26.8	21.4	15.7	18.4	11.3	11.6	29.5
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	0.49	0.44	-
1954	0.39	0.45	1.15	3.23	1.43	1.71	1.21	0.85	0.59	0.49	.46	.35	12.28
1955	.32	.43	1.13	1.92	3.29	2.25	3.17	1.08	.71	.75	.47	.35	15.87
1956	.43	.65	.56	.42	3.98	3.29	3.87	1.27	.76	.82	.54	.50	17.09
1957	.41	.44	.90	1.71	2.26	2.83	4.00	1.32	1.74	1.23	.67	1.29	18.80
1958	.81	2.14	2.51	1.81	2.87	2.28	1.31	1.08	.67	.93	.57	.57	17.55
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	1334	-	-	-	-	-	-	-	-
1954	1334	964	Jan. 16, 1954	6.3	20.6	0.904	12.28	20.5	12.17
1955	1384	1,030	Feb. 6, 1955	4.8	26.7	1.17	15.87	26.3	15.63
1956	1434	1,130	Apr. 5, 1956	6.5	28.6	1.25	17.09	28.8	17.20
1957	1504	965	Apr. 4, 1957	6.5	31.6	1.39	18.80	37.8	22.51
1958	1554	965	Dec. 20, 1957	8.1	29.5	1.29	17.55	-	-
1959	-	1,500	Sept. 15, 1959	-	-	-	-	-	-
1960	-	670	Nov. 11, 1959	-	-	-	-	-	-

4605. Village Creek near Adamsville, Ala.

Location.--Lat 33°36'20", long 87°00'25", in E½ sec.36, T.16 S., R.5 W., on right bank at downstream side of bridge on county road, 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 1958, water years 1959-60 (annual maximum).

Gage.--Crest-stage gage. Altitude of gage is 340 ft (by barometer). Prior to Sept. 30, 1958, water-stage recorder at same site and datum.

Average discharge.--5 years (1953-58), 119 cfs.

Extremes.--1953-60: Maximum discharge, 6,020 cfs Feb. 6, 1955 (gage height, 13.38 ft). 1953-58: No flow for many days in most years.

A stage of about 21 ft has been reached on several occasions from information by local residents.

Remarks.--Considerable regulation by Tennessee Coal and Iron Railroad Co. reservoir (usable capacity, 1.7 billion gallons) about 8 miles upstream. Diversion for industrial use in the Birmingham area affects low flows.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1954	1.55	1.93	149	269	101	111	121	77.9	46.9	11.4	13.1	0.083	75.5
1955	1.45	9.86	73.8	161	384	157	245	63.8	22.4	111	37.2	0.087	104
1956	2.54	42.6	26.5	14.9	542	309	338	63.3	32.0	47.8	21.1	18.1	119
1957	9.91	25.5	91.4	192	262	298	347	58.5	104	61.4	43.9	234	143
1958	103	228	232	148	230	258	187	151	43.8	91.2	49.9	76.0	154

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1954	1334	4,410	Jan. 16, 1954	0	75.5	-	-	69.6	-
1955	1384	6,020	Feb. 6, 1955	0	104	-	-	102	-
1956	1434	5,390	Apr. 6, 1956	0	119	-	-	124	-
1957	1504	4,710	Apr. 4, 1957	0	143	-	-	179	-
1958	1554	3,040	Dec. 20, 1957	11	154	-	-	-	-
1959	1624	5,300	May 31, 1959	-	-	-	-	-	-
1960	1704	4,400	Mar. 3, 1960	-	-	-	-	-	-

4620. Valley Creek near Oak Grove, Ala.

Location.--Lat 33°26'50", long 87°07'20", in NW¼ 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 1958, water years 1959-60 (annual maximum).

Gage.--Crest-stage gage. Altitude of gage is 320 ft (by barometer). May 16 to July 12, 1936, chain gage at site 500 ft downstream at same datum. Aug. 1, 1953, to Sept. 30, 1958, water-stage recorder at present site and datum.

Average discharge.--5 years (1953-58), 322 cfs.

Extremes.--1936, 1953-60: Maximum discharge, 8,570 cfs Jan. 16, 1954 (gage height, 20.7 ft).

1936, 1953-58: Minimum daily discharge, 59 cfs June 22, 25, 28-30, July 6, 1936. Maximum known stage, 29.6 ft in July 1916, from information from local residents.

Flood in 1936 reached a stage of 28 ft from high-water marks.

Remarks.--Low flows consist largely of municipal sewage and industrial waste.

Yearly discharge, in cubic feet per second, of Valley Creek near Oak Grove, Ala.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	152	133	-
1954	123	125	441	692	283	343	258	205	151	150	143	121	254
1955	112	147	215	412	794	553	640	249	159	321	172	133	322
1956	142	186	185	159	897	766	776	201	137	177	138	144	323
1957	169	173	318	464	586	547	717	238	160	176	135	278	328
1958	291	539	521	358	720	634	381	378	147	244	210	200	383
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	1334	-	-	-	-	-	-	-	-
1954	1334	8,570	Jan. 16, 1954	94	254	-	-	235	-
1955	1384	8,520	Feb. 6, 1955	73	322	-	-	325	-
1956	1434	8,520	Apr. 6, 1956	92	323	-	-	335	-
1957	1504	8,170	Apr. 4, 1957	96	328	-	-	386	-
1958	1554	6,390	Feb. 6, 1958	92	383	-	-	-	-
1959	-	7,510	May 31, 1959	-	-	-	-	-	-
1960	-	5,650	Mar. 3, 1960	-	-	-	-	-	-

4626. Blue Creek near Oakman, Ala.

Location.--Lat 33°31'17", long 87°29'07", in S½ sec.33, T.17 S., R.9 W., at right down-stream wingwall of culvert on State Highway 69, 1½ miles southwest of Wiley, 2 miles upstream from McDuff Spring Branch, and 14 miles southwest of Oakman.

Drainage area.--5.7 sq mi.

Records available.--May 1959 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 420 ft (from topographic map).

Extremes.--1959-60: Maximum discharge, 887 cfs Nov. 23, 1959 (gage height, 4.50 ft); no flow for many days.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	10.1	0.207	0.033	0.184	-
1960	1.11	18.3	13.6	28.5	15.8	26.8	4.77	2.79	.408	.002	.703	.385	9.43

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	1.98	0.04	0.007	0.04	-
1960	0.22	3.58	2.74	5.76	2.99	5.42	0.93	0.56	.08	.0004	.14	.07	22.49

4628. Davis Creek below Abernant, Ala.

Location.--Lat 33°18'30", long 87°13'10", in SE $\frac{1}{4}$ sec.12, T.20 S., R.7 W., near right bank on downstream side of bridge on county road, 0.2 mile downstream from Lye Branch, 0.6 mile downstream from Texas Creek, 2 miles northwest of Abernant, and 2 $\frac{1}{2}$ miles downstream from Rockcastle Creek.

Drainage area.--45.2 sq mi.

Records available.--August 1956 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 410 ft (from topographic map).

Extremes.--1956-60: Maximum discharge, 2,630 cfs Apr. 4, 1957 (gage height, 11.1 ft); no flow Sept. 7, 1957.

Remarks.--Flow occasionally regulated by storage and release from small lake above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	2.29	1.38	-
1957	11.3	19.1	72.5	93.6	138	116	207	57.5	12.3	7.60	3.65	25.0	63.0
1958	26.9	137	104	91.6	196	160	57.6	137	9.04	64.8	12.2	33.2	85.2
1959	35.2	36.2	27.6	130	120	123	70	130	57.5	12.5	5.15	25.0	64.1
1960	33.8	50.4	74.1	157	128	204	56.7	20.7	9.18	9.51	6.55	6.43	63.1

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	0.06	0.03	-
1957	0.29	0.47	1.85	2.39	3.19	2.95	5.11	1.47	0.30	0.19	.09	.62	18.92
1958	.69	3.37	2.66	2.34	4.52	4.09	1.42	3.49	.22	1.65	.31	.82	25.58
1959	.90	.89	.70	3.33	2.76	3.14	1.73	3.32	1.42	.32	.13	.62	19.26
1960	.86	1.24	1.89	4.01	3.06	5.21	1.40	.53	.23	.24	.17	.16	19.00

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1956	1504	-	-	-	-	-	-	-	-
1957	1504	2,630	Apr. 4, 1957	0	63.0	1.39	18.92	76.7	23.03
1958	1554	1,750	May 2, 1958	2.5	85.2	1.88	25.58	71.1	21.35
1959	1624	1,450	Jan. 21, 1959	2.3	64.1	1.42	19.26	69.1	20.76
1960	1704	1,290	Mar. 2, 1960	1.6	63.1	1.40	19.00	-	-

† Corrected.

4630. 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.--24.2 sq mi (revised).

Records available.--January 1951 to May 1954.

Gage.--Water-stage recorder. Datum of gage is 246.42 ft above mean sea level (levels by Tuscaloosa City Engineering Department).

Extremes.--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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	65.2	114	88.5	32.9	22.2	15.7	13.3	20.9	-
1952	11.7	20.2	72.7	140.9	37.5	56.3	37.5	21.9	12.5	7.47	13.9	8.32	28.5
1953	7.57	12.4	29.5	80.6	76.0	51.4	52.4	56.5	17.1	24.5	8.18	7.94	35.2
1954	7.65	11.5	41.2	84.7	29.7	30.5	34.1	19.1	-	-	-	-	-

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	2.81	5.41	4.08	1.57	1.02	0.75	0.63	0.96	-
1952	0.56	0.93	3.46	1.95	1.67	2.68	1.73	1.05	.58	.36	.66	.38	16.01
1953	.36	.57	1.41	3.84	3.27	2.45	2.42	2.69	.79	1.18	.39	.37	19.72
1954	.36	.53	1.96	4.05	1.28	1.45	1.57	.91	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	2,500	Mar. 29, 1951	-	-	-	-	-	-
1952	1234	2,500	Dec. 29, 1951	4.5	28.5	1.18	16.01	25.8	13.40
1953	1274	1,700	Jan. 9, 1953	5.0	35.2	1.45	19.72	36.1	20.23
1954	1334	1,320	Jan. 15, 1954	-	-	-	-	-	-

a Maximum daily.

4632. Hurricane Creek near Cedar Cove, Ala.

Location.--Lat 33°13'15", long 87°19'00", in NW $\frac{1}{4}$ sec.18, T.21 S., R.7 W., on left bank 130 ft downstream from bridge on highway between Cedar Cove and Brookwood, half a mile downstream from North Fork Hurricane Creek, $1\frac{1}{2}$ miles upstream from Little Hurricane Creek, and 3 miles north of Cedar Cove.

Drainage area.--29.0 sq mi.

Records available.--June 1957 to October 1960.

Gage.--Water-stage recorder. Altitude of gage is 330 ft (from topographic map).

Extremes.--1957-60: Maximum discharge, 2,410 cfs May 2, 1958 (gage height, 9.7 ft); minimum, 0.4 cfs Sept. 7, 8, 1957.

Flood in 1916 reached a stage of about 19 ft, and that in March 1951 reached a stage of about 18 ft, from information by local resident.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	2.77	1.48	12.8	-
1958	12.3	69.2	54.5	48.4	114	100	48.2	106	7.41	36.6	8.12	15.5	51.4
1959	19.5	18.5	19.0	71.2	70.7	59.4	46.0	60.6	49.5	22.6	4.65	16.5	38.0
1960	28.3	29.1	44.9	113	84.0	128	44.8	16.7	7.97	5.14	8.75	5.94	43.1

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	0.11	0.06	0.49	-
1958	0.49	2.66	2.17	1.92	4.08	3.99	1.86	4.23	0.29	1.46	.32	.60	24.07
1959	.78	.71	.75	2.83	2.54	2.36	1.77	2.41	1.90	.90	.18	.64	17.77
1960	1.12	1.12	1.79	4.48	3.13	5.10	1.72	.67	.31	.20	.35	.23	20.22

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1957	1504	-	-	0.4	-	-	-	-	-
1958	1554	2,410	May 2, 1958	2.4	51.4	1.77	24.07	44.8	20.99
1959	1624	982	Jan. 21, 1959	2.0	38.0	1.51	17.77	41.8	19.56
1960	1704	1,010	Jan. 30, 1960	2.1	43.1	1.49	20.22	-	-

4635. Hurricane Creek near Holt, Ala.

Location.--Lat 33°12'45", long 87°26'55", in S $\frac{1}{2}$ 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 Cottdonade Creek, $2\frac{1}{2}$ miles southeast of Holt, and 6 miles upstream from mouth.

Drainage area.--108 sq mi.

Records available.--July 1952 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 173.70 ft above mean sea level, datum of 1929.

Average discharge.--8 years (1952-60), 132 cfs.

Extremes.--1952-60: Maximum discharge, 8,380 cfs Apr. 6, 1956 (gage height, 14.64 ft), from rating curve extended above 4,400 cfs; minimum, 1.7 cfs Sept. 5, 1954.

Flood in March 1951 reached a stage of 19.6 ft, from information by local resident.

Remarks.--Flow regulated at times by small lake above station. Records of water temperatures for the period October 1958 to September 1959 are published in report of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	50.5	8.73	-
1953	9.00	20.2	61.0	345	429	228	265	251	32.8	62.6	13.9	10.9	142
1954	10.2	12.4	222	375	132	192	333	66.9	12.4	21.5	4.91	2.85	99.0
1955	3.76	13.6	45.2	142	429	221	441	98.2	37.4	44.3	17.5	6.78	122
1956	9.23	42.0	48.1	46.9	485	346	533	65.7	57.3	57.9	11.1	7.76	140
1957	22.0	41.0	126	172	246	233	391	169	40.7	21.0	10.8	51.9	126
1958	65.2	242	188	164	349	332	156	375	59.2	88.9	30.0	48.7	172
1959	56.0	63.5	56.5	215	245	202	133	192	147	57.3	18.3	49.0	119
1960	74.4	87.5	125	338	315	426	147	59.3	28.4	17.8	31.8	27.2	140

MOBILE RIVER BASIN

Monthly and yearly runoff, in inches, of Hurricane Creek near Holt, Ala.

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	0.54	0.09	-
1953	0.10	0.21	0.65	3.68	4.13	2.43	2.73	2.68	0.34	0.67	.15	.11	17.78
1954	.11	.13	2.36	4.00	1.27	2.05	1.37	.71	.13	.23	.05	.03	12.44
1955	.04	.14	.48	1.52	4.14	2.36	4.55	1.05	.39	.47	.19	.07	15.40
1956	.10	.43	.51	.50	4.84	3.69	5.51	.70	.59	.62	.12	.08	17.69
1957	.24	.42	1.34	1.83	2.38	2.49	4.04	1.80	.42	.22	.12	.54	15.84
1958	.70	2.50	2.00	1.75	3.37	3.54	1.61	4.00	.40	.95	.32	.50	21.64
1959	.60	.66	.60	2.29	2.36	2.16	1.38	2.05	1.52	.61	.19	.51	14.93
1960	.79	.90	1.34	3.60	3.14	4.55	1.52	.63	.29	.19	.34	.28	17.57

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	1274	-	-	-	-	-	-	-	-
1953	1274	*4,030	Jan. 9, 1953	-	3.0	142	1.31	17.78	155
1954	1334	*5,180	Jan. 16, 1954	-	1.6	99.0	.917	12.44	83.6
1955	1364	7,660	Feb. 6, 1955	-	2.9	122	1.13	15.40	126
1956	1434	8,380	Apr. 6, 1956	-	4.4	140	1.30	17.69	148
1957	1504	5,500	Apr. 4, 1957	-	2.9	126	1.17	15.84	151
1958	1554	6,940	May 2, 1958	-	11	172	1.59	21.64	146
1959	1624	2,770	Jan. 21, 1959	-	12	119	1.10	14.93	128
1960	1704	3,330	Jan. 30, 1960	-	7.7	140	1.30	17.57	-

* Revised.

4640. North River near Samantha, Ala.

Location.--Lat 33°28'45", long 87°35'50", in SW $\frac{1}{4}$ sec.16, T.18 S., R.10 W., on left bank 100 ft downstream from highway bridge, half a mile east of Crump's store, 1 $\frac{1}{4}$ miles upstream from Cripple Creek, and 4 miles north of Samantha.

Drainage area.--219 sq mi.

Records available.--December 1938 to September 1954. Water years 1955-60 (annual maximum).

Gage.--Crest-stage gage. Datum of gage is 232.39 ft above mean sea level, datum of 1929. Prior to Jan. 25, 1939, staff gage 40 ft downstream at same datum. Jan. 25, 1939, to Sept. 30, 1954, water-stage recorder at present site and datum.

Average discharge.--15 years (1939-54), 340 cfs.

Extremes.--1938-60: Maximum discharge, 18,000 cfs Mar. 29, 1951 (gage height, 30.7 ft).

1938-54: Minimum daily discharge, 0.1 cfs 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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	43.0	73.0	212	546	1,060	1,928	896	138	62.2	56.9	17.7	55.9	421
1952	55.5	209	1,108	639	382	700	227	53.1	27.0	10.5	42.2	35.1	292
1953	6.17	20.0	163	978	1,234	667	524	787	52.9	115	16.2	11.5	375
1954	5.13	8.72	138	1,018	250	356	665	239	14.5	4.23	6.75	.34	226

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.23	0.37	1.12	2.88	5.04	10.15	4.56	0.73	0.32	0.30	0.09	0.28	26.07
1952	.29	1.07	5.83	3.36	1.88	3.68	1.16	.28	.14	.06	.22	.18	18.15
1953	.03	.10	.86	5.15	5.87	3.51	2.67	4.04	.27	.61	.09	.06	23.26
1954	.03	.04	.72	5.36	1.19	1.87	3.39	1.26	.07	.02	.04	.002	13.99

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	18,000	Mar. 29, 1951	-	3.8	421	1.92	26.07	419
1952	1234	7,650	Dec. 21, 1951	-	3.7	292	1.33	18.15	509
1953	1274	6,380	(a)	-	2.9	375	1.71	23.26	192
1954	1334	8,160	Jan. 16, 1954	-	1	226	1.03	13.99	372
1955	-	9,140	Feb. 6, 1955	-	-	-	-	-	-
1956	-	5,380	Apr. 6, 1956	-	-	-	-	-	-
1957	-	6,590	Dec. 23, 1956	-	-	-	-	-	-
1958	-	7,020	Nov. 19, 1957	-	-	-	-	-	-
1959	-	6,710	Jan. 22, 1959	-	-	-	-	-	-
1960	-	9,530	Mar. 3, 1960	-	-	-	-	-	-

(a) Feb. 21, Apr. 30, 1953.

4645. 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 downstream 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.--366 sq mi.

Records available.--October 1951 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 155.24 ft above mean sea level, datum of 1929 (levels by Parker Engineering Co.).

Average discharge.--9 years (1951-60), 498 cfs.

Extremes.--1951-60: Maximum discharge, 11,500 cfs Mar. 3, 1960 (gage height, 17.12 ft); maximum gage height, 18.43 ft Feb. 7, 1955; minimum discharge, 8.4 cfs July 29, 1952. Flood in July 1916, reached a stage of 30.9 ft, flood in March 1951 reached a stage of 29.6 ft, from information by local residents.

Remarks.--Records of water temperatures for the period October 1958 to September 1960 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	*130	*310	1,627	919	643	1,166	416	141	68.9	27.5	128	95.4	*475
1953	36.5	72.0	312	1,438	1,736	988	794	1,116	95.7	230	49.9	43.2	570
1954	35.5	55.2	290	1,360	588	536	835	309	43.1	22.0	18.7	21.3	326
1955	16.8	49.5	177	512	1,683	715	1,208	175	97	341	64.5	16.2	412
1956	24.7	127	177	97.6	1,953	1,328	1,371	245	183	127	36.7	30.8	462
1957	89.6	115	1,070	980	1,319	831	894	169	258	116	28.0	170	498
1958	208	1,651	822	629	1,054	950	815	854	102	244	61.8	124	622
1959	194	211	205	897	1,097	1,078	803	542	602	62.7	40.0	141	485
1960	216	581	638	1,538	1,167	1,874	495	458	113	47.6	231	175	628

* Not previously published; estimated or partly estimated on basis of weather records and records for station near Samantha.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	*0.41	*0.94	5.12	2.89	1.89	3.67	1.27	0.45	0.21	0.09	0.40	0.29	*17.63
1953	.12	.22	.98	4.53	4.94	3.11	2.42	3.52	.29	.72	.16	.13	21.14
1954	.11	.17	.91	4.28	1.10	1.69	2.54	.97	.13	.07	.06	.04	12.07
1955	.05	.15	.56	1.61	4.79	2.25	3.68	.55	.30	1.07	.20	.05	15.26
1956	.08	.39	.37	.31	5.75	4.18	4.18	.77	.56	.40	.12	.09	17.20
1957	.28	.35	3.37	3.09	3.75	2.62	2.73	.53	.79	.37	.09	.52	18.49
1958	.65	5.03	2.59	1.98	3.00	2.99	2.48	2.69	.31	.77	.19	.38	23.06
1959	.61	.64	.65	2.82	3.12	3.39	2.45	1.71	1.83	.20	.13	.43	17.98
1960	.68	1.77	2.01	4.84	3.44	5.90	1.51	1.44	.34	.15	.75	.53	23.34

* Not previously published; see footnote to preceding table.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Runoff in inches
		Discharge	Date					
1950	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-
1952	1234	9,850	Dec. 21, 1951	*10	*475	*1.30	*17.63	336
1953	1274	8,850	Apr. 30, 1953	21	570	1.56	21.14	567
1954	1334	9,750	Jan. 16, 1954	9.0	326	.891	12.07	314
1955	1384	11,300	Feb. 7, 1955	12	412	1.15	15.26	414
1956	1434	8,700	Apr. 6, 1956	14	462	1.26	17.20	548
1957	1504	9,000	Dec. 23, 1956	15	498	1.36	18.49	613
1958	1554	8,120	Nov. 19, 1957	17	622	1.70	23.06	450
1959	1624	8,360	Jan. 22, 1959	24	485	1.33	17.98	554
1960	1704	11,500	Mar. 3, 1960	32	628	1.72	23.34	-

* Not previously published.

4650. Black Warrior River at Tuscaloosa, Ala.

Location.--Lat 33°12'50", long 87°34'25", in SW $\frac{1}{4}$ 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.--4,828 sq mi.

Records available.--January 1889 to September 1894 (gage heights only), October 1894 to December 1902, January 1903 to December 1905 (gage heights and discharge measurements only), August 1928 to September 1960. Monthly discharge only for period October to December 1894, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 83.35 ft above mean sea level, datum of 1929, supplementary adjustment of 1944. Prior to December 1905, staff gage a third of a mile downstream and 300 ft downstream from present Gulf, Mobile and Ohio Railroad bridge at datum 2.5 ft higher. Aug. 1, 1928, to Aug. 28, 1939, staff gage just above former lock 10, half a mile upstream at present datum. Aug. 29, 1939, to Mar. 19, 1951, water-stage recorder at site a quarter of a mile downstream and 55 ft downstream from Gulf, Mobile and Ohio Railroad bridge, at present datum. Subsequent to Apr. 19, 1944, auxiliary water-stage recorder and Aug. 29, 1939, to Apr. 18, 1944, auxiliary staff gage, 500 ft downstream from Tuscaloosa lock and dam at datum 1.08 ft lower.

Average discharge.--40 years (1894-1902, 1928-60), 7,650 cfs.

Extremes.--1889-1905, 1928-60: Maximum discharge, 223,000 cfs Mar. 29, 1951; maximum gage height, 67.7 ft Apr. 18, 1900; minimum daily discharge, 37 cfs Oct. 23, 1953. Maximum stage known, that of Apr. 18, 1900.

Remarks.--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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	961	1,361	4,022	10,250	21,720	33,240	21,860	2,420	1,006	2,018	597	1,091	8,292
1952	566	3,370	28,360	12,900	10,630	16,710	4,586	1,459	1,189	288	1,852	527	6,643
1953	785	562	4,226	20,300	23,600	11,980	7,521	13,590	967	1,748	361	192	7,071
1954	189	234	4,421	22,700	5,521	8,343	7,157	3,117	1,254	418	398	139	4,512
1955	206	562	3,183	8,761	23,710	12,910	14,330	3,309	1,858	3,846	1,173	387	6,063
1956	318	1,690	1,983	1,154	29,240	16,090	20,510	4,137	1,398	1,462	728	587	6,491
1957	747	904	9,646	12,280	22,750	11,560	13,060	2,630	1,813	1,620	706	2,668	6,590
1958	3,395	22,230	12,410	7,777	13,620	13,540	12,380	9,584	1,408	4,818	1,695	2,217	8,707
1959	1,661	2,287	2,480	11,650	14,670	13,420	9,715	7,779	7,819	1,079	675	2,672	8,265
1960	2,294	6,315	8,235	16,960	14,310	25,910	6,621	3,453	1,176	782	1,418	1,277	7,397

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.23	0.31	0.96	2.45	4.69	7.94	5.05	0.58	0.23	0.48	0.14	0.25	23.31
1952	.14	.78	6.05	3.08	2.37	3.99	1.06	.35	.27	.07	.44	.12	18.72
1953	.19	.13	1.01	4.85	5.09	2.86	1.74	3.24	.22	.42	.09	.04	19.88
1954	.05	.05	1.06	5.42	1.21	1.99	1.65	.74	.29	.10	.09	.03	12.68
1955	.05	.13	.76	2.09	5.11	3.08	3.31	.79	.43	.92	.28	.09	17.04
1956	.08	.39	.47	.28	6.53	3.84	4.74	.99	.32	.35	.17	.14	18.30
1957	.18	.21	2.30	2.93	4.81	2.76	3.02	.65	.42	.39	.17	.62	18.54
1958	.81	5.14	2.96	1.86	2.94	3.23	2.86	2.29	.33	1.15	.40	.51	24.48
1959	.40	.53	.59	2.78	3.16	3.21	2.24	1.86	1.81	.26	.16	.62	17.62
1960	.55	1.46	1.97	4.05	3.20	6.19	1.53	.82	.27	.19	.34	.30	20.87

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary		Maximum	Minimum	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	-	-	-
1951	1204	223,000	Mar. 29, 1951	67	8,292	1.72	23.31	8,454	23.76		
1952	1234	120,000	Dec. 21, 1951	40	6,643	1.38	18.72	10,240	26.78		
1953	1274	97,700	Jan. 9, 1953	46	7,071	1.46	19.88	4,841	13.08		
1954	1334	127,000	Jan. 16, 1954	37	4,512	.954	12.68	4,810	13.52		
1955	1384	113,000	Feb. 7, 1955	93	6,063	1.26	17.04	6,063	17.04		
1956	1434	98,000	Apr. 6, 1956	252	6,491	1.34	18.30	7,111	20.05		
1957	1504	85,000	Apr. 5, 1957	165	6,590	1.36	18.54	8,802	24.76		
1958	1554	94,300	Nov. 20, 1957	376	8,707	1.80	24.48	6,077	17.09		
1959	1624	69,800	Jan. 22, 1959	331	6,265	1.30	17.62	7,139	20.08		
1960	1704	96,000	Mar. 3, 1960	390	7,397	1.53	20.87	-	-		

4652. Lake Creek near Northport, Ala.

Location.--Lat 33°17'10", long 87°41'00", in NE $\frac{1}{4}$ sec.28, T.20 S., R.11 W., on right bank 300 ft upstream from dam and 9 miles northwest of Northport.

Drainage area.--3.25 sq mi.

Records available.--August 1956 to September 1960.

Gage.--Water-stage recorder above earthwork dam with concrete spillway.

Extremes.--1956-60: Maximum discharge, 67 cfs Mar. 2, 1960 (gage height, 1.74 ft); minimum, 0.3 cfs Sept. 7, 1957 (gage height, 0.94 ft).

Remarks.--Flow regulated somewhat by storage in lake.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	1.95	0.80	-
1957	5.41	3.83	8.04	7.59	9.03	7.42	8.32	3.33	4.33	3.77	1.66	4.87	5.61
1958	5.61	11.2	8.57	6.86	10.6	9.72	9.03	10.1	4.31	5.43	2.43	2.75	7.11
1959	4.57	5.33	3.75	8.15	9.40	8.23	6.65	6.90	8.08	2.77	2.18	5.57	5.93
1960	7.67	7.17	6.82	12.1	15.0	16.3	7.97	4.96	4.03	4.20	5.75	4.81	8.05

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	0.68	0.27	-
1957	1.92	1.32	2.85	2.69	2.89	2.63	2.86	1.18	1.49	1.34	.59	1.67	23.43
1958	1.99	3.84	3.04	2.44	3.41	3.45	2.76	3.59	1.48	1.93	.86	.94	29.73
1959	1.62	1.83	1.33	2.89	3.01	2.92	2.28	2.45	2.77	.98	.77	1.91	24.76
1960	2.72	2.46	2.42	4.30	4.96	5.79	2.73	1.76	1.38	1.49	2.04	1.65	33.70

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1956	1504	-	-	-	-	-	-	-	-	-	-
1957	1504	44	Dec. 22, 1956	0.3	5.61	1.73	23.43	6.28	26.21	-	-
1958	1354	45	May 2, 1958	7.11	152	2.19	29.73	6.14	25.64	-	-
1959	1624	45	May 30, 1959	1.4	5.93	1.82	24.76	6.81	27.58	-	-
1960	1704	67	Mar. 2, 1960	1.4	8.05	2.48	33.70	-	-	-	-

4654. Big Sandy Creek at Duncanville, Ala.

Location.--Lat 33°03'30", long 87°26'20", in NE $\frac{1}{4}$ sec.14, T.24 N., R.6 E., near right bank on downstream side of bridge on U.S. Highway 82, three-eighths of a mile upstream from Bear Creek, half a mile southeast of Duncanville, and 2 $\frac{1}{2}$ miles downstream from Lye Branch.

Drainage area.--56.0 sq mi.

Records available.--August 1956 to October 1960.

Gage.--Water-stage recorder. Datum of gage is 168.31 ft above mean sea level, datum of 1929.

Extremes.--1956-60: Maximum discharge, 956 cfs May 2, 1958 (gage height, 11.7 ft), minimum, 21 cfs Oct. 1, 1956 (gage height, 1.63 ft).
Flood in March 1951, reached a stage of 15.8 ft, from information by local resident.
A discharge of 20 cfs was measured on Sept. 24, 1955.

Remarks.--Records of water temperatures for period July 1958 to September 1960 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	25.0	23.0	-
1957	35.0	34.8	49.8	78.6	95.8	101	155	89.1	36.6	29.5	24.6	38.7	63.6
1958	62.7	135	113	186	145	200	101	152	51.0	90.2	35.3	43.1	101
1959	50.6	48.3	47.6	97.7	140	116	84.5	117	94.9	44.4	31.9	41.5	75.8
1960	49.8	68.8	70.6	149	132	177	87.0	55.0	44.6	35.1	34.8	35.3	78.1

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	-	-	0.51	0.46	-
1957	0.68	0.69	1.03	1.62	1.78	2.08	3.08	1.83	0.73	0.61	.51	.77	15.41
1958	1.23	2.70	2.33	1.86	2.69	4.11	2.38	3.12	1.02	1.86	.73	.86	24.59
1959	1.04	.96	.98	2.01	2.59	2.39	1.68	2.41	1.89	.91	.66	.83	18.35
1960	1.03	1.37	1.45	3.08	2.53	3.64	1.73	1.13	.89	.72	.72	.70	18.99

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1956	1504	-	-	-	-	-	-	-	-	-	-
1957	1504	850	Apr. 5, 1957	22	63.6	1.14	15.41	79.7	19.33	-	-
1958	1554	956	May 2, 1958	28	101	1.80	24.59	87.6	21.25	-	-
1959	1624	762	May 31, 1959	28	75.8	1.35	18.35	79.3	19.22	-	-
1960	1704	870	Jan. 30, 1960	27	78.1	1.39	18.99	-	-	-	-

a^a Maximum daily discharge.

4655. Fivemile Creek near Greensboro, Ala.

Location.--Lat 32°50', long 87°36', in N½ sec.5, T.21 N., R.5 E., near center of channel on downstream side of bridge on State Highway 69, 8½ miles north of Greensboro and 12 miles upstream from mouth.

Drainage area.--72.2 sq mi.

Records available.--July 1954 to September 1960.

Gage.--Water-stage recorder and sheet piling control. Prior to October 1958, concrete control. Altitude of gage is 160 ft (by barometer).

Average discharge.--6 years (1954-60), 65.2 cfs.

Extremes.--1954-60: Maximum discharge, 3,540 cfs Mar. 16, 1956 (gage height, 8.37 ft); minimum, 0.1 cfs Sept. 16, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	5.25	3.37	1.98	-
1955	3.72	7.10	34.8	77.7	156	75.1	349	37.7	16.5	39.0	10.7	3.22	66.5
1956	4.67	17.6	31.2	25.8	235	323	341	31.0	14.4	7.82	3.39	2.59	85.6
1957	14.8	15.6	35.9	65.7	103	114	209	87.6	10.9	8.36	3.54	12.7	56.3
1958	26.0	75.9	93.5	72.1	161	206	77.6	77.9	16.3	113	9.84	11.6	78.0
1959	20.9	20.6	29.5	63.2	147	98.6	62.8	36.0	38.1	8.65	6.48	12.3	44.7
1960	37.5	38.9	46.5	150	137	158	63	24.8	26.5	5.31	20.6	16.8	60.3

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	0.08	0.05	0.03	-
1955	0.06	0.11	0.56	1.24	2.24	1.20	5.40	0.60	0.26	.62	.17	.05	12.51
1956	.07	.27	.50	.41	3.51	5.16	5.27	.49	.22	.12	.05	.04	16.11
1957	.24	.24	.57	1.05	1.49	1.82	3.23	1.40	.17	.13	.06	.20	10.60
1958	.42	1.17	1.49	1.15	2.32	3.28	1.20	1.24	.25	1.80	.16	.18	14.66
1959	.33	.32	.47	1.01	2.12	1.57	.97	.57	.59	.14	.10	.19	8.38
1960	.60	.60	.74	2.40	2.05	2.53	.97	.40	.41	.08	.33	.26	11.37

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1384	-	-	0.2	-	-	-	-	-
1955	1364, 1704	2,470	Apr. 14, 1955	1.4	66.5	0.921	12.51	67.1	12.62
1956	1434	3,540	Mar. 16, 1956	.5	85.6	1.19	16.11	†86.6	16.32
1957	1504	2,070	Apr. 5, 1957	1.6	56.3	.780	10.60	67.1	12.63
1958	1554	955	Feb. 7, 1958	3.4	78.0	1.08	14.66	67.6	12.70
1959	1624	628	Feb. 10, 1959	5.0	44.7	.619	8.38	49.0	9.20
1960	1704	974	Jan. 30, 1960	2.0	60.3	.835	11.37	-	-

† Corrected.

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 14 (formerly State Highway 41) between Eutaw and Wedgeworth, $1\frac{1}{4}$ miles downstream from Big Creek and 4 miles southeast of Eutaw.

Records available.--May 1932 to September 1957 (discharge above 2,000 cfs only October 1955 to Sept. 4, 1957).

Gage,--Water-stage recorder. Datum of gage is 53.11 ft above mean sea level, adjustment of 1912. Prior to Jan. 10, 1955, auxiliary staff gages at lock 7, 3 miles downstream from base gage. Jan. 11, 1955, to Sept. 30, 1956, auxiliary staff gage at lock 8, 12 miles upstream from base gage. Oct. 1, 1956, to Sept. 3, 1957, auxiliary water-stage recorder at Demopolis lock and dam near Demopolis. Subsequent to Sept. 4, 1957, auxiliary water-stage recorder at Warrior lock and dam, 4 miles downstream from base gage.

Extremes.--1932-57: Maximum discharge, 183,000 cfs Apr. 1, 1951; maximum gage height, 59.1 ft Apr. 1, 1951; minimum discharge not determined; minimum daily not determined.

Remarks.--Discharge below 2,000 cfs for period October 1955 to Sept. 3, 1957, not computed because of extreme backwater and extensive regulation from Demopolis lock and dam on Tombigbee River near Demopolis. Occasional regulation by reservoir at lock 17 (usable capacity, 112,000 acre-ft).

[illegible][illegible][illegible]

4665. Prairie Creek near Gallion, Ala.

Location.--Lat 32°32', long 87°41', in SE $\frac{1}{4}$ sec.9, T.18 N., R.4 E., near right bank on downstream side of bridge on State Highway 69 (formerly State Highway 13), 4 miles upstream from Little Prairie Creek, and 4 miles northwest of Gallion.

Drainage area.--169 sq mi.

Records available.--January 1940 to September 1952.

Gage.--Water-stage recorder. Auxiliary staff gage at lock 5 on Black Warrior River, three-quarters of a mile upstream from Prairie Creek.

Average discharge.--12 years (1940-52), 238 cfs.

Extremes.--1940-52: Maximum discharge, 39,000 cfs Dec. 28, 1942 (gage height, 19.30 ft in gage well, 20.1 ft from outside gage); minimum, Oct. 1, 1944, to Sept. 30, 1952, a reverse flow of 10 cfs occurred Apr. 2, 1951 (backwater from Black Warrior River); minimum daily since Oct. 1, 1944, unaffected by backwater, 0.4 cfs Sept. 13, 30, 1952; minimum prior to Oct. 1, 1944, not determined.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	14.1	18.6	295	349	536	1,284	272	45.5	24.7	7.23	4.71	9.25	2.38
1952	4.79	9.85	95.2	219	108	630	205	301	17.2	4.72	8.87	1.72	1.55

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.10	0.12	2.02	2.38	3.30	8.76	1.79	0.31	0.16	0.05	0.03	0.06	19.08
1952	.03	.07	.65	1.49	.69	4.30	1.35	2.05	.11	.03	.06	.01	10.84

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	161	12.97
1951	1204	32,400	Mar. 29, 1951	-10	238	1.41	19.08	219	17.59
1952	1234	10,500	Mar. 4, 1952	.4	135	.799	10.84	-	-

Note.--Negative figure indicates reverse flow.

4670. Tombigbee River at Demopolis lock and dam near Coatopa, Ala.

Location.--Lat 32°31'15", long 87°52'45", in NW¼ sec.22,T.18 N., R.2 E., on left bank 100 ft upstream from lock and dam, half a mile downstream from Foscoe Creek, 2½ miles west of Demopolis, 3½ miles upstream from Hall Creek, and 13 miles east of Coatopa.

Drainage area.--15,400 sq mi, approximately.

Records available.--August 1928 to September 1960. Published as "near Coatopa" 1928-55.

Gage.--Water-stage recorder. Datum of gage is 56.00 ft above mean sea level (levels by Corps of Engineers). Prior to Dec. 18, 1934, chain gage, Dec. 18, 1934, to Oct. 31, 1939, wire-weight gage, and Nov. 1, 1939, to Sept. 30, 1955, water-stage recorder, at Moscow Memorial Bridge on U.S. Highway 80, 11 miles downstream at datum 29.30 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Average discharge.--32 years (1928-60), 21,640 cfs.

Extremes.--1928-60: Maximum discharge, 217,000 cfs Apr. 6, 1951 (gage height, 52.4 ft, site and datum then in use); minimum daily, 50 cfs Aug. 1-6, 1954 (results of closure of and storage above Demopolis lock and dam during construction).

Remarks.--Some regulation at low flow by lock at gage. Diversion through lock valves included in figures of discharge.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	5,512	7,855	18,330	37,800	71,230	51,050	109,900	12,480	6,977	5,838	2,996	3,177	27,360
1952	2,467	6,476	39,610	36,670	31,850	43,280	20,890	7,224	3,876	1,662	3,119	1,784	16,580
1953	1,649	2,116	6,893	37,120	46,840	59,400	21,700	55,070	4,547	8,952	2,276	1,578	20,610
1954	1,477	1,873	11,850	37,400	18,950	19,220	25,360	13,280	3,222	1,414	763	800	11,280
1955	1,025	1,808	3,228	20,670	43,940	37,080	63,550	11,470	7,647	9,895	4,676	1,468	16,950
1956	804	3,154	4,726	3,296	67,070	49,000	60,570	15,990	4,040	3,563	1,644	1,588	17,690
1957	2,604	3,022	24,290	25,660	63,560	35,580	38,550	9,222	8,923	9,719	2,136	4,812	16,700
1958	11,160	49,790	46,030	25,450	37,180	44,530	33,100	50,530	6,118	20,100	5,634	9,053	28,190
1959	7,050	7,241	9,145	29,900	46,070	32,620	34,960	15,460	22,420	4,426	2,687	4,761	17,840
1960	7,232	10,550	20,330	41,710	54,290	68,700	26,630	12,930	4,283	2,267	3,584	5,172	21,240

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.41	0.57	1.36	2.81	4.79	3.80	7.91	0.93	0.50	0.43	0.22	0.23	23.96
1952	.16	.47	2.95	2.73	2.22	3.22	1.50	.54	.28	.12	.23	.15	14.57
1953	.12	.15	.51	2.76	3.15	4.42	1.56	4.10	.35	.67	.17	.11	18.05
1954	.11	.13	.88	2.78	1.27	1.43	1.83	.99	.23	.11	.06	.06	9.88
1955	.08	.13	.24	1.54	2.95	2.76	4.56	.85	.55	.74	.35	.11	14.86
1956	.06	.23	.35	.25	4.70	3.67	4.39	1.20	.29	.27	.12	.10	15.63
1957	.19	.22	1.82	1.92	4.30	2.66	2.79	.69	.65	.73	.16	.35	16.48
1958	.84	3.61	3.45	1.90	2.51	3.33	2.40	3.78	.44	1.50	.42	.66	24.84
1959	.53	.52	.68	2.24	3.12	2.44	2.53	1.16	1.62	.33	.20	.34	15.71
1960	.54	.76	1.52	3.12	3.80	5.14	1.93	.97	.31	.17	.27	.23	18.76

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	27,000	23.65
1951	1204	217,000	Apr. 6, 1951	1,400	27,360	1.77	23.96	28,790	25.22
1952	1234	77,800	Dec. 31, 1951	1,000	16,580	1.07	14.57	13,390	11.75
1953	1274	101,000	Mar. 2, 1953	928	20,610	1.33	18.05	20,990	18.39
1954	1334	76,200	Jan. 27, 1954	50	11,280	.728	9.88	12,500	9.21
1955	1384	86,100	Apr. 18, 1955	377	16,950	1.09	14.86	17,170	15.05
1956	1434	104,000	Apr. 12, 1956	532	17,680	1.15	15.63	19,470	17.22
1957	1504	102,000	Feb. 9-11, 1957	869	18,700	1.21	16.48	25,110	22.15
1958	1554	104,000	Nov. 26, 1957	1,480	28,190	1.83	24.84	21,210	18.67
1959	1624	76,300	Feb. 17, 18, 1959	1,600	17,840	1.16	15.71	19,070	16.80
1960	1740	104,000	Mar. 9, 1960	1,170	21,240	1.38	18.76	-	-

4675. Sucarnoochee River at Livingston, Ala.

Location.--Lat 32°34', long 88°12', in SW $\frac{1}{4}$ (revised) 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 11, 500 ft upstream from Southern Railway bridge, three-quarters of a mile southwest of Livingston, and 9 miles upstream from Alamuchee Creek.

Drainage area.--606 sq mi.

Records available.--October 1938 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 90.04 ft above mean sea level, datum of 1929, supplementary adjustment of 1944. Prior to Nov. 27, 1938, reference point and Nov. 27, 1938, to Jan. 12, 1939, wire-weight gage, at same site and datum.

Average discharge.--22 years (1938-60), 745 cfs.

Extremes.--1938-60: Maximum discharge, 21,500 cfs Mar. 30, 1951 (gage height, 27.6 ft); minimum, 49 cfs Sept. 11, 1957.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	237	331	681	1,034	2,127	2,969	1,725	335	459	196	168	174	861
1952	128	177	761	557	522	1,024	666	278	149	117	112	100	383
1953	81.9	128	220	767	1,792	1,680	789	1,991	177	332	132	114	679
1954	88.4	120	602	804	451	858	1,256	435	125	109	681	55.1	414
1955	62.7	86.8	143	343	1,222	765	1,473	254	154	299	274	86.2	424
1956	76.0	136	192	175	2,354	2,964	2,600	309	205	194	101	76.1	774
1957	99.5	111	360	420	643	732	1,333	264	147	114	77.4	457	393
1958	475	1,853	720	789	893	2,067	979	1,946	379	1,081	293	252	979
1959	230	233	318	731	1,365	889	663	488	499	399	151	124	502
1960	229	341	421	1,046	1,820	1,742	936	561	175	103	300	156	632

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.45	0.61	1.29	1.97	3.66	5.65	3.18	0.64	0.85	0.37	0.32	0.32	19.31
1952	.24	.33	1.45	1.06	.93	1.95	1.23	.53	.27	.22	.21	.19	8.61
1953	.16	.24	.42	1.46	3.08	3.20	1.45	3.79	.33	.63	.25	.21	15.22
1954	.17	.22	1.15	1.53	.78	1.63	2.31	.83	.23	.21	.13	.10	9.29
1955	.12	.16	.27	.65	2.10	1.46	2.71	.48	.28	.57	.52	.16	9.48
1956	.14	.25	.36	.33	4.19	5.64	4.79	.59	.37	.37	.19	.14	17.36
1957	.19	.20	.68	.80	1.11	1.39	2.46	.50	.27	.22	.15	.84	8.81
1958	.90	3.41	1.37	1.50	1.54	3.93	1.80	3.70	.70	2.06	.56	.46	21.93
1959	.44	.43	.61	1.39	2.35	1.69	1.22	.93	.92	.76	.29	.23	11.26
1960	.43	.63	.80	1.99	3.24	3.31	1.72	.69	.32	.20	.57	.29	14.19

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	886	19.83
1951	1204	21,500	Mar. 30, 1951	103	861	1.42	19.31	846	18.98
1952	1234	2,680	Dec. 21, 1951	80	383	.632	8.61	329	7.41
1953	1274	7,090	May 3, 1953	72	679	1.12	15.22	711	15.94
1954	1334	3,600	Mar. 30, 1954	52	414	.683	9.29	370	8.30
1955	1384	4,240	Apr. 14, 1955	53	424	.700	9.48	433	9.68
1956	1434	14,700	Mar. 18, Apr. 8	54	774	1.28	17.36	788	17.68
1957	1504	4,040	Apr. 8, 1957	50	393	.649	8.81	599	13.42
1958	1554	6,630	May 3, 1958	109	979	1.62	21.93	791	17.73
1959	1624	2,920	Feb. 14, 1959	96	502	.828	11.26	519	11.64
1960	1704	4,170	Mar. 4, 1960	80	632	1.04	14.19	-	-

4680. Alamuchee Creek near Cuba, Ala.

Location.--Lat 32°26', long 88°20', in NE $\frac{1}{4}$ sec. 24, T.17 N., R.4 W., on right bank on down-stream side of bridge on U.S. Highway 80, 2 $\frac{1}{2}$ miles northeast of Cuba and 4 miles up-stream from Toomsaba Creek.

Drainage area.--63 sq mi, approximately.

Records available.--July 1954 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 161.50 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Average discharge.--6 years (1954-60), 53.3 cfs.

Extremes.--1954-60: Maximum discharge, 4,220 cfs Mar. 16, 1956 (gage height, 15.98 ft); minimum daily, 1.8 cfs Aug. 30, Sept. 9, 1957.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	3.30	3.15	-
1955	2.99	3.94	10.3	19.6	64.6	24.7	88.6	44.2	28.8	22.6	20.4	3.81	27.5
1956	4.62	11.3	20.8	15.3	173	243	92.5	21.7	10.3	84.0	9.99	4.36	57.2
1957	4.60	5.43	13.8	16.3	25.8	28.6	81.8	28.9	13.6	6.05	3.56	70.6	24.7
1958	24.0	167	79.6	84.8	138	304	105	142	49.0	202	32.6	13.6	112
1959	12.4	15.2	21.9	51.4	96.0	61.7	42.2	24.6	36.3	27.6	13.6	8.87	33.9
1960	29.3	71.8	41.6	104	173	181	85.2	51.3	9.74	6.33	13.0	10.7	64.4

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	0.06	0.06	-
1955	0.05	0.07	0.19	0.36	1.07	0.45	1.57	0.81	0.51	0.41	.37	.07	5.93
1956	.08	.20	.38	.28	2.96	4.44	1.64	.40	.18	1.54	.18	.08	12.36
1957	.08	.10	.25	.30	.43	.52	1.45	.53	.24	.11	.07	1.25	5.33
1958	.44	2.96	1.46	1.55	2.28	5.57	1.87	2.59	.87	3.70	.60	.24	24.13
1959	.23	.27	.40	.94	1.59	1.13	.75	.45	.64	.50	.25	.16	7.31
1960	.54	1.27	.76	1.91	2.96	3.31	1.51	.94	.17	.12	.24	.19	13.92

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean
		Discharge	Date					
1950	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-
1954	1384	-	-	-	-	-	-	-
1955	1384,1704	783	June 26, 1955	2.5	27.5	0.437	5.93	29.2
1956	1434,1704	4,220	Mar. 16, 1956	3.0	57.2	.908	12.36	56.1
1957	1504	734	Apr. 5, 1957	1.8	24.7	.392	5.33	45.3
1958	1554,1704	1,910	Mar. 8, 1958	7.6	112	1.78	24.13	93.6
1959	1624	460	June 9, 1959	6.5	33.9	.538	7.31	41.6
1960	1704	861	Feb. 5, 1960	3.6	64.4	1.02	13.92	-

4690. Kinterbish Creek near York, Ala.

Location.--Lat 32°19', long 88°11', in NE¼ sec.33, T.16 N., R.2 W., near left bank on downstream side of pier of bridge on State Highway 17, half a mile downstream from small tributary, three-quarters of a mile north of Choctaw County line, 5½ miles downstream from Little Kinterbish Creek, and 14 miles southeast of York.

Drainage area.--91.4 sq mi.

Records available.--July 1954 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 120 ft (by barometer).

Average discharge.--6 years (1954-60), 76.1 cfs.

Extremes.--1954-60: Maximum discharge, 2,330 cfs Mar. 7, 1958, Oct. 21, 1959 (gage height, 17.3 ft); minimum, 1.8 cfs Aug. 15, Oct. 8, 1954.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	3.79	9.68	14.4	31.7	105	38.4	120	48.1	23.5	33.5	4.73	4.94	37.7
											24.6	5.77	
1956	6.58	17.6	22.9	19.4	112	256	118	29.4	17.1	73.2	9.49	6.17	57.2
1957	9.00	9.89	18.1	21.2	31.1	34.9	116	62.1	20.2	10.7	6.22	63.1	33.4
1958	28.9	156	121	109	195	413	170	147	65.6	354	60.5	32.9	155
1959	25.5	28.6	40.7	82.8	121	93.6	78.7	59.8	129	102	30.7	30.7	68.2
1960	148	82.0	61.7	133	266	226	143	77.9	21.8	15.2	50.0	35.6	105

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	0.05	0.12	0.18	0.40	1.20	0.48	1.47	0.61	0.29	0.42	0.06	0.06	5.60
											.31	.07	
1956	.08	.21	.29	.24	1.32	3.23	1.44	.37	.21	.92	.12	.08	8.51
1957	.11	.12	.23	.27	.35	.44	1.42	.78	.25	.13	.08	.77	4.95
1958	.36	1.90	1.53	1.37	2.23	5.21	2.08	1.85	.80	4.47	.76	.40	22.96
1959	.32	.35	.51	1.04	1.38	1.18	.96	.75	1.57	1.29	.39	.37	10.11
1960	1.87	1.00	.78	1.68	3.14	2.86	1.75	.98	.27	.19	.63	.43	15.58

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1384	-	-	-	-	-	-	-	-
1955	1384	1,130	Feb. 6, 1955	1.8	37.7	0.412	5.60	39.3	5.83
1956	1434	2,070	Mar. 16, 1956	3.9	57.2	.626	8.51	56.4	8.39
1957	1504	976	Apr. 4, 1957	2.4	35.4	.385	4.95	55.8	8.28
1958	1554	2,330	Mar. 7, 1958	18	155	1.70	22.96	137	20.35
1959	1624	1,000	June 12, 1959	16	68.2	.746	10.11	84.8	12.58
1960	1704	2,330	Oct. 21, 1959	8.2	105	1.15	15.58	-	-

4695. Tuckabum Creek near Butler, Ala.

Location.--Lat 32°11', long 88°10', in S $\frac{1}{2}$ sec.15, T.14 N., R.2 W., on left bank 150 ft upstream from bridge on State Highway 17, 2 $\frac{1}{2}$ miles upstream from Yantley Creek, 4 miles downstream from Boguelichitto Creek, and 7 miles northeast of Butler.

Drainage area.--112 sq mi.

Records available.--August 1954 to September 1960.

Gage.--Water-stage recorder.

Average discharge.--6 years (1954-60), 89.4 cfs.

Extremes.--1954-60: Maximum discharge, 4,570 cfs July 9, 1956 (gage height, 17.25 ft); minimum, 0.7 cfs Sept. 21-23, 30, Oct. 6, 1954 (gage height, 0.19 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	4.37	1.55	-
1955	2.90	4.37	8.25	23.2	111	43.5	191	45.9	12.5	9.92	9.82	3.00	38.0
1956	3.92	7.71	10.8	9.65	95.4	266	115	20.1	12.9	217	9.36	3.77	64.5
1957	4.15	2.80	8.23	7.58	12.5	20.7	97.5	95.3	37.9	14.1	4.60	186	40.7
1958	51.1	243	182	158	381	463	158	171	38.3	429	57.5	81.3	200
1959	26.4	22.8	32.5	91.3	211	149	153	50.0	102	49.1	13.9	15.3	75.4
1960	50.8	45.2	40.5	110	341	316	219	212	18.6	7.95	29.6	37.1	118

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	0.04	0.02	-
1955	0.03	0.04	0.08	0.24	1.03	0.45	1.90	0.47	0.12	0.10	.10	.03	4.59
1956	.04	.08	.11	.10	.92	2.74	1.15	.21	.13	2.23	.10	.04	7.85
1957	.04	.03	.08	.08	.12	.21	.97	.98	.38	.15	.05	1.86	4.95
1958	.53	2.42	1.88	1.63	3.54	4.77	1.57	1.76	.38	4.41	.59	.81	24.29
1959	.27	.23	.33	.94	1.96	1.54	1.53	.51	1.02	.51	.14	.15	9.13
1960	.52	.45	.42	1.13	3.28	3.25	2.18	2.18	.19	.08	.30	.37	14.35

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-
1954	1384	-	-	0.7	-	-	-	-	-
1955	1384	1,870	Apr. 14, 1955	.9	38.0	0.339	4.59	38.6	4.67
1956	1434	4,570	July 9, 1956	1.7	64.5	.576	7.85	63.9	7.77
1957	1504	1,970	Sept. 28, 1957	2.2	40.7	.363	4.95	79.2	9.63
1958	1554	3,080	Mar. 8, 1958	13	200	1.79	24.29	168	20.29
1959	1624	1,020	June 10, 1959	7.4	75.4	.673	9.13	80.0	9.69
1960	1704	2,120	May 7, 1960	5.4	118	1.05	14.35	-	-

4695.5. Horse Creek near Sweetwater, Ala.

Location--Lat 32°03', long 87°52', in SW $\frac{1}{4}$ sec.34, T.13 N., R.2 E., near right bank on downstream end of pier of bridge on Marengo County Highway 27, half a mile downstream from Mill Creek, three-quarters of a mile south of Exmoor, $1\frac{1}{4}$ miles north of Hoboken, 3 miles upstream from Sweetwater Creek, and $3\frac{1}{2}$ miles south of Sweetwater.

Drainage area--52.8 sq mi.

Records available--July 1959 to September 1960.

Gage--Water-stage recorder. Altitude of gage is 130 ft (from topographic map).

Extremes--1959-60: Maximum discharge, 1,940 cfs Mar. 30, 1960 (gage height, 14.65 ft); minimum, 2.1 cfs Sept. 24, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	-	10.7	9.23	-
1960	98.5	57.3	27.3	140	139	198	140	58.2	23.3	39.3	90.9	28.0	86.6

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	-	-	0.23	0.19	-
1960	2.15	1.21	0.60	3.05	2.83	4.33	2.96	1.27	0.49	0.86	1.98	.59	22.32

4696. Bashi Creek near Campbell, Ala.

Location--Lat 31°56', long 87°59', in NW $\frac{1}{4}$ sec.9, T.11 N., R.1 E., near left bank on downstream end of pier of bridge on State Highway 69, about half a mile downstream from Trawick Creek, about half a mile upstream from Tallahatta Creek, 1.6 miles north of Campbell, and 3.6 miles south of Morvin.

Drainage area--86.3 sq mi.

Records available--June 1959 to September 1960.

Gage--Water-stage recorder.

Extremes--1959-60: Maximum discharge, 4,240 cfs Apr. 3, 1960 (gage height, 23.09 ft); minimum, 2.9 cfs Aug. 29, Sept. 26, Oct. 5, 1959 (gage height, 0.39 ft); minimum daily, 3.0 cfs Sept. 26, Oct. 4, 1959.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	150	31.9	15.0	12.8	-
1960	137	99.0	28.8	177	173	292	249	74.6	49.3	29.3	105	79.5	124

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1959	-	-	-	-	-	-	-	-	1.95	0.43	0.20	0.17	-
1960	1.84	1.28	0.38	2.36	2.17	3.90	3.21	1.00	.64	.39	1.40	1.03	19.60

4697. Okatuppa Creek at Gilbertown, Ala.

Location.--Lat 31°54', long 88°19', in SE $\frac{1}{4}$ sec.30, T.11 N., R.3 W., near left bank on downstream side of pile bent of bridge on State Highway 17, 300 ft downstream from the Alabama, Tennessee and Northern Railroad bridge, 550 ft upstream from small unnamed tributary, three-quarters of a mile northeast of Gilbertown, and 1 $\frac{1}{2}$ miles upstream from Bogueloosa Creek.

Drainage area.--151 sq mi.

Records available.--June 1956 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 59.41 ft above mean sea level, datum of 1929.

Extremes.--1956-60: Maximum discharge, 3,770 cfs Mar. 15, 1960 (gage height, 18.30 ft); maximum gage height, 13.4 ft Feb. 6, 1958; minimum daily discharge, 0.8 cfs Aug. 28, 29, Sept. 7, 8, 1957.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	28.4	153	9.34	2.60	-
1957	3.21	6.69	24.0	29.9	60.9	59.2	278	94.6	24.8	13.7	6.17	253	70.5
1958	93.6	322	259	245	542	597	263	301	131	489	117	184	294
1959	81.2	63.0	79.5	156	304	262	299	116	212	113	62.0	59.2	149
1960	180	147	117	254	419	447	367	296	22.9	20.8	66.7	104	203

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	0.21	1.17	0.07	0.02	-
1957	0.02	0.05	0.18	0.23	0.42	0.45	2.05	0.72	.18	.10	.05	1.87	6.32
1958	.71	2.38	1.98	1.87	3.74	4.56	1.94	2.30	.97	3.74	.89	1.36	26.44
1959	.62	.47	.61	1.19	2.09	2.00	2.21	.89	1.56	.87	.47	.44	13.42
1960	1.37	1.09	.89	1.94	3.00	3.42	2.71	2.26	.17	.16	.52	.77	18.30

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1956	1434	-	-	0.9	-	-	-	-	-	-
1957	1504	3,020	Apr. 4, 1957	.8	70.5	0.467	6.32	124	11.14	
1958	1554	3,760	Feb. 6, 1958	23	294	1.95	26.44	256	23.07	
1959	1624	1,640	(a)	20	149	.987	13.42	168	15.07	
1960	1704	3,770	Mar. 15, 1960	11	203	1.34	18.30	-	-	

a Feb. 4, Apr. 21, June 1, 1959.

4698. Satilpa Creek near Coffeeville, Ala.

Location.--Lat 31°45', long 88°02', in SE $\frac{1}{4}$ sec.13, T.9 N., R.1 W., near left bank on downstream side of bridge on State Highway 12, a quarter of a mile upstream from unnamed tributary, 3 miles downstream from Harris Creek, and $\frac{3}{4}$ miles east of Coffeeville.

Drainage area.--166 sq mi.

Records available.--June 1956 to September 1960.

Gage.--Water-stage recorder.

Extremes.--1956-60: Maximum discharge, 25,600 cfs July 8, 1956 (gage height, 18.37 ft); minimum, 7.0 cfs Aug. 29, 1957.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	34.4	763	24.7	18.5	-
1957	22.7	23.9	95.9	82.5	102	155	646	108	165	51.2	173	-	136
1958	95.1	415	286	341	412	693	327	363	122	204	58.8	121	286
1959	46.1	40.1	54.2	139	333	308	398	128	462	105	26.0	66.7	173
1960	307	290	143	301	446	701	452	197	66.2	30.2	186	163	273

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	0.23	5.50	0.17	0.12	-
1957	0.16	0.16	0.67	0.57	0.64	1.07	4.34	0.75	1.10	.35	.14	1.16	11.11
1958	.66	2.79	1.99	2.37	2.58	4.81	2.20	2.52	.82	1.42	.41	.81	23.38
1959	.32	.27	.38	.97	2.09	2.14	2.67	.89	3.11	.73	.18	.45	14.20
1960	2.13	1.95	.99	2.09	2.90	4.87	3.04	1.37	.44	.21	1.29	1.10	22.38

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1956	1434	25,600	July 8, 1956	10.0	-	-	-	-	-	-
1957	1504	4,520	Apr. 5, 1957	7.3	136	0.819	11.11	190	15.56	
1958	1554	4,640	Mar. 8, 1958	14	286	1.72	23.38	231	18.91	
1959	1624	3,490	June 10, 1959	14	173	1.04	14.20	224	18.30	
1960	1704	4,520	Mar. 30, 1960	19	273	1.64	22.38	-	-	

4700. Tombigbee River near Leroy, Ala.

Location.--Lat 31°34', long 88°02', in sec.13, T.7 N., R.1 W., at 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 1960.

Gage.--Staff gages above and below dam. Datum of gage is 7.28 ft below mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1954, staff gage above dam only. Since Oct. 19, 1954, auxiliary water-stage recorder at bridge on U.S. Highway 43, 8.3 miles downstream.

Average discharge.--32 years (1928-60), 26,230 cfs.

Extremes.--1928-60: Maximum discharge, 201,000 cfs Apr. 11, 1951; maximum gage height, 46.0 ft Apr. 2, 1929; minimum daily discharge, 500 cfs Sept. 2, 1929 (result of storage above dam from installation of flashboards).

Floods in May 1874 and April 1900 reached stages of 51.8 ft (discharge, 280,000 cfs), and 50.6 ft (discharge, 260,000 cfs, corrected), respectively, from information by Corps of Engineers. Peak discharges determined from rating curve extended above 200,000 cfs by logarithmic plotting.

Remarks.--Some regulation at low flow by locks and dams.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6,373	9,253	20,960	40,900	75,060	57,210	132,100	19,650	8,686	7,206	3,518	3,804	31,640
1952	3,161	7,814	55,940	44,080	36,790	52,770	27,150	11,170	5,356	2,200	4,408	2,616	19,460
1953	2,215	2,762	8,658	39,740	48,510	77,120	27,710	67,860	5,845	10,510	3,074	2,014	24,510
1954	1,597	2,234	22,190	56,750	27,330	24,000	33,470	15,400	4,334	2,368	867	721	14,210
1955	1,113	2,162	3,957	22,770	45,540	38,600	78,770	15,650	9,493	10,670	5,811	1,588	19,430
1956	1,446	3,687	5,685	4,103	68,020	63,170	69,540	16,320	4,894	10,150	2,227	1,989	20,690
1957	2,973	3,060	23,620	24,230	71,290	38,670	52,910	13,460	10,300	9,981	2,283	7,498	21,320
1958	12,910	47,240	69,510	30,180	51,500	62,300	38,980	67,130	7,826	28,180	8,205	9,673	36,120
1959	8,403	7,225	10,400	29,210	54,510	36,100	41,850	17,080	28,930	6,034	3,370	5,814	20,450
1960	11,230	11,970	19,820	43,390	66,070	81,840	36,830	16,980	5,446	2,982	4,760	4,515	25,580

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.38	0.54	1.27	2.47	4.09	3.45	7.72	1.19	0.51	0.43	0.21	0.22	22.48
1952	.19	.46	2.17	2.66	2.08	3.19	1.59	.67	.31	.13	.27	.15	13.87
1953	.13	.16	.52	2.40	2.63	4.65	1.62	4.08	.34	.63	.19	.12	17.47
1954	.10	.13	1.34	2.22	1.49	1.45	1.95	.93	.25	.14	.05	.04	10.09
1955	.07	.13	.24	1.37	2.48	2.33	4.60	.94	.55	.64	.35	.09	13.79
1956	.09	.22	.34	.25	3.84	3.81	4.06	.98	.29	.61	.13	.12	14.74
1957	.18	.18	1.43	1.46	3.89	2.33	3.09	.81	.60	.60	.14	.44	15.15
1958	.78	2.76	4.20	1.82	2.81	3.76	2.28	4.05	.46	1.70	.50	.57	25.69
1959	.51	.42	.63	1.76	2.96	2.18	2.44	1.03	1.69	.36	.20	.34	14.52
1960	.68	.70	1.20	2.62	3.73	4.94	2.15	1.03	.32	.18	.29	.26	18.10

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	31,640	22.32
1951	1204	201,000	Apr. 11, 1951	1,620	31,640	1.66	22.48	32,520	23.11
1952	1234	79,700	Jan. 3, 1952	1,310	19,460	1.02	13.87	16,550	11.86
1953	1274	108,000	Mar. 6, 7, 1953	1,290	24,610	1.29	17.47	25,660	18.23
1954	1334	78,700	Jan. 30, 1954	534	14,210	.744	10.09	12,610	8.96
1955	1384	94,200	Apr. 16-18, 1955	800	19,430	1.02	13.79	19,750	14.00
1956	1434	99,800	Mar. 25, 1956	1,380	20,690	1.08	14.74	22,280	15.88
1957	1504	101,000	Feb. 16, 1957	1,400	21,320	1.12	15.15	29,690	21.10
1958	1554	113,000	Dec. 3, 1957	2,470	36,120	1.89	25.69	27,430	19.51
1959	1624	75,200	Feb. 21, 1959	2,260	20,450	1.07	14.52	21,680	15.54
1960	1704	110,000	Mar. 17, 1960	800	25,380	1.33	18.10	-	-

4701. East Bassett Creek at Walker Springs, Ala.

Location.--Lat 31°32', long 87°47', in NE $\frac{1}{4}$ sec.32, T.7 N., R.3 E., near right bank on downstream side of highway bridge on county road, 1,000 ft southeast of Walker Springs and $2\frac{1}{2}$ miles upstream from Rabbit Creek.

Drainage area.--188 sq mi.

Records available.--June 1956 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 60.02 ft above mean sea level, datum of 1929. Prior to Oct. 23, 1958, water-stage recorder at site 100 ft upstream at same datum.

Extremes.--1956-60: Maximum discharge, 19,300 cfs July 8, 1956 (gage height, 12.25 ft); minimum, 20 cfs Sept. 22, 1956.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	95.1	944	50.5	47.9	-
1957	84.6	74.1	272	158	285	227	1,122	301	450	218	80.2	471	310
1958	230	898	449	480	491	855	401	512	177	215	99.0	128	390
1959	66.5	61.8	88.2	158	407	577	570	188	637	245	105	277	261
1960	398	281	192	314	481	760	550	379	364	133	256	254	363

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1956	-	-	-	-	-	-	-	-	0.56	5.79	0.31	0.28	-
1957	0.52	0.44	1.67	0.97	1.58	1.39	6.66	1.84	2.67	1.32	.49	2.80	22.35
1958	1.41	5.33	2.75	2.82	2.72	5.12	2.38	1.91	1.05	1.32	.61	1.76	28.18
1959	1.41	.37	.54	.84	2.25	2.31	3.58	1.16	3.78	1.50	.65	1.64	18.83
1960	2.44	1.67	1.18	1.92	2.76	4.66	3.27	2.32	2.16	.81	1.57	1.51	26.27

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1956	1434	19,300	July 8, 1956	a21	-	-	-	-	-
1957	1504,1624	6,090	Apr. 6, 1957	30	310	1.65	22.35	405	29.21
1958	1554,1624	5,570	Mar. 9, 1958	33	390	2.07	28.18	277	20.01
1959	1624	5,310	June 10, 1959	43	261	1.39	18.83	316	22.80
1960	1704	4,790	June 3, 1960	65	363	1.93	26.27	-	-

a Minimum daily during period June to September.

4705. Mobile River near Mount Vernon, Ala.

Location.--Lat 31°06'50", 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 at mile 41.3 from Mobile.

Drainage area.--43,000 sq mi, approximately.

Records available.--October 1953 to September 1954.

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.--1953-54: Maximum discharge, 143,000 cfs Feb. 1, 2, 1954; maximum gage height, 11.40 ft Feb. 2, 1954; minimum daily discharge, 4,310 cfs Sept. 24, 1954.

Remarks.--Flow regulated by upstream reservoirs on Etowah, Coosa, and Tallapoosa Rivers, and to some extent at low flows by lock and dams on the Tombigbee River. Records of chemical analyses, water temperatures, and suspended-sediment loads for the period October 1953 to September 1954 are published in report of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1954	15,500	13,470	68,930	70,430	73,850	61,010	74,840	34,690	16,380	11,020	10,510	9,427	38,150

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1954	0.42	0.35	1.85	1.89	1.79	1.64	1.94	0.93	0.43	0.30	0.28	0.24	12.06

4710. Chickasaw Creek near Whistler, Ala.

Location--Lat 30°49'15", long 88°09'10", in NW¹ sec.2, T.3 S., R.2 W., on downstream side of right pier of bridge on county road, 2 miles upstream from Seabury Creek, 5 miles northwest of Whistler, and 8 miles northwest of Mobile.

Drainage area--123 sq mi.

Records available--October 1951 to September 1960.

Gage--Water-stage recorder. Altitude of gage is 20 ft (from topographic map).

Average discharge--9 years (1951-60), 258 cfs.

Extremes--1951-60: Maximum discharge, 42,000 cfs Apr. 13, 1955 (gage height, 25.4 ft, from floodmarks), from rating curve extended above 11,000 cfs on basis of slope-area estimate of peak flow; minimum, 18 cfs Sept. 3, 4, 1954 (gage height, 0.41 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	66.9	138	162	147	341	278	307	345	101	75.7	105	178	186
1953	53.1	74.0	230	268	430	299	391	176	100	148	183	79.8	201
1954	54.0	134	393	174	135	154	95.8	61.2	56.1	58.1	29.0	30.0	115
1955	38.4	73.0	126	197	267	84.5	1792	228	184	235	401	127	311
1956	135	92.2	231	230	427	610	180	123	288	361	108	211	249
1957	219	119	464	210	190	264	595	195	118	111	307	538	278
1958	220	514	271	414	317	482	286	199	213	310	247	232	309
1959	116	112	118	163	473	333	467	424	1,040	491	334	260	359
1960	400	215	216	368	409	355	481	457	113	212	322	236	315

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	0.63	1.25	1.52	1.38	2.99	2.61	2.78	3.23	0.92	0.69	0.98	1.61	20.59
1953	.50	.67	2.15	2.52	3.64	2.80	3.54	1.65	.91	1.39	1.72	.72	22.21
1954	.51	1.21	3.68	1.63	1.15	1.44	.87	.57	.51	.54	.27	.27	12.65
1955	.36	.66	1.18	1.85	2.26	.79	16.26	2.14	1.66	2.21	3.76	1.15	34.28
1956	1.26	.84	2.17	2.15	3.74	5.71	1.63	1.15	2.61	3.38	1.02	1.92	27.58
1957	2.05	1.08	4.35	1.97	1.61	2.48	5.40	1.83	1.07	1.04	2.87	4.88	30.63
1958	2.06	4.66	2.54	3.88	2.68	4.52	2.59	1.87	1.93	2.90	2.31	2.10	34.04
1959	1.08	1.01	1.11	1.53	4.01	3.12	4.23	3.97	9.42	4.60	3.13	2.36	39.57
1960	3.75	1.95	2.02	3.45	3.58	3.33	4.36	4.28	1.03	1.99	3.02	2.14	34.90

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-
1952	1234	1,540	May 20, 1952	40	186	1.51	20.59	185	20.51	
1953	1274	1,920	Apr. 26, 1953	36	201	1.63	22.21	220	24.29	
1954	1334	1,030	Dec. 15, 1953	19	115	.935	12.65	65.7	9.45	
1955	1384	42,000	Apr. 13, 1955	26	311	2.53	34.28	329	36.35	
1956	1434	4,270	Mar. 12, 1956	48	249	2.02	27.58	278	30.79	
1957	1504	7,090	Dec. 24, 1956	40	228	2.26	30.63	294	32.41	
1958	1554	2,730	Nov. 15, 1957	79	309	2.51	34.04	254	27.98	
1959	1624	17,400	June 2, 1959	82	359	2.92	39.57	400	44.09	
1960	1704	5,590	Mar. 7, 1960	63	315	2.56	34.90	-	-	

4720. Leaf River near Collins, Miss.

Location.--Lat 31°41', long 89°24', in NE $\frac{1}{4}$ 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 Big Creek (formerly Rahoma Creek), and 9 $\frac{1}{2}$ miles northeast of Collins.

Drainage area.--752 sq mi.

Records available.--September 1938 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 197.48 ft above mean sea level (Mississippi State Highway bench mark). Prior to Dec. 8, 1938, wire-weight gage at same site and datum.

Average discharge.--22 years (1938-60), 1,006 cfs.

Extremes.--1938-60: Maximum discharge, 38,100 cfs Jan. 8, 1950 (gage height, 31.14 ft), from rating curve extended above 23,000 cfs by logarithmic plotting; minimum, 55 cfs Aug. 28-30, 1957 (gage height, 3.70 ft).
Flood in April 1856, the highest known, reached a stage of about 33 ft and the flood in April 1900 reached a stage of 32 ft, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	141	189	481	1,058	2,752	2,825	1,978	255	267	260	114	150	860
1952	107	127	738	404	1,008	1,135	771	836	184	102	113	78.7	466
1953	67.8	103	177	1,085	2,902	2,283	1,522	4,744	247	660	463	224	1,200
1954	95.8	131	938	943	615	1,202	1,040	909	145	237	82.4	69.2	535
1955	76.2	92.7	250	521	1,984	385	2,152	294	175	402	305	90.4	548
1956	82.8	127	334	233	3,940	3,331	1,083	164	178	129	118	77.6	804
1957	87.8	89.7	545	298	361	555	2,011	967	407	301	98.2	1,264	580
1958	975	2,377	1,221	1,275	1,487	3,014	976	1,336	680	1,308	534	659	1,320
1959	438	331	453	1,505	2,028	983	1,615	782	512	283	194	190	767
1960	428	850	542	1,281	1,890	2,527	1,512	1,095	157	151	980	163	963

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.22	0.28	0.74	1.62	3.81	4.33	2.93	0.39	0.40	0.40	0.17	0.22	15.51
1952	.16	.19	1.13	.62	1.45	1.74	1.14	1.28	.27	.16	.17	.12	8.43
1953	.10	.15	.27	1.68	4.02	5.50	2.26	7.27	.37	1.01	.71	.33	21.65
1954	.15	.20	1.44	1.45	.85	1.84	1.54	1.39	.22	.36	.13	.10	9.67
1955	.12	.14	.58	.80	2.75	.59	3.19	.45	.26	.62	.47	.13	9.90
1956	.13	.19	.51	.36	5.65	5.11	1.61	.25	.26	.20	.18	.12	14.57
1957	.13	.13	.84	.46	.50	.85	2.98	1.48	.60	.46	.15	1.87	10.45
1958	1.49	3.53	1.87	1.95	2.06	4.62	1.45	2.05	1.01	2.01	.82	.98	23.84
1959	.67	.49	.69	2.31	2.81	1.51	2.40	1.20	.76	.43	.30	.28	13.84
1960	.66	1.26	.83	1.96	2.71	3.87	2.24	1.68	.23	.23	1.50	.24	17.41

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	1,401	25.29	
1951	1204	22,600	Mar. 31, 1951	95	860	1.14	15.51	873	15.75	
1952	1254	4,580	May 25, 1952	69	466	.620	8.43	413	7.47	
1953	1274	14,600	May 5, 1953	65	1,200	1.60	21.65	1,269	22.92	
1954	1354	7,580	Mar. 30, 1954	63	535	.711	9.67	472	8.52	
1955	1384	14,200	Apr. 16, 1955	65	548	.729	9.90	559	10.09	
1956	1454	20,100	Mar. 18, 1956	62	804	1.07	14.57	819	14.84	
1957	1504	9,620	Apr. 5, 1957	55	580	.771	10.45	900	16.24	
1958	1554	8,540	Mar. 10, 1958	112	1,320	1.76	23.84	1,041	18.80	
1959	1624	7,200	Apr. 21, 1959	111	767	1.02	13.85	817	14.75	
1960	1704	7,220	Mar. 15, 1960	103	963	1.28	17.41	-	-	

4725. 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, 1 mile upstream from Okatoma Creek, 2 miles southwest of Lux, and 10 miles northwest of Hattiesburg.

Drainage area.--304 sq mi.

Records available.--September 1938 to September 1960.

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.--22 years (1938-60), 442 cfs.

Extremes.--1938-60: Maximum discharge, 20,100 cfs Mar. 21, 1943 (gage height, 25.70 ft); minimum, 83 cfs Aug. 29, 1957 (gage height, 2.58 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	203	184	344	417	890	941	600	182	177	197	151	189	370
1952	136	159	423	265	522	463	377	317	146	144	134	120	267
1953	111	137	183	350	810	730	678	1,596	176	201	158	128	437
1954	123	158	812	319	259	286	264	232	139	161	112	99.1	248
1955	112	116	169	308	541	203	1,150	183	124	154	216	112	278
1956	107	144	277	182	1,099	844	264	125	147	176	149	104	299
1957	102	108	170	139	203	255	676	273	260	191	123	579	255
1958	267	877	421	438	650	808	465	374	187	449	366	1,082	530
1959	192	191	196	359	639	334	601	263	337	181	169	180	300
1960	212	739	281	451	676	633	534	434	158	150	298	158	392

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.77	0.68	1.30	1.58	3.05	3.57	2.20	0.69	0.65	0.75	0.57	0.69	16.50
1952	.51	.58	1.60	1.01	1.85	1.76	1.38	1.20	.53	.55	.51	.44	11.92
1953	.42	.50	.70	1.33	2.78	2.77	2.49	6.05	.65	.76	.60	.47	19.52
1954	.47	.58	3.08	1.21	.89	1.08	.97	.88	.51	.61	.42	.36	11.06
1955	.42	.42	.64	1.17	1.85	.77	4.15	.69	.45	.59	.82	.41	12.38
1956	.40	.53	1.05	.69	3.90	3.20	.97	.47	.54	.67	.56	.38	13.36
1957	.39	.40	.65	.53	.70	.97	2.48	1.04	.95	.73	.47	2.13	11.44
1958	1.01	3.22	1.60	1.66	2.23	3.06	1.71	1.42	.69	1.70	1.39	3.97	23.66
1959	.73	.70	.74	1.36	2.19	1.27	2.20	1.00	1.24	.69	.64	.66	15.42
1960	.80	2.71	1.06	1.71	2.40	2.40	1.96	1.65	.58	.57	1.13	.58	17.55

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	6,830	Mar. 29, 1951	138	370	1.22	16.50	524	23.39
1952	1234	1,940	Feb. 3, 1952	108	267	.878	11.92	369	16.44
1953	1274	7,540	May 5, 1953	109	437	1.44	19.52	493	22.03
1954	1334	3,000	Dec. 9, 1953	96	248	.816	11.06	189	8.41
1955	1384	9,250	Apr. 13, 1955	98	278	.914	12.38	289	12.88
1956	1434	5,900	Feb. 4, 1956	93	299	.984	13.36	286	12.82
1957	1504	4,120	Apr. 5, 1957	83	255	.839	11.44	354	15.83
1958	1554	11,400	Sept. 23, 1958	126	530	1.74	23.66	448	20.00
1959	1624	2,140	Apr. 22, 1959	123	300	.987	13.42	354	15.82
1960	1704	3,700	Nov. 5, 1959	127	392	1.29	17.55	-	-

4730. Leaf River at Hattiesburg, Miss.

Location.--Lat 31°21', long 89°17', in NW¼ 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, and 3,000 ft upstream from New Orleans & Northeastern Railroad bridge.

Drainage area.--1,760 sq mi, approximately.

Records available.--September 1938 to September 1960. 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 Jan. 15, 1939, wire-weight gage at same site and datum.

Average discharge.--22 years (1938-60), 2,543 cfs.

Extremes.--1938-60: Maximum discharge, 71,300 cfs Mar. 22, 1943 (gage height, 28.91 ft); minimum, 332 cfs Aug. 27, 28, 1957 (gage height, 4.02 ft).

Flood in April 1900 reached a stage of about 33.6 ft, present datum, from reports of U.S. Weather Bureau.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	689	690	1,396	2,392	5,416	4,700	5,129	967	1,054	982	581	808	2,041
1952	604	706	2,275	1,466	2,934	3,013	2,072	1,800	676	521	536	446	1,417
1953	366	514	846	2,500	5,304	5,293	3,990	10,230	983	1,535	1,012	761	2,771
1954	434	648	4,192	2,206	1,632	2,172	2,507	1,884	610	820	423	377	1,496
1955	432	456	756	1,605	3,764	1,221	5,337	1,045	665	1,142	1,475	527	1,515
1956	416	583	1,271	861	7,808	6,182	2,377	677	756	656	651	420	1,865
1957	461	465	1,175	797	1,090	1,428	4,598	2,237	984	1,040	546	3,355	1,509
1958	2,455	5,412	2,897	3,153	3,891	6,281	2,880	3,403	1,644	2,824	1,400	3,659	3,320
1959	1,342	1,023	1,273	2,871	4,453	2,292	3,945	2,069	2,159	1,209	914	869	2,015
1960	1,557	3,183	1,535	3,052	4,832	5,183	3,930	3,011	670	726	2,201	693	2,540

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.45	0.44	0.91	1.57	3.20	3.08	3.25	0.63	0.67	0.64	0.38	0.51	15.73
1952	.40	.45	1.49	.96	1.80	1.97	1.31	1.18	.43	.34	.35	.28	10.96
1953	.24	.33	.55	1.64	3.14	3.47	2.53	6.70	.62	1.01	.66	.48	21.37
1954	.28	.41	2.75	1.44	.97	1.42	1.59	1.23	.39	.54	.28	.24	11.54
1955	.28	.29	.50	1.05	2.23	.80	3.38	.68	.42	.75	.97	.53	11.68
1956	.27	.37	.83	.56	4.78	4.05	1.51	.44	.48	.43	.43	.27	14.42
1957	.30	.30	.77	.52	.64	.94	2.91	1.47	.62	.68	.36	2.13	11.64
1958	1.61	3.43	1.90	2.07	2.30	4.12	1.83	2.23	1.04	1.85	.92	2.32	25.62
1959	.88	.65	.83	1.88	2.63	1.50	2.50	1.36	1.37	.79	.60	.55	15.54
1960	1.02	2.02	1.01	2.00	2.96	3.40	2.49	1.97	.43	.48	1.44	.44	19.66

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches		Mean	Runoff in inches	
		Discharge	Date								
1950	-	-	-	-	-	-	-	-	2,903	22.39	-
1951	1204	23,600	Apr. 1, 1951	494	2,041	1.16	15.73	2,110	16.27	16.27	-
1952	1234	8,570	Mar. 4, 1952	387	1,417	.805	10.96	1,260	9.74	9.74	-
1953	1274	30,000	May 6, 1953	350	2,771	1.57	21.37	3,072	23.69	23.69	-
1954	1334	13,300	Dec. 12, 1953	348	1,496	.850	11.54	1,188	9.17	9.17	-
1955	1384	23,200	Apr. 15, 1955	367	1,515	.861	11.68	1,568	12.08	12.08	-
1956	1434	23,600	Mar. 18, 1956	357	1,865	1.06	14.42	1,851	14.32	14.32	-
1957	1504	19,100	Apr. 5, 1957	332	1,509	.857	11.64	2,231	17.21	17.21	-
1958	1554	22,300	Sept. 24, 1958	589	3,320	1.89	25.62	2,727	21.04	21.04	-
1959	1624	11,000	Apr. 23, 1959	609	2,015	1.14	15.54	2,233	17.23	17.23	-
1960	1704	16,500	Apr. 3, 1960	547	2,540	1.44	19.66	-	-	-	-

4735. 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 1960.

Gage.--Water-stage recorder. Datum of gage is 201.37 ft above mean sea level (Mississippi State highway bench mark). Prior to Dec. 14, 1938, wire-weight gage at same site and datum.

Average discharge.--22 years (1938-60), 314 cfs.

Extremes.--1938-60: Maximum discharge, 13,700 cfs Jan. 21, 1947 (gage height, 20.29 ft); minimum, 1.8 cfs Nov. 3, 1952; minimum gage height, 1.58 ft Sept. 7, 1957.

Maximum stage known since at least 1880, about 26 ft Dec. 9, 1919. Flood in April 1900 reached a stage of about 24 ft, from information by local residents. Flood in April 1938 reached a stage of 20.7 ft, from information by Mississippi State Highway Department.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	18.5	23.1	154	314	968	919	620	47.7	32.8	32.0	9.47	33.8	260
1952	15.4	19.4	145	100	318	412	239	393	56.3	14.5	33.7	10.4	146
1953	3.25	16.5	50.0	254	632	749	384	1,868	37.8	94.2	25.3	15.6	344
1954	5.13	21.7	485	310	204	302	404	264	30.4	58.0	11.2	5.69	175
1955	8.44	11.6	35.0	189	353	165	574	106	33.9	35.1	106	8.74	133
1956	5.71	13.6	62.2	44.5	861	765	279	46.3	30.0	41.3	13.7	6.17	178
1957	10.6	6.17	31.9	29.9	61.2	86.4	422	217	35.8	67.5	29.9	321	109
1958	350	1,043	431	467	732	1,008	295	422	69.7	411	112	157	456
1959	75.2	34.2	67.8	225	492	239	494	151	319	61.6	59.7	18.5	184
1960	41.1	170	158	338	814	839	541	350	15.8	18.8	153	23.2	287

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.09	0.11	0.76	1.55	4.33	4.55	2.97	0.24	0.16	0.16	0.05	0.16	15.13
1952	.08	.09	.72	.50	1.47	2.04	1.14	1.95	.27	.07	.17	.05	8.55
1953	.02	.08	.25	1.26	2.83	3.70	1.84	9.24	.18	.47	.13	.07	20.07
1954	.03	.10	2.40	1.53	.91	1.50	1.93	1.31	.15	.29	.06	.03	10.24
1955	.04	.06	.17	.93	1.58	.82	2.75	.52	.16	.17	.52	.04	7.76
1956	.03	.07	.31	.22	3.99	3.79	1.34	.23	.14	.20	.07	.03	10.42
1957	.05	.03	.15	.15	.27	.43	2.02	1.07	.17	.33	.15	1.54	6.36
1958	1.73	4.99	2.13	2.31	3.27	4.99	1.41	2.09	.33	2.03	.56	.75	26.59
1959	.37	.16	.34	1.12	2.20	1.18	2.56	.75	1.53	.30	.30	.09	10.70
1960	.20	.81	.78	1.67	3.77	4.15	2.59	1.73	.08	.09	.76	.11	16.74

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	308	17.92
1951	1204	9,030	Mar. 30, 1951	5.9	260	1.12	15.13	258	15.06
1952	1234	1,980	May 27, 1952	6.2	146	.627	8.55	157	8.01
1953	1274	6,040	May 6, 1953	2.5	344	1.48	20.07	362	22.25
1954	1334	2,230	Apr. 1, 1954	3.7	175	.751	10.24	137	7.98
1955	1384	3,040	Apr. 17, 1955	2.8	133	.571	7.76	136	7.90
1956	1434	6,040	Mar. 18, 1956	3.6	178	.764	10.42	175	10.24
1957	1504	1,760	Apr. 9, 1957	3.8	109	.468	6.36	257	14.98
1958	1554	3,040	Nov. 23, 1957	13	456	1.96	26.59	319	18.61
1959	1624	1,250	Apr. 26, 1959	9.6	184	.790	10.70	199	11.62
1960	1704	2,920	Mar. 16, 1960	9.0	267	1.23	16.74	-	-

4745. Tallahala Creek near Runnelstown, Miss.

Location.--Lat 31°20', long 89°07', in NE $\frac{1}{4}$ 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.--October 1939 to September 1960. Monthly discharge only for October 1939, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 109.58 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Average discharge.--21 years (1939-60), 883 cfs.

Extremes.--1939-60: Maximum discharge, 19,300 cfs Jan. 23, 1947 (gage height, 21.70 ft); minimum, 32 cfs Sept. 15, 16, 29, 1954 (gage height, 0.63 ft).

Maximum stage known since about 1865, 30 $\frac{1}{2}$ ft in April 1900, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	94.9	109	390	747	2,088	1,805	2,195	187	148	159	56.4	113	663
1952	101	109	664	411	1,147	1,307	769	221	84.7	94.5	64.9		477
1953	38.2	74.6	202	734	1,573	2,074	1,250	4,025	184	370	176	96.1	900
1954	48.3	136	2,034	854	652	732	1,173	607	122	195	67.1	36.8	556
1955	44.6	59.9	97.1	542	977	446	1,594	302	152	216	517	69.2	413
1956	53.1	97.5	284	175	2,462	2,001	875	168	156	158	87.9	56.5	540
1957	73.9	47.9	157	151	273	343	1,318	670	129	232	115	1,134	383
1958	956	2,187	1,264	1,511	2,052	2,409	1,001	1,311	309	1,092	389	877	1,257
1959	332	170	259	717	1,483	703	1,472	478	1,215	517	295	122	639
1960	524	1,091	590	1,119	2,136	2,038	1,475	1,068	108	130	595	179	917

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.18	0.20	0.73	1.41	3.55	3.40	4.00	0.35	0.27	0.30	0.11	0.21	14.71
1952	.19	.20	1.25	.77	2.02	2.46	1.40	1.45	.40	.16	.18	.12	10.60
1953	.07	.14	.38	1.38	2.68	3.91	2.28	7.58	.34	.70	.33	.18	19.97
1954	.09	.25	3.85	1.61	1.11	1.38	2.14	1.14	.22	.37	.13	.07	12.34
1955	.08	.11	.18	1.02	1.66	.84	2.91	.57	.28	.41	.97	.13	9.16
1956	.10	.18	.53	.33	4.34	3.77	1.59	.32	.28	.30	.17	.10	12.01
1957	.14	.09	.30	.25	.46	.65	2.40	1.26	.23	.44	.22	2.07	8.51
1958	1.76	3.99	2.38	2.47	3.49	4.54	1.83	2.47	.56	2.06	.73	1.60	27.88
1959	.63	.31	.49	1.35	2.52	1.32	2.68	.90	2.22	.97	.56	.22	14.17
1960	.99	1.99	1.11	2.11	3.76	3.84	2.69	2.01	.20	.24	1.12	.33	20.39

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	-	845	18.74
1951	1204	10,200	Apr. 2, 1951	46	663	1.08	14.71	687	15.24	
1952	1234	4,010	Mar. 4, 1952	42	477	.779	10.60	430	9.55	
1953	1274	11,000	May 7, 1953	36	900	1.47	19.97	1,061	23.55	
1954	1334	5,040	Apr. 16, 1954	32	556	.908	12.34	385	8.54	
1955	1384	7,070	Apr. 13, 1955	34	413	.675	9.16	433	9.60	
1956	1434	5,810	Mar. 21, 1956	42	540	.882	12.01	527	11.73	
1957	1504	4,720	Apr. 5, 1957	43	383	.626	8.51	726	16.11	
1958	1554	5,950	Sept. 22, 1958	64	1,257	2.05	27.88	954	21.18	
1959	1624	3,620	June 2, 1959	80	639	1.04	14.17	759	16.83	
1960	1704	6,030	Apr. 3, 1960	68	917	1.50	20.39	-	-	

4750. 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 U.S. Highway 98 (formerly State Highway 15), 1 $\frac{1}{2}$ miles east of McLain, 2 miles downstream from Atkinson Creek, 6 miles upstream from Big Oktibe Creek, and 13.2 miles (revised) upstream from confluence with Chickasawhay River.

Drainage area.--3,510 sq mi, approximately.

Records available.--October 1939 to September 1960. Monthly discharge only for October 1939, published in WSP 1304.

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.--21 years (1939-60), 5,284 cfs.

Extremes.--1939-60: Maximum discharge, 88,300 cfs Mar. 24, 1943 (gage height, 27.76 ft); minimum, 530 cfs Sept. 14, 15, Oct. 6, 1954; minimum gage height, 1.88 ft Sept. 7, 1957. Flood in April 1900 reached a stage about 4 ft higher than that of Mar. 24, 1943, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,203	1,149	2,511	3,995	10,590	9,937	13,630	1,844	1,891	1,778	992	1,518	4,182
1952	1,046	1,231	4,180	3,135	6,925	7,307	4,713	3,802	1,507	949	907	892	3,039
1953	563	808	1,928	4,993	9,777	11,960	8,937	18,280	1,704	3,211	1,739	1,361	5,428
1954	693	1,008	13,720	4,760	4,320	4,106	7,235	3,105	1,157	1,525	767	590	3,588
1955	616	672	879	3,143	6,346	2,362	10,790	2,036	1,161	1,751	3,805	844	2,833
1956	693	842	1,823	1,343	13,570	12,210	5,006	1,261	1,330	2,262	1,188	728	3,483
1957	735	652	1,999	1,416	2,008	2,515	7,875	3,705	1,347	1,905	974	7,599	2,715
1958	5,924	11,170	6,808	7,131	9,761	12,920	5,890	8,398	2,855	6,841	2,753	7,086	7,246
1959	2,525	1,491	1,928	4,636	9,610	5,365	7,679	3,253	8,925	2,868	1,973	1,562	4,268
1960	4,490	6,628	3,413	5,862	10,780	9,581	9,075	6,773	1,133	1,259	3,690	1,555	5,334

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.40	0.37	0.82	1.31	3.14	3.26	4.33	0.61	0.60	0.58	0.33	0.42	16.17
1952	.34	.39	1.37	1.03	2.13	2.40	1.50	1.25	.48	.31	.30	.28	11.78
1953	.16	.26	.63	1.64	2.90	3.93	2.84	6.00	.54	1.05	.57	.43	20.97
1954	.23	.32	4.51	1.56	1.28	1.35	2.30	1.02	.37	.50	.25	.19	13.88
1955	.20	.21	.29	1.03	1.88	.78	3.43	.67	.37	.58	1.25	.27	10.96
1956	.23	.27	.60	.44	4.17	4.01	1.59	.41	.42	.74	.39	.23	13.50
1957	.24	.21	.66	.47	.60	.83	2.50	1.22	.43	.63	.32	2.42	10.53
1958	1.95	3.55	2.17	2.34	2.90	4.24	1.87	2.76	.91	2.18	.90	2.25	28.02
1959	.83	.47	.63	1.52	2.85	1.76	2.44	1.07	2.84	.94	.65	.50	16.50
1960	1.47	2.11	1.12	1.93	3.31	3.15	2.88	2.22	.36	.41	1.21	.50	20.67

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	5,038	19.48	
1951	1204	47,300	Apr. 2, 1951	770	4,182	1.19	16.17	4,317	16.68	
1952	1234	17,600	Mar. 6, 1952	592	3,039	.866	11.78	2,773	10.75	
1953	1274	44,900	May 9, 1953	535	5,428	1.55	20.97	6,457	24.96	
1954	1334	26,900	Dec. 14, 1953	530	3,588	1.02	13.88	2,463	9.52	
1955	1384	36,200	Apr. 17, 1955	530	2,833	.907	10.96	2,933	11.36	
1956	1434	31,500	Feb. 11, 1956	595	3,483	.992	13.50	3,486	13.51	
1957	1504	28,000	Sept. 20, 1957	582	2,715	.774	10.53	4,412	17.09	
1958	1554	31,000	Sept. 26, 1958	975	7,246	2.06	28.02	5,765	22.28	
1959	1624	30,000	June 2, 1959	1,050	4,268	1.22	16.50	4,983	19.27	
1960	1704	29,600	Apr. 6, 1960	980	5,334	1.52	20.67	-	-	

4755. 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 1960.

Gage--Water-stage recorder. Datum of gage is 269.00 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Prior to Mar. 24, 1939, wire-weight gage at same site and datum.

Average discharge--22 years (1938-60), 458 cfs.

Extremes--1938-60: Maximum discharge, 27,600 cfs (revised) Jan. 7, 1950 (gage height, 25.08 ft); minimum, 1.6 cfs Sept. 28-30, 1954 (gage height, 2.09 ft).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	85.6	213	732	864	1,390	1,758	775	124	76.5	47.2	27.5	27.6	505
1952	18.6	35.7	294	206	403	556	354	106	54.9	16.1	18.4	11.1	172
1953	4.95	25.7	91.8	453	1,381	976	703	1,570	52.6	187.	37.2	22.5	452
1954	7.75	27.2	188	254	241	524	521	330	39.1	70.2	10.5	3.08	185
1955	6.97	24.5	116	278	871	185	874	105	69.2	235	127	24.2	238
1956	16.0	64.4	162	143	2,015	1,942	1,142	79.8	71.0	43.0	32.1	9.70	470
1957	17.1	20.4	214	229	304	386	849	169	117	62.0	15.8	285	221
1958	324	1,204	504	529	534	1,314	624	899	310	611	114	249	602
1959	106	142	191	753	938	576	638	201	367	239	112	104	360
1960	169	381	383	852	1,069	1,108	647	654	83.4	20.3	127	33.8	459

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.27	0.65	2.29	2.71	3.93	5.51	2.35	0.39	0.23	0.15	0.09	0.08	18.65
1952	.06	.11	.92	.65	1.18	1.74	1.07	.33	.17	.05	.06	.03	6.37
1953	.02	.08	.29	1.42	3.91	3.06	2.13	4.92	.16	.51	.12	.07	16.69
1954	.02	.08	.59	.80	.68	1.64	1.58	1.03	.12	.22	.03	.009	6.80
1955	.02	.07	.36	.87	2.46	.58	2.65	.33	.21	.73	.40	.07	8.75
1956	.05	.20	.51	.45	5.91	6.09	3.46	.25	.22	.13	.10	.03	17.40
1957	.05	.06	.67	.72	.86	1.21	2.58	.53	.36	.19	.05	.86	8.14
1958	1.02	3.65	1.58	1.66	1.51	4.12	1.89	2.82	.94	1.91	.36	.76	22.22
1959	.33	.43	.60	2.36	2.65	1.80	1.93	.65	1.11	.75	.35	.31	13.25
1960	.53	1.15	1.20	2.67	3.13	3.47	1.96	2.05	.25	.06	.40	.10	16.97

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	673	24.82
1951	1204	17,400	Mar. 30, 1951	19	505	1.37	18.65	448	16.53
1952	1234	1,850	Apr. 14, 1952	5.0	172	1.467	6.37	153	5.67
1953	1274	8,970	May 1, 1953	3.2	452	1.23	16.69	460	16.99
1954	1334	3,130	Mar. 30, 1954	1.6	185	.503	6.80	178	6.56
1955	1384	6,240	Apr. 15, 1955	1.8	238	.647	8.75	246	9.06
1956	1434	19,800	Mar. 16, 1956	3.7	470	1.28	17.40	471	17.42
1957	1504	4,270	Apr. 6, 1957	2.5	221	.601	8.14	369	13.61
1958	1554	4,200	Nov. 21, 1957	26	602	1.64	22.22	469	17.33
1959	1624	4,140	Jan. 23, 1959	40	360	.978	13.25	401	14.77
1960	1704	4,890	May 8, 1960	12	459	1.25	16.97	-	-

4765. Sowashee Creek at Meridian, Miss.

Location.--Lat 32°22'10", long 88°40'40", in NE $\frac{1}{4}$ sec.17, T.6 N., R.16 E., Choctaw meridian, near right bank on upstream side of bridge on U.S. Highway 45, 0.6 mile downstream from Southern Railway System bridge and 8 miles upstream from mouth.

Drainage area.--51.9 sq mi.

Records available.--October 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 305.95 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Prior to Dec. 19, 1950, wire-weight gage and Dec. 19, 1950, to Nov. 12, 1959, water-stage recorder at site 0.4 mile upstream at datum 3.00 ft higher.

Average discharge.--10 years (1950-60), 46.2 cfs.

Extremes.--1950-60: Maximum discharge, 8,030 cfs Mar. 28, 1951 (gage height, 23.09 ft, at site 0.4 mile upstream at present datum); minimum, 0.2 cfs Oct. 4, 1954, and at times during July, August, September, 1957.

Maximum stage known since at least 1900, 29.5 ft, present datum, in February 1936, at site 0.5 mile upstream, from information by Southern Railway System. Flood of Mar. 31, 1949, reached a stage of 26.6 ft, at site 0.5 mile upstream at present datum, from information by Southern Railway System. Flood of Apr. 8, 1938, reached a stage of 26 ft at site 0.4 mile upstream at present datum, from information by U.S. Weather Bureau.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	6.22	5.91	87.9	70.8	180	316	81.4	15.6	21.7	6.05	2.03	5.49	66.1
1952	2.36	4.34	55.4	26.4	34.2	84.3	45.6	86.6	9.49	2.78	1.78	.90	28.0
1953	1.03	3.34	10.4	55.0	183	104	76.3	135	6.57	18.7	3.67	5.23	49.4
1954	2.26	2.76	70.0	68.6	37.4	81.8	74.5	22.3	4.78	2.95	.74	.48	30.8
1955	.55	1.08	5.63	16.1	67.5	26.8	92.6	13.8	6.00	14.1	8.43	1.27	20.7
1956	.68	4.03	10.6	7.07	183	272	112	11.4	6.87	20.7	1.30	2.49	52.2
1957	5.15	1.03	9.20	13.7	20.2	29.9	69.4	10.2	4.36	2.48	2.07	67.6	19.4
1958	12.8	143	55.4	55.9	94.6	222	89.4	93.3	35.6	252	37.2	22.7	93.0
1959	24.1	13.2	18.6	56.0	95.5	48.1	44.2	23.8	26.6	89.8	6.76	8.49	37.6
1960	36.4	31.8	38.5	109	157	190	83.3	72.4	6.53	3.61	41.8	10.9	65.0

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.14	0.13	1.95	1.57	3.62	7.02	1.75	0.35	0.47	0.13	0.05	0.12	17.30
1952	.05	.09	.79	.59	.71	1.87	.98	1.92	.20	.06	.04	.02	7.32
1953	.02	.07	.23	1.22	3.68	2.32	1.64	2.99	.14	.42	.08	.11	12.92
1954	.05	.06	1.56	1.52	.75	1.82	1.60	.49	.10	.07	.02	.01	8.05
1955	.01	.02	.12	.36	1.35	.59	1.99	.31	.13	.31	.19	.03	5.41
1956	.02	.09	.24	.16	3.80	6.04	2.40	.25	.15	.46	.03	.05	13.69
1957	.11	.02	.20	.30	.41	.67	1.49	.23	.09	.06	.05	1.45	5.08
1958	.29	3.07	1.23	1.24	1.90	4.94	1.92	2.07	.76	5.59	.83	.49	24.33
1959	.54	.28	.41	1.24	1.92	1.07	.95	.53	.57	2.00	.15	.18	9.84
1960	.81	.68	.86	2.43	3.26	4.22	1.79	1.61	.14	.08	.93	.23	17.04

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	8,030	Mar. 28, 1951	0.9	66.1	1.27	17.30	61.2	16.01
1952	1234	1,480	May 19, 1952	.5	28.0	.539	7.32	25.6	6.71
1953	1274	1,670	Feb. 24, 1953	.6	49.4	.952	12.92	54.6	14.27
1954	1334	1,000	Mar. 28, 1954	.3	30.8	.593	8.05	25.0	6.53
1955	1384	1,370	Apr. 13, 1955	.3	20.7	.399	5.41	21.4	5.61
1956	1434	4,240	Mar. 15, 1956	.4	52.2	1.01	13.69	52.2	13.67
1957	1504	1,440	Apr. 4, 1957	.2	19.4	1.374	5.08	35.7	9.34
1958	1554	3,400	July 25, 1958	3.2	93.0	1.79	24.33	80.2	20.97
1959	1624	1,320	July 20, 1959	4.1	37.6	.724	9.84	41.9	10.96
1960	1704	1,490	Mar. 3, 1960	1.6	65.0	1.25	17.04	-	-

4770. Chickasawhay River at Enterprise, Miss.

Location.--Lat 32°10', long 88°49', in NW¼ 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.

Drainage area.--913 sq mi.

Records available.--August 1938 to September 1960. 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.--22 years (1938-60), 1,156 cfs.

Extremes.--1938-60: Maximum discharge, 33,500 cfs Jan. 8, 1950 (gage height, 33.10 ft); minimum, 18 cfs Sept. 25-30, 1954; minimum gage height, -1.05 ft Oct. 13-20, 23, 24, 1952, Aug. 30, 1957.

Maximum stage known, 37.2 ft in April 1900, from floodmark (from reports of U.S. Weather Bureau).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	199	433	1,614	1,759	3,365	4,144	2,610	379	241	140	72.8	79.9	1,240
1952	47.0	97.4	867	631	874	1,398	897	491	156	50.9	82.2	46.9	470
1953	25.8	93.9	224	1,064	3,015	2,485	1,477	3,755	195	452	141	86.2	1,076
1954	33.8	86.1	758	1,119	811	1,245	1,468	739	130	175	42.7	24.8	552
1955	35.8	62.9	214	582	1,960	540	2,030	252	154	587	407	82.2	564
1956	51.3	155	384	286	4,522	5,029	3,030	272	202	132	86.8	54.1	1,169
1957	52.5	55.9	399	502	798	936	2,052	393	235	155	58.4	724	525
1958	714	2,841	1,221	1,194	1,372	3,343	1,501	2,462	593	1,837	402	522	1,503
1959	345	317	461	1,483	2,000	1,225	1,333	430	789	793	395	305	815
1960	482	884	917	1,905	2,721	2,789	1,547	1,368	211	70.6	382	136	1,114

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.25	0.53	2.04	2.22	3.84	5.23	3.19	0.48	0.30	0.18	0.09	0.10	18.45
1952	.06	.12	1.09	.80	1.03	1.77	1.10	.62	.19	.06	.10	.06	7.00
1953	.03	.11	.28	1.34	3.44	3.14	1.81	4.74	.24	.57	.18	.11	15.99
1954	.04	.11	.96	1.41	.93	1.57	1.79	.93	.16	.22	.05	.03	8.20
1955	.05	.08	.27	.73	2.24	.68	2.48	.32	.19	.74	.51	.10	8.39
1956	.06	.19	.49	.36	5.34	6.35	3.70	.34	.25	.17	.11	.07	17.43
1957	.07	.07	.50	.63	.91	1.18	2.51	.50	.29	.20	.07	.89	7.82
1958	.90	3.47	1.54	1.51	1.56	4.22	1.83	5.11	.72	2.32	.51	.64	22.33
1959	.44	.39	.58	1.87	2.28	1.55	1.63	.54	.96	1.00	.50	.37	12.11
1960	.61	1.08	1.16	2.41	3.21	3.52	1.89	1.73	.26	.09	.48	.17	16.61

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,557	23.15
1951	1204	31,000	Mar. 30, 1951	40	1,240	1.36	18.45	1,136	16.90
1952	1234	3,950	Dec. 21, 1951	26	470	.515	7.00	413	6.15
1953	1234, 1334	12,800	May 2, 1953	23	1,076	1.18	15.99	1,121	16.68
1954	1334	5,840	Mar. 29, 1954	18	552	.605	8.20	504	7.49
1955	1384	9,000	Apr. 15, 1955	20	564	.618	8.39	587	8.73
1956	1434	33,200	Mar. 17, 1956	26	1,169	1.28	17.43	1,162	17.33
1957	1504	8,460	Apr. 8, 1957	23	525	.575	7.82	880	13.09
1958	1554	8,400	Mar. 8, 1958	99	1,503	1.65	22.33	1,200	17.83
1959	1624	5,590	Jan. 24, 1959	109	815	.893	12.11	912	13.55
1960	1704	7,660	May 8, 1960	47	1,114	1.22	16.61	-	-

4785. Chickasawhay River at Leakesville, Miss.

Location.--Lat 31°08', long 08°33', in SW $\frac{1}{4}$ 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 1960.

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.--22 years (1938-60), 3,639 cfs.

Extremes.--1938-60: Maximum discharge, 39,600 cfs Apr. 29, 1944 (gage height, 30.13 ft); minimum, 209 cfs Sept. 7-9, 1957; minimum gage height, 6.83 ft Sept. 9, 1957. Maximum stage known, 34.12 ft Apr. 12, 1938 (discharge, 68,800 cfs), from information by Corps of Engineers.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	712	884	2,782	3,825	7,676	7,140	14,670	1,626	1,131	779	458	608	3,481
1952	420	496	2,277	1,924	3,172	5,217	3,276	2,675	853	472	522	378	1,805
1953	227	381	1,016	3,566	6,377	9,008	4,855	10,470	1,041	1,879	840	513	5,341
1954	297	443	7,904	3,298	3,319	3,253	5,739	1,940	787	1,015	337	235	2,379
1955	246	326	515	2,052	3,933	1,783	6,383	1,426	682	997	1,549	389	1,669
1956	283	386	959	762	7,816	9,445	5,723	1,157	844	1,576	474	306	2,456
1957	297	275	1,050	957	1,536	1,831	4,700	1,843	749	800	375	3,334	1,470
1958	3,737	7,348	5,005	4,604	6,477	10,550	4,274	6,903	2,001	6,546	2,942	2,456	5,240
1959	1,305	913	1,384	3,064	6,200	4,157	4,706	1,982	5,733	2,311	1,577	1,505	2,873
1960	3,072	3,673	2,413	4,373	8,344	8,184	6,909	5,566	855	675	1,587	1,087	3,862

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.51	0.37	1.20	1.65	2.98	3.07	6.11	0.70	0.47	0.34	0.20	0.25	17.65
1952	.18	.21	.98	.83	1.28	2.24	1.36	1.15	.36	.20	.22	.16	9.17
1953	.10	.16	.44	1.53	2.48	3.88	2.02	4.50	.43	.81	.36	.21	16.92
1954	.13	.18	3.40	1.42	1.29	1.40	2.39	.83	.33	.44	.14	.10	12.05
1955	.11	.14	.22	.88	1.53	.77	2.66	.61	.28	.43	.67	.16	8.46
1956	.12	.16	.41	.33	3.15	4.06	2.38	.50	.35	.68	.20	.13	12.47
1957	.13	.11	.45	.41	.60	.79	1.96	.79	.31	.34	.16	1.39	7.44
1958	1.61	3.06	2.15	1.98	2.52	4.54	1.78	2.97	.83	2.82	1.27	1.02	26.55
1959	.66	.38	.60	1.32	2.41	1.79	1.96	.85	2.39	.99	.68	.63	14.56
1960	1.32	1.53	1.04	1.88	3.36	3.52	2.88	2.39	.36	.29	.60	.45	19.62

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	3,513	17.81
1951	1204	35,200	Apr. 4, 5, 1951	376	3,481	1.30	17.65	3,381	17.14
1952	1234	11,600	Mar. 6, 1952	268	1,805	.674	9.17	1,673	8.50
1953	1274	19,200	May 10, 11, 1953	210	3,341	1.25	16.92	3,937	19.93
1954	1334	16,000	Dec. 13, 1953	210	2,379	.888	12.05	1,738	8.81
1955	1384	18,600	Apr. 15, 1955	210	1,669	.623	8.46	1,715	8.68
1956	1434	23,200	Mar. 25, 1956	236	2,456	.916	12.47	2,455	12.47
1957	1504	12,400	Sept. 30, 1957	209	1,470	.549	7.44	2,679	13.57
1958	1554	15,300	Mar. 12, 1958	592	5,240	1.96	26.55	4,197	21.27
1959	1624	13,300	June 10, 1959	678	2,873	1.07	14.56	3,337	16.91
1960	1704	17,000	Apr. 6, 1960	457	3,862	1.44	19.62	-	-

4790. 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 and half a mile west of Merrill.

Drainage area.--6,600 sq mi, approximately.

Records available.--October 1930 to September 1960. Monthly discharge only for October and November 1930, published in WSP 1304. 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.--30 years (1930-60), 9,449 cfs.

Extremes.--1930-60: Maximum discharge, 154,000 cfs Apr. 13, 1938 (gage height, 29.71 ft); minimum, 696 cfs Nov. 3, 1936; minimum gage height, 2.33 ft Oct. 6, 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 31.0 ft, present datum (from reports of U.S. Weather Bureau).

Remarks.--Records of chemical analyses and water temperatures for the period August 1958 to September 1960 are published in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,245	2,290	5,945	8,934	18,830	16,530	30,430	3,581	3,457	2,962	1,811	2,338	8,176
1952	1,659	2,066	6,777	5,448	11,100	13,180	9,411	7,284	3,091	1,872	1,854	1,601	5,428
1953	896	1,358	5,517	9,014	15,700	22,160	14,210	27,540	3,242	5,618	5,225	2,193	9,025
1954	1,137	1,799	23,120	8,997	8,527	7,820	14,060	5,473	2,109	2,793	1,177	885	6,494
1955	936	1,082	1,598	5,965	10,680	4,671	19,110	4,083	2,142	3,320	6,374	1,428	5,061
1956	1,111	1,268	2,961	2,328	21,340	22,490	11,210	2,926	2,876	4,858	1,995	1,280	6,330
1957	1,417	1,128	3,868	2,659	4,180	4,971	13,270	6,147	2,672	3,105	1,606	11,000	4,647
1958	10,540	18,340	12,750	12,660	16,690	23,510	11,270	16,040	5,937	13,760	6,973	10,230	13,210
1959	4,577	2,784	3,753	8,067	16,910	10,790	13,060	5,800	18,010	5,944	4,282	3,798	8,062
1960	8,514	10,550	6,743	10,820	19,320	17,850	17,430	13,560	2,262	2,147	5,355	3,220	9,760

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.39	0.39	1.04	1.56	2.97	2.89	5.14	0.62	0.58	0.52	0.32	0.40	16.82
1952	.29	.35	1.18	.95	1.81	2.30	1.59	1.27	.52	.33	.32	.27	11.18
1953	.16	.23	.58	1.57	2.48	3.87	2.40	4.81	.55	.98	.56	.37	18.56
1954	.20	.30	.44	1.57	1.35	1.37	2.38	.96	.36	.49	.21	.15	13.38
1955	.16	.18	.28	1.04	1.69	.82	3.23	.71	.56	.58	1.11	.24	10.40
1956	.19	.21	.52	.41	3.49	3.93	1.90	.51	.49	.85	.35	.22	13.07
1957	.25	.19	.68	.46	.66	.87	2.24	1.07	.45	.54	.28	1.86	9.55
1958	1.84	3.10	2.23	2.21	2.63	4.11	1.90	2.80	1.00	2.40	1.22	1.73	27.17
1959	.80	.47	.66	1.41	2.67	1.88	2.21	1.01	3.04	1.04	.75	.64	16.58
1960	1.45	1.78	1.18	1.89	3.16	3.12	2.95	2.37	.38	.38	.94	.54	20.14

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year		
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Datum							
1950	-	-	-	-	-	-	-	9,190	-	18.90
1951	1204	71,800	Apr. 3, 4, 1951	1,520	8,176	1.24	16.82	8,178	-	16.82
1952	1234	25,200	Mar. 7, 1952	1,020	5,428	.822	11.18	5,010	-	10.33
1953	1274	54,100	May 10, 1953	835	9,025	1.37	18.56	10,760	-	22.13
1954	1334	44,000	Dec. 15, 1953	805	6,494	.984	13.38	4,591	-	9.46
1955	1384	52,900	Apr. 15, 1955	805	5,061	.767	10.40	5,207	-	10.70
1956	1434	42,000	Mar. 23, 1956	910	6,330	.959	13.07	6,422	-	13.27
1957	1504	34,400	Sept. 21, 22, 1957	925	4,647	.704	9.55	7,591	-	15.60
1958	1554	37,500	Nov. 20, 1957	1,900	13,210	2.00	27.17	10,670	-	21.93
1959	1624	51,800	June 2, 1959	2,100	8,062	1.22	16.58	9,272	-	19.06
1960	1704	44,400	Apr. 7, 1960	1,620	9,760	1.48	20.14	-	-	-

4792. Flint Creek near Wiggins, Miss.

Location.--Lat 30°50'40", long 89°04'30", in SE $\frac{1}{4}$ sec.27, T.2 S., R.11 W., St. Stephens meridian, near left bank on downstream side of bridge on State Highway 26, 0.6 mile upstream from Kirby Creek, 0.8 mile downstream from Bridge Creek, and 3.8 miles east of Wiggins.

Drainage area.--24.8 sq mi.

Records available.--Water years 1953-54 (annual maximum), August 1957 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 132.05 ft above mean sea level (Mississippi State Highway bench mark). Nov. 28, 1951, to Dec. 16, 1954, crest-stage gage at same site and datum.

Extremes.--1953-54, 1957-60: Maximum discharge, 3,320 cfs Sept. 18, 1957 (gage height, 16.17 ft).

1957-60: Minimum discharge, 15 cfs Aug. 28, 29, 1957; minimum gage height, 3.09 ft July 29, Sept. 13, 1960.

Flood in November 1948 reached a stage of 16.0 ft, from information by Mississippi Highway Department.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	-	-	106	-
1958	32.7	89.4	49.1	74.0	52.0	78.9	65.8	84.6	56.6	76.9	42.3	59.4	63.4
1959	31.1	32.3	32.6	45.2	90.1	71.1	53.8	52.1	115	50.9	36.8	45.6	54.4
1960	68.4	46.6	47.1	55.3	79.0	72.4	70.3	108	25.4	36.8	56.8	46.5	59.4

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1957	-	-	-	-	-	-	-	-	-	-	-	4.78	-
1958	1.52	4.02	2.28	3.44	2.18	3.67	2.96	3.93	2.55	3.57	1.96	2.63	34.71
1959	1.45	1.45	1.52	2.10	3.78	3.31	2.42	2.42	5.19	2.37	1.71	2.05	29.77
1960	3.18	2.09	2.19	2.57	3.44	3.37	3.16	5.03	1.14	1.71	2.64	2.09	32.61

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1953	-	#1,230	Apr. 25, 1953	-	-	-	-	-	-
1954	-	#721	Dec. 4, 1953	-	-	-	-	-	-
1957	1554	3,320	Sept. 18, 1957	-	-	-	-	-	-
1958	1554	880	Nov. 19, 1957	27	63.4	2.56	34.71	57.2	31.31
1959	1624	1,930	June 9, 1959	24	54.4	2.19	29.77	60.0	32.81
1960	1704	2,760	May 7, 1960	21	59.4	2.40	32.61	-	-

* Not previously published.

4793. Red Creek at Vestry, Miss.

Location.--Lat 30°44'10", long 88°46'50", in SW $\frac{1}{4}$ sec.34, T.3 S., R.8 W., St. Stephens meridian, near center of channel on downstream side of bridge on county highway, 0.5 mile north of Vestry and 1.1 miles upstream from Little Red Creek.

Drainage area.--416 sq mi.

Records available.--July 1958 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 20.10 ft above mean sea level, datum of 1929.

Extremes.--1958-60: Maximum discharge, 13,000 cfs May 9, 1960; minimum, 162 cfs July 2, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	1,038	983	-
1959	333	259	270	452	1,820	1,326	1,106	803	2,159	882	663	657	885
1960	1,302	696	703	944	1,544	802	1,548	1,891	201	456	927	828	966

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	3.04	2.64	-
1959	0.92	0.70	0.75	1.25	4.56	3.68	2.97	2.22	5.79	2.44	1.84	1.76	28.88
1960	3.61	1.87	1.95	2.62	4.00	2.22	4.15	5.24	.54	1.26	2.57	2.22	32.25

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1958	1624	4,890	Sept. 25, 1958	-	-	-	-	-	-
1959	1624	8,600	June 11, 1959	216	885	2.13	28.88	1,040	33.94
1960	1704	13,000	May 9, 1960	168	986	2.37	32.25	-	-

4795. Escatawpa River near Wilmer, Ala.

Location.--Lat 30°52', long 88°25', in NW $\frac{1}{4}$ 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 1960.

Gage.--Water-stage recorder. Altitude of gage is 60 ft (from topographic map).

Average discharge.--15 years (1945-60), 987 cfs.

Extremes.--1945-60: Maximum discharge, 30,000 cfs June 2, 1959 (gage height, 24.66 ft); minimum, 37 cfs Sept. 2-4, 1954.

Revisions.--Some periods for the water years 1948 and 1949 were revised in WSP 1624, the resulting revised records as summarized herewith supersede those published in WSP 1304.

Month	Mean	Per square mile	Runoff in inches	Momentary maximum		Minimum day
				Discharge	Date	
December 1947.....	2,955	-	6.74	-	-	-
Calendar year 1947.....	1,531	-	41.09	-	-	-
March 1948.....	3,712	-	8.46	-	-	-
Water year 1947-48.....	1,280	2.53	34.44	14,900	Mar. 7, 1948	-
November 1948.....	4,249	-	9.37	-	-	-
Calendar year 1948.....	1,403	-	37.74	-	-	-
Water year 1948-49.....	1,625	3.21	43.57	26,200	Nov. 28, 1948	-

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	236	180	770	686	1,081	2,728	2,110	243	640	264	140	245	774
1952	111	228	337	284	896	895	1,016	818	182	138	135	146	430
1953	64.8	99.6	579	1,056	2,124	1,344	1,699	729	161	562	846	216	782
1954	90.1	302	2,580	588	499	655	785	149	116	146	51.6	55.8	503
1955	71.0	109	177	943	1,132	208	3,747	542	227	715	1,333	200	778
1956	188	177	409	369	941	1,957	364	261	544	2,095	226	295	656
1957	504	187	2,003	624	689	690	1,844	980	593	3,001	1,036	2,633	1,006
1958	714	2,498	835	1,553	1,133	1,645	934	845	926	2,158	808	1,243	1,274
1959	357	247	281	604	2,024	1,497	1,420	1,018	4,442	828	765	983	1,193
1960	1,632	745	649	1,128	1,684	1,486	1,923	1,775	188	436	422	694	1,062

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.54	0.40	1.76	1.56	2.22	6.22	4.65	0.55	1.41	0.60	0.32	0.54	20.77
1952	.25	.50	.77	.65	1.91	2.04	2.24	1.86	.40	.31	.31	.32	11.56
1953	.15	.22	1.32	2.41	4.37	3.06	3.75	1.66	.35	1.28	1.93	.48	20.98
1954	.21	.67	5.86	1.34	1.03	1.49	1.73	.34	.26	.53	.12	.12	13.52
1955	.16	.24	.40	2.15	2.33	.48	8.28	1.24	.50	1.63	3.04	.44	20.87
1956	.43	.39	.93	.84	2.01	4.46	.85	.60	1.20	4.77	.51	.65	17.64
1957	1.15	.41	4.56	1.42	1.42	1.57	4.07	2.23	1.31	.68	2.36	5.81	28.99
1958	1.63	5.51	1.90	3.54	2.33	3.75	2.06	1.93	2.04	4.92	1.84	2.74	34.19
1959	.81	.64	.64	1.38	4.16	3.41	3.13	2.32	9.79	1.89	1.74	2.17	31.98
1960	3.72	1.64	1.48	2.57	3.59	3.39	4.24	4.04	.41	.99	.96	1.53	28.56

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	789	20.64
1951	1204	11,500	Mar. 31, 1951	94	774	1.53	20.77	731	19.59
1952	1234	6,280	May 20, 1952	72	430	1.55	11.56	731	11.73
1953	1274	5,200	Feb. 25, 1953	57	782	1.55	20.98	731	26.05
1954	1334	5,920	Dec. 8, 14, 1953	38	503	1.994	13.52	282	7.58
1955	1384	23,900	Apr. 14, 1955	47	778	1.54	20.87	813	21.82
1956	1434	13,900	July 11, 1956	68	656	1.30	17.64	818	22.01
1957	1504	14,800	Sept. 21, 1957	80	1,006	1.99	26.99	1,115	29.91
1958	1554	6,880	Nov. 15, 1957	167	1,274	2.52	34.19	1,012	27.14
1959	1624	30,000	June 2, 1959	173	1,193	2.36	31.98	1,373	36.83
1960	1704	14,600	May 7, 1960	95	1,082	2.10	28.56	-	-

PASCAGOULA RIVER BASIN

4796. Escatawpa River near Hurley, Miss.

Location.--Lat 30°37'45", long 88°26'00", in NE $\frac{1}{4}$ sec.12, T.5 S., R.5 W., St. Stephens meridian, near center of channel on downstream side of bridge on county highway, 1.7 miles downstream from Spring Creek and 4.2 miles southeast of Hurley.

Drainage area.--639 sq mi.

Records available.--July 1958 to December 1960.

Gage.--Water-stage recorder. Datum of gage is 15.14 ft above mean sea level, datum of 1929.

Extremes.--1958-60: Maximum discharge, 20,900 cfs June 3, 1959 (gage height, 16.25 ft); minimum, 252 cfs July 4, 1960; minimum gage height, 2.24 ft Sept. 15, 1960.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	1,342	1,480	-
1959	570	393	410	749	2,467	1,706	1,573	1,340	4,932	1,204	1,098	1,313	1,465
1960	1,962	1,031	854	1,462	2,156	1,400	2,605	2,088	315	583	897	891	1,334
1961	479	440	490	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1958	-	-	-	-	-	-	-	-	-	-	2.42	2.58	-
1959	1.03	0.69	0.74	1.35	4.02	3.08	2.75	2.42	8.61	2.17	1.98	2.29	31.13
1960	3.54	1.80	1.54	2.64	3.64	2.53	4.55	3.77	.55	1.05	1.26	1.56	28.43
1961	.86	.77	.88	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1958	1624	7,340	July 23, 1958	-	-	-	-	-	-
1959	1624	20,900	June 3, 1959	290	1,465	2.29	31.13	1,674	35.55
1960	1704	11,800	May 9, 1960	254	1,334	2.09	28.43	1,129	24.06

4805. Tuxachanie Creek near Biloxi, Miss.

Location.--Lat 30°31', long 88°55', in NW¼ sec.20, T.6 S., R.9 W., St. Stephens meridian, on downstream side of right pier of bridge on State Highway 57, 2½ miles upstream from mouth, 3½ miles downstream from Hog Branch, and 7 miles north of city limits of Biloxi.

Drainage area.--92.4 sq mi.

Records available.--October 1952 to September 1960.

Gage.--Water-stage recorder. Altitude of gage is 4 ft (from topographic map).

Average discharge.--8 years (1952-60), 188 cfs.

Extremes.--1952-60: Maximum discharge, 17,700 cfs Sept. 19, 1957 (gage height, 22.22 ft); minimum, 1.6 cfs Sept. 4, 5, 1954; minimum gage height, 0.71 ft July 2, 1960.
Flood occurring sometime during period 1907-9 reached a stage 1 ft higher than that of Sept. 19, 1957, from information by local resident.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	6.95	14.8	210	169	346	210	213	46.6	216	137	69.9	14.4	136
1954	5.07	46.8	372	72.8	31.8	64.9	31.9	9.14	5.58	25.4	4.52	5.34	56.8
1955	6.32	9.71	65.5	245	393	25.3	908	32.8	8.55	138	425	24.2	188
1956	35.0	14.8	80.3	91.4	211	282	54.7	8.77	153	102	25.1	246	106
1957	221	33.2	462	72.4	49.6	142	330	237	66.3	15.3	15.2	987	219
1958	126	347	165	304	177	574	190	612	197	660	264	186	319
1959	34.2	22.5	23.9	66.6	429	267	243	209	583	436	327	277	241
1960	478	108	64.3	357	341	220	300	246	10.2	56.9	398	266	237

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	0.09	0.18	2.62	2.11	3.90	2.62	2.57	0.58	2.60	1.72	0.87	0.17	20.03
1954	.06	.56	4.64	.91	.36	.81	.38	.11	.07	.32	.06	.06	8.34
1955	.08	.12	.82	3.06	4.43	.32	10.97	.41	.10	1.72	5.30	.29	27.62
1956	.44	.18	.75	1.14	2.46	3.51	.66	.11	1.85	1.27	.31	2.97	15.65
1957	2.75	.40	5.77	.90	.56	1.77	3.99	2.95	.80	.19	.19	11.92	32.19
1958	1.57	4.19	2.06	3.79	1.99	7.17	2.30	7.63	2.38	8.24	3.29	2.25	46.86
1959	3.43	.27	.30	.83	4.83	3.33	2.94	2.61	7.04	5.44	4.08	3.34	35.44
1960	5.96	1.30	.80	4.45	3.98	2.75	3.62	3.07	.12	.71	4.96	3.22	34.94

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	1274	3,400	June 28, 1953	-	136	1.47	20.03	153	22.40
1954	1334	2,110	Dec. 12, 1953	1.8	58.8	.615	8.34	27.9	4.10
1955	1384, 1504	10,700	Apr. 13, 1955	3.3	188	2.03	27.62	190	2.06
1956	1434	4,240	Sept. 24, 1956	3.8	106	1.15	15.65	158	23.20
1957	1504	17,700	Sept. 19, 1957	7.0	219	2.37	32.19	212	31.09
1958	1554	5,120	Mar. 6, 1958	24	319	3.45	46.86	273	40.04
1959	1624	5,190	June 9, 1959	14	241	2.61	35.44	289	42.50
1960	1704	4,240	Sept. 16, 1960	6.2	237	2.56	34.94	-	-

4810. 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 1960.

Gage.--Water-stage recorder. Datum of gage is 21.18 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Mississippi State Highway Department).

Average discharge.--8 years (1952-60), 180 cfs.

Extremes.--1952-60: Maximum discharge, 7,740 cfs Sept. 18, 1957 (gage height, 21.08 ft); minimum, 1.9 cfs Sept. 2-6, 14, 15, 1954; minimum gage height, 1.28 ft June 30, July 1, 1960.

Flood in 1948 reached a stage of 23.3 ft. from information by Mississippi State Highway Department. Floods in 1916 and in 1928 were approximately the same stage and were at least 8 $\frac{1}{2}$ ft higher than that of Sept. 18, 1957, at a point about 1 mile upstream, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	6	18.8	257	219	558	248	310	59.7	146	116	142	21.1	172
1954	4.35	109	498	128	69.6	96.7	81.0	12.7	9.80	100	7.05	5.35	94.2
1955	8.65	18.1	86.0	325	373	34.1	724	61.7	10.8	130	410	18.4	181
1956	11.1	18.7	53.2	60.6	201	246	55.8	7.92	311	97.5	29.6	237	110
1957	144	34.7	459	87.6	66.5	151	237	121	52.5	12.9	15.8	410	150
1958	107	346	181	356	189	470	197	407	232	430	171	223	277
1959	46.6	22.3	24.1	111	483	256	270	267	587	371	171	272	237
1960	352	119	92.2	298	417	194	323	206	7.85	93.1	279	231	217

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	0.07	0.21	3.01	2.57	5.91	2.90	3.52	0.70	1.65	1.37	1.66	0.24	23.81
1954	.05	1.24	5.84	1.50	.74	1.13	.92	.15	.11	1.17	.08	.06	12.99
1955	.10	.18	1.01	3.81	3.96	.40	8.22	.72	.12	1.52	4.81	.21	25.06
1956	.13	.19	.62	.71	2.21	2.88	.63	.09	3.53	1.14	.35	2.69	15.17
1957	1.69	.39	5.39	1.05	.70	1.77	2.69	1.42	.60	.15	.19	4.65	20.67
1958	1.26	3.93	2.12	4.18	2.00	5.51	2.24	4.77	2.64	5.04	2.01	2.53	38.23
1959	.55	.25	.28	1.30	5.11	3.00	3.07	3.13	6.66	4.35	2.00	3.08	32.78
1960	4.13	1.35	1.08	3.49	4.57	2.28	3.66	2.42	.09	1.09	3.27	2.63	30.06

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-
1953	1274	5,880	Apr. 25, 1953	-	172	1.75	23.81	200	27.65
1954	1334	2,470	Dec. 12, 1953	1.9	94.2	.958	12.99	51.9	7.15
1955	1384	7,460	Apr. 13, 1955	2.4	181	1.84	25.06	179	24.71
1956	1434	4,220	Sept. 24, 1956	2.8	110	1.12	15.17	157	21.70
1957	1504	7,740	Sept. 18, 1957	4.2	150	1.53	20.67	148	20.51
1958	1554	2,920	Jan. 21, July 22	11	277	2.82	38.23	232	32.00
1959	1624	5,120	June 9, 1959	12	237	2.41	32.78	277	38.26
1960	1704	5,120	Sept. 16, 1960	4.6	217	2.21	30.06	-	-

4820. Pearl River at Edinburg, Miss.

Location.--Lat 32°47', long 89°20', in SW $\frac{1}{4}$ 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 $\frac{1}{2}$ miles north-east of Carthage.

Drainage area.--898 sq mi.

Records available.--August 1928 to September 1960. 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.--32 years (1928-60), 1,039 cfs.

Extremes.--1928-60: Maximum discharge, 31,400 cfs Mar. 8, 1935; maximum gage height, 26.30 ft Feb. 16, 1950; minimum discharge, 1.7 cfs Oct. 5, 1954 (gage height, 1.02 ft). Maximum stage known, 29.0 ft Mar. 1, 1902, from reports of U.S. Weather Bureau.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	137	365	1,040	2,096	3,953	3,422	3,627	392	115	114	67.6	44.1	1,262
1952	31.6	82.2	653	643	1,172	1,531	1,142	165	98.8	48.8	42.5	18.4	467
1953	7.11	18.1	95.1	1,305	2,729	2,890	900	3,579	79.9	256	76.6	25.9	991
1954	7.58	9.63	169	1,148	892	528	1,534	1,125	43.7	110	16.0	6.01	447
1955	8.10	38.7	127	776	2,107	1,844	3,122	421	458	271	221	23.9	771
1956	14.3	81.9	183	105	4,670	2,986	3,878	179	159	33.8	17.9	8.90	1,007
1957	36.6	33.8	496	577	1,558	1,470	2,846	397	366	418	41.9	161	691
1958	371	1,972	1,440	1,124	1,948	2,526	1,564	3,807	749	765	272	306	1,402
1959	622	508	546	1,646	2,943	1,476	1,777	436	670	259	167	148	918
1960	356	433	557	2,370	3,930	4,298	1,345	383	51.7	24.2	98.8	42.5	1,150

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.18	0.45	1.33	2.89	4.58	4.39	4.51	0.50	0.14	0.15	0.09	0.05	19.06
1952	.04	.10	.84	.83	1.41	1.97	1.42	.21	.12	.06	.05	.02	7.07
1953	.009	.02	.12	1.68	3.16	3.71	1.12	4.59	.10	.33	.10	.03	14.97
1954	.009	.01	.22	1.47	1.03	.68	1.66	1.44	.05	.14	.02	.007	6.74
1955	.01	.05	.16	1.00	2.44	2.37	3.88	.54	.54	.35	.28	.03	11.65
1956	.02	.10	.24	.13	5.61	3.83	4.82	.23	.20	.04	.02	.01	15.25
1957	.05	.04	.64	.74	1.81	1.89	3.54	.51	.45	.54	.05	.20	10.46
1958	.48	2.45	1.85	1.44	2.26	3.24	1.94	4.89	.93	.98	.35	.58	21.19
1959	.80	.63	.70	2.11	3.41	1.90	2.21	.56	.83	.33	.21	.18	13.87
1960	.46	.54	.71	3.04	4.72	5.52	1.67	.49	.06	.03	.13	.05	17.42

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	1,541	23.28
1951	1204	22,400	Mar. 31, 1951	18	1,282	1.41	19.06	1,197	18.08
1952	1234	2,550	Mar. 18, 1952	8.0	467	1.520	7.07	412	6.24
1953	1274	9,000	May 4, 1953	5.8	991	1.10	14.97	996	15.06
1954	1334	2,830	Jan. 27, 1954	2.4	447	.498	6.74	445	6.72
1955	1384	8,750	Apr. 16, 1955	2.2	771	.859	11.65	780	11.79
1956	1434	14,700	Apr. 9, 1956	2.3	1,007	1.12	15.25	1,031	15.62
1957	1504	9,550	Apr. 7, 1957	3.1	691	.769	10.46	959	14.51
1958	1554	11,600	May 5, 1958	26	1,402	1.56	21.19	1,227	18.54
1959	1624	5,800	Feb. 15, 1959	44	918	1.02	13.87	890	13.45
1960	1704	12,600	Mar. 6, 1960	9.7	1,150	1.28	17.42	-	-

4825. 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 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Wire-weight and crest-stage gages. 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.--23 years (1937-60), 391 cfs.

Extremes.--1937-60: 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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	240	307	430	868	1,848	1,901	1,003	215	74.4	64.9	32.1	37.4	577
1952	26.5	74.9	267	253	389	523	434	101	38.6	20.0	27.7	15.5	180
1953	10.8	33.0	78.9	576	1,009	844	334	1,832	35.6	123	26.9	16.6	408
1954	13.5	22.8	156	540	481	357	265	569	48.6	73.0	12.5	7.71	210
1955	11.3	56.1	86.1	336	710	571	1,420	237	122	139	90.0	19.6	312
1956	15.1	84.7	131	57.5	1,697	959	1,244	172	124	30.6	19.2	9.95	372
1957	24.7	39.9	618	331	780	700	935	105	152	203	73.6	72.6	333
1958	174	915	537	550	706	922	776	1,241	271	578	124	247	584
1959	324	198	186	462	930	566	846	201	291	130	80.6	58.7	351
1960	112	105	312	860	1,330	1,366	262	284	52.0	21.1	38.1	29.2	396

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.88	1.09	1.58	3.20	6.15	7.00	3.58	0.79	0.27	0.24	0.12	0.13	25.03
1952	.10	.27	.98	.93	1.34	1.93	1.55	.37	.14	.07	.10	.06	7.84
1953	.04	.12	.29	2.12	3.36	3.11	1.19	6.75	.13	.45	.10	.06	17.72
1954	.05	.08	.57	1.99	1.53	1.32	.94	2.10	.17	.27	.05	.03	9.10
1955	.04	.20	.32	1.24	2.36	2.10	5.06	.87	.43	.51	.33	.07	13.53
1956	.06	.30	.48	.21	5.85	3.53	4.44	.63	.44	.11	.07	.04	16.16
1957	.09	.14	2.28	1.22	2.60	2.58	3.33	.39	.54	.75	.27	.28	14.45
1958	.64	3.26	1.98	1.95	2.35	3.39	2.77	4.57	.97	2.13	.45	.88	25.34
1959	1.19	.70	.68	1.70	3.09	2.08	3.02	.74	1.04	.48	.30	.21	15.23
1960	.41	.37	1.15	3.17	4.58	5.03	.93	1.04	.19	.08	.14	.10	17.19

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	574	24.88
1951	1204	19,100	Mar. 29, 1951	18	577	1.84	25.03	526	22.83
1952	1234	1,300	Mar. 12, 1952	9.5	180	1.575	7.84	659	6.94
1953	1274	7,880	May 5, 1953	8.2	408	1.30	17.72	414	17.97
1954	1334	3,660	May 6, 1954	7.1	210	.671	9.10	206	8.96
1955	1384	8,320	Apr. 14, 1955	7.1	312	.997	13.53	319	13.81
1956	1434	6,880	Apr. 7, 1956	6.6	372	1.19	16.16	410	17.83
1957	1504	4,820	Apr. 5, 1957	7.4	333	1.06	14.45	411	17.82
1958	1554	7,460	May 2, 1958	22	584	1.87	25.34	508	22.03
1959	1624	3,600	Apr. 22, 1959	30	351	1.12	15.23	337	14.59
1960	1704	6,640	Mar. 4, 1960	15	396	1.27	17.19	-	-

4830. Tuscolameta Creek at Walnut Grove, Miss.

Location.--Lat 32°35', long 89°28', in NW¼ 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, 7½ miles upstream from junction of north and south drainage canals, and 15½ miles upstream from mouth.

Drainage area.--411 sq mi (combined drainage area for all channels).

Records available.--October 1938 to September 1960. Monthly discharge only for October to December 1938, published in WSP 1304.

Gage.--Water-stage recorder. 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, 1 mile south of north canal gage. Prior to Nov. 24, 1943, staff gage and Nov. 24, 1943, to Oct. 21, 1959, water-stage recorder, on south canal at site 1,800 ft downstream, all at same datum. Datum of gages is 332.70 ft above mean sea level, datum of 1923, supplementary adjustment of 1941 (levels by Corps of Engineers).

Average discharge.--22 years (1938-60), 464 cfs.

Extremes.--1938-60: 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), 2.4 cfs Oct. 2, 1954.

Prior to canalization, creek reached a stage of 24.5 ft, from floodmark, sometime between 1920 and 1925.

Remarks.--Discharge computed by combining the flow of individually rated low-water channels except when discharge in north canal exceeds about 1,700 cfs or that in south canal exceeds about 650 cfs, during which periods discharge is determined from combined stage-discharge relation for all channels referred to gage on north canal.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	54.6	106	497	871	1,514	1,790	745	58.5	40.9	80.2	15.6	17.7	477
1952	12.9	24.9	194	235	391	460	254	80.2	35.7	17.6	18.3	8.85	144
1953	6.49	13.4	66.3	748	1,840	985	570	1,372	18.8	150	15.4	12.0	476
1954	6.55	9.20	90.7	451	292	482	545	492	26.1	198	17.8	4.13	216
1955	4.53	24.5	252	426	1,420	229	1,361	53.7	40.7	187	100	16.5	334
1956	6.90	42.1	118	132	2,654	1,763	1,582	39.4	24.6	13.2	9.00	7.11	522
1957	8.83	11.2	165	192	326	410	1,593	229	126	67.5	33.3	245	281
1958	227	1,657	509	587	593	1,325	680	1,218	761	585	212	194	712
1959	214	127	163	832	1,098	608	483	440	302	79.1	50.7	62.5	367
1960	104	160	241	823	1,038	1,259	517	525	35.1	15.0	178	21.7	409

† Corrected.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.15	0.29	1.39	2.44	3.84	5.02	2.02	0.16	0.11	0.22	0.04	0.05	15.73
1952	.04	.07	.54	.66	1.03	1.29	.69	.23	.10	.05	.05	.02	4.77
1953	.02	.04	.19	2.10	4.66	2.76	1.55	3.85	.05	.42	.04	.03	15.71
1954	.02	.02	.25	1.21	.74	1.35	1.48	1.38	.07	.55	.05	.01	7.13
1955	.01	.07	.71	1.20	3.60	.64	3.70	.15	.11	.53	.28	.04	11.04
1956	.02	.11	.33	.37	6.96	4.95	4.30	.11	.07	.04	.03	.02	17.31
1957	.02	.03	.46	.54	.83	1.15	4.32	.64	.34	.19	.09	.66	9.27
1958	.64	4.50	1.43	1.65	1.50	3.72	1.85	3.42	2.06	1.64	.59	.53	23.53
1959	.60	.34	.46	2.33	2.78	1.71	1.31	1.23	.82	.22	.14	.17	12.11
1960	.29	.43	.67	2.31	2.73	3.53	1.40	1.47	.10	.04	.50	.06	13.53

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	723	23.88
1951	1204	14,800	Mar. 30, 1951	6.9	477	1.16	15.73	441	14.55
1952	1234	2,290	Mar. 11, 1952	5.9	144	1.350	4.77	131	4.37
1953	1274	8,220	May 1, 1953	4.4	476	1.16	15.71	477	15.75
1954	1334	4,040	Apr. 18, 1954	3.4	216	.526	7.13	231	7.63
1955	1384	12,100	Apr. 14, 1955	2.7	334	.813	11.04	324	10.71
1956	1434	16,500	Mar. 17, 1956	2.9	522	1.27	17.31	524	17.36
1957	1504	11,200	Apr. 5, 1957	5.2	281	1.684	9.27	464	15.33
1958	1554	8,400	May 1, 1958	8.6	712	1.73	23.53	556	18.36
1959	1624	2,850	Jan. 22, 1959	16	367	.893	12.11	367	12.10
1960	1704	7,200	Mar. 4, 1960	9.6	409	.995	13.53	-	-

4835. Pearl River near Lena, Miss.

Location.--Lat 32°40', long 89°38', in SW $\frac{1}{4}$ sec.36, T.10 N., R.6 E., Choctaw meridian, near center of span on upstream side of bridge on county road, three-quarters of a mile downstream from Tuscolameta Creek, $\frac{3}{4}$ miles upstream from Yockanookany River, 6 miles north of Lena, and 8 miles southwest of Carthage.

Drainage area.--1,995 sq mi.

Records available.--October 1936 to September 1953. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Wire-weight and crest-stage gages. Datum of gage is 299.50 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 26, 1949, staff gage at same site and datum.

Average discharge.--17 years (1936-53), 2,371 cfs.

Extremes.--1936-53: Maximum discharge, 46,500 cfs Jan. 8, 1950 (gage height, 28.56 ft); minimum, about 40 cfs Aug. 27, 28, 1943 (occurred during period of doubtful gage-height record).

Maximum stage known, 30.4 ft in March 1902 (from information by Corps of Engineers).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	921	1,030	2,195	3,951	8,972	6,870	8,091	1,079	330	395	231	150	2,806
1952	121	185	1,366	1,227	2,502	2,919	2,196	662	339	158	164	85.5	989
1953	60.1	102	331	2,767	5,871	6,281	2,065	9,072	352	717	247	110	2,320

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.53	0.58	1.27	2.28	4.68	3.97	4.52	0.62	0.18	0.23	0.13	0.08	19.07
1952	.07	.10	.79	.71	1.35	1.69	1.23	.38	.19	.09	.10	.05	6.75
1953	.03	.06	.19	1.60	3.06	3.63	1.15	5.24	.20	.41	.14	.06	15.77

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	3,407	23.19
1951	1204	41,500	Mar. 31, 1951	100	2,806	1.41	19.07	2,598	17.65
1952	1234	4,990	Mar. 14, 1952	67	989	.496	6.75	889	6.07
1953	1274	20,200	May 7, 1953	52	2,320	1.16	15.77	-	-

4840. Yockanookany River near Kosciusko, Miss.

Location.--Lat 33°02', long 89°35', in NE $\frac{1}{4}$ NE $\frac{1}{4}$ 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 1960. Prior to October 1947, published as Yockanookany River near Kosciusko.

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.--22 years (1938-60), 395 cfs.

Extremes.--1938-60: 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).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	365	510	513	1,256	2,318	2,457	1,068	219	59.3	85.5	24.5	25.9	734
1952	18.5	71.7	667	354	535	528	416	102	29.0	17.3	27.8	10.1	231
1953	8.72	25.7	75.4	722	1,196	524	327	1,655	19.8	269	21.7	13.4	402
1954	10.4	15.3	114	700	454	340	257	928	27.5	25.9	5.79	4.56	240
1955	9.96	54.3	95.5	387	746	539	1,278	126	52.5	89.7	63.4	9.23	283
1956	9.46	77.0	49.8	49.4	1,609	927	923	132	36.2	18.3	14.6	6.28	315
1957	23.9	28.0	735	541	953	700	579	37.9	305	189	29.0	35.3	341
1958	97.0	1,536	417	461	579	758	824	1,206	94.6	346	60.9	56.7	535
1959	45.4	234	101	332	687	632	1,047	164	201	131	52.0	97.6	322
1960	92.2	196	516	874	1,295	1,321	258	320	31.2	17.9	39.5	22.3	414

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.34	1.81	1.88	4.61	7.69	9.02	3.87	0.80	0.21	0.31	0.09	0.09	31.72
1952	.07	.25	2.45	1.30	1.84	1.94	1.48	.37	.10	.06	.10	.04	10.00
1953	.03	.09	.28	2.65	3.97	1.92	1.16	6.08	.07	.99	.08	.05	17.37
1954	.04	.05	.42	2.57	1.51	1.25	.91	3.41	.10	.10	.02	.02	10.40
1955	.04	.19	.35	1.42	2.47	1.98	4.54	.46	.19	.33	.23	.05	12.23
1956	.03	.27	.18	.18	5.53	3.40	3.28	.48	.13	.07	.05	.02	13.62
1957	.09	.10	2.70	1.99	3.09	2.57	2.06	.14	1.08	.69	.11	.13	14.75
1958	.36	5.46	1.53	1.69	1.92	2.78	2.93	4.43	.34	1.27	.22	.20	23.13
1959	.17	.83	.37	1.22	2.94	2.32	3.72	.60	.71	.48	.19	.35	13.90
1960	.34	.70	1.90	3.21	4.45	4.85	.92	1.17	.11	.07	.15	.08	17.95

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	649	28.04
1951	1204	19,300	Mar. 29, 1951	9.5	734	2.34	31.72	682	29.46
1952	1234	3,020	Dec. 22, 1951	7.0	231	.736	10.00	176	7.63
1953	1274	6,250	May 7, 1953	6.5	402	1.28	17.37	404	17.48
1954	1334	6,850	May 5, 1954	3.8	240	.764	10.40	242	10.47
1955	1394	6,250	Apr. 13, 1955	4.2	283	.901	12.23	261	12.13
1956	1434	5,430	Mar. 16, 1956	3.5	315	1.00	13.62	370	16.03
1957	1504	4,020	Feb. 3, 1957	3.4	341	1.09	14.75	444	19.21
1958	1554	6,880	Nov. 16, 1957	13	535	1.70	23.13	397	17.15
1959	1624	4,540	Apr. 22, 1959	15	322	1.03	13.90	358	15.47
1960	1704	6,130	Mar. 5, 1960	7.2	414	1.32	17.95	-	-

4845. Yockanookany River near Ofahoma, Miss.

Location.--Lat 32°42', long 89°40', in NE¹/₄ 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.

Drainage area.--484 sq mi.

Records available.--October 1943 to September 1960. Prior to October 1947, published as Yockanookany River near Ofahoma.

Gage.--Wire-weight and crest-stage gages. Datum of gage is 311.15 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Prior to July 1, 1944, staff gage at same site and datum.

Average discharge.--17 years (1943-60), 649 cfs.

Extremes.--1943-60: Maximum discharge, 20,700 cfs Mar. 31, 1951 (gage height, 20.28 ft); minimum, 4.9 cfs Aug. 20, Sept. 11, 1954; minimum gage height, 3.00 ft Oct. 11, 12, 1943.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	837	617	625	1,618	3,055	2,849	2,160	317	79.3	110	51.0	42.0	1,017
1952	28.1	73.2	718	390	802	757	548	125	72.0	22.0	31.6	18.0	297
1953	11.2	29.2	85.7	879	1,752	1,171	342	2,869	38.2	230	37.7	28.0	619
1954	13.0	17.9	173	826	605	489	426	1,192	49.9	39.6	9.20	7.46	320
1955	13.4	75.5	63.8	582	1,039	841	1,978	157	109	170	115	16.7	424
1956	10.6	72.3	110	62.8	2,720	1,680	1,879	304	65.1	29.3	24.5	9.69	570
1957	28.2	45.0	959	548	1,554	966	1,190	90.4	203	364	67.1	54.9	899
1958	128	1,807	799	762	862	1,101	1,004	2,582	161	434	168	137	429
1959	108	268	168	515	1,371	909	1,566	293	298	194	61.2	102	480
1960	102	184	648	1,227	2,091	2,144	358	534	70.7	25.2	93.8	34.3	623

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1.99	1.42	1.49	3.85	6.57	6.79	4.98	0.75	0.18	0.26	0.12	0.10	28.50
1952	.07	.17	1.71	.93	1.79	1.80	1.26	.30	.17	.05	.08	.04	8.37
1953	.03	.07	.20	2.09	3.77	2.79	.79	6.83	.09	.55	.09	.06	17.36
1954	.03	.04	.41	1.97	1.30	1.16	.98	2.84	.12	.09	.02	.02	8.98
1955	.03	.17	.15	1.39	2.24	2.00	4.56	.37	.25	.41	.27	.04	11.88
1956	.03	.17	.26	.15	6.06	4.00	4.33	.72	.15	.07	.06	.02	16.02
1957	.07	.10	2.28	1.30	3.34	2.30	2.74	.22	.47	.87	.16	.13	13.98
1958	.30	4.17	1.90	1.81	1.85	2.62	2.32	6.15	.37	1.03	.40	.32	23.24
1959	.26	.62	.40	1.23	2.95	2.16	3.61	.70	.69	.46	.15	.24	13.47
1960	.24	.42	1.54	2.92	4.66	5.11	.83	1.27	.16	.06	.22	.08	17.51

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	898	25.17
1951	1204	20,700	Mar. 31, 1951	25	1,017	2.10	28.50	911	25.55
1952	1234	1,590	Feb. 4, 1952	12	297	.614	8.37	239	6.72
1953	1274	8,920	May 5, 1953	8.4	619	1.28	17.36	626	17.54
1954	1354	5,900	May 7, 1954	5.3	320	.661	8.98	316	8.85
1955	1384	6,320	Apr. 15, 1955	6.5	424	.976	11.88	427	11.99
1956	1434	6,540	Mar. 17, 1956	7.0	570	1.18	16.02	641	18.01
1957	1504	4,700	Feb. 6, 1957	7.3	499	1.03	13.98	638	17.90
1958	1554	9,220	May 3, 1958	29	829	1.71	23.24	647	18.15
1959	1624	5,520	Apr. 25, 1959	31	480	.992	13.47	513	14.39
1960	1704	6,320	Mar. 5-7, 1960	16	623	1.29	17.51	-	-

4850. 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 northwest (revised) of Goshen Springs, $\frac{5}{8}$ miles upstream from Mill Creek, 9 miles southeast of Canton, and 10 miles downstream from Fannegusha Creek.

Drainage area.--2,780 sq mi, approximately.

Records available.--October 1938 to September 1960. Monthly discharge only for some periods, published in WSP 1304.

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.--22 years (1938-60), 3,244 cfs.

Extremes.--1938-60: Maximum discharge, 57,800 cfs Apr. 2, 1951 (gage height, 26.30 ft); minimum, 72 cfs Oct. 10, 11, 12, 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.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,469	1,520	3,077	6,165	13,200	7,616	15,330	1,981	479	567	347	219	4,257
1952	206	301	1,894	1,762	5,379	3,972	2,927	932	526	200	249	129	1,372
1953	90.8	133	388	3,434	6,818	9,671	2,614	13,920	644	993	411	172	3,271
1954	104	108	569	2,806	3,383	1,970	3,246	4,124	385	539	145	85.1	1,445
1955	83.8	236	375	2,731	6,053	4,713	11,050	1,109	1,221	1,047	1,098	214	2,458
1956	112	280	713	456	13,370	9,909	11,830	1,094	505	254	165	102	3,176
1957	113	159	1,937	1,850	4,626	4,417	9,413	1,361	984	1,553	458	569	2,258
1958	1,185	6,665	4,826	3,798	5,152	7,950	4,359	13,590	3,048	5,546	1,762	1,057	4,735
1959	1,728	1,092	1,508	3,821	8,036	4,513	5,206	2,722	2,306	863	573	593	2,691
1960	753	866	2,114	5,547	10,570	11,970	3,501	2,604	427	193	615	304	3,271

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.61	0.61	1.28	2.56	4.94	3.16	6.15	0.82	0.19	0.24	0.14	0.09	20.79
1952	.09	.12	.79	.73	1.31	1.65	1.17	.41	.21	.08	.10	.05	6.71
1953	.04	.05	.16	1.42	2.55	4.01	1.05	5.77	.28	.41	.17	.07	15.96
1954	.04	.04	.24	1.16	1.27	.82	1.30	1.71	.15	.22	.06	.03	7.04
1955	.03	.09	.16	1.13	2.27	1.95	4.44	.46	.49	.43	.46	.09	12.00
1956	.05	.10	.30	.19	5.19	4.11	4.75	.45	.20	.11	.07	.04	15.56
1957	.05	.06	.80	.75	1.73	1.83	3.78	.56	.39	.64	.19	.23	11.01
1958	.49	2.67	1.92	1.58	1.93	3.30	1.75	5.64	1.22	1.47	.73	.42	23.12
1959	.72	.44	.54	1.58	3.01	1.87	2.09	1.13	.93	.36	.24	.24	13.15
1960	.31	.35	.88	2.30	4.10	4.96	1.41	1.08	.17	.08	.26	.12	16.02

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	4,880	23.84
1951	1204	57,800	Apr. 2, 1951	174	4,257	1.53	20.79	3,949	19.29
1952	1234	6,220	Mar. 14, 1952	109	1,372	.494	6.71	1,221	5.96
1953	1274	27,500	May 8, 1953	84	3,271	1.18	15.96	3,285	16.03
1954	1334	9,920	May 9, 1954	73	1,445	.520	7.04	1,437	7.00
1955	1364	28,600	Apr. 18, 1955	72	2,458	.884	12.00	2,491	12.17
1956	1434	29,200	Apr. 11, 1956	77	3,176	1.14	15.56	3,270	16.02
1957	1504	23,400	Apr. 9, 1957	78	2,258	.812	11.01	3,113	15.18
1958	1554	39,400	May 6, 1958	236	4,735	1.70	23.12	4,041	19.74
1959	1704	13,500	Feb. 18, 1959	288	2,691	.968	13.15	2,658	12.99
1960	1704	22,400	Mar. 9, 1960	149	3,271	1.18	16.02	-	-

4855. 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, near right bank 200 ft downstream from new bridge on State Highway 471, 2.2 miles downstream from Clark Creek, 2.2 miles south of Fannin, and 7.5 miles upstream from mouth.

Drainage area.--205 sq mi.

Records available.--October 1950 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 279.31 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark). Prior to July 6, 1951, wire-weight and crest-stage gages at same site and datum.

Average discharge.--10 years (1950-60), 216 cfs.

Extremes.--1950-60: Maximum discharge, 13,500 cfs Apr. 13, 1955 (gage height, 22.08 ft); no flow at times.

Maximum stage known since at least 1880, about 23.7 ft in January 1950, from information by local residents.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	\$5.0	\$10	\$30	321	997	907	612	10.8	4.20	33.2	3.51	524	\$240
1952	10.9	3.87	40.3	80.4	115	218	101	70.5	8.55	2.24	11.2	2.44	55.3
1953	2.67	.15	11.7	263	1,088	535	395	1,168	4.21	86.4	15.2	2.77	294
1954	0	0	19.4	225	147	260	131	294	6.53	1.24	.25	.03	90.4
1955	0	.047	50.7	148	889	64.9	984	30.7	3.97	204	65.9	58.3	204
1956	6.84	36.6	113	43.1	1,164	826	739	13.8	4.03	1.45	21.8	2.16	243
1957	.11	2.16	35.7	72.3	60.6	227	952	181	169	24.0	5.88	192	159
1958	123	1,110	350	389	307	702	304	689	562	444	88.2	82.1	429
1959	510	26.2	46.1	370	646	265	295	233	64.1	57.3	20.4	47.0	196
1960	25.9	61.1	359	492	751	866	71.9	285	5.11	4.78	96.2	9.71	252

* Not previously published; estimated on basis of records for Strong River at Dio.

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	\$0.03	\$0.05	\$0.17	1.80	5.07	5.10	3.33	0.06	0.02	0.19	0.02	0.03	\$15.87
1952	.06	.02	.23	1.45	.61	1.23	.55	.40	.05	.01	.06	.01	3.68
1953	.02	.0008	.07	1.48	5.53	3.01	2.15	6.57	.02	.50	.09	.02	19.46
1954	0	0	.11	1.26	.75	1.46	.71	1.65	.04	.007	.001	.0001	5.99
1955	0	.0003	.29	.83	4.52	.56	5.36	.17	.02	1.15	.48	.32	13.50
1956	.04	.20	.64	.24	6.12	4.64	4.02	.08	.02	.008	.12	.01	16.14
1957	.0008	.01	.20	.41	.31	1.28	5.18	1.02	.92	.13	.03	1.05	10.54
1958	.69	6.04	1.97	2.19	1.56	3.95	1.65	3.87	3.06	2.50	.50	.45	28.43
1959	1.75	.14	.26	2.08	3.28	1.49	1.61	1.31	.35	.32	.11	.26	12.96
1960	.15	.33	2.02	2.77	3.95	4.87	.39	1.61	.03	.03	.54	.05	16.74

* Not previously published; estimated on basis of records for Strong River at Dio.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	-	-
1951	1204	8,500	Mar. 30, 1951	0.4	\$240	\$1.17	\$15.87	241	15.93
1952	1234	1,240	Mar. 12, 1952	.2	55.3	.270	3.68	51.9	3.46
1953	1274	7,900	Apr. 30, 1953	0	294	1.43	19.46	294	19.48
1954	1334	2,200	Mar. 30, 1954	0	90.4	.441	5.99	93.1	6.17
1955	1384	13,500	Apr. 13, 1955	0	204	.995	13.50	213	14.09
1956	1434	10,800	Feb. 4, 1956	.1	243	1.19	16.14	233	15.47
1957	1504	12,800	Apr. 5, 1957	.1	159	.776	10.54	287	19.03
1958	1554	5,860	May 1, 1958	3.4	429	2.09	28.43	330	21.88
1959	1624	4,050	Oct. 2, 1958	3.3	196	.956	12.96	201	13.31
1960	1704	6,620	Mar. 3, 1960	1.4	252	1.23	16.74	-	-

* Not previously published.

4860. 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 October 1901 and for 1913, gage heights only), August 1928 to September 1960. 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.--43 years (1901-12, 1928-60), 3,770 cfs.

Extremes.--1901-13, 1928-60: Maximum discharge, 80,800 cfs Apr. 1, 1902 (gage height, 37.2 ft), from rating curve extended above 57,000 cfs by logarithmic plotting; minimum daily, 45 cfs Oct. 5, 1956, affected by closure of low-head dam at Jackson pumping plant, 6 miles upstream; minimum daily discharge unaffected by dam closure, 78 cfs Oct. 11, 1954; minimum gage height, 0.20 ft Nov. 4, 5, 1911.

According to information by local residents and from newspaper records, the flood of Dec. 5, 1880, reached a stage of about 36 ft and the flood of Apr. 18-20, 1900, the highest known at that time, reached a stage of 36.0 ft.

Remarks.--About 20 cfs diverted upstream from station for municipal water supply for city of Jackson, most of which is returned to river and is included in discharge records. Records of water temperatures for period January 1954 to September 1956, are given in reports of the Geological Survey.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,461	1,527	3,209	7,212	16,160	8,331	17,680	2,368	529	665	417	259	4,895
1952	242	325	1,912	1,792	3,619	4,505	3,127	1,351	620	221	297	167	1,508
1953	108	158	505	4,111	8,510	13,020	3,396	18,440	740	1,008	501	204	4,208
1954	105	117	659	3,017	3,870	2,174	3,815	5,684	472	569	182	110	1,719
1955	94.5	256	351	2,842	6,568	5,116	13,430	1,266	1,308	1,447	1,302	278	2,613
1956	147	285	851	491	14,650	12,100	13,430	1,336	629	291	230	118	3,653
1957	119	167	1,975	2,065	4,672	4,614	11,260	1,643	1,359	1,898	503	882	2,587
1958	1,597	8,321	6,585	4,820	5,996	8,995	4,848	16,170	4,087	3,782	2,174	1,236	5,710
1959	2,401	1,043	1,457	4,534	9,379	5,061	5,238	3,470	2,544	1,134	627	694	3,089
1960	857	976	3,013	6,461	11,490	13,960	3,415	3,275	471	232	946	446	3,781

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.55	0.55	1.19	2.68	5.43	3.10	6.36	0.88	0.19	0.25	0.16	0.09	21.43
1952	.09	.12	.71	.67	1.26	1.68	1.13	.50	.22	.08	.11	.06	6.63
1953	.04	.06	.19	1.53	2.79	4.84	1.22	6.86	.27	.37	.19	.07	18.43
1954	.04	.04	.24	1.12	1.30	.81	1.37	2.11	.17	.21	.07	.04	7.52
1955	.04	.09	.12	1.06	2.21	1.90	4.83	.47	.47	.54	.48	.10	12.31
1956	.05	.10	.31	.18	5.10	4.50	4.83	.50	.23	.11	.09	.04	16.04
1957	.04	.06	.73	.77	1.57	1.79	4.05	.61	.49	.71	.19	.32	11.33
1958	.59	2.99	2.45	1.72	2.01	3.35	1.74	6.01	1.47	1.41	.81	.44	24.99
1959	.89	.36	.54	1.69	3.15	1.88	1.89	1.29	.92	.42	.23	.25	13.53
1960	.32	.35	1.12	2.40	4.00	5.19	1.23	1.22	.17	.09	.35	.16	16.60

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year			
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches		
		Discharge	Date								
1950	-	-	-	-	-	-	-	5,663	24.78		
1951	1204	49,100	Apr. 4, 1951	209	4,895	1.58	21.43	4,580	20.06		
1952	1234	6,600	Mar. 16, 1952	131	1,508	1.486	6.63	1,564	6.00		
1953	1274	28,500	May 9, 10, 1953	92	4,208	1.36	18.43	4,216	18.46		
1954	1334	10,600	May 12, 13, 1954	84	1,719	.555	7.52	1,703	7.45		
1955	1384	27,500	Apr. 20, 1955	78	2,813	.907	12.31	2,862	12.52		
1956	1434	29,300	Apr. 14, 1956	a79	3,653	1.18	16.04	3,738	16.41		
1957	1504	22,100	Apr. 11, 1957	a45	2,587	.835	11.33	3,774	16.53		
1958	1554	38,900	May 8, 1958	321	5,710	1.84	24.99	4,745	20.77		
1959	1624	13,600	Feb. 20, 1959	516	3,089	.996	13.53	3,084	13.51		
1960	1704	22,600	Mar. 11, 1960	160	3,761	1.22	16.60	-	-		

a Discharge affected by closure of low-head dam at Jackson waterworks 6 miles upstream.

4875. 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 1960. Monthly discharge only for some periods, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 257.99 ft above mean sea level (Corps of Engineers bench mark). Prior to Oct. 19, 1938, staff gage at site 700 ft upstream at datum 5.00 ft higher.

Average discharge.--32 years (1928-60), 552 cfs.

Extremes.--1928-60: Maximum discharge, 24,800 cfs Jan. 7, 1950 (gage height, 33.0 ft, from floodmark); minimum, 12 cfs Sept. 1, 1954, Sept. 20, 1956; minimum gage height, 2.20 ft Sept. 1, 1954.

Remarks.--Slight regulation at low flow by water mill above station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	44.9	67.1	150	657	1,597	2,154	1,224	109	121	79.2	30.4	32.6	515
1952	23.1	35.7	382	231	485	512	339	206	62.4	42.1	42.2	24.6	198
1953	19.2	33.3	80.4	709	2,379	1,468	809	2,695	76.7	263	199	52.5	724
1954	31.0	46.1	219	369	479	801	485	565	53.4	39.3	29.3	20.3	261
1955	21.3	28.7	211	339	1,874	175	2,303	131	58.1	275	125	33.8	452
1956	27.3	63.8	160	191	2,331	1,655	860	103	131	38.0	45.0	25.4	446
1957	26.9	29.2	296	163	223	433	1,590	456	300	86.7	41.6	399	335
1958	209	1,089	703	689	721	1,640	719	861	429	1,173	312	450	816
1959	420	145	234	988	1,345	541	760	365	140	214	162	113	447
1960	108	233	381	943	1,226	1,370	366	572	46.2	44.0	381	72.5	478

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.12	0.17	0.40	1.76	3.88	5.79	3.18	0.29	0.31	0.21	0.08	0.08	16.27
1952	.06	.09	1.03	.62	1.22	1.38	.88	.55	.16	.11	.11	.06	6.27
1953	.05	.09	.22	1.90	5.78	3.95	2.10	7.24	.20	.71	.53	.14	22.91
1954	.08	.12	.59	.99	1.16	2.15	1.26	1.52	.14	.11	.08	.05	8.25
1955	.06	.07	.57	.91	4.55	.47	5.99	.35	.15	.74	.34	.09	14.29
1956	.07	.17	.45	.51	5.86	4.45	1.72	.28	.34	.10	.12	.07	14.14
1957	.07	.08	.79	.44	.54	1.16	4.13	1.23	.78	.23	.11	1.04	10.60
1958	.56	4.91	1.89	1.85	1.75	4.41	1.87	2.31	1.12	3.15	.84	1.17	25.83
1959	1.13	.38	.63	2.65	3.26	1.45	1.98	.98	.36	.58	.44	.29	14.13
1960	.29	.61	1.02	2.53	3.08	3.68	.95	1.54	.12	.12	1.02	.19	15.15

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	804	25.43
1951	1204	13,900	Mar. 29, 1951	22	515	1.20	16.27	530	16.76
1952	1234	2,190	Apr. 13, 1952	18	198	1.452	6.27	172	5.45
1953	1274	9,090	May 19, 1953	18	724	1.69	22.91	738	23.34
1954	1334	5,650	Mar. 29, 1954	16	261	1.608	8.25	258	8.16
1955	1384	19,800	Apr. 13, 1955	16	452	1.05	14.29	451	14.28
1956	1434	9,750	Mar. 17, 1956	18	446	1.04	14.14	454	14.39
1957	1504	8,940	Apr. 5, 1957	19	335	.781	10.60	538	17.02
1958	1554	5,250	Nov. 20, 1957	56	816	1.80	25.83	651	20.61
1959	1624	3,950	Apr. 21, 1959	45	447	1.04	14.13	440	13.91
1960	1704	5,000	Mar. 4, 1960	33	478	1.11	15.15	-	-

4880. Pearl River near Rockport, Miss.

Location.--Lat 31°47'25", long 90°08'35", in SW $\frac{1}{4}$ sec.31, T.10 N., R.11 E., Washington meridian, on right bank at downstream side of highway bridge, 1 $\frac{1}{2}$ miles upstream from Sinkler Creek, $\frac{2}{3}$ miles east of Rockport, and 7 $\frac{1}{2}$ miles downstream from Strong River.

Drainage area.--4,600 sq mi, approximately.

Records available.--October 1938 to September 1951. Monthly discharge only for October 1938 to May 1939, published in WSP 1304.

Gage.--Water-stage recorder. Datum of gage is 180.19 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to July 24, 1939, staff or wire-weight gage at same site and datum.

Average discharge.--13 years (1938-51), 5,932 cfs.

Extremes.--1938-51: Maximum discharge, 54,600 cfs Feb. 20, 1946 (gage height, 34.31 ft); minimum, 262 cfs Oct. 25-31, 1943; minimum gage height, 4.11 ft Oct. 25-28, 1943.
Maximum stage known, 35.25 ft Apr. 9, 1938, from floodmarks (discharge, 60,000 cfs).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,747	1,776	3,585	8,712	19,290	12,160	21,500	3,727	952	1,124	636	465	6,200

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.44	0.43	0.90	2.18	4.37	3.05	5.21	0.93	0.23	0.28	0.16	0.11	18.29

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	7,914	23.36
1951	1204	38,200	Apr. 9, 1951	390	6,200	1.35	18.29	-	-

4885. Pearl River near Monticello, Miss.

Location.--Lat 31°33', long 90°05', in SW¼ 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, 2½ 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 1960. Gage-height records collected since 1924 at site 1¼ 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.--22 years (1938-60), 6,112 cfs.

Extremes.--1938-60: Maximum discharge observed, 59,300 cfs Jan. 7, 1950 (gage height, 29.44 ft); minimum, 289 cfs Sept. 27 to Oct. 1, 1956.

Flood in April 1902 reached a stage of about 33 ft, from reports of U.S. Weather Bureau (discharge, about 100,000 cfs, from rating curve extended above 70,000 cfs by logarithmic plotting). A discharge of 69,900 cfs was measured Apr. 8, 1938, by Corps of Engineers (gage height, 30.15 ft, from floodmark).

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	1,851	1,901	3,948	9,453	20,200	12,970	23,440	4,174	1,249	1,465	841	670	6,737
1952	567	623	3,825	3,128	5,868	6,057	4,504	5,049	1,180	589	593	388	2,522
1953	310	366	907	5,767	13,300	19,700	7,502	30,040	2,612	2,624	1,424	607	7,092
1954	395	423	1,652	3,887	5,461	4,498	6,194	8,291	942	894	477	395	2,779
1955	350	471	1,367	4,518	12,470	6,906	21,510	2,822	1,932	3,086	2,391	615	4,794
1956	485	653	1,784	1,156	20,330	18,100	16,680	2,252	1,844	773	640	405	5,347
1957	382	440	2,720	2,719	5,666	6,809	17,430	3,752	3,583	3,233	1,003	2,066	4,119
1958	2,871	12,750	11,660	7,485	9,390	14,670	8,366	19,540	6,348	8,239	4,006	2,731	9,018
1959	3,861	1,855	2,454	7,317	14,710	7,918	8,162	5,620	4,406	2,273	1,316	1,144	5,020
1960	1,337	1,933	5,576	9,788	15,790	19,280	4,876	4,698	854	633	2,705	1,061	5,694

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.42	0.42	0.90	2.16	4.17	2.97	5.19	0.95	0.28	0.34	0.19	0.15	18.14
1952	.15	.14	.88	.72	1.26	1.39	1.00	.70	.28	.13	.14	.09	6.84
1953	.07	.08	.21	1.32	2.75	4.51	1.66	6.87	.58	.60	.33	.13	19.11
1954	.09	.09	.38	.89	1.13	1.03	1.37	1.90	.21	.20	.11	.09	7.49
1955	.08	.10	.31	1.03	2.58	1.58	4.76	.65	.43	.71	.55	.14	12.92
1956	.11	.14	.41	.28	4.35	4.14	3.69	.52	.41	.18	.15	.09	14.45
1957	.09	.10	.62	.62	1.17	1.56	3.66	.86	.79	.74	.23	.46	11.10
1958	.66	2.82	2.67	1.71	1.94	3.35	1.85	4.47	1.41	1.88	.92	.60	24.28
1959	.88	.41	.56	1.67	3.04	1.81	1.81	1.29	.98	.52	.30	.25	13.52
1960	.31	.43	1.28	2.24	3.38	4.41	1.08	1.07	.19	.14	.62	.23	15.38

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	9,271	24.97
1951	1204	40,000	Apr. 10, 1951	442	6,737	1.34	18.14	6,513	17.55
1952	1234	11,100	Feb. 24, 1952	344	2,522	1.500	6.84	2,232	6.05
1953	1274	51,100	May 18, 1953	295	7,092	1.41	19.11	7,187	19.31
1954	1334	18,000	Mar. 29, 1954	324	2,779	.551	7.49	2,755	7.42
1955	1384	44,000	Apr. 14, 1955	321	4,794	.951	12.92	4,855	13.09
1956	1434	30,500	Mar. 16, 1956	289	5,347	1.06	14.45	5,400	14.60
1957	1504	28,900	Apr. 5, 1957	303	4,119	.817	11.10	6,102	16.44
1958	1564	35,000	May 14, 1958	791	9,018	1.79	24.28	7,424	19.98
1959	1624	18,700	Apr. 23, 1959	661	5,020	.996	13.52	5,077	13.69
1960	1704	30,500	Mar. 17, 1960	459	5,694	1.15	15.38	-	-

4890. 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. Monthly discharge only for January to July 1930, published in WSP 1304. 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.--26 years (1928-54), 7,384 cfs.

Extremes.--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 in 1874 reached a stage of about 31 ft, from information by U.S. Weather Bureau.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	2,733	2,631	5,037	10,430	21,770	13,390	26,260	5,225	2,089	2,140	1,461	1,340	7,758
1952	1,172	1,242	4,461	3,712	6,785	7,354	5,733	3,537	1,980	1,226	1,154	904	3,263
1953	750	871	1,472	6,393	13,790	23,240	8,218	34,050	3,724	3,296	2,390	1,358	8,303
1954	957	1,046	3,229	4,600	6,316	4,630	7,428	9,313	1,625	1,562	1,028	846	3,551

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.55	0.52	1.02	2.11	3.98	2.71	5.15	1.06	0.41	0.43	0.30	0.26	18.50
1952	.24	.24	.91	.75	1.29	1.49	1.12	.72	.39	.25	.23	.18	7.81
1953	.15	.17	.30	1.30	2.52	4.71	1.61	6.90	.73	.67	.46	.27	19.81
1954	.19	.21	.65	.93	1.16	.98	1.46	1.89	.32	.32	.21	.17	8.49

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	10,870	25.91
1951	1204	38,100	Apr. 13, 1951	1,100	7,758	1.36	18.50	7,464	17.80
1952	1234	12,400	May 26, 1952	818	3,263	.573	7.81	2,942	7.04
1953	1274	50,900	May 22, 1953	705	8,303	1.46	19.81	8,484	20.24
1954	1334	18,300	May 31, 1954	740	3,551	.624	8.49	-	-

PEARL RIVER BASIN

4895. 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 10, 2 miles east of Bogalusa and 2 miles upstream from Bogue Lusa Creek.

Drainage area.--6,630 sq mi, approximately.

Records available.--October 1938 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 55.00 ft above mean sea level, datum of 1929 (levels by Corps of Engineers). Prior to July 29, 1954, wire-weight gage at same site and datum.

Average discharge.--22 years (1938-60), 8,801 cfs.

Extremes.--1938-60: Maximum discharge, 60,000 cfs Jan. 25, 26, 1947; maximum gage height, 20.32 ft Jan. 13, 1950; minimum discharge, 1,100 cfs Sept. 15, 16, 17, 1954; minimum gage height, 5.36 ft Sept. 16, 1954.
Flood of Apr. 11, 1938, reached a stage of 21.0 ft.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	3,215	2,881	5,287	10,680	24,870	15,940	29,690	6,745	2,946	2,726	2,049	1,914	8,947
1952	1,529	1,710	4,834	4,300	7,671	8,912	7,222	4,519	2,673	1,773	1,706	1,440	4,013
1953	1,188	1,394	2,240	7,164	15,150	27,880	10,380	36,930	5,618	3,901	3,574	2,064	9,801
1954	1,389	1,690	8,793	5,636	7,540	5,274	9,373	10,090	2,401	2,424	1,514	1,246	4,770
1955	1,408	1,323	1,713	6,995	14,960	10,130	27,200	6,955	3,374	3,982	4,201	1,619	6,907
1956	1,343	1,424	2,934	2,174	26,470	24,230	21,940	4,412	3,776	2,046	1,770	1,423	7,734
1957	1,343	1,394	3,465	3,800	7,272	8,147	22,800	5,473	3,700	5,646	2,252	3,270	5,878
1958	5,192	16,150	16,780	10,550	12,690	19,220	11,480	25,650	7,983	10,390	6,555	5,004	12,340
1959	5,352	2,915	3,808	8,084	18,860	10,510	10,860	7,928	9,046	3,288	3,006	2,656	7,191
1960	3,177	4,437	6,988	11,500	20,910	24,480	9,473	9,945	2,265	1,852	4,295	2,388	8,450

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.56	0.48	0.92	1.86	3.91	2.77	5.00	1.17	0.50	0.47	0.36	0.32	18.32
1952	.27	.29	.84	.75	1.25	1.55	1.22	.79	.45	.31	.30	.24	8.26
1953	.21	.23	.39	1.25	2.38	4.85	1.75	6.42	.95	.68	.62	.55	20.08
1954	.24	.28	1.53	.98	1.18	.92	1.58	1.75	.40	.42	.26	.21	9.75
1955	.24	.22	.30	1.22	2.35	1.76	4.58	1.21	.57	.69	.73	.27	14.14
1956	.23	.24	.51	.58	4.31	4.21	3.69	.77	.64	.36	.31	.24	15.89
1957	.23	.23	.60	.66	1.14	1.42	3.84	.95	.62	.98	.39	.55	11.61
1958	.90	2.72	2.92	1.84	2.02	3.34	1.93	4.46	1.34	1.81	1.14	.84	25.26
1959	.93	.49	.66	1.41	2.96	1.83	1.83	1.38	1.52	.75	.52	.45	14.73
1960	.55	.75	1.21	1.99	3.40	4.25	1.60	1.73	.38	.32	.75	.40	17.53

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	11,720	24.00
1951	1204	37,700	Apr. 16, 1951	1,550	8,947	1.35	18.32	8,669	17.76
1952	1234	13,200	Mar. 15, 1952	1,240	4,013	.605	8.26	3,738	7.69
1953	1274	50,400	May 23-25, 1953	1,140	9,801	1.48	20.08	10,400	21.30
1954	1334	22,500	Dec. 15, 1953	1,100	4,770	.719	9.75	4,140	8.46
1955	1364	52,700	Apr. 16, 1955	1,120	6,907	1.04	14.14	7,014	14.36
1956	1434	33,700	Mar. 22, 1956	1,130	7,734	1.17	15.89	7,776	15.97
1957	1504	32,400	Apr. 7-11, 1957	1,210	5,678	.856	11.61	8,349	17.09
1958	1554	42,600	May 18, 1958	2,060	12,340	1.86	25.26	10,160	20.80
1959	1624	24,000	Feb. 6, 7, 1959	2,020	7,191	1.08	14.73	7,402	15.16
1960	1704	34,000	Mar. 22, 1960	1,580	8,450	1.27	17.33	-	-

4900. Bogue Lusa Creek 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 10 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 1960. Prior to October 1958 published as Bogue Lusa near Franklinton.

Gage--Water-stage recorder. Datum of gage is 205.19 ft above mean sea level (Louisiana Department of Highways reference mark). Prior to Dec. 2, 1948, staff gage at same site and datum.

Average discharge--12 years (1948-60), 18.2 cfs.

Extremes--1948-60: 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, 1.2 cfs Aug. 28, 1957.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	5.93	4.95	13.9	12.3	20.6	48.3	48.0	6.56	10.3	9.84	6.86	6.36	15.9
1952	2.88	7.17	9.17	6.74	13.0	9.55	13.5	6.88	1.79	3.82	3.01	2.43	6.59
1953	1.68	4.00	11.4	22.5	26.9	15.6	18.7	40.0	10.2	13.5	39.5	4.26	17.4
1954	2.72	8.69	111	19.6	14.1	15.0	24.1	7.65	5.82	16.1	3.33	3.77	19.4
1955	6.70	8.19	9.72	16.5	19.0	7.05	22.1	6.26	2.48	4.75	5.56	2.53	9.16
1956	2.58	5.28	6.95	6.90	56.4	23.8	6.59	5.04	11.5	18.3	3.24	3.95	12.4
1957	3.92	4.18	13.1	5.13	10.7	14.2	43.2	8.47	9.23	5.05	5.04	14.7	11.3
1958	9.32	49.8	17.0	18.2	23.3	30.4	19.9	27.0	16.7	14.8	10.8	15.6	21.0
1959	6.15	7.65	9.78	13.0	33.4	14.9	18.3	41.0	36.4	28.2	15.0	11.1	19.5
1960	24.0	24.2	18.6	22.9	34.9	22.7	27.4	22.2	4.96	9.19	40.5	8.33	21.7

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.57	0.46	1.32	1.17	1.78	4.61	4.24	0.63	0.95	0.92	0.65	0.59	17.89
1952	.27	.66	.87	.64	1.16	.91	1.24	.83	.17	.34	.29	.22	7.40
1953	.16	.37	1.08	2.15	2.32	1.49	1.73	3.82	.94	1.29	3.76	.93	19.50
1954	.26	.80	10.55	1.87	1.21	1.43	2.22	.73	.54	1.54	.32	.35	21.82
1955	.64	.75	.93	1.57	1.64	.67	2.03	.60	.23	.45	.53	.23	10.28
1956	.25	.49	.66	.66	5.03	2.27	.61	.48	1.06	1.74	.31	.36	13.92
1957	.37	.39	1.25	.49	.92	1.35	3.98	.81	.85	.48	.48	1.35	12.72
1958	.89	4.60	1.61	1.73	2.01	2.89	1.83	2.57	1.54	1.41	1.03	1.44	23.55
1959	.59	.71	.93	1.23	2.87	1.42	1.51	3.91	3.54	2.69	1.43	1.02	21.85
1960	2.28	2.23	1.79	2.18	3.11	2.17	2.52	2.11	.46	.88	3.86	.77	24.36

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	18.4	20.63
1951	1204	3,050	Apr. 22, 1951	2.3	15.9	1.31	17.89	15.5	17.34
1952	1234	136	May 19, 1952	1.3	6.59	.545	7.40	6.42	7.21
1953	1274	2,930	Aug. 22, 1953	1.4	17.4	1.44	19.50	26.3	29.50
1954	1334	1,900	Dec. 6, 1953	1.9	19.4	1.60	21.82	11.2	12.53
1955	1384	430	Apr. 13, 1955	1.4	9.16	.757	10.28	8.34	9.35
1956	1434	2,210	Feb. 4, 1956	1.6	12.4	1.02	13.92	12.9	14.53
1957	1504	1,540	Aug. 23, 1957	1.2	11.3	.954	12.72	15.9	17.81
1958	1554	1,850	Nov. 14, 1957	3.4	21.0	1.74	23.55	16.7	18.68
1959	1624	1,900	May 12, 1959	4.1	19.5	1.61	21.85	23.1	25.92
1960	1704	715	May 5, 1960	3.9	21.7	1.79	24.36	-	-

4905. Bogue Chitto near Tylertown, Miss.

Location.--Lat 31°11', long 90°17', in SE $\frac{1}{4}$ sec.34, T.3 N., R.9 E., Washington meridian, near right bank on downstream side of bridge on U.S. Highway 98, a quarter of a mile upstream from Fernwood, Columbia & Gulf Railroad bridge, a quarter of a mile upstream from Bars Branch, 2 $\frac{1}{2}$ miles downstream from Topisaw Creek, and 9 miles northwest of Tylertown.

Drainage area.--502 sq mi.

Records available.--August 1944 to September 1960.

Gage.--Water-stage recorder. Datum of gage is 227.40 ft above mean sea level, datum of 1929.

Average discharge.--16 years (1944-60), 804 cfs.

Extremes.--1944-60: Maximum discharge, 45,700 cfs Jan. 7, 1950 (gage height, 33.50 ft); minimum, 181 cfs Sept. 13, 14, 1954; minimum gage height, 6.83 ft June 16, 1960, caused by temporary regulation; minimum unregulated, 6.94 ft July 5, 1960.
Flood in February 1936 reached a stage 1.2 ft higher than flood of Jan. 7, 1950, at railroad bridge a quarter of a mile downstream.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	406	391	672	973	1,476	1,795	1,024	415	573	486	342	352	738
1952	305	334	855	466	676	585	670	455	273	253	256	204	444
1953	193	233	318	718	1,955	1,490	923	4,317	420	384	1,402	292	1,053
1954	246	292	762	685	489	420	414	411	285	281	220	224	394
1955	255	252	480	788	2,258	408	2,870	303	247	298	293	205	707
1956	194	230	398	279	2,084	2,007	440	249	444	267	242	213	582
1957	199	212	409	303	429	746	1,473	796	847	805	330	802	595
1958	559	2,118	880	708	775	1,365	1,014	1,110	1,327	761	430	536	964
1959	323	368	339	568	1,321	504	781	805	977	550	341	319	593
1960	308	614	1,065	868	1,058	902	666	515	287	358	681	306	637

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.93	0.87	1.54	2.23	3.06	4.12	2.28	0.95	1.27	1.12	0.79	0.78	19.94
1952	.70	.74	1.96	1.07	1.45	1.34	1.49	1.04	.61	.58	.59	.45	12.02
1953	.44	.52	.73	1.65	4.06	3.42	2.05	9.91	.93	.88	3.22	.65	28.46
1954	.56	.65	1.75	1.57	1.01	.98	.92	.94	.63	.65	.51	.50	10.65
1955	.59	.56	1.10	1.81	4.68	.94	6.38	.70	.55	.68	.67	.46	19.12
1956	.45	.51	.92	.64	4.48	4.61	.98	.57	.99	.61	.56	.47	15.79
1957	.46	.47	.94	.70	.89	1.71	3.27	1.83	1.88	1.39	.76	1.78	16.08
1958	1.28	4.71	2.02	1.63	1.60	3.13	2.25	2.55	2.95	1.75	.99	1.20	26.06
1959	.74	.81	.78	1.31	2.74	1.16	1.74	1.84	2.17	1.26	.78	.71	16.04
1960	.71	1.37	2.49	1.99	2.27	2.07	1.48	1.18	.64	.82	1.56	.68	17.26

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches	
		Discharge	Date							
1950	-	-	-	-	-	-	-	1,117	30.21	
1951	1204,1504	22,700	Mar. 30, 1951	306	738	1.47	19.94	740	20.00	
1952	1234	2,170	Apr. 14, 1952	189	444	.884	12.02	381	10.31	
1953	1274,1504	29,400	Aug. 22, 1953	182	1,053	2.10	28.46	1,100	29.73	
1954	1334	2,120	Jan. 17, 1954	189	394	1.785	10.65	568	9.94	
1955	1384	58,700	Apr. 14, 1955	193	707	1.41	19.12	693	18.75	
1956	1434	16,500	Mar. 16, 1956	188	582	1.16	15.79	582	15.78	
1957	1504	8,250	June 29, 1957	188	595	1.19	16.08	822	22.22	
1958	1554	8,120	Nov. 16, 1957	276	964	1.92	26.06	754	20.38	
1959	1624	4,050	May 24, 1959	265	593	1.18	16.04	676	18.28	
1960	1704	9,190	Dec. 19, 1959	242	637	1.27	17.26	-	-	

4915. Bogue Chitto at Franklinton, La.

Location.--Lat 30°50'35", long 90°09'45", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.2 S., R.10 E., at bridge on State Highway 10, 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 1957. 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. Aug. 18, 1928, to Sept. 30, 1931, staff gage at site about a quarter of a mile downstream at datum 1.00 ft higher. Oct. 1, 1938, to June 22, 1939, wire-weight gage at same site and datum.

Average discharge.--22 years (1928-31, 1938-57), 1,596 cfs.

Extremes.--1928-31, 1938-57: Maximum discharge, 50,000 cfs Mar. 21, 1943 (gage height, 18.46 ft); minimum, 350 cfs Nov. 6-8, 1938; minimum gage height, -0.10 ft Oct. 25-27, 1955.

Maximum stage known, 27.6 ft, former site and datum, from floodmark sometime in April 1900.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	794	727	1,186	1,696	3,281	3,107	3,090	897	1,210	915	664	654	1,505
1952	582	638	1,258	866	1,401	1,232	1,357	973	629	603	624	499	887
1953	448	538	799	1,509	3,314	2,429	1,738	5,953	941	999	2,971	778	1,864
1954	567	729	2,769	1,539	1,152	1,058	875	731	607	685	473	474	977
1955	594	560	836	1,770	3,639	842	4,628	895	515	710	759	527	1,335
1956	482	521	957	687	4,400	3,573	975	651	1,157	702	585	507	1,255
1957	480	497	832	653	897	1,351	2,857	1,317	1,090	1,113	760	1,557	1,115
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.93	0.82	1.39	1.98	3.47	3.64	3.50	1.05	1.37	1.07	0.78	0.74	20.74
1952	.68	.72	1.47	1.01	1.53	1.44	1.54	1.14	.71	.71	.73	.56	12.24
1953	.52	.61	.93	1.77	3.50	2.84	1.97	6.94	1.07	1.17	3.48	.88	25.68
1954	.66	.83	3.24	1.80	1.22	1.22	.99	.93	.69	.80	.55	.54	13.47
1955	.69	.63	.98	2.07	3.85	.99	5.24	1.05	.58	.83	.89	.60	18.40
1956	.56	.59	1.12	.80	4.82	4.18	1.10	.76	1.31	.82	.68	.57	17.31
1957	.56	.56	.97	.76	.95	1.58	3.24	1.54	1.23	1.30	.89	1.76	15.34
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean
		Discharge	Date					
1950	-	-	-	-	-	-	-	1,952
1951	1204	24,600	Mar. 31, 1951	560	1,505	1.53	20.74	1,486
1952	1234	3,010	Apr. 14, 1952	446	887	.901	12.24	828
1953	1274	38,000	Aug. 23, 1953	433	1,864	1.89	25.68	2,057
1954	1334	8,020	Dec. 10, 1953	406	977	.992	13.47	801
1955	1384	48,000	Apr. 15, 1955	446	1,355	1.36	18.40	1,333
1956	1434	14,000	Feb. 5, 1956	416	1,255	1.27	17.31	1,242
1957	1504	9,770	Apr. 6, 1957	456	1,115	1.13	15.34	-
1958	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-

PEARL RIVER BASIN

4920. 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 21, 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 1960.

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.--23 years (1937-60), 1,857 cfs.

Extremes.--1937-60: 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 Franklin-ton; minimum, 424 cfs Oct. 26-28, 1955; minimum gage height, 0.7 ft Oct. 1, 1937, Oct. 29-31, 1940, Oct. 22-27, 1941.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	897	820	1,391	1,760	3,773	3,020	4,569	1,098	1,339	1,085	802	779	1,760
1952	659	746	1,365	950	1,601	1,416	1,603	1,061	695	663	651	554	995
1953	495	588	880	1,561	3,261	2,879	1,740	7,401	1,057	1,219	3,024	849	2,081
1954	604	816	4,132	1,833	1,260	1,154	1,252	928	739	811	604	614	1,233
1955	734	680	859	2,108	3,874	1,055	4,882	968	581	727	876	536	1,468
1956	453	571	928	703	4,604	3,757	1,233	755	1,383	1,070	684	633	1,383
1957	627	592	1,085	766	1,063	1,420	2,862	1,239	827	1,285	764	1,447	1,172
1958	1,406	3,807	1,981	1,934	2,255	3,275	1,997	2,707	1,950	1,539	995	1,295	2,089
1959	858	842	870	1,270	3,487	1,617	1,911	2,002	3,509	1,629	1,286	881	1,664
1960	1,228	2,034	1,901	2,070	2,809	2,115	1,951	1,759	687	744	1,536	769	1,630

Monthly and yearly runoff, in inches

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1951	0.85	0.76	1.33	1.68	3.25	2.88	4.21	1.05	1.23	1.03	0.76	0.72	19.75
1952	.63	.69	1.30	.91	1.43	1.35	1.48	1.01	.64	.63	.62	.51	11.20
1953	.47	.54	.84	.49	2.81	2.74	1.60	7.05	.98	1.16	2.88	.78	23.34
1954	.58	.75	3.94	1.75	1.08	1.10	1.15	.88	.68	.77	.58	.57	13.85
1955	.70	.63	.82	2.01	3.33	1.01	4.50	.92	.54	.69	.83	.49	16.47
1956	.43	.53	.88	.67	4.10	3.56	1.14	.72	1.28	1.02	.65	.58	15.56
1957	.60	.55	1.04	.73	.91	1.35	2.73	1.18	.76	1.22	.73	1.33	13.13
1958	1.34	3.51	1.87	1.84	1.94	3.12	1.84	2.58	1.78	1.47	.95	1.19	23.43
1959	.82	.78	.83	1.21	3.00	1.54	1.76	1.91	3.24	1.55	1.23	.81	18.68
1960	1.16	1.87	1.81	1.97	2.50	2.02	1.80	1.67	.63	.71	1.46	.71	18.31

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1950	-	-	-	-	-	-	-	2,241	25.14
1951	1204	24,100	Apr. 1, 1951	664	1,760	1.45	19.75	1,732	19.43
1952	1234	3,090	Apr. 15, 1952	491	995	.882	11.20	927	10.43
1953	1274	33,700	Aug. 25, 1953	491	2,081	1.72	23.34	2,385	26.76
1954	1334	9,050	Dec. 7, 1953	500	1,233	1.02	13.85	954	10.71
1955	1384	41,800	Apr. 16, 1955	475	1,468	1.21	16.47	1,441	16.16
1956	1434	15,300	Feb. 6, 1956	430	1,383	1.14	15.56	1,414	15.91
1957	1504	8,740	Apr. 8, 1957	495	1,172	.968	13.13	1,576	17.66
1958	1554	11,800	Nov. 16, 1957	675	2,089	1.73	23.43	1,706	19.14
1959	1624	8,600	June 14, 1959	690	1,664	1.38	18.68	1,876	21.09
1960	1704	9,050	May 9, 1960	600	1,630	1.35	18.31	-	-

Published herein are revisions and corrections for records published in WSP 1304 for stations discontinued prior to Sept. 30, 1950.

3910. Etowah River near Ball Ground, Ga.

Correction.--In WSP 352 and 1304, the maximum observed discharge for Mar. 15, 1913, is listed in error; it should be 9,180 cfs.

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