UNITED STATES DEPARTMENT OF THE INTERIOR
HAROLD L. ICKES, Secretary
GEOLOGICAL SURVEY
W. C. MENDENHALL, Director

Water-Supply Paper 822

SURFACE WATER SUPPLY *of the* UNITED STATES

1937

PART 2

SOUTH ATLANTIC SLOPE AND EASTERN GULF OF MEXICO BASINS

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SURFACE WATER SUPPLY OF SOUTH ATLANTIC SLOPE AND EASTERN GULF OF MEXICO BASINS, 1937

SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of flow made on streams in the United States during the water year ending September 30, 1937. The work was begun in 1888 in connection with special studies relating to irrigation. Measurements of stream flow have been made at about 7,200 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July 1937, 3,380 gaging stations were being maintained by the Geological Survey and the cooperating organizations. Many miscellaneous discharge measurements were made at other points.

In the execution of the work many State and private organizations have cooperated, either by furnishing data or by assisting in collecting data. Acknowledgments for cooperation of the first kind are made in connection with the description of each station affected; cooperation of the second kind is acknowledged on page 8.

DEFINITION OF TERMS

The units in which stream-flow data are presented in this report and other terms used herein are defined as follows:

"Second-feet" is an abbreviation for "cubic feet per second." A second-foot is a rate of flow of 1 cubic foot per second, or the rate of discharge of water flowing in a channel when the cross-sectional area is 1 square foot and the average velocity is 1 foot per second.

"Second-feet per square mile" is the average number of cubic feet of water flowing per second from each square mile of area drained, on the assumption that the run-off is distributed uniformly both as regards time and area.

"Run-off in inches" is the depth to which an area would be covered if all the water flowing from it in a given period were uniformly distributed on its surface. It is used for comparing run-off with rainfall, which is usually expressed in inches.

An "acre-foot", equivalent to 43,560 cubic feet, is the quantity required to cover an acre to the depth of 1 foot. The term is commonly used in connection with storage for irrigation.

"Second-foot-day" is the volume of water represented by a flow of 1 second-foot for 24 hours.

"Stage-discharge relation" is an abbreviation for the term "relation of gage height to discharge."

"Control" is a term used to designate the natural section or reach of the channel or artificial structure below the gage which determines the stage-discharge relation at the gage.

EXPLANATION OF DATA

The base data collected at gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the gage heights and discharge measurements in determining the daily flow. The records of stage are obtained either

from direct readings on a nonrecording gage or from a water-stage recorder that gives a continuous record of the fluctuations. Measurements of discharge are made with a current meter by the general methods outlined in standard textbooks on the measurement of river discharge. Typical gaging stations, equipped with water-stage recorder and measuring cable and car, are shown on plate 1.

Rating tables giving the discharge for any stage are prepared from the discharge measurements. The application of the daily gage height to these rating tables gives the daily discharge from which the monthly and yearly mean discharge is computed.

The data presented for each gaging station in the area covered by this report usually comprise a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly discharge and run-off. Skeleton rating tables are published except for those stations whose daily discharge for the greater part of the year was determined by shifting-control method or by use of slope or other special methods.

The description of the station gives the type of gage, its latitude and longitude determined from the best available maps, and information in regard to diversions that decrease the flow at the gage, artificial regulation from pondage or storage, and the accuracy of the records. Under "Average discharge" is given the average discharge for the number of years indicated. It is given only for stations for which there are 10 or more complete years of record. Information under "Extremes" gives the maximum discharge and gage height; the minimum discharge if there is little or no regulation; the minimum daily discharge if there is extensive regulation, and also the minimum discharge if useful; and the minimum gage height except when it is of no importance. Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder or a nonrecording gage read at the time of the crest. Likewise the minimum represents the lowest discharge unless otherwise qualified.

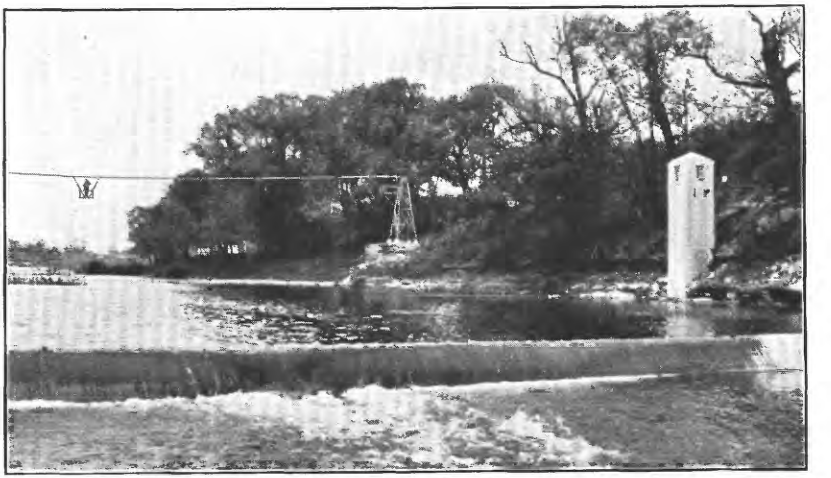
The table of daily discharge gives, for stations equipped with nonrecording gages, the discharge in second-feet corresponding to once-daily or the mean of twice-daily readings of the gage. For stations equipped with water-stage recorders the table gives the discharge corresponding to the mean daily gage height except for stations on streams subject to sudden or rapid fluctuation. For stations subject to such fluctuation the mean daily gage height may not indicate the true mean daily discharge, which must be obtained by averaging the discharge for intervals of the day or by using the discharge integrator, an instrument for obtaining the mean daily discharge from a continuous gage-height graph and containing as an essential element the rating curve of the station.

In the table of monthly discharge the column headed "Second-foot-days" gives the sum for each month of the discharge given in the table of daily discharge. The column headed "Maximum" gives the maximum daily discharge and not the discharge when the water surface was at crest height. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" is the average flow in cubic feet per second during the month.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of stream-flow data depends primarily (1) on the permanency of the stage-discharge relation and (2) on the accuracy of observation of stage, measurements of flow, and interpretation of records.

The station description gives a statement under "Remarks" in regard to the general accuracy of the records. "Excellent" indicates that, in general, the daily records are



A. ARTIFICIAL CONTROL, RECORDER HOUSE, AND MEASURING CABLE ON OLENTANGY RIVER, DELAWARE, OHIO.

B. RECORDER HOUSE AND MEASURING CABLE ON KAWEAH RIVER, THREE RIVERS, CALIF.

TYPICAL RIVER-MEASUREMENT STATIONS.

in error not more than 5 percent; "good", not more than 10 percent; "fair", not more than 15 percent; and "poor", over 15 percent.

The monthly means of any station may represent with high accuracy the quantity of water flowing past the gage, but the figures showing discharge per square mile and depth in inches may be subject to gross errors caused by the inclusion of large noncontributing districts in the measured drainage area, by lack of information concerning water diverted for irrigation or other use, or by inability to interpret the effect of artificial regulation of the flow of the river above the station. "Second-feet per square mile" and "run-off in inches" are therefore not computed if such errors appear probable. The computations are also omitted for stations on streams draining areas in which the annual rainfall is less than 20 inches.

Many gaging stations on streams in the irrigated areas of the United States are situated above most of the diversions from those streams, and the discharge recorded does not show the water supply available for further development, as prior appropriations below the station must first be satisfied.

The table of monthly discharge gives a general idea of the flow at the station. The table of daily discharge allows more detailed studies of the variation in flow. It should be borne in mind, however, that the observations in each succeeding year may be expected to throw new light on data previously published, and that greater degrees of refinement in computations and records may be warranted with increased data and use of improved equipment.

PUBLICATIONS

The results of stream-flow measurements are now published annually in 14 parts, each part covering an area whose boundaries coincide with natural drainage features as indicated below:

Part 1. North Atlantic slope basins (St. John River to York River).
2. South Atlantic slope and eastern Gulf of Mexico basins (James River to Mississippi River).
3. Ohio River Basin.
4. St. Lawrence River Basin.
5. Hudson Bay and upper Mississippi River basins.
6. Missouri River Basin.
7. Lower Mississippi River Basin.
8. Western Gulf of Mexico basins.
9. Colorado River Basin.
10. The Great Basin.
11. Pacific slope basins in California.
12. Pacific slope basins in Washington and upper Columbia River Basin.
13. Snake River Basin.
14. Pacific slope basins in Oregon and lower Columbia River Basin.

Water-supply papers and other publications of the Geological Survey containing data in regard to the water resources of the United States may be obtained or consulted as indicated below.

1. Copies may be purchased at nominal cost from the Superintendent of Documents, Government Printing Office, Washington, D. C., who will, on application, furnish lists giving prices.

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

3. Sets are available for consultation in the local offices of the water-resources branch of the Geological Survey as follows:

Augusta, Maine, Statehouse.
Boston, Mass., 945 Post Office Building.
Hartford, Conn., 203 Federal Building.
Albany, N. Y., 526 Federal Building.
Trenton, N. J., 228 Federal Building.

Harrisburg, Pa., 490 Education Building.
Charlottesville, Va., University of Virginia.
South Charleston, W. Va., Naval Ordnance Plant.
Asheville, N. C., 220 Post Office Building.
Columbia, S. C., 119 United States Courthouse.
Atlanta, Ga., Georgia School of Technology.
Ocala, Fla., Post Office Building.
Montgomery, Ala., Post Office Building.
Chattanooga, Tenn., 442 Post Office Building.
Louisville, Ky., Federal Building.
Columbus, Ohio, Engineering Experiment Station, Ohio State University.
Indianapolis, Ind., 319 Federal Building.
Urbana, Ill., 14 Post Office Annex.
Madison, Wis., 337N State Capitol.
St. Paul, Minn., 808 New Post Office Building.
Iowa City, Iowa, 402 Hydraulic Laboratory, University of Iowa.
St. Louis, Mo., 906 Customhouse, 1114 Market Street.
Rolla, Mo., Missouri Geological Survey Building, Missouri School of Mines and Metallurgy.
Topeka, Kans., 305 Federal Building.
Fort Smith, Ark., Post Office Building.
Austin, Tex., State Highway Building.
Santa Fe, N. Mex., 3 United States Courthouse.
Tucson, Ariz., 210 Post Office Building.
Denver, Colo., 230 Customhouse.
Salt Lake City, Utah, 303 Federal Building.
Idaho Falls, Idaho, 228 Federal Building.
Boise, Idaho, 429 Federal Building.
Helena, Mont., 412 Federal Building.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 208 Federal Office Building.
Los Angeles, Calif., 512 Eighth and Figueroa Building.
Honolulu, Hawaii, 225 Federal Building.

A list of the Geological Survey publications may be obtained by applying to the Director, Geological Survey, Washington, D. C.

Records of flow of streams in the United States have been published in the reports tabulated as follows:

Stream-flow data in reports of the Geological Survey
(A = Annual Report; B = Bulletin; W = Water-Supply Paper)

Report	Character of data	Year
10th A, pt. 2	Descriptive information only.....	
11th A, pt. 2	Monthly discharge and descriptive information...	1884 to Sept. 1890.
12th A, pt. 2	....do.....	1884 to June 30, 1891.
13th A, pt. 3	....do.....	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871-93)..	1888 to Dec. 31, 1893.
B 131.....	Descriptions, measurements, gage heights, and ratings.	1893-94.
16th A, pt. 2	Descriptive information only.....	
B 140.....	Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11.....	Gage heights (also gage heights for earlier years)	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895-96.
W 15.....	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas River.	1897.
W 16.....	Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte Rivers, and western United States.	1897.
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also some long-time records).	1897.
W 27.....	Measurements, ratings, and gage heights, eastern United States, eastern Mississippi River, and Missouri River.	1898.
W 28.....	Measurements, ratings, and gage heights, Arkansas River and western United States.	1898.
20th A, pt. 4	Monthly discharge (also for many earlier years).	1898.
W 35 to 39...	Descriptions, measurements, gage heights, and ratings.	1899.
21st A, pt. 4	Monthly discharge.....	1899.
W 47 to 52...	Descriptions, measurements, gage heights, and ratings.	1900.
22d A, pt. 4.	Monthly discharge.....	1900.
W 65, 66.....	Descriptions, measurements, gage heights. and ratings.	1901.
W 75.....	Monthly discharge.....	1901.

Note.- The reports which contain records after 1901 are given in the table on page 5.

Numbers of water-supply papers containing results of stream measurements, 1899-1937

(For basins included see p. 3)

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1899 a...	35	b 35, 36	36	36	36	c 36, 37	37	37	d 37, 38	38, e 39	38, f 39	38	38	38
1900 g...	47, h 48	48	48, i 49	49	49	49, j 50	50	50	50	51	51	51	51	51
1901.....	65, 75	65, 75	65, 75	65, 75	k 65, 66, 75	66, 75	k 65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902.....	82	b 82, 83	83	m 82, 83	k 83, 85	84	k 83, 84	84	85	85	85	85	85	85
1903.....	97	b 97, 98	98	97	k 98, 99, n 100	99	k 98, 99	99	100	100	100	100	100	100
1904.....	o 124, p 125, q 126	q 126, 127	128	129	k 128, 130	130, r 131	k 128, 131	132	133	133, s 134	134	135	135	135
1905.....	o 165, p 166, q 167	q 167, 168	169	170	171	172	k 169, 173	174	175, t 177	176, s 177	177	178	178	u 177, 178
1906.....	o 201, p 202, q 203	q 203, 204	205	206	207	208	k 205, 209	210	211, t 213	212, s 213	213	214	214	214
1907-8...	241	242	243	244	245	246	247	248	249	250, s 251	251	252	252	252
1909.....	261	262	263	264	265	266	267	268	269	270, s 271	271	272	272	272
1910.....	281	282	283	284	285	286	287	288	289	290	291	292	292	292
1911.....	301	302	303	304	305	306	307	308	309	310	311	312	312	312
1912.....	321	322	323	324	325	326	327	328	329	330	331	332-A	332-B	332-C
1913.....	351	352	353	354	355	356	357	358	359	360	361	362-A	362-B	362-C
1914.....	381	382	383	384	385	386	387	388	389	390	391	392	393	394
1915.....	401	402	403	404	405	406	407	408	409	410	411	412	413	414
1916.....	431	432	433	434	435	436	437	438	439	440	441	442	443	444
1917.....	451	452	453	454	455	456	457	458	459	460	461	462	463	464
1918.....	471	472	473	474	475	476	477	478	479	480	481	482	483	484
1919-20..	501	502	503	504	505	506	507	508	509	510	511	512	513	514
1921.....	521	522	523	524	525	526	527	528	529	530	531	532	533	534
1922.....	541	542	543	544	545	546	547	548	549	550	551	552	553	554
1923.....	561	562	563	564	565	566	567	568	569	570	571	572	573	574
1924.....	581	582	583	584	585	586	587	588	589	590	591	592	593	594
1925.....	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1926.....	621	622	623	624	625	626	627	628	629	630	631	632	633	634
1927.....	641	642	643	644	645	646	647	648	649	650	651	652	653	654
1928.....	661	662	663	664	665	666	667	668	669	670	671	672	673	674
1929.....	681	682	683	684	685	686	687	688	689	690	691	692	693	694
1930.....	696	697	698	699	700	701	702	703	704	705	706	707	708	709
1931.....	711	712	713	714	715	716	717	718	719	720	721	722	723	724
1932.....	726	727	728	729	730	731	732	733	734	735	736	737	738	739
1933.....	741	742	743	744	745	746	747	748	749	750	751	752	753	754
1934.....	756	757	758	759	760	761	762	763	764	765	766	767	768	769
1935.....	781	782	783	784	785	786	787	788	789	790	791	792	793	794
1936.....	801	802	803	804	805	806	807	808	809	810	811	812	813	814
1937.....	821	822	823	824	825	826	827	828	829	830	831	832	833	834

a Rating tables and index to Water-Supply Papers 35-39 contained in Water-Supply Paper 39. Tables of monthly discharge for 1899 in 21st Annual Report, part 4.
b James River only.
c Gallatin River.
d Green and Gunnison Rivers and Colorado River above Gunnison River.
e Mojave River only.
f Kings and Kern Rivers and south Pacific slope basins.
g Rating tables and index to Water-Supply Papers 47-52 and data on precipitation, wells, and irrigation in California and Utah contained in Water-Supply Paper 52. Monthly discharge for 1900 in 22d Annual Report, part 4.
h Wissahickon and Schuylkill Rivers to James River.
i Scioto River.
j Loup, Platte, and Elkhorn Rivers and tributaries below Platte River.
k Tributaries of Mississippi River from east.
m Lake Ontario and tributaries to St. Lawrence River proper.
n Hudson Bay only.
o New England rivers only.
p Hudson River to Delaware River, inclusive.
q Susquehanna River to Yadkin River, inclusive.
r Platte and Kansas Rivers.
s The Great Basin in California, except Truckee and Carson River Basins.
t Below junction with Gila River.
u Rogue, Umpqua, and Siletz Rivers only.

The foregoing table gives, by years and drainage basins, the numbers of the papers on surface water supply published from 1899 to 1937. The data for any particular station will, in general, be found in the reports covering the years during which the station was maintained. For example, the data from 1910 to 1920 for any station in the area covered by part 3 are published in Water-Supply Papers 283, 303, 323, 353, 383, 403, 433, 453, 473, and 503, which contain records for the Ohio River Basin for those years.

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

From time to time reports have been published that are compilations of records for various areas, usually a single State or drainage basin. These reports contain records previously published (some of which have been revised), as well as some records not contained in the annual series of water-supply papers. The following table gives the numbers and titles of these reports, arranged in alphabetical order by States and drainage basins.

Reports containing compilation of discharge by States and drainage basins

Water-Supply Paper	Year ending	State or drainage basin and title
		STATE
107	1903	Alabama, Water powers of, with an appendix on stream measurements in Mississippi.
298	1912	California, Water resources of, part 1, Stream measurements in Sacramento River Basin.
299	1912	California, Water resources of, part 2, Stream measurements in San Joaquin River Basin.
300	1912	California, Water resources of, part 3, Stream measurements in the Great Basin and Pacific coast river basins.
447	1918	California, Surface water supply of the southern Pacific slope of.
597e	1927	California, Surface water supply of Sacramento River Basin.
636d	1927	California, Surface water supply of San Joaquin River Basin.
636e	1927	California, Surface water supply of Pacific slope basins in.
637a	1927	California, Surface water supply of minor San Francisco Bay, northern Pacific, and Great basins in.
74	1900	Colorado, Water resources of.
197	1905	Georgia, Water resources of.
415	1915	Massachusetts, Surface waters of.
230	1906	Nebraska, Surface water supply of.
370	1910	Oregon, Surface water supply of.
424	1916	Vermont, Surface waters of.
492	1919	Washington, Summary of hydrometric data in.
469	1921	Wyoming, Surface waters of, and their utilization.
		DRAINAGE BASIN
395	1914	Colorado River (Colo., Utah, etc.) and its utilization, 1916.
617	1927	Colorado River, upper (Colo., Utah), and its utilization, 1929.
517	1920	Great Salt Lake Basin, Water powers of, 1924.
618	1926	Green River (Wyo., Utah) and its utilization, 1930.
198	1906	Kennebec River Basin (Maine), Water resources of, 1907.
		Milk River. (See St. Mary and Milk Rivers.)
536	1920	New-Kanawha River Basin (W. Va., Va., N. C.), Surface water supply of, 1925.
279	1909	Penobscot River Basin (Maine), Water resources of, 1912.
192	1906	Potomac River Basin (W. Va., Va., Md., etc.), 1907.
358	1913	Rio Grande Basin (N. Mex., Tex., etc.), Water resources of, 1888-1913.
491	1917	St. Mary and Milk Rivers (Mont. and Canada), Water supply of, 1920.
109	1904	Susquehanna River Basin (Pa., Md.), Hydrography of, 1905.

In addition to the records noted above, records of discharge have been published in State reports. Some of these are not contained in the publications of the Geological Survey or are revisions of records previously published in its water-supply papers. The following table contains a list of these reports.

State reports containing compilation of records of discharge

State	Year ending	Report	Issued by
Alabama....	1915	Bull. 17, Water powers of Alabama.....	Geological Survey of Alabama.
Arkansas...	1928	Stream gaging report 1.....	Arkansas Geological Survey.
Georgia....	1920	Bull. 38, Water powers of Georgia.....	Geological Survey of Georgia.
Illinois...	1937	Stream flow data of Illinois.....	Division of Waterways.
Do.....	1911	Water resources of Illinois.....	Rivers and Lakes Commission.
Indiana....	1927	Pub. 72, Surface water supply of Indiana.	Department of Conservation.
Do.....	[a]1930	Pub. 112, Surface water supply of Indiana.	Do.
Iowa.....	1932	Stream-flow records of Iowa.....	Iowa State Planning Board.
Kansas.....	[b]1919	Surface waters of Kansas.....	Kansas Water Commission.
Do.....	[c]1924	.....do.....	Do.
Do.....	[d]1928	.....do.....	Do.
Kentucky...	1920	Surface waters of Kentucky.....	Kentucky Geological Survey.
Minnesota..	1912	Water resources investigation of Minnesota.	State Drainage Commission.
Missouri...	1926	Reports of Bureau of Geology and Mines, Vol. 20, 2d series, Water Resources of Missouri.	Missouri Bureau of Geology and Mines.
Nebraska...	1914	1st hydrographic report.....	Bureau of Water Power, Irrigation and Drainage.
Do.....	[e]1928	2d hydrographic report.....	Do.
New Jersey.	1928	Bull. 33, Surface water supply of New Jersey.	Department of Conservation and Development.
Do.....	[f]1934	Special Report 5, Surface water supply of New Jersey.	State Water Policy Commission.
New Mexico.	1925	Surface water supply of New Mexico....	Office of the State Engineer.
North Carolina.	1923	Bull. 34, Discharge records of North Carolina streams.	Department of Conservation and Development.
Oregon.....	1914	Bull. 4, Water resources of the State of Oregon.	Office of the State Engineer.
Do.....	[g]1924	Bull. 7, Water resources of the State of Oregon.	Do.
Do.....	[h]1930	Bull. 8, Water resources of the State of Oregon.	Do.
Do.....	[i]1936	Bull. 9, Water resources of the State of Oregon.	Do.
Pennsylvania	1911	Report of Water Supply Commission of Pennsylvania.	Water Supply Commission of Pennsylvania.
Do.....	[j]1932	Stream-flow records of Pennsylvania...	Department of Forests and Waters.
Tennessee..	1924	Bull. 34, Water resources of Tennessee.	Department of Education.
Do.....	[k]1930	Bull. 40, Surface waters of Tennessee.	Do.
Utah.....	1905	5th Biennial Report, State Engineer...	Office of the State Engineer.
Virginia...	1927	Bull. 31, Water resources of Virginia.	Conservation and Development Commission.
Washington.	1933	Bull. 5, Monthly and yearly summaries of hydrometric data.	Department of Conservation and Development.
Wisconsin..	1914	1st report of Railroad Commission of Wisconsin to Legislature on water powers.	Railroad Commission of Wisconsin.
Do.....	[l]1923	2d report of Railroad Commission of Wisconsin to Legislature on water powers.	Do.

a Includes records for the years 1927-30.
b Includes records for the years 1895-1919.
c Includes records for the years 1919-24.
d Includes records for the years 1924-28.
e Includes records for the years 1914-28.
f Includes records for the years 1928-34.
g Includes records for the years 1914-24.
h Includes records for the years 1924-30.
i Includes records for the years 1930-36.
j Includes records for the years 1928-32.
k Includes average weekly discharge for the years 1920-30.
l Includes records for the years 1914-23.

Note.- In addition to the records contained in the reports listed above, the following States have issued annual or biennial reports in which are contained records of discharge: California, Colorado, Idaho, Indiana, Missouri, Montana, Nebraska, New Mexico, New York (also New York City Board of Water Supply), North Dakota, Oregon, Pennsylvania, Utah, Washington, and Wyoming.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

The following table contains a list of gaging stations in the area covered by this report at which records of discharge were collected during the year ending September 30, 1937, by agencies other than the Geological Survey. The records for these stations are not contained in publications of the Geological Survey.

Records of discharge collected by agencies other than the Geological Survey

Stream	Location	Period	Operated by	Remarks
Black Warrior River, Locust Fork of.	Ward's Bridge, near Horton, Ala.	1936-37	Corps of Engineers, U. S. Army.	Unpublished.
Do.....	Graves' Bridge, near Cleveland, Ala.	1936-37	....do.....	Do.
Do.....	Crooked Shoals, near Bangor, Ala.	1936-37	....do.....	Do.
Chickasawhay River.	Near Waynesboro, Miss.	1936-37	....do.....	Do.
Pearl River.....	Lena bridge, near Lena, Miss.	1936-37	....do.....	Do.
Do.....	Byram bridge, near Byram, Miss.	1936-37	....do.....	Do.
Do.....	Rosemary Bridge, near Terry, Miss.	1936-37	....do.....	Do.
Do.....	Near Bush, La.....	1936-37	....do.....	Do.
Savannah River....	Augusta, Ga., at 15th Street Bridge.	1932-37	....do.....	Do.
Do.....	New Savannah Bluff lock and dam at Butler Creek.	1936-37	....do.....	Do.
Tombigbee River, East Fork of.	Ironwood Bluff Bridge near Fulton, Miss.	1937	....do.....	Do.
Do.....	Barr's ferry bridge near Nettleton, Miss.	1937	....do.....	Do.
Do.....	Bigbee Bridge, near Bigbee, Miss.	1937	....do.....	Do.

COOPERATION

The work in the several States was done under cooperative agreements as follows: In Alabama, with the Alabama Geological Survey, Walter B. Jones, State geologist; in Florida, with the State Road Department, C. E. Treadway and A. P. Hale, chairmen, the Okeechobee Flood-Control District, A. W. Young, executive secretary, the city of Jacksonville, P. M. Ulsch, chairman city commission, and the city of Tampa, J. S. Long, superintendent of water department; in Georgia, with the Division of Mines, Mining & Geology of the Georgia Department of Natural Resources, R. F. Burch, Jr., Commissioner, and Richard W. Smith, acting director; in Mississippi, with the Mississippi Geological Survey, W. C. Morse, director; in North Carolina, with the North Carolina Department of Conservation and Development, R. Bruce Etheridge, director; in South Carolina, with the South Carolina State Highway Department, Ben M. Sawyer, chief highway commissioner, and the city of Spartanburg, D. W. Hendrix, chairman of board of public works; and in Virginia, with the Virginia Conservation Commission, W. C. Hall, chairman.

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and the city of Carrollton; in North Carolina, by the cities of Durham and Charlotte; in South Carolina, by the Columbia Railway & Navigation Co., the Lexington Water Power Co., and the South Carolina Electric & Gas Co.; and in Virginia, by the Appalachian Electric Power Co., Virginia Electric & Power Co., and Virginia Public Service Co.

DIVISION OF WORK

The data for stations in the several States were collected and prepared for publication under supervision of district engineers as follows: In Alabama and Mississippi, and for certain stations in the Apalachicola River Basin in Georgia prior to July 1, by D. H. Barber; in Florida, and for certain stations in the Altamaha, Satilla, and Suwannee River Basins in Georgia prior to July 1, by D. S. Wallace; in Georgia, except for certain stations in the Altamaha, Apalachicola, Satilla, and Suwannee River Basins prior to July 1, and except for Augusta Canal near Augusta, by F. M. Bell; in North Carolina, by E. D. Burchard; in South Carolina, and for Augusta Canal near Augusta, Georgia, by A. D. Johnson; and in Virginia, by J. J. Dirzulaitis.

JAMES RIVER BASIN

Jackson River at Falling Spring, Va.

Location.- Water-stage recorder, lat. 37°52'36", long. 79°58'39", at Smiths highway bridge, 1 mile from Falling Spring, Alleghany County, and 1½ miles below Falling Spring Creek. Zero of gage is 1,333.49 feet above mean sea level.
Drainage area.- 409 square miles.
Records available.- April 1925 to September 1937.
Average discharge.- 12 years, 478 second-feet.
Extremes.- Maximum discharge during year, 7,700 second-feet Jan. 20 (gage height, 11.19 feet), from rating curve extended above 3,500 second-feet; minimum, 89 second-feet Oct. 6 (gage height, 3.02 feet).
1925-37: Maximum discharge, 14,100 second-feet Mar. 17, 1936 (gage height, 14.74 feet), from rating curve extended above 3,500 second-feet on basis of velocity-area studies and comparison of peak discharge and total run-off of flood at this station with those at other stations in James River Basin; minimum, 58 second-feet at times during September and October 1930 (gage height, 2.90 feet).
Remarks.- Records excellent except those for periods of missing gage heights, Nov. 12, 14-17, Nov. 28 to Dec. 3, Dec. 5, 6, Aug. 31 to Dec. 2, which were computed on basis of records for stations on Potts and Dunlap Creeks and Cowpasture River and for James River at Lick Run and are fair.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

3.0	86	4.0	348	6.0	1,360
3.2	116	4.3	462	7.0	2,150
3.4	161	4.6	590	8.0	3,200
3.6	218	5.0	778	9.0	4,420
3.8	280	5.5	1,050	10.0	5,830

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	144	116	120	1,970	1,140	612	307	940	218	114	108	380
2	134	120	130	3,000	1,050	546	290	804	209	111	106	450
3	111	120	140	3,790	912	500	277	680	203	111	102	434
4	99	120	151	2,490	830	462	264	612	191	114	99	359
5	93	130	160	1,600	753	462	274	568	183	134	97	307
6	90	141	200	1,170	657	462	348	546	177	130	97	439
7	92	156	3,310	1,200	612	462	341	496	169	132	96	753
8	96	156	1,750	1,460	680	483	331	458	161	122	94	612
9	97	156	995	1,260	2,030	491	355	418	151	126	96	479
10	100	151	728	1,050	2,700	466	370	380	146	124	118	377
11	103	144	612	940	1,720	446	341	355	161	126	169	328
12	106	135	858	804	1,260	426	324	331	151	136	174	294
13	102	128	885	704	1,020	414	304	331	138	122	156	251
14	96	125	728	680	940	529	304	411	132	156	166	218
15	94	125	612	824	804	657	348	450	130	233	124	197
16	147	120	542	1,110	680	590	377	450	130	183	111	177
17	2,560	120	634	1,350	657	546	359	438	134	169	102	161
18	1,190	118	657	2,440	778	657	338	414	141	177	112	148
19	634	116	634	2,060	728	680	328	470	148	141	124	141
20	434	113	1,140	4,310	704	680	307	634	138	158	136	136
21	324	113	1,080	5,010	753	753	300	586	132	233	116	130
22	261	113	885	3,090	2,380	704	307	517	180	221	108	126
23	224	111	704	2,060	1,920	634	300	458	180	174	256	118
24	197	113	634	1,680	1,430	577	274	411	146	148	200	116
25	177	118	586	1,970	1,140	555	1,180	369	132	134	417	111
26	161	118	586	2,150	912	500	4,680	331	126	126	1,200	110
27	148	116	612	1,570	778	438	2,980	328	128	116	848	110
28	144	110	1,110	1,230	680	403	1,970	300	130	111	617	111
29	134	110	1,290	1,170	-	384	1,460	280	120	119	352	110
30	126	110	1,110	1,020	-	352	1,140	258	116	158	321	106
31	120	-	1,430	995	-	328	-	239	-	116	400	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	8,538	2,560	90	275	0.672	0.77
November	3,742	156	110	125	.306	.34
December	25,013	3,310	120	807	1.97	2.27
Calendar year 1936	228,961	8,110	82	626	1.53	20.82
January	56,157	5,010	680	1,812	4.43	5.11
February	30,648	2,700	612	1,095	2.68	2.79
March	16,199	753	328	523	1.28	1.48
April	21,078	4,680	264	703	1.72	1.92
May	14,253	940	239	460	1.12	1.29
June	4,601	218	116	153	.374	.42
July	4,475	233	111	144	.352	.41
August	7,122	1,200	94	230	.562	.65
September	7,789	753	106	260	.636	.71
Water year 1936-37	199,615	5,010	90	547	1.34	18.16

James River at Lick Run, Va.

Location.- Water-stage recorder, lat. 37°47', long. 79°47', at highway bridge at Lick Run, Botetourt County, three-quarters of a mile below confluence of Cowpasture and Jackson Rivers. Zero of gage is 978.30 feet above mean sea level.
Drainage area.- 1,369 square miles.
Records available.- April 1925 to September 1937.
Average discharge.- 12 years, 1,600 second-feet.
Extremes.- Maximum discharge during year, 28,700 second-feet Jan. 21 (gage height, 17.45 feet); minimum, 239 second-feet Aug. 6 (gage height, 1.61 feet).
1925-37: Maximum discharge, 51,800 second-feet Mar. 18, 1936 (gage height, 25.65 feet), from rating curve extended above 28,000 second-feet on basis of velocity-area studies and comparison of peak discharge and total run-off of flood at this station with those for other stations in James River Basin; minimum, 153 second-feet Oct. 11, 1930 (gage height, 1.51 feet).
Maximum stage known, 29.1 feet, from floodmarks, sometime in November 1877 (discharge, about 65,800 second-feet).
Remarks.- Records good except those for periods of missing gage heights, Dec. 15 to Jan. 11, Mar. 9, which were computed on basis of weather records and records for station at Buchanan and stations on Cowpasture and Jackson Rivers and Dunlap and Potts Creeks and are fair.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1-17

1.6	250	3.0	1,020	8.0	7,700
1.8	340	3.5	1,430	10.0	11,600
2.0	440	4.0	1,940	12.0	15,900
2.3	600	5.0	3,150	15.0	22,900
2.6	770	6.0	4,520	18.0	30,200

Oct. 18 to Sept. 30

1.6	235	2.3	575	3.5	1,420
1.8	320	2.6	750	4.0	1,940
2.0	420	3.0	1,010		

Note.- Same as preceding table above 4.0 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	830	365	311	5,900	4,240	2,050	1,040	3,150	672	335	293	4,380
2	666	375	320	11,000	4,100	1,830	1,010	2,640	642	320	284	2,580
3	460	370	350	17,000	3,410	1,670	975	2,340	630	306	275	1,780
4	360	375	385	10,000	2,960	1,570	940	2,050	642	311	259	1,380
5	286	425	410	6,200	2,700	1,570	975	1,880	614	340	263	1,240
6	286	440	524	4,000	2,400	1,570	1,120	1,830	908	445	251	1,330
7	282	480	8,300	3,400	2,100	1,520	1,200	1,670	666	400	263	2,460
8	277	500	6,020	3,800	2,220	1,570	1,160	1,470	575	360	370	2,340
9	282	490	3,240	3,400	3,390	1,600	1,160	1,380	520	360	293	1,780
10	308	480	2,220	2,900	8,240	1,520	1,240	1,280	475	325	509	1,380
11	313	460	1,830	2,500	5,570	1,470	1,200	1,160	465	355	1,030	1,160
12	322	440	2,640	2,400	4,100	1,380	1,120	1,120	490	412	798	1,010
13	313	420	3,280	2,280	3,410	1,330	1,040	1,120	440	420	726	908
14	286	410	2,520	2,280	3,080	1,420	1,040	1,380	410	410	789	804
15	272	410	1,900	2,520	2,760	2,000	1,240	1,620	395	573	515	714
16	460	395	1,600	3,960	2,520	1,940	1,520	1,520	415	586	395	619
17	8,550	380	1,700	4,720	2,760	1,830	1,420	1,420	465	455	340	558
18	5,240	370	2,000	8,980	2,460	1,880	1,330	1,330	435	435	370	500
19	2,340	345	2,000	7,190	2,460	2,160	1,240	1,240	470	390	370	485
20	1,470	340	3,100	15,000	2,280	2,100	1,160	1,520	460	435	370	445
21	1,080	340	3,400	22,600	2,580	2,100	1,120	1,520	445	586	425	425
22	875	330	2,700	11,400	7,430	2,000	1,120	1,380	520	714	430	405
23	738	325	2,200	7,020	6,850	1,830	1,080	1,280	542	536	810	390
24	654	320	1,800	5,880	4,970	1,720	1,010	1,200	495	425	1,080	365
25	570	320	1,700	5,720	3,960	1,670	3,330	1,080	405	375	1,900	350
26	515	330	1,700	7,020	3,220	1,570	18,700	975	370	340	5,970	340
27	475	335	1,700	5,420	2,580	1,380	10,800	975	370	320	4,640	335
28	435	320	2,800	4,100	2,280	1,280	6,680	940	380	298	2,400	360
29	410	302	3,600	4,100	-	1,240	4,970	875	395	284	1,570	350
30	385	293	3,100	3,960	-	1,160	3,960	816	355	288	1,380	330
31	365	-	4,000	3,680	-	1,120	-	750	-	340	3,680	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	30,105	8,550	272	971	0.709	0.82
November	11,485	500	293	383	.280	.31
December	73,350	8,300	311	2,366	1.73	1.99
Calendar year 1936	793,338	39,100	222	2,168	1.58	21.54
January	200,330	22,600	2,280	6,462	4.72	5.44
February	101,030	8,240	2,100	3,608	2.64	2.75
March	51,050	2,160	1,120	1,647	1.20	1.38
April	75,900	18,700	940	2,530	1.85	2.06
May	44,911	3,150	750	1,449	1.06	1.22
June	15,066	908	355	502	.367	.41
July	12,479	714	284	403	.294	.34
August	33,048	5,970	251	1,066	.779	.90
September	31,503	4,380	330	1,050	.767	.86
Water year 1936-37	680,257	22,600	251	1,864	1.36	18.48

James River at Buchanan, Va.

Location.- Water-stage recorder, lat. 37°31'50", long. 79°40'45", at highway bridge, near Chesapeake & Ohio Railway station at Buchanan, Botetourt County. Zero of gage is 802.56 feet above mean sea level.
Drainage area.- 2,084 square miles.
Records available.- August 1895 to September 1937.
Average discharge.- 38 years (1898-1912, 1913-37), 2,540 second-feet.
Extremes.- Maximum discharge during year, 41,400 second-feet Jan. 21 (gage height, 17.12 feet); minimum, 416 second-feet Oct. 16 (gage height, 1.93 feet).
1895-1937: Maximum discharge, about 92,200 second-feet Mar. 27, 1913 (gage height, 31 feet, from floodmarks), from rating curve extended above 32,000 second-feet on basis of velocity-area studies near control section, computation of peak flow over dam at Balcony Falls during flood of Mar. 18, 1936, and comparison of peak discharge and total run-off of that flood at this station with those at other stations in James River Basin; minimum, 255 second-feet several days in September 1932 (gage height, 1.60 feet).
Remarks.- Records excellent except those for period of missing gage heights, Dec. 30 to Jan. 1 (computed on basis of records for stations at Lick Run and Holcombs Rock), which are fair. Gage-height record collected in cooperation with U. S. Weather Bureau.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 26				Apr. 27 to Sept. 30			
1.8	350	6.0	6,300	1.9	432	4.0	2,680
2.0	455	7.0	9,020	2.1	546	5.0	4,480
2.3	650	8.0	11,800	2.4	754	6.0	6,600
2.6	880	10.0	17,900	2.7	1,000	7.0	9,020
3.0	1,280	12.0	24,200	3.0	1,320	8.0	11,800
3.5	1,890	14.0	30,800	3.5	1,940	10.0	17,900
4.0	2,610	16.0	37,600				
5.0	4,470	18.0	44,600				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,020	580	473	7,800	7,290	3,030	1,400	4,680	1,020	626	522	10,100
2	1,580	594	503	12,600	6,830	2,690	1,330	3,900	946	586	492	5,720
3	952	587	534	28,800	5,510	2,530	1,270	3,440	1,060	553	481	3,800
4	706	580	548	18,200	4,570	2,300	1,220	3,010	955	546	459	2,760
5	587	601	580	10,100	4,070	2,230	1,380	2,760	1,080	572	432	2,670
6	503	622	608	6,830	3,490	2,230	1,760	2,600	1,020	704	432	3,710
7	470	650	6,000	5,300	3,120	2,160	1,820	2,520	1,100	740	432	4,580
8	461	678	10,700	5,510	3,400	2,230	1,700	2,220	928	640	475	4,280
9	444	692	4,780	5,300	4,070	2,300	1,700	2,010	822	592	635	3,260
10	455	685	3,030	4,470	9,740	2,160	1,700	1,880	846	559	627	2,600
11	473	671	2,380	3,680	8,510	2,090	1,640	1,740	830	546	5,540	2,150
12	473	650	2,770	3,210	6,160	1,960	1,520	1,620	769	572	2,700	1,810
13	473	629	4,470	3,210	4,880	1,890	1,420	1,620	754	696	1,790	1,620
14	455	615	3,680	3,580	4,370	1,890	1,390	2,690	696	1,000	1,640	1,400
15	428	601	2,860	3,780	3,870	2,380	1,520	3,800	747	682	1,150	1,230
16	1,010	587	2,380	5,300	3,490	2,610	1,820	3,010	711	807	846	1,100
17	13,400	567	2,380	6,670	3,580	2,380	1,890	2,600	1,500	747	725	1,020
18	10,400	554	2,940	14,800	3,300	2,380	1,700	2,300	1,180	668	809	928
19	3,940	548	3,030	14,200	3,120	2,610	1,580	2,080	955	619	842	870
20	2,300	528	3,940	22,600	3,030	2,610	1,510	2,010	838	654	640	830
21	1,700	522	5,510	36,900	3,210	2,610	1,410	2,150	784	740	647	784
22	1,340	515	4,270	19,400	8,140	2,530	1,380	2,010	854	870	769	762
23	1,110	509	3,490	12,100	10,900	2,300	1,350	1,880	800	870	1,030	740
24	970	503	2,940	9,280	7,530	2,160	1,280	1,740	794	718	2,300	711
25	864	497	2,610	8,260	5,940	2,090	2,600	1,680	711	668	3,070	689
26	800	491	2,530	9,540	4,780	2,090	24,900	1,490	647	619	10,700	675
27	744	503	2,530	8,010	3,870	1,890	17,900	1,370	860	546	9,540	682
28	685	491	3,580	6,160	3,400	1,700	10,400	1,320	857	516	4,980	725
29	650	491	5,510	5,380	-	1,640	7,530	1,230	668	486	3,100	696
30	615	473	4,400	5,380	-	1,580	5,940	1,130	754	475	4,370	675
31	594	-	4,900	5,940	-	1,460	-	1,050	-	492	14,200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	51,611	13,400	428	1,665	0.799	0.92
November	17,214	692	473	574	.275	.31
December	100,856	10,700	473	3,253	1.56	1.80
Calendar year 1936	1,207,851	66,700	334	3,300	1.58	21.56
January	314,290	36,900	3,210	10,140	4.87	5.62
February	144,170	10,900	3,030	5,149	2.47	2.57
March	68,710	3,030	1,460	2,216	1.06	1.22
April	105,960	24,900	1,220	3,532	1.69	1.89
May	69,540	4,680	1,050	2,243	1.08	1.24
June	26,276	1,300	647	876	.420	.47
July	20,109	1,000	475	649	.311	.36
August	76,375	14,200	432	2,464	1.18	1.36
September	63,577	10,100	675	2,119	1.02	1.14
Water year 1936-37	1,058,688	36,900	428	2,901	1.39	18.90

James River at Holcombs Rock, Va.

Location.- Water-stage recorder, lat. 37°30', long. 79°15', at Holcombs Rock, Bedford County, half a mile below Pedlar River. Zero of gage is 548.53 feet above mean sea level.

Drainage area.- 3,250 square miles.

Records available.- January 1900 to September 1915 (gage heights only), August 1931 to September 1937.

Extremes.- Maximum discharge during year, 53,100 second-feet Jan. 21 (gage height, 21.15 feet); minimum, 179 second-feet Aug. 16 (gage height, 3.47 feet); minimum daily, 518 second-feet Aug. 6.

1931-37: Maximum discharge, 98,000 second-feet Mar. 18, 1936 (gage height, 30.78 feet), from rating curve extended above 41,000 second-feet on basis of determination of peak flow over dam at Reusens and comparisons of peak discharge and total run-off of flood at this station with those for other stations in James River Basin; minimum, 120 second-feet July 20, 1934 (gage height, 3.30 feet); minimum daily discharge, 288 second-feet Sept. 9, 1932.

Maximum stage known, 31.3 feet in March 1913, from floodmarks, (discharge, about 100,000 second-feet).

Remarks.- Records excellent except those for periods of missing gage heights, Nov. 21-23, Apr. 26, 27, which were computed on basis of recorder graphs and records for stations at Buchanan and Bent Creek and are fair. Flow regulated by power plants above station.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

3.4	152	4.0	472	5.0	1,510	7.0	5,150	12.0	17,000	18.0	39,100
3.6	234	4.3	724	5.5	2,250	8.0	7,250	14.0	23,500	20.0	47,700
3.8	340	4.6	1,030	6.0	3,120	10.0	11,800	16.0	31,000	22.0	56,700

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,510	895	690	10,400	10,400	5,150	2,080	7,620	1,700	1,220	1,270	13,600
2	2,730	1,040	760	16,900	10,400	4,750	2,030	6,410	1,800	1,060	942	8,620
3	1,340	921	870	38,300	8,640	4,160	2,190	5,400	1,990	1,020	728	5,800
4	1,180	962	846	26,200	7,280	3,960	2,040	4,740	1,910	762	752	4,220
5	817	852	877	15,000	6,420	3,530	3,520	4,320	1,900	836	770	3,580
6	858	816	896	10,200	5,610	3,640	4,510	4,160	1,840	1,310	518	6,000
7	752	898	3,820	8,050	5,060	3,170	4,020	3,940	1,910	1,250	582	6,260
8	668	912	14,400	7,620	5,050	3,720	3,470	3,460	1,840	1,150	816	6,300
9	724	1,010	7,640	7,740	5,720	3,630	3,240	3,100	1,530	1,030	1,080	5,430
10	714	1,150	4,860	6,580	9,630	3,640	3,290	3,110	1,450	1,010	1,380	3,980
11	652	882	3,750	5,720	11,900	2,980	2,860	2,700	1,550	1,150	4,510	3,080
12	724	972	3,790	4,930	9,020	3,210	3,020	2,480	1,350	936	4,420	2,980
13	696	924	6,290	5,220	7,320	3,250	2,690	2,560	1,420	1,180	2,480	2,450
14	676	876	5,900	5,360	6,430	2,900	2,460	3,580	1,220	1,830	2,470	2,190
15	712	912	4,570	6,060	5,840	3,420	2,640	5,990	1,130	1,500	1,720	1,990
16	1,460	882	3,750	7,880	5,480	4,120	3,040	5,100	1,160	1,140	1,410	1,750
17	15,800	770	3,630	9,860	5,220	3,880	3,000	4,520	2,340	1,200	1,170	1,630
18	16,100	848	4,010	17,600	5,030	3,840	2,750	3,540	2,800	1,470	987	1,490
19	6,570	866	4,400	20,400	4,970	3,700	2,840	3,340	2,380	1,170	1,230	1,390
20	3,690	813	5,840	31,300	4,850	4,240	2,660	3,100	1,660	1,340	1,160	1,260
21	2,710	800	7,380	50,100	5,570	3,930	2,330	3,180	1,380	1,590	887	1,320
22	2,040	850	6,240	31,600	14,200	4,080	2,400	3,300	2,220	1,700	828	1,260
23	1,850	750	4,990	18,700	16,100	3,820	2,320	2,820	1,560	1,670	1,580	1,130
24	1,470	636	4,140	13,900	12,800	3,460	2,240	3,200	1,360	1,420	2,890	1,200
25	1,490	574	3,500	12,300	9,930	3,320	6,050	2,560	1,290	1,310	4,050	1,190
26	1,250	801	3,520	12,600	7,980	3,270	33,000	2,440	1,250	1,070	6,350	1,160
27	1,240	678	3,350	11,700	6,560	3,110	30,000	2,260	1,240	1,090	13,900	1,090
28	1,200	780	3,990	9,400	5,690	2,710	16,900	2,080	1,360	1,020	7,970	1,590
29	1,150	705	6,540	9,340	-	2,680	12,200	2,020	1,200	828	4,880	1,270
30	799	675	6,600	9,470	-	2,720	9,500	1,740	1,180	706	4,270	1,230
31	900	-	6,450	8,860	-	2,420	-	1,880	-	862	14,100	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	75,472	16,100	652	2,435	0.749	0.86
November	25,450	1,150	574	848	.261	.29
December	136,289	14,400	690	4,461	1.37	1.58
Calendar year 1936	1,817,555	94,400	422	4,966	1.53	20.81
January	449,290	50,100	4,930	14,490	4.46	5.14
February	219,100	16,100	4,850	7,825	2.41	2.51
March	110,410	5,150	2,420	3,562	1.10	1.27
April	175,290	33,000	2,030	5,843	1.80	2.01
May	110,450	7,620	1,740	3,563	1.10	1.27
June	48,920	2,800	1,130	1,631	.502	.56
July	36,832	1,830	708	1,188	.366	.42
August	92,100	14,100	518	2,971	.914	1.05
September	96,440	13,600	1,090	3,215	.989	1.10
Water year 1936-37	1,578,043	50,100	518	4,323	1.33	18.06

James River at Bent Creek, Va.

Location.- Water-stage recorder, lat. 37°32', long. 78°50', at highway bridge at town of Bent Creek, Appomattox County, 150 feet below Bent Creek and 1 mile below Gladstone. Zero of gage is 380.67 feet above mean sea level.
Drainage area.- 3,671 square miles.
Records available.- March 1925 to September 1937.
Average discharge.- 12 years, 4,170 second-feet.
Extremes.- Maximum discharge during year, 53,100 second-feet Jan. 21 (gage height, 15.64 feet); minimum, 540 second-feet Aug. 6 (gage height, 2.63 feet); minimum daily, 756 second-feet Aug. 6.

1925-37: Maximum discharge, 103,000 second-feet Mar. 18, 1936 (gage height, 23.02 feet), from rating curve extended above 30,000 second-feet on basis of velocity-area studies and comparison of peak discharge and total run-off of flood at this station with those at other stations in James River Basin; minimum, 222 second-feet Oct. 13, 14, 1930 (gage height, 2.21 feet); minimum daily, 222 second-feet Oct. 13, 1930.
Remarks.- Records good except those for periods of missing gage heights, Nov. 27, 28, Feb. 18 to Mar. 3, June 18-26, June 30 to July 2, July 6-10, which were computed on basis of recorded ranges in stage and records for stations at Holcombs Rock and Scottsville and are fair. Flow regulated by power plants above station.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 21						Jan. 22 to Sept. 30					
2.8	910	4.5	4,210	9.0	18,800	2.6	510	4.0	2,780	8.0	14,800
3.0	1,200	5.0	5,450	10.0	23,000	2.8	720	4.5	3,870	9.0	18,800
3.3	1,710	6.0	8,290	12.0	32,600	3.0	990	5.0	5,060	10.0	23,000
3.6	2,270	7.0	11,500	14.0	43,600	3.3	1,450	6.0	7,890	12.0	32,600
4.0	3,090	8.0	15,000	16.0	55,500	3.6	1,990	7.0	11,200	14.0	43,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,880	996	1,070	8,820	10,700	6,200	2,420	8,550	2,090	1,700	1,620	16,100
2	3,160	968	956	15,400	11,200	5,700	2,520	7,160	1,840	1,600	1,490	10,600
3	2,720	1,620	1,150	39,500	9,420	5,100	2,280	6,330	2,100	1,100	1,300	7,050
4	1,450	1,380	1,290	33,600	7,700	4,510	2,280	5,340	2,100	1,160	818	4,540
5	1,300	1,000	1,100	19,400	6,880	3,980	2,910	5,130	2,160	844	896	3,880
6	1,310	1,230	1,300	12,600	6,470	3,920	5,520	4,560	2,020	1,400	756	5,670
7	880	1,390	1,850	9,510	5,460	4,000	4,720	4,360	1,680	1,700	886	6,540
8	964	1,060	12,000	8,620	5,140	3,920	4,240	4,350	2,440	1,500	952	6,340
9	956	1,300	9,550	8,650	5,480	4,660	4,120	3,520	1,720	1,500	860	5,820
10	1,130	1,260	7,040	7,590	6,980	4,270	3,530	3,540	1,570	1,400	1,440	4,540
11	1,040	1,450	4,680	6,760	13,100	3,820	3,370	3,180	1,670	1,130	2,040	3,680
12	965	1,310	4,620	5,900	9,920	3,300	3,420	2,960	1,540	1,340	5,340	3,040
13	905	1,170	5,940	6,000	7,640	3,420	3,540	2,860	1,320	1,000	3,670	3,100
14	1,120	1,290	7,100	6,260	6,850	3,280	2,820	4,040	1,570	1,680	2,810	2,280
15	950	1,260	5,540	7,250	6,520	3,480	2,870	5,740	1,310	2,040	2,440	2,190
16	1,110	1,410	4,670	8,370	5,840	4,080	3,100	6,630	1,190	1,220	1,620	2,140
17	11,800	999	4,410	10,800	5,820	4,360	3,360	4,900	3,560	1,220	1,440	1,620
18	18,500	994	4,270	17,600	5,900	4,320	2,990	4,490	3,900	1,690	1,230	1,560
19	9,630	1,190	4,990	22,800	5,800	4,020	3,380	3,560	3,800	1,330	1,260	1,870
20	5,260	1,160	5,960	30,900	5,500	4,310	3,040	3,780	2,700	4,980	1,420	1,480
21	3,600	1,150	7,150	49,200	6,200	4,440	2,940	3,400	2,200	4,080	1,320	1,240
22	2,760	1,300	7,540	39,100	16,000	4,550	2,500	3,840	2,600	2,560	1,400	1,390
23	2,300	1,100	6,130	22,400	19,000	4,160	2,700	3,020	2,500	1,950	1,520	1,130
24	2,080	1,170	4,940	16,100	16,000	4,010	2,270	3,620	1,800	1,780	2,960	1,180
25	1,580	1,010	4,280	13,800	12,000	3,820	8,060	3,220	1,800	1,880	3,880	1,290
26	1,890	978	4,020	13,100	9,600	3,900	30,200	3,010	1,700	2,040	7,640	1,270
27	1,550	900	3,980	13,100	7,900	3,400	35,400	2,480	1,540	1,860	15,900	1,340
28	1,420	950	4,480	10,500	6,900	3,510	20,200	2,210	1,210	1,850	9,920	2,040
29	1,420	1,110	5,640	10,500	-	2,390	15,000	2,390	1,520	1,600	6,220	1,840
30	1,460	906	7,180	9,900	-	3,390	10,700	1,940	1,400	1,500	4,680	1,300
31	1,370	-	6,880	9,520	-	2,730	-	1,880	-	1,380	9,340	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	89,480	18,500	880	2,888	0.786	0.91
November	35,011	1,620	900	1,167	.318	.35
December	151,706	12,000	956	4,894	1.33	1.53
Calendar year 1936	2,125,873	95,700	613	5,808	1.58	21.53
January	493,550	49,200	5,900	15,920	4.34	5.00
February	241,920	19,000	5,140	8,640	2.35	2.45
March	124,950	6,200	2,390	4,031	1.10	1.27
April	196,400	35,400	2,270	6,547	1.78	1.99
May	125,990	8,550	1,880	4,064	1.11	1.28
June	60,550	3,900	1,190	2,018	.550	.61
July	53,934	4,980	844	1,740	.474	.55
August	99,068	15,900	756	3,196	.871	1.00
September	108,060	16,100	1,130	3,602	.981	1.09
Water year 1936-37	1,780,619	49,200	756	4,878	1.33	18.03

James River at Scottsville, Va.

Location.- Water-stage recorder, lat. 37°48', long. 78°30', at highway bridge at Scottsville, Albemarle County, 7 miles above Hardware River. Zero of gage is 253.39 feet above mean sea level.

Drainage area.- 4,571 square miles.

Records available.- February 1925 to September 1937.

Average discharge.- 12 years, 5,150 second-feet.

Extremes.- Maximum discharge during year, 62,200 second-feet Apr. 26 (gage height, 18.80 feet); minimum, 870 second-feet Nov. 27 (gage height, 2.23 feet); minimum daily discharge, 1,060 second-feet Oct. 14.

1925-37: Maximum discharge, 112,000 second-feet Mar. 19, 1936 (gage height, 25.46 feet, from floodmarks); minimum, 302 second-feet Oct. 1, 1930 (gage height, 1.46 feet); minimum daily, 307 second-feet Oct. 15, 1930.

Maximum stage during flood of March 1913, 25.16 feet, from floodmarks (discharge, about 110,000 second-feet).

Remarks.- Records excellent. Flow regulated by power plants above station.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.2	840	4.0	3,190	10.0	18,900
2.4	1,050	5.0	4,880	12.0	26,700
2.6	1,270	6.0	6,790	14.0	35,500
2.8	1,510	7.0	9,110	16.0	45,400
3.0	1,760	8.0	12,000	18.0	57,000
3.5	2,440	9.0	15,300	20.0	70,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,520	1,670	1,240	8,220	14,200	8,270	3,820	12,600	3,340	2,600	1,680	17,600
2	3,820	1,360	1,460	15,800	14,300	7,480	3,480	10,500	3,430	2,690	2,190	13,400
3	3,380	1,390	1,700	41,900	12,800	6,900	3,800	9,180	2,700	2,490	2,060	8,820
4	2,380	2,030	1,860	43,700	10,800	6,380	3,400	8,260	3,500	1,990	1,900	6,950
5	1,700	1,700	1,780	26,600	9,410	6,160	3,910	7,370	3,380	2,020	1,480	5,200
6	1,540	1,360	1,580	16,600	8,660	5,640	9,130	6,950	2,970	1,800	1,340	5,770
7	1,460	1,640	2,500	12,300	8,200	5,520	8,780	6,840	3,200	2,440	1,460	8,460
8	1,080	1,680	7,560	10,100	7,170	5,220	6,900	6,450	3,440	2,290	1,580	7,620
9	1,180	1,440	13,700	9,500	7,290	5,910	7,140	5,880	2,990	2,490	1,680	7,480
10	1,240	1,760	8,890	9,240	8,080	5,500	6,500	5,220	2,980	2,170	1,740	6,500
11	1,390	1,570	6,980	8,130	13,100	5,490	5,560	5,260	2,630	1,980	2,470	5,170
12	1,220	1,800	6,640	7,530	13,200	4,900	5,390	4,780	3,020	2,020	5,370	4,300
13	1,100	1,650	6,430	7,360	10,400	4,880	5,280	4,620	2,460	2,240	6,260	3,660
14	1,060	1,510	7,730	7,550	8,940	5,310	5,140	5,200	2,280	2,660	4,020	3,940
15	1,300	1,600	7,340	8,200	8,160	4,860	4,690	9,020	2,520	2,740	3,550	2,920
16	1,260	1,480	5,920	10,400	8,160	5,650	4,740	8,680	2,230	2,780	2,940	3,060
17	13,500	1,760	5,980	11,600	8,000	6,100	4,840	7,970	3,340	2,190	2,330	2,950
18	20,500	1,250	5,540	20,000	7,600	5,980	5,080	6,990	5,790	2,110	2,060	2,490
19	14,200	1,310	5,780	26,100	7,510	5,830	4,560	5,880	6,100	2,420	1,900	2,260
20	7,490	1,480	8,180	37,400	6,850	5,660	4,620	5,360	4,420	6,060	1,940	2,460
21	4,730	1,500	7,720	51,800	7,540	5,940	4,520	5,220	3,540	12,000	2,240	2,440
22	3,780	1,430	8,840	53,400	20,100	5,500	4,440	4,980	3,440	5,300	2,100	1,940
23	3,080	1,440	7,840	31,000	25,900	5,960	4,070	5,250	4,180	4,000	3,120	2,210
24	2,960	1,480	6,420	21,600	21,400	5,620	4,020	4,630	2,760	3,220	4,100	1,720
25	2,180	1,440	5,920	17,500	15,700	5,320	11,000	5,080	2,760	2,700	5,450	2,000
26	2,140	1,240	5,080	15,600	12,600	5,140	53,600	4,090	2,620	2,550	9,860	1,920
27	2,220	1,190	4,900	16,000	10,400	4,780	46,200	4,560	2,540	3,140	16,500	2,120
28	1,940	1,220	4,530	13,700	9,000	4,820	31,000	3,980	2,640	2,160	14,500	3,780
29	1,790	1,220	5,480	14,800	-	4,330	20,400	3,700	2,200	2,080	8,760	3,420
30	1,820	1,360	7,100	13,500	-	4,170	15,700	3,440	2,600	1,820	6,730	2,680
31	1,780	-	7,560	12,800	-	4,320	-	3,020	-	1,720	7,370	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	112,740	20,500	1,060	3,637	0.796	0.92
November	44,960	2,030	1,190	1,499	.328	.37
December	180,180	13,700	1,240	5,812	1.27	1.46
Calendar year 1936	2,622,769	99,400	704	7,166	1.57	21.35
January	599,930	53,400	7,360	19,360	4.23	4.88
February	315,470	25,900	6,850	11,270	2.47	2.57
March	173,540	8,270	4,170	5,598	1.22	1.41
April	301,710	53,600	3,400	10,060	2.20	2.46
May	190,960	12,600	3,020	6,160	1.35	1.56
June	96,000	6,100	2,200	3,200	.700	.78
July	90,870	12,000	1,720	2,931	.641	.74
August	130,680	16,500	1,340	4,215	.922	1.06
September	145,240	17,600	1,720	4,841	1.06	1.18
Water year 1936-37	2,382,280	53,600	1,060	6,527	1.43	19.39

James River at Cartersville, Va.

Location.- Water-stage recorder, lat. 37°40', long. 78°05', at highway bridge between Pemberton and Cartersville, Cumberland County, 1 mile below Willis River. Zero of gage is 161.57 feet above mean sea level.
Drainage area.- 6,242 square miles.
Records available.- January 1899 to September 1937.
Average discharge.- 37 years (1899-1904, 1905-37), 7,290 second-feet.
Extremes.- Maximum discharge during year, 133,000 second-feet Apr. 26 (gage height, 27.73 feet); minimum, 1,330 second-feet Oct. 1 (gage height, 0.65 foot); minimum daily, 1,520 second-feet Oct. 14.
1899-1937: Maximum discharge, 149,000 second-feet Mar. 19, 1936 (gage height, 28.77 feet, from floodmarks), from rating curve extended above 90,000 second-feet on basis of velocity-area studies, determination of peak flow by slope-area method, and comparison of peak discharge and total run-off of flood at this station with those at other stations in James River Basin; minimum, 320 second-feet Sept. 22, 1932 (gage height, 0.11 foot); minimum daily, 348 second-feet Oct. 5, 1930.
Remarks.- Records good except those for days of missing gage heights, Dec. 8, 9, 12-14, Mar. 14-17, Sept. 11-13, 15, 16, which were computed on basis of recorded ranges in stage and records for stations at Scottsville and Richmond and for James River and Kanawha Canal near Richmond and are fair. Flow regulated by power plants above station.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 26

0.6	1,260	4.0	7,180	14.0	40,600
0.8	1,540	5.0	9,240	16.0	50,100
1.0	1,840	6.0	11,500	18.0	60,000
1.3	2,320	7.0	14,000	20.0	70,000
1.6	2,820	8.0	16,900	22.0	81,500
2.0	3,500	9.0	20,000	24.0	96,000
2.5	4,360	10.0	23,600	26.0	113,000
3.0	5,260	12.0	31,600	28.0	137,000

Apr. 27 to Sept. 30

1.0	1,740	2.0	3,370	4.0	7,100
1.3	2,200	2.5	4,240	5.0	9,220
1.6	2,690	3.0	5,150	6.0	11,500

Note.-Same as preceding table above 6.0 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,560	2,220	1,800	8,830	18,500	10,800	5,260	16,700	3,870	3,460	2,620	17,900
2	5,630	2,040	1,960	12,900	17,400	9,760	5,020	13,800	4,100	3,920	2,650	18,800
3	4,350	1,920	2,260	47,200	16,100	8,890	4,610	12,000	4,430	4,120	2,640	12,500
4	3,540	2,220	2,680	63,000	13,700	8,460	4,760	10,900	4,170	3,180	2,440	9,060
5	2,360	2,340	2,620	39,600	12,000	7,980	4,800	9,650	4,800	3,610	2,220	6,690
6	2,020	2,130	2,340	23,600	10,800	7,520	14,700	9,240	4,540	3,350	1,940	7,170
7	1,940	2,010	2,680	15,700	10,200	7,100	15,300	8,700	4,020	2,920	1,740	12,300
8	1,750	2,260	7,100	13,500	9,520	7,300	11,400	8,160	4,460	3,360	1,940	12,300
9	1,720	2,080	14,000	11,700	9,090	7,500	11,200	7,960	5,170	2,800	1,980	10,600
10	1,920	2,110	11,600	11,300	10,100	7,160	12,400	7,030	4,130	2,960	2,190	8,880
11	1,810	2,360	11,200	10,200	12,600	6,880	9,170	6,440	3,820	2,780	2,340	7,700
12	1,800	2,120	9,500	9,160	16,000	6,780	8,000	6,280	3,880	2,440	6,560	6,200
13	1,620	2,300	9,500	9,220	13,100	6,160	7,320	5,850	3,840	2,400	8,160	5,300
14	1,520	2,180	9,900	10,300	11,200	6,800	7,180	6,840	3,300	3,140	6,950	4,910
15	1,530	2,040	9,460	10,600	10,400	7,000	6,680	15,300	3,020	3,840	4,740	4,400
16	1,720	2,100	7,720	14,700	9,950	7,600	6,480	12,800	3,160	3,380	3,880	4,000
17	10,400	2,060	7,660	13,400	11,400	8,400	6,370	11,300	3,140	3,120	2,920	3,580
18	27,900	2,080	7,900	24,400	10,700	8,420	6,600	8,780	6,450	2,630	2,640	3,510
19	20,100	1,760	6,980	29,100	10,100	8,160	6,260	7,980	7,720	2,560	2,410	3,180
20	10,600	1,880	9,020	48,100	9,130	7,630	5,770	7,240	7,300	6,680	2,370	2,960
21	7,080	1,990	12,000	66,500	9,210	7,600	6,080	6,620	5,300	26,700	2,200	2,630
22	4,940	2,000	10,600	69,200	23,200	7,500	6,080	6,170	4,270	14,800	2,420	2,880
23	4,080	1,960	10,100	47,600	36,500	7,270	5,820	6,500	4,640	8,960	4,880	2,480
24	3,540	1,920	8,270	28,700	28,300	7,090	5,340	6,460	4,760	5,760	6,380	2,640
25	3,380	2,060	7,080	22,100	20,800	6,960	17,600	5,860	3,200	4,080	6,900	2,220
26	2,480	1,940	6,560	18,800	16,700	6,780	110,000	5,860	3,250	3,530	15,400	2,460
27	2,810	1,800	5,730	17,600	13,600	6,380	103,000	5,160	3,140	4,340	17,200	2,470
28	2,500	1,720	5,680	16,500	11,800	6,020	62,500	5,320	3,910	4,100	19,200	4,050
29	2,420	1,780	5,580	21,100	-	6,180	32,500	5,760	3,560	2,950	12,100	6,550
30	2,280	1,810	6,850	20,700	-	5,200	21,800	5,380	2,950	2,600	10,400	4,320
31	2,300	-	8,440	16,900	-	5,440	-	4,440	-	2,360	10,900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	145,600	27,900	1,520	4,697	0.752	0.87
November	61,190	2,360	1,720	2,040	.327	.36
December	224,670	14,000	1,800	7,247	1.16	1.34
Calendar year 1936	3,430,700	143,000	1,000	9,373	1.50	20.44
January	772,210	69,200	8,830	24,910	3.99	4.60
February	402,100	36,500	9,090	14,360	2.30	2.40
March	228,720	10,800	5,200	7,378	1.18	1.36
April	529,700	110,000	4,610	17,660	2.83	3.16
May	256,480	16,700	4,440	8,274	1.33	1.53
June	128,300	7,720	2,950	4,277	.685	.76
July	146,830	26,700	2,360	4,736	.759	.88
August	173,310	19,200	1,740	5,591	.896	1.03
September	194,640	18,800	2,220	6,488	1.04	1.16
Water year 1936-37	3,263,750	110,000	1,520	8,942	1.43	19.45

James River near Richmond, Va.

Location.- Water-stage recorder, lat. 37°33'47", long. 77°32'50", revised, at Westham highway bridge, 3 miles west of city limits of Richmond, Henrico County. Zero of gage is 98.82 feet above mean sea level.
Drainage area.- 6,757 square miles.
Records available.- October 1934 to September 1937.
Extremes.- Maximum discharge during year, 148,000 second-feet Apr. 27 (gage height, 22.65 feet), from rating curve extended above 90,000 second-feet; minimum, 550 second-feet Oct. 1 (gage height, 3.10 feet); minimum daily, 768 second-feet Oct. 1.
1934-37: Maximum discharge, 158,000 second-feet Mar. 19, 1936 (gage height, 23.42 feet), from rating curve extended above 90,000 second-feet on basis of velocity-area studies and comparisons of peak discharge and total run-off of flood at this station with those at other stations in James River Basin; minimum, 208 second-feet Sept. 25, 1936 (gage height, 2.74 feet); minimum daily discharge, 274 second-feet Sept. 25, 1936.
Remarks.- Records excellent except those for period of missing gage heights Aug. 9-14 (computed on basis of recorder charts, weather records, and records for station at Cartersville and for James River & Kanawha Canal near Richmond), and those below 1,000 second-feet, which are fair. Flow regulated by power plants above station. Gage-height record collected in cooperation with U. S. Weather Bureau. James River & Kanawha Canal diverts above station.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

3.1	550	4.5	3,500	8.0	16,200	16.0	71,100
3.3	840	5.0	5,040	10.0	26,600	18.0	90,300
3.6	1,350	6.0	8,420	12.0	39,800	20.0	114,000
4.0	2,170	7.0	12,100	14.0	54,700	22.6	148,000

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	768	1,520	1,080	8,540	18,100	11,100	4,940	17,900	3,620	2,800	2,900	15,400
2	4,750	1,480	1,080	10,400	17,800	10,300	4,580	14,800	3,500	5,190	2,320	21,000
3	4,260	1,260	1,320	36,500	16,300	9,380	4,580	12,700	3,800	4,300	2,220	15,100
4	3,940	1,210	1,640	62,700	14,200	8,470	4,720	11,400	3,720	3,500	2,160	10,600
5	2,500	1,660	1,860	50,100	12,410	8,040	4,320	10,300	4,840	2,360	1,960	9,000
6	1,500	1,610	2,080	27,200	11,200	7,680	3,500	9,380	4,410	3,680	1,680	8,740
7	1,300	1,410	1,580	17,800	10,100	7,270	17,800	9,120	3,760	2,610	1,770	11,800
8	1,260	1,540	3,320	14,600	9,960	6,820	13,100	9,290	3,780	2,680	1,580	14,500
9	1,020	1,620	9,560	12,400	9,340	6,800	11,400	8,810	4,640	2,660	1,300	11,700
10	1,320	1,350	13,800	11,400	9,900	7,400	14,200	7,340	4,150	2,780	1,400	10,100
11	1,760	1,460	11,600	10,600	11,500	6,610	11,400	6,370	3,430	2,780	1,600	8,520
12	1,190	1,580	10,100	9,570	15,000	6,640	8,660	6,260	3,940	1,980	4,100	6,720
13	1,100	1,460	10,500	9,200	13,900	6,080	7,620	5,740	3,900	1,830	7,500	5,150
14	989	1,500	9,090	10,200	12,300	6,100	7,240	5,760	2,000	1,990	7,600	4,340
15	876	1,460	9,120	10,800	10,800	7,140	6,860	12,300	2,430	3,060	5,410	4,410
16	910	1,330	8,500	14,500	9,800	7,360	6,580	14,900	2,540	2,940	4,070	3,330
17	1,500	1,400	7,300	14,600	11,500	8,240	6,980	11,900	2,630	3,100	3,080	3,340
18	25,000	1,340	7,940	21,500	11,900	8,800	6,690	9,800	3,740	2,420	2,230	3,610
19	22,300	1,320	7,240	28,900	10,700	8,480	6,220	8,400	7,660	2,020	2,030	3,120
20	12,800	1,080	7,490	43,400	9,800	8,420	5,370	7,540	8,260	2,820	1,980	2,520
21	8,300	1,190	12,200	60,300	9,100	7,940	5,700	6,700	5,480	21,100	2,320	2,580
22	5,110	1,840	10,700	69,400	14,800	7,640	6,220	6,890	4,400	22,800	2,080	2,200
23	3,920	1,360	10,700	59,300	35,000	6,650	5,840	6,240	3,740	11,500	2,820	2,080
24	3,880	1,280	9,010	31,900	28,700	7,120	5,880	6,380	4,350	8,040	6,790	2,100
25	3,500	1,200	7,500	23,400	22,100	7,180	7,840	5,540	3,280	4,980	8,370	2,300
26	2,440	1,320	6,680	19,400	17,400	6,660	76,000	5,790	2,980	3,240	13,300	2,050
27	1,690	1,160	5,780	17,100	14,500	6,600	140,000	4,780	3,000	3,340	16,200	1,920
28	2,020	1,060	5,460	16,700	12,400	6,220	97,900	5,320	2,600	4,360	20,200	2,100
29	1,660	950	5,060	20,200	-	5,780	44,800	6,020	3,720	2,890	15,800	5,560
30	1,580	1,020	5,960	23,900	-	5,220	24,000	5,620	2,600	2,430	16,700	4,850
31	1,540	-	7,940	17,800	-	4,820	-	4,460	-	2,690	16,100	-

Month	Observed				Diversion by James River & Kanawha Canal* (mean)	Adjusted for diversion		
	Second-foot-days	Maximum	Minimum	Mean		Mean	Per square mile	Run-off in inches
October	126,743	25,000	768	4,088	709	4,797	0.710	0.82
November	41,090	1,940	950	1,370	735	2,105	.312	.35
December	213,190	13,800	1,080	6,877	796	7,673	1.14	1.31
Calendar year 1936	3,370,145	136,000	274	9,208	-	-	-	-
January	784,310	69,400	8,540	25,300	832	26,130	3.97	4.46
February	400,500	35,000	9,100	14,300	818	15,120	2.24	2.33
March	228,960	11,100	4,820	7,386	774	8,160	1.21	1.40
April	577,240	140,000	4,320	19,240	722	19,960	2.95	3.29
May	263,570	17,900	4,460	8,502	706	9,206	1.36	1.57
June	117,880	8,260	2,460	3,929	687	4,616	.683	.76
July	142,870	22,800	1,830	4,809	680	5,488	.783	.90
August	179,570	20,200	1,300	5,793	676	6,466	.957	1.10
September	200,770	21,000	1,920	6,692	686	7,378	1.09	1.22
Water year 1936-37	3,276,693	140,000	768	8,977	734	9,712	1.44	19.51

*James River & Kanawha Canal diverts above station (see records of James River & Kanawha Canal near Richmond, Va.).

Warm Spring at Warm Springs, Va.

Location.- Water-stage recorder, lat. 38°03'11", long. 79°46'52", just above V-shaped weir about 200 feet below Warm Spring, at town of Warm Springs, Bath County.

Records available.- June 1928 to September 1937.

Extremes.- Maximum daily discharge during year, 2.86 second-feet Apr. 4; minimum, 2.03 second-feet Nov. 6.
1928-37: Maximum daily discharge, 5.45 second-feet Nov. 18, 1929 (flow probably increased somewhat by local surface run-off); minimum, 1.35 second-feet Feb. 25, 28, 1931.

Remarks.- Records fair except those for periods of missing or faulty gage heights, Oct. 16-20, Nov. 15-17, Dec. 31, Jan. 2, 3, Jan. 20 to Feb. 22, Apr. 24-28, May 28 to July 8, July 20-22, Aug. 13 to 29, which were estimated on basis of weather records and recorder graphs and are poor.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.2	1.79
1.3	2.35
1.4	3.00

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.30	2.12	2.12	2.23	2.60	2.68	2.74	2.76	2.70	2.50	2.09	2.20
2	2.30	2.08	2.24	2.30	2.60	2.66	2.72	2.70	2.70	2.50	2.16	2.20
3	2.24	2.14	2.23	2.35	2.60	2.66	2.78	2.65	2.70	2.50	2.22	2.20
4	2.25	2.08	2.22	2.40	2.60	2.68	2.86	2.66	2.70	2.50	2.16	2.20
5	2.26	2.06	2.20	2.36	2.60	2.74	2.74	2.68	2.70	2.50	2.24	2.20
6	2.24	2.03	2.37	2.26	2.70	2.76	2.74	2.80	2.70	2.50	2.32	2.20
7	2.14	2.08	2.35	2.28	2.70	2.76	2.74	2.70	2.70	2.50	2.35	2.20
8	2.18	2.10	2.24	2.26	2.70	2.74	2.72	2.69	2.70	2.50	2.27	2.20
9	2.23	2.08	2.30	2.22	2.70	2.76	2.76	2.72	2.70	2.48	2.10	2.20
10	2.20	2.06	2.28	2.30	2.70	2.76	2.76	2.71	2.70	2.42	2.30	2.20
11	2.21	2.10	2.29	2.35	2.70	2.77	2.70	2.71	2.60	2.46	2.22	2.20
12	2.15	2.10	2.30	2.33	2.70	2.76	2.72	2.74	2.60	2.38	2.18	2.20
13	2.18	2.09	2.30	2.31	2.70	2.76	2.72	2.70	2.60	2.39	2.20	2.20
14	2.18	2.13	2.28	2.32	2.70	2.76	2.77	2.79	2.60	2.49	2.20	2.20
15	2.14	2.15	2.20	2.46	2.70	2.76	2.74	2.71	2.60	2.46	2.20	2.20
16	2.20	2.15	2.08	2.36	2.70	2.76	2.76	2.75	2.60	2.41	2.20	2.20
17	2.20	2.15	2.10	2.47	2.70	2.76	2.76	2.66	2.60	2.34	2.20	2.20
18	2.20	2.16	2.06	2.39	2.70	2.76	2.72	2.72	2.60	2.37	2.20	2.20
19	2.20	2.21	2.14	2.30	2.70	2.78	2.75	2.76	2.60	2.35	2.20	2.20
20	2.20	2.16	2.22	2.40	2.70	2.74	2.74	2.73	2.60	2.30	2.20	2.20
21	2.20	2.20	2.21	2.40	2.70	2.74	2.74	2.73	2.60	2.25	2.20	2.20
22	2.21	2.18	2.20	2.40	2.70	2.74	2.80	2.77	2.60	2.20	2.20	2.20
23	2.12	2.18	2.20	2.40	2.74	2.77	2.72	2.80	2.60	2.20	2.20	2.20
24	2.22	2.16	2.20	2.40	2.74	2.78	2.70	2.78	2.60	2.17	2.20	2.20
25	2.21	2.17	2.14	2.40	2.74	2.77	2.70	2.74	2.50	2.16	2.20	2.20
26	2.22	2.16	2.10	2.50	2.75	2.78	2.70	2.72	2.50	2.18	2.20	2.20
27	2.18	2.18	2.12	2.50	2.72	2.79	2.70	2.73	2.50	2.12	2.20	2.20
28	2.14	2.18	2.12	2.50	2.70	2.78	2.70	2.70	2.50	2.09	2.20	2.20
29	2.14	2.22	2.14	2.50	-	2.78	2.68	2.70	2.50	2.12	2.20	2.20
30	2.12	2.15	2.15	2.50	-	2.84	2.72	2.70	2.50	2.16	2.20	2.16
31	2.12	-	2.20	2.50	-	2.72	-	2.70	-	2.12	2.20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	68.08	2.30	2.12	2.20		
November	64.01	2.22	2.03	2.13		
December	68.30	2.37	2.06	2.20		
Calendar year 1936	951.92	3.47	2.03	2.60		
January	73.65	2.50	2.22	2.38		
February	75.29	2.75	2.60	2.69		
March	85.30	2.84	2.66	2.75		
April	82.10	2.86	2.68	2.74		
May	94.41	2.80	2.65	2.72		
June	78.40	2.70	2.50	2.61		
July	72.61	2.50	2.09	2.34		
August	68.41	2.35	2.09	2.21		
September	65.96	2.20	2.16	2.20		
Water year 1936-37	886.52	2.86	2.03	2.43		

Dunlap Creek near Covington, Va.

Location.- Chain gage, lat. 37°49', long. 80°03', at highway bridge, 2 miles below Ogle Creek and 3 miles west of Covington, Alleghany County. Zero of gage is 1,294.21 feet above mean sea level.

Drainage area.- 166 square miles.

Records available.- December 1922 to September 1937.

Extremes.- Maximum discharge observed during year, 5,990 second-feet Jan. 20 (gage height, 8.90 feet); minimum, 15 second-feet Aug. 3 (gage height, 1.00 foot)
1928-37: Maximum discharge observed, 8,370 second-feet Mar. 17, 1936 (gage height, 10.52 feet, from floodmarks), from rating curve extended above 4,500 second-feet on basis of velocity-area studies and comparison of peak discharge and total run-off of flood at this station with those for other stations in James River Basin; minimum, 8 second-feet Aug. 27, 28, 30, 1932 (gage height, 0.88 foot).

Remarks.- Records good. Gage read twice daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.0	15	3.0	486
1.2	34	3.5	715
1.4	57	4.0	990
1.6	87	5.0	1,680
1.8	123	6.0	2,540
2.0	167	7.0	3,580
2.3	246	8.0	4,780
2.6	338	9.0	6,130

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	34	25	528	528	167	97	246	41	22	19	232
2	41	34	30	2,270	408	156	90	205	37	22	17	125
3	32	32	28	1,920	322	144	85	180	41	20	16	90
4	25	32	28	765	261	144	84	167	45	26	19	81
5	22	34	26	408	232	167	87	156	42	30	18	71
6	24	42	34	276	192	180	81	156	37	34	18	74
7	22	37	1,170	261	180	167	77	127	37	28	19	144
8	22	41	338	261	291	180	74	115	35	24	19	112
9	23	41	180	246	765	180	77	102	33	24	18	84
10	25	41	127	205	875	167	74	94	32	34	17	65
11	24	40	114	180	507	156	71	89	31	29	372	56
12	22	38	192	156	355	144	68	84	28	26	68	50
13	22	37	192	167	276	140	63	84	26	25	60	45
14	20	36	167	167	261	156	68	108	26	32	41	41
15	22	36	156	276	218	192	205	110	30	32	32	38
16	29	36	131	528	205	205	291	104	31	29	28	35
17	570	34	131	820	192	192	232	101	32	26	26	32
18	232	32	156	1,310	218	232	192	94	28	22	25	31
19	131	32	156	615	232	232	167	87	28	21	24	30
20	89	30	570	3,470	232	218	140	85	27	31	26	28
21	67	29	338	1,760	291	205	127	76	26	32	26	28
22	57	28	276	820	1,110	180	123	73	32	30	30	27
23	50	28	218	528	615	156	115	68	28	26	30	25
24	43	28	180	665	427	156	101	65	24	24	68	25
25	41	27	167	765	322	167	1,170	57	23	21	112	24
26	38	27	167	715	246	142	2,270	56	24	22	261	23
27	38	28	180	466	205	123	765	55	24	20	138	25
28	36	26	390	338	192	123	486	49	24	20	97	26
29	35	26	291	446	-	119	372	49	22	19	85	25
30	33	26	246	427	-	108	291	45	21	20	63	23
31	33	-	390	408	-	101	-	43	-	20	408	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,933	570	20	62.4	0.376	0.43
November	992	42	26	33.1	.199	.22
December	6,794	1,170	25	219	1.32	1.52
Calendar year 1936	86,718	6,070	16	237	1.43	19.41
January	22,167	3,470	156	715	4.31	4.97
February	10,158	1,110	180	363	2.19	2.28
March	5,099	232	101	164	.988	1.14
April	8,143	2,270	63	271	1.63	1.82
May	3,130	246	43	101	.608	.70
June	915	45	21	30.5	.184	.21
July	791	34	19	25.5	.154	.18
August	2,180	408	16	70.3	.423	.49
September	1,715	232	23	57.2	.345	.38
Water year 1936-37	64,017	3,470	16	175	1.05	14.34

Potts Creek near Covington, Va.

Location.- Chain gage, lat. 37°44', long. 80°02', at highway bridge, a quarter of a mile above Hays Creek and 3 miles southwest of Covington, Alleghany County. Zero of gage is 1,257.61 feet above mean sea level.

Drainage area.- 158 square miles.

Records available.- December 1928 to September 1937.

Extremes.- Maximum discharge observed during year, 3,710 second-feet Jan. 20 (gage height, 6.40 feet); minimum, 24 second-feet Aug. 3, 4 (gage height, 1.44 feet).
1928-37: Maximum discharge observed, about 9,710 second-feet Jan. 23, 1935 (gage height, 10.10 feet), from rating curve extended above 4,000 second-feet on basis of velocity-area studies; minimum, 13 second-feet Nov. 29, 1930 (gage height, 1.30 feet).

Remarks.- Records fair. Gage read twice daily.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 20				Jan. 21 to Sept. 30			
1.4	18	3.0	695	1.4	20	3.0	695
1.6	39	3.5	1,070	1.6	43	3.5	1,070
1.8	72	4.0	1,470	1.8	77	4.0	1,470
2.0	118	5.0	2,320	2.0	126	5.0	2,320
2.3	236	6.0	3,270	2.3	242		
2.6	412	7.0	4,460	2.6	412		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	247	45	33	550	585	188	104	339	58	40	28	228
2	182	45	40	1,960	550	192	102	284	64	36	27	152
3	87	42	44	1,870	446	196	97	263	69	34	24	158
4	61	42	45	1,070	400	201	95	247	62	33	24	112
5	58	39	42	732	328	205	107	224	58	62	26	158
6	52	48	58	515	278	205	121	188	55	64	27	173
7	44	54	770	419	252	201	118	169	55	49	28	139
8	42	54	386	325	278	214	115	155	52	43	28	136
9	39	50	213	290	419	210	110	136	49	39	26	99
10	37	51	186	268	620	192	102	132	46	35	28	92
11	35	50	174	247	515	185	99	123	46	56	110	81
12	33	67	258	218	400	177	99	118	44	84	77	71
13	32	61	218	218	362	169	95	118	39	52	84	64
14	32	58	186	204	328	181	102	196	38	36	60	56
15	29	58	174	252	311	177	166	258	44	90	44	50
16	48	52	166	274	284	166	169	224	40	55	36	48
17	1,230	54	199	845	252	181	155	185	38	43	33	46
18	695	51	213	1,470	233	181	152	166	64	39	33	44
19	620	46	336	1,070	242	177	145	155	50	35	33	43
20	515	42	620	2,500	237	173	132	139	44	38	33	43
21	374	40	348	2,230	387	169	126	123	43	52	35	40
22	227	39	290	1,230	645	158	123	112	49	46	50	40
23	178	38	241	845	620	152	112	104	43	39	52	40
24	116	37	204	732	515	152	104	107	40	35	129	38
25	98	35	195	658	400	162	412	99	39	33	196	35
26	82	35	208	620	316	148	1,470	95	36	31	453	33
27	68	35	279	550	268	142	845	92	35	29	252	34
28	58	34	466	466	237	123	620	79	43	28	162	40
29	56	37	460	658	-	118	515	73	64	28	104	38
30	51	35	412	550	-	115	406	69	62	28	181	34
31	48	-	446	585	-	110	-	64	-	30	252	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,474	1,230	29	177	1.12	1.29
November	1,374	67	34	45.8	.290	.32
December	7,910	770	33	255	1.61	1.86
Calendar year 1936	93,670	4,710	23	256	1.62	22.05
January	24,421	2,500	204	788	4.99	5.75
February	10,908	845	233	390	2.47	2.57
March	5,320	214	110	172	1.09	1.26
April	7,118	1,470	95	237	1.50	1.67
May	4,836	339	64	156	.987	1.14
June	1,469	69	35	49.0	.310	.35
July	1,342	90	28	43.3	.274	.32
August	2,675	453	24	86.3	.546	.63
September	2,365	228	33	78.8	.499	.56
Water year 1936-37	75,212	2,500	24	206	1.30	17.72

Cowpasture River near Clifton Forge, Va.

Location.- Water-stage recorder, lat. 37°48', long. 79°46', at iron highway bridge, 1½ miles above junction with Jackson River and 4 miles southeast of Clifton Forge, Alleghany County. Zero of gage is 1,006.93 feet above mean sea level.

Drainage area.- 456 square miles.

Records available.- May 1907 to August 1908, March 1925 to September 1937.

Average discharge.- 12 years (1925-37), 495 second-feet.

Extremes.- Maximum discharge during year, 10,100 second-feet Jan. 21 (gage height, 11.57 feet), from rating curve extended above, 4,000 second-feet; minimum, 70 second-feet Aug. 6, 7 (gage height, 1.85 feet).

1907-8, 1925-37: Maximum discharge, about 22,400 second-feet Mar. 18, 1936 (gage height, 18.62 feet), from rating curve extended above 4,000 second-feet on basis of velocity-area studies and comparison of peak discharge and total run-off of flood at this station with those for other stations in James River Basin; minimum, 38 second-feet Sept. 2, 1932 (gage height, 1.70 feet).

Maximum stage known, 20.8 feet, from floodmarks, sometime in March 1913 (discharge, about 26,600 second-feet).

Remarks.- Records good except those above 6,000 second-feet, which are fair.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Jan. 22 to Apr. 26)

1.8	61	2.6	300	3.6	802	6.0	2,660
2.0	100	2.8	388	4.0	1,040	7.0	3,770
2.2	156	3.0	482	4.5	1,360	8.0	4,950
2.4	222	3.3	636	5.0	1,740	10.0	7,670

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	264	108	93	2,100	1,360	685	388	890	191	110	96	1,580
2	202	113	100	3,450	1,230	620	374	746	191	100	96	860
3	144	110	113	5,040	1,010	584	360	658	191	100	93	574
4	105	110	132	2,720	890	537	347	568	188	100	80	434
5	89	126	144	1,540	802	517	360	522	178	108	87	397
6	89	123	172	1,070	740	502	420	507	458	121	76	416
7	87	141	2,730	950	679	477	458	477	268	116	82	860
8	80	132	1,730	1,330	774	487	448	425	208	123	182	831
9	87	129	860	1,100	982	502	463	397	182	138	113	610
10	100	126	605	920	2,560	477	512	360	162	110	179	463
11	116	123	522	802	1,740	463	492	334	162	121	172	379
12	118	113	950	701	1,260	453	458	308	169	169	202	334
13	108	113	1,160	674	1,070	444	434	308	144	132	208	292
14	91	105	802	690	950	517	429	453	135	139	274	245
15	87	108	610	831	860	712	463	477	126	222	159	212
16	185	110	517	1,200	831	674	468	434	123	185	123	191
17	3,380	108	615	1,460	950	626	444	388	132	141	108	172
18	1,540	108	746	2,460	860	690	420	356	138	141	103	156
19	615	100	663	2,180	831	740	397	351	169	118	96	147
20	388	100	890	4,850	774	724	379	472	156	135	121	141
21	280	100	950	7,630	862	724	365	448	153	234	153	135
22	226	98	740	3,620	2,920	690	370	411	182	268	123	126
23	195	98	605	2,270	2,270	636	360	379	198	178	351	121
24	175	98	512	1,780	1,500	610	347	356	172	141	425	116
25	159	96	472	1,820	1,200	594	1,310	313	141	121	672	110
26	147	100	472	2,090	980	563	6,130	280	126	108	2,810	110
27	141	100	512	1,540	831	502	3,730	272	123	105	2,250	108
28	126	105	831	1,230	746	468	2,180	268	126	96	980	116
29	123	96	1,070	1,200	-	448	1,580	249	118	91	610	116
30	118	89	920	1,130	-	425	1,160	230	110	98	482	113
31	113	-	1,190	1,100	-	406	-	212	-	89	1,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	9,678	3,380	80	312	0.684	0.79
November	3,286	141	89	110	.241	.27
December	22,428	2,730	93	723	1.59	1.83
Calendar year 1936	230,655	15,600	66	630	1.38	18.80
January	61,478	7,630	674	1,983	4.35	5.02
February	32,462	2,920	679	1,159	2.54	2.64
March	17,497	740	406	564	1.24	1.43
April	26,046	6,130	347	868	1.90	2.12
May	12,849	890	212	414	.908	1.05
June	5,120	458	110	171	.375	.42
July	4,158	268	89	134	.294	.34
August	12,506	2,810	76	403	.884	1.02
September	10,465	1,580	108	349	.765	.85
Water year 1936-37	217,973	7,630	76	597	1.31	17.78

Craig Creek at Parr, Va.

Location.- Water-stage recorder, lat. 37°39'55", long. 79°54'40", at bridge of Chesapeake & Ohio Railway 800 feet from station at Parr, Botetourt County, and 12 miles above mouth. Prior to June 7, 1937, chain gage on bridge at same site and datum. Zero of gage is 992.50 feet above mean sea level.

Drainage area.- 331 square miles.

Records available.- April 1925 to September 1937.

Average discharge.- 12 years, 389 second-feet.

Extremes.- Maximum discharge observed during year, 7,400 second-feet Jan. 20 (gage heights, 10.32 feet); minimum, 44 second-feet Aug. 5 (gage heights, 3.52 feet).
1925-37: Maximum discharge observed, 21,500 second-feet Jan. 23, 1935 (gage height, 15.85 feet), from rating curve extended above 6,000 second-feet on basis of velocity-area studies; minimum, 29 second-feet Oct. 1, 5, 1930 (gage height, 3.42 feet).

Remarks.- Records good. Chain gage read twice daily prior to June 7.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

3.4	34	5.5	790
3.6	52	6.0	1,180
3.8	79	6.5	1,650
4.0	116	7.0	2,190
4.3	192	8.0	3,470
4.6	302	9.0	4,990
5.0	490	10.3	7,400

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,100	86	67	1,650	1,450	392	192	590	129	79	62	1,600
2	346	94	68	2,430	1,100	364	186	520	118	72	54	812
3	192	96	79	5,360	850	351	180	455	131	66	49	540
4	138	94	86	2,800	688	346	178	411	138	63	47	406
5	110	100	82	1,450	595	346	199	378	125	70	45	324
6	94	104	88	956	515	364	302	383	114	123	46	870
7	88	104	1,140	748	470	364	311	342	100	91	47	842
8	81	104	960	631	562	374	270	302	94	74	48	562
9	76	112	551	540	561	374	270	270	91	66	48	430
10	82	116	416	480	880	337	258	247	98	60	52	346
11	76	110	364	435	865	324	240	225	108	58	202	286
12	76	106	500	402	694	311	225	208	104	63	445	244
13	68	104	619	515	584	294	212	212	88	70	274	202
14	64	100	500	714	540	294	212	940	81	66	186	175
15	62	100	421	681	495	320	236	1,100	89	76	138	153
16	76	94	387	858	445	311	247	694	112	84	110	138
17	4,830	89	460	989	421	294	229	535	206	72	91	125
18	1,100	88	530	3,260	364	290	218	445	166	62	84	116
19	535	84	470	2,250	346	311	212	383	127	57	74	110
20	364	79	755	6,230	328	302	205	337	114	64	86	100
21	262	79	762	5,330	374	298	199	294	106	74	72	94
22	205	79	607	2,430	1,020	278	199	258	100	86	157	89
23	178	76	515	1,600	1,060	255	192	232	89	81	170	86
24	158	76	465	1,270	805	247	180	244	88	68	282	81
25	143	73	440	1,100	643	262	328	270	78	89	460	78
26	127	73	455	1,060	540	270	4,510	218	73	62	1,320	74
27	112	70	510	880	460	232	1,600	205	72	60	996	73
28	104	70	805	734	421	222	1,020	186	70	56	584	79
29	100	68	727	1,020	-	218	783	166	143	52	360	84
30	94	70	694	1,020	-	212	688	153	96	51	477	79
31	89	-	805	932	-	205	-	138	-	57	3,190	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	11,130	4,830	62	359	1.08	1.24
November	2,698	116	68	89.9	.272	.30
December	15,348	1,140	67	495	1.50	1.73
Calendar year 1936	190,200	11,800	41	520	1.57	21.35
January	51,254	6,230	402	1,653	4.99	5.75
February	18,066	1,450	328	645	1.95	2.03
March	9,362	392	205	302	.912	1.05
April	14,281	4,510	178	476	1.44	1.61
May	11,341	1,100	138	366	1.11	1.28
June	3,248	206	70	108	.326	.36
July	2,172	123	51	70.1	.212	.24
August	10,256	3,190	45	331	1.00	1.15
September	9,198	1,600	73	307	.927	1.03
Water year 1936-37	158,354	6,230	45	434	1.31	17.77

Meadow Creek at Newcastle, Va.

Location.- Water-stage recorder, lat. 37°29'35", long. 80°06'35", 500 feet above Newcastle-Salem highway bridge and just outside town limits of Newcastle, Craig County.

Drainage area.- 13.8 square miles.

Records available.- September 1929 to March 1937.

Extremes.- Maximum discharge during period, 152 second-feet Jan. 20 (gage height, 3.12 feet), from rating curve extended above 30 second-feet; minimum, 5.2 second-feet Nov. 28 (gage height, 1.17 feet).

1929-37: Maximum discharge, 242 second-feet Oct. 2, 1929 (gage height, 3.64 feet); minimum, 0.8 second-foot Sept. 4, 1930 (gage height, 0.91 foot).

Remarks.- Records poor. None for Mar. 7 to Sept. 30.

Rating table for period Oct. 1, 1936, to Mar. 6, 1937 (gage height, in feet, and discharge, in second-feet)

1.1	3.6
1.3	8.4
1.5	14
1.7	22
2.0	41
2.3	67
2.7	108
3.1	152

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	8.7	5.9	44	43	20						
2	14	9.2	6.6	86	36	20						
3	12	7.9	6.9	122	29	19						
4	11	7.9	6.4	86	25	19						
5	10	8.9	5.9	46	24	17						
6	10	7.4	11	33	21	17						
7	8.9	7.6	30	28	22	-						
8	8.7	8.7	21	23	22	-						
9	8.2	8.7	17	22	24	-						
10	8.7	7.9	16	21	27	-						
11	8.7	7.4	15	18	26	-						
12	8.2	7.9	17	17	24	-						
13	8.4	7.4	18	20	22	-						
14	8.2	6.9	17	20	22	-						
15	8.2	6.4	16	29	21	-						
16	37	6.2	17	33	20	-						
17	117	6.4	26	54	20	-						
18	49	6.2	23	82	19	-						
19	22	6.9	21	91	18	-						
20	17	6.6	32	141	18	-						
21	13	6.4	25	128	21	-						
22	12	6.4	22	90	30	-						
23	11	6.4	19	66	27	-						
24	10	6.4	18	43	24	-						
25	10	6.4	18	40	22	-						
26	9.7	6.2	18	36	19	-						
27	8.7	5.4	24	30	19	-						
28	8.4	5.4	30	28	20	-						
29	8.2	5.7	28	30	-	-						
30	7.4	5.9	27	31	-	-						
31	7.4	-	39	40	-	-						

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	508.0	117	7.4	16.4	1.19	1.37
November	211.8	9.2	5.4	7.06	.512	.57
December	596.7	39	5.9	19.2	1.39	1.60
Calendar year 1936	6,915.2	194	1.9	18.9	1.37	18.65
January	1,578	141	17	50.9	3.69	4.25
February	665	43	18	23.8	1.72	1.79
March 1-6	112	20	17	18.7	1.36	.30
April	-	-	-	-	-	-
May	-	-	-	-	-	-
June	-	-	-	-	-	-
July	-	-	-	-	-	-
August	-	-	-	-	-	-
September	-	-	-	-	-	-
Water year						

Johns Creek at Newcastle, Va.

Location.- Water-stage recorder, lat. 37°30', long. 80°06', at highway bridge, 500 feet east of town limits of Newcastle, Craig County, and a quarter of a mile above mouth. Prior to June 7, 1937, chain gage at same site and datum.

Drainage area.- 106 square miles.

Records available.- April 1926 to September 1937.

Average discharge.- 11 years, 127 second-feet.

Extremes.- Maximum discharge observed during year, 2,150 second-feet Jan. 20 (gage height, 8.00 feet); minimum daily, 11 second-feet Aug. 5-7.
1926-37: Maximum discharge observed, 6,000 second-feet Jan. 23, 1935 (gage height, 10.80 feet), from rating curve extended above 3,200 second-feet on basis of velocity-area studies; minimum, 7 second-feet Aug. 11, Sept. 3, 6, 7, 1930 (gage height, 2.26 feet).

Remarks.- Records fair prior to June 7, 1937, and good thereafter. Discharge for Aug. 5-7 computed on basis of observer's notes, weather records, and records for Craig Creek at Parr. Chain gage read twice daily prior to June 7, 1937.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.5	10	4.0	136	6.5	900
2.7	17	4.5	212	7.0	1,230
3.0	33	5.0	312	7.5	1,650
3.3	56	5.5	452	8.0	2,150
3.6	86	6.0	645		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	183	33	36	560	324	136	73	226	42	28	16	225
2	70	40	27	1,230	336	147	65	193	40	24	14	153
3	46	38	33	1,470	290	143	61	168	38	21	12	114
4	34	37	32	690	226	143	60	147	44	23	12	94
5	26	50	27	390	216	150	71	136	35	57	11	74
6	25	51	108	290	171	147	84	137	33	37	11	514
7	26	50	740	248	168	149	71	109	31	28	11	210
8	24	48	272	216	248	150	70	99	29	24	12	154
9	26	50	196	186	362	136	82	88	28	21	13	121
10	26	54	165	172	336	122	82	82	40	18	18	96
11	26	53	165	136	252	136	74	74	50	35	94	79
12	22	51	193	158	226	109	69	70	32	32	98	68
13	20	52	172	199	199	122	67	88	27	24	59	55
14	18	52	150	194	183	119	72	268	25	24	42	50
15	21	51	150	239	165	116	84	212	45	26	32	43
16	29	46	150	268	159	109	86	177	44	20	27	38
17	960	42	172	336	139	97	77	153	34	17	23	35
18	256	39	168	872	122	104	73	130	31	16	20	33
19	172	33	193	1,120	122	98	71	119	33	15	19	30
20	107	32	290	1,890	136	97	69	104	31	21	20	28
21	82	32	226	1,200	204	96	68	88	26	31	24	26
22	67	31	199	645	740	87	69	79	28	31	24	24
23	60	27	171	452	349	82	65	133	31	23	65	23
24	54	26	153	390	301	80	60	153	24	18	83	22
25	48	26	168	376	239	99	452	95	22	17	152	21
26	44	26	182	362	204	90	818	87	21	17	336	20
27	36	34	199	301	180	80	390	75	23	15	212	20
28	34	36	301	279	158	75	301	67	107	14	122	25
29	*33	25	264	349	-	73	252	60	46	13	83	24
30	32	28	290	312	-	73	241	54	33	23	113	21
31	29	-	324	290	-	71	-	50	-	22	312	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,636	960	18	85.0	0.802	0.92
November	1,193	54	25	39.8	.375	.42
December	5,916	740	27	191	1.80	2.08
Calendar year 1936	59,670	2,560	10	163	1.54	20.94
January	15,820	1,890	136	510	4.81	5.54
February	6,755	740	122	241	2.27	2.38
March	3,436	150	71	111	1.05	1.21
April	4,177	818	60	139	1.31	1.46
May	3,721	268	50	120	1.13	1.30
June	1,073	107	21	35.8	.338	.38
July	735	57	13	23.7	.224	.26
August	2,090	336	11	67.4	.636	.73
September	2,440	514	20	81.3	.767	.86
Water year 1936-37	49,992	1,890	11	137	1.29	17.52

Catawba Creek near Fincastle, Va.

Location.- Chain gage, lat. 37°33'00", long. 79°50'05", at highway bridge at Kyles Mills, 4 miles northeast of Fincastle, Botetourt County. Zero of gage is 994.05 feet above mean sea level.

Drainage area.- 104 square miles.

Records available.- December 1928 to September 1937.

Extremes.- Maximum discharge observed during year, 6,160 second-feet Jan. 2 (gage height, 18.20 feet), from rating curve extended above 2,000 second-feet on basis of velocity-area studies; minimum, 9 second-feet July 2 (gage height, 1.58 feet).
1928-37: Maximum discharge observed, that of Jan. 2, 1937; minimum, 4 second-feet Sept. 30, Oct. 4-10, 24, 25, 1933.

Remarks.- Records fair. Discharge for periods of faulty or missing gage heights, Jan. 4, May 9-17, May 23 to June 2, computed on basis of observer's notes, weather records, and records for Craig Creek at Parr. Gage read twice daily.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 2 Apr. 27 to Aug. 25		Jan. 3 to Apr. 26 Aug. 26 to Sept. 30			
1.6	9	3.5	175	10.0	1,420
1.8	16	4.0	240	11.0	1,720
2.0	26	5.0	381	12.0	2,120
2.3	47	6.0	544	14.0	3,120
2.6	73	8.0	930	16.0	4,450
3.0	115	9.0	1,150	18.2	6,160

Jan. 3 to Apr. 26 Aug. 26 to Sept. 30	
2.3	34
2.6	59
3.0	99
3.5	160
4.0	230
5.0	378
6.0	544

Note.- Same as preceding table above 6.0 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	115	30	20	2,240	174	99	54	133	35	73	16	147
2	53	27	21	5,680	167	88	53	98	35	16	20	147
3	29	26	20	1,720	140	88	51	88	45	22	19	147
4	24	26	21	700	134	88	99	88	55	53	17	154
5	20	27	32	394	122	83	160	83	73	38	20	78
6	21	22	78	202	122	88	160	83	40	76	31	167
7	19	18	214	160	167	83	99	78	43	33	20	347
8	16	28	127	128	188	94	78	78	43	45	20	73
9	16	33	73	134	174	83	73	70	38	52	21	57
10	16	36	61	122	160	78	68	65	38	49	22	57
11	15	28	83	104	160	73	68	60	43	44	337	48
12	16	25	104	88	160	73	68	55	36	39	53	99
13	15	26	83	244	154	73	68	60	37	38	53	99
14	16	25	61	202	147	68	68	350	36	45	53	99
15	15	24	64	287	147	68	68	400	151	40	52	48
16	104	22	83	244	134	73	68	250	323	30	45	33
17	396	22	93	302	128	68	64	150	52	28	45	64
18	133	20	98	347	110	68	59	88	43	24	43	57
19	93	18	139	1,300	94	68	52	68	53	22	44	57
20	73	20	175	2,000	83	73	50	64	43	24	38	56
21	44	21	163	910	94	68	48	64	36	33	36	48
22	40	22	133	508	230	68	48	64	41	31	151	55
23	36	21	115	394	216	68	46	60	35	36	281	52
24	33	22	104	362	160	68	45	65	30	37	295	48
25	38	20	151	332	140	68	347	70	26	27	2,420	54
26	38	16	163	287	116	64	474	65	26	22	2,120	52
27	35	20	175	258	104	68	351	60	104	18	544	56
28	33	25	198	244	99	64	295	55	34	23	230	56
29	33	24	188	244	-	58	188	50	31	26	230	56
30	32	21	188	258	-	54	151	45	20	36	2,280	57
31	32	-	201	216	-	51	-	40	-	24	2,280	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,599	396	15	51.6	0.496	0.57
November	715	36	16	23.8	.229	.26
December	3,419	214	20	110	1.06	1.22
Calendar year 1936	47,986	1,750	11	131	1.26	17.16
January	20,611	5,680	88	665	6.39	7.37
February	4,024	230	83	144	1.38	1.44
March	2,276	99	51	73.4	.706	.81
April	3,521	474	45	117	1.12	1.25
May	3,047	400	40	98.3	.945	1.09
June	1,645	323	20	54.8	.527	.59
July	1,094	76	16	35.3	.339	.39
August	11,836	2,420	16	382	3.67	4.23
September	2,568	347	33	85.6	.823	.92
Water year 1936-37	56,355	5,680	15	154	1.48	20.14

Calfpasture River at Goshen, Va.

Location.- Chain gage, lat. 37°59'10", long. 79°29'38", at highway bridge at Goshen, Rockbridge County, 500 feet below mouth of Mill Creek. Zero of gage is 1,381.69 feet above mean sea level.

Drainage area.- 190 square miles.

Records available.- March 1925 to September 1937.

Average discharge.- 12 years, 212 second-feet.

Extremes.- Maximum discharge observed during year, about 4,710 second-feet Apr. 26 (gage height, 7.60 feet), from rating curve extended above 500 second-feet; minimum, 12 second-feet Aug. 6 (gage height, 1.78 feet).

1925-37: Maximum discharge observed, about 12,200 second-feet Mar. 17, 1936 (gage height, 11.71 feet, from floodmarks), from rating curve extended above 2,000 second-feet on basis of velocity-area studies and comparison of peak discharge and total run-off of flood at this station with those for other stations in James River Basin; minimum, 8 second-feet July 22, 1926, and many days in September and October 1930, September and October 1932, and July 1934.

Remarks.- Records fair. Gage read twice daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.8	13	3.3	285
2.0	26	3.6	420
2.2	43	4.0	646
2.4	64	4.5	1,000
2.6	92	5.0	1,430
2.8	130	6.0	2,530
3.0	182	7.6	4,710

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	29	22	882	472	191	94	348	67	25	25	326
2	27	29	24	1,340	420	171	88	285	67	22	22	194
3	20	28	32	2,170	326	154	82	230	64	20	19	126
4	17	28	28	1,250	285	137	80	198	62	18	18	124
5	17	29	25	646	247	130	122	182	326	21	17	106
6	15	28	68	446	204	120	132	182	160	20	14	135
7	15	28	2,410	526	191	110	126	149	103	20	20	247
8	17	28	584	584	266	118	135	140	84	18	39	210
9	18	29	285	446	285	114	157	128	66	19	38	149
10	22	28	213	371	810	99	157	120	57	17	28	116
11	18	27	182	472	584	97	152	101	53	22	25	96
12	16	26	472	420	420	94	147	94	49	19	34	78
13	15	26	526	371	326	92	137	94	42	16	33	65
14	15	26	326	371	285	135	137	124	38	34	32	56
15	15	25	230	499	247	135	137	137	35	26	24	51
16	24	25	194	646	230	120	126	124	32	20	21	42
17	845	23	247	646	213	118	114	116	32	24	18	38
18	420	22	230	1,080	213	162	105	112	31	22	17	33
19	174	20	213	920	213	204	97	191	34	18	18	30
20	112	22	446	2,410	230	207	90	247	38	34	17	28
21	86	22	348	2,650	326	213	90	204	53	42	17	27
22	70	23	247	1,840	2,060	201	97	174	55	38	40	25
23	60	23	204	960	1,080	135	88	160	49	31	32	24
24	54	22	176	710	646	176	82	132	43	25	77	23
25	49	22	171	775	472	174	371	110	38	21	149	22
26	43	21	179	710	326	152	4,110	101	34	18	285	20
27	38	13	201	555	247	132	1,840	97	31	17	742	20
28	34	17	371	420	230	122	1,000	90	28	17	348	25
29	32	22	371	420	-	112	678	84	25	17	130	22
30	32	22	326	326	-	105	472	77	23	17	114	21
31	29	-	526	326	-	101	-	67	-	15	266	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,390	845	15	77.1	0.406	0.47
November	733	29	13	24.4	.128	.14
December	9,877	2,410	22	319	1.68	1.94
Calendar year 1936	102,868	6,490	11	281	1.48	20.14
January	26,188	2,650	326	845	4.45	5.13
February	11,854	2,060	191	423	2.23	2.32
March	4,381	213	92	141	.742	.86
April	11,243	4,110	80	375	1.97	2.20
May	4,598	348	67	148	.779	.90
June	1,821	326	23	60.7	.319	.36
July	693	42	15	22.4	.118	.14
August	2,678	742	14	86.4	.455	.52
September	2,479	326	20	82.6	.435	.49
Water year 1936-37	78,935	4,110	13	216	1.14	15.47

North River at Rockbridge Baths, Va.

Location.- Water-stage recorder, lat. 37°54'26", long. 79°25'20", at Rockbridge Baths, Rockbridge County, 700 feet above highway bridge and 1 mile above Hays Creek. Zero of gage is 1,100.33 feet above mean sea level.

Drainage area.- 329 square miles.

Records available.- October 1928 to September 1937.

Extremes.- Maximum discharge during year, 7,730 second-feet Jan. 20 (gage height, 8.36 feet), from rating curve extended above 4,000 second-feet; minimum, 27 second-feet Aug. 6 (gage height, 1.12 feet).

1928-37: Maximum discharge, about 20,800 second-feet Mar. 17, 1936 (gage height, 13.07 feet), from rating curve extended above 4,000 second-feet on basis of velocity-area studies and comparison of peak discharge and total run-off of flood at this station with those for other stations in James River Basin; minimum, 11 second-feet Nov. 28, 1930 (gage height, 0.76 foot).

Remarks.- Records excellent except those above 5,000 second-feet, which are good, and those for periods of missing gage heights, Jan. 23-28, Jan. 31 to Feb. 2 (computed on basis of recorder charts and records for stations at Goshen and Lexington), which are fair.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.0	18	2.0	228	4.0	1,400
1.2	36	2.3	342	4.5	1,850
1.4	68	2.6	486	5.0	2,380
1.6	112	3.0	700	6.0	3,640
1.8	166	3.5	1,030	7.0	5,160
				8.0	6,940

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	112	52	36	1,400	870	393	181	683	146	47	37	538
2	63	54	43	2,640	780	360	172	574	166	44	42	334
3	44	54	59	3,780	612	317	160	481	135	40	36	228
4	37	50	57	2,300	559	289	155	417	130	37	33	190
5	33	54	52	1,200	502	273	250	379	344	43	32	172
6	32	54	64	786	422	255	351	374	248	42	29	205
7	30	50	2,120	825	398	238	289	317	175	42	30	388
8	30	50	982	960	491	252	285	289	149	36	50	360
9	39	50	522	792	562	248	321	259	122	39	64	270
10	47	50	379	644	1,100	222	329	238	110	40	52	206
11	44	47	321	700	858	218	304	215	100	54	46	169
12	37	47	770	666	689	212	289	202	94	47	44	144
13	33	47	858	672	580	212	270	202	83	37	66	120
14	33	46	580	650	548	292	270	317	72	47	64	103
15	30	46	426	833	471	329	289	461	64	54	46	89
16	57	43	351	1,030	476	304	266	370	57	46	39	78
17	2,540	40	441	1,250	486	292	235	321	59	42	34	72
18	741	42	426	2,000	476	383	222	281	63	50	34	64
19	332	42	388	1,700	466	431	206	366	76	40	33	63
20	209	40	676	4,600	466	426	193	446	66	54	32	57
21	155	42	595	5,070	898	426	190	388	68	94	34	54
22	122	39	461	3,150	3,850	388	199	329	136	98	34	50
23	105	39	370	1,700	1,880	360	181	292	91	70	113	49
24	98	39	325	1,300	1,170	334	169	266	81	57	59	46
25	87	39	304	1,300	858	334	1,270	218	70	49	231	44
26	76	39	317	1,200	644	292	6,020	196	63	44	1,040	43
27	68	37	379	960	533	252	3,160	199	54	40	722	44
28	64	36	678	750	471	235	1,750	178	50	36	360	50
29	59	40	633	730	-	218	1,200	166	47	35	222	49
30	55	39	559	633	-	202	890	144	46	33	202	43
31	54	-	861	640	-	193	-	125	-	36	513	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,466	2,540	30	176	0.535	0.62
November	1,347	54	36	44.9	.136	.15
December	15,033	2,120	36	485	1.47	1.70
Calendar year 1936	172,841	12,000	22	472	1.43	19.54
January	46,861	5,070	633	1,512	4.60	5.30
February	22,116	3,850	398	790	2.40	2.50
March	9,180	431	193	296	.900	1.04
April	20,066	6,020	155	669	2.03	2.26
May	9,693	883	125	313	.951	1.10
June	3,165	344	46	106	.322	.36
July	1,473	98	33	47.5	.144	.17
August	4,373	1,040	29	141	.429	.49
September	4,322	538	43	144	.438	.49
Water year 1936-37	143,095	6,020	29	392	1.19	16.18

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North River near Lexington, Va.

Location.- Water-stage recorder, lat. 37°48'49", long. 79°26'42", 300 yards above Lime Kiln highway bridge and 2½ miles above Lexington, Rockbridge County. Zero of gage is 906.56 feet above mean sea level.

Drainage area.- 487 square miles.

Records available.- August 1925 to September 1937.

Extremes.- Maximum discharge during year, 10,200 second-feet Jan. 21 (gage height, 11.97 feet); minimum, 81 second-feet Oct. 9 (gage height, 2.27 feet).
1925-37: Maximum discharge, 30,100 second-feet Mar. 18, 1936 (gage height, 23.58 feet, from floodmarks), from rating curve extended above 10,000 second-feet on basis of velocity-area studies and comparison of peak discharge and total run-off of flood at this station with those for other stations in James River Basin; minimum, 34 second-feet Sept. 6, 1930 and Sept. 18, 1932.

Remarks.- Records good except those for periods of missing gage heights, Nov. 10-17, Dec. 9-13, 19, 20, 25-27, Jan. 1-3, 6, 10, 13, which were computed on basis of records for station at Rockbridge Baths and are fair.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 21						Jan. 22 to Sept. 30					
2.2	68	3.3	388	5.5	1,750	2.2	74	3.3	400	5.5	1,750
2.4	106	3.6	520	6.0	2,210	2.4	112	3.6	532	6.0	2,210
2.6	153	4.0	724	7.0	3,290	2.6	160	4.0	735	7.0	3,290
2.8	209	4.5	1,020	8.0	4,510	2.8	218	4.5	1,020	8.0	4,510
3.0	274	5.0	1,360	10.0	7,200	3.0	285	5.0	1,360	10.0	7,200

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	274	117	98	2,000	1,360	665	296	960	244	128	156	960
2	148	119	96	3,900	1,220	615	282	790	307	119	110	635
3	110	119	121	5,600	1,020	551	271	686	278	108	102	455
4	94	117	143	2,950	900	504	260	605	274	104	96	368
5	88	119	133	1,220	790	482	326	542	476	112	90	356
6	82	119	124	1,100	686	446	514	546	417	145	88	460
7	82	110	1,330	1,120	645	421	429	477	307	112	90	696
8	82	110	1,590	1,220	762	429	408	438	278	106	170	630
9	82	115	750	930	790	434	455	400	228	100	185	491
10	104	110	550	900	1,320	392	473	368	203	124	142	392
11	110	110	470	960	1,220	380	442	337	228	133	130	330
12	98	110	1,100	930	990	364	421	318	182	117	140	296
13	90	110	1,300	920	845	364	396	311	171	317	186	247
14	82	100	724	900	790	464	388	482	156	301	155	218
15	84	100	598	1,090	702	551	429	691	148	160	119	197
16	208	100	670	1,430	713	504	404	556	138	135	104	180
17	3,150	100	549	1,720	762	477	360	486	138	254	94	171
18	1,700	94	530	2,840	735	556	341	429	198	180	114	158
19	681	94	580	2,780	762	620	322	477	218	130	119	152
20	401	94	1,000	6,360	762	620	304	605	163	182	90	148
21	281	94	810	6,920	1,110	620	296	532	160	250	88	142
22	228	96	623	4,380	5,030	570	304	466	374	254	102	133
23	194	94	502	2,620	2,950	523	292	421	197	188	421	130
24	180	96	474	2,060	1,880	495	271	408	174	166	182	126
25	169	96	450	1,800	1,360	491	1,160	337	152	142	695	124
26	153	96	470	1,750	1,020	455	7,200	300	142	128	1,880	119
27	143	94	600	1,430	872	400	4,130	289	138	117	1,340	126
28	133	90	780	1,150	790	380	2,310	282	145	108	724	145
29	133	92	810	1,150	-	352	1,590	264	124	102	468	135
30	128	100	692	1,020	-	330	1,220	237	119	102	451	124
31	121	-	697	1,050	-	311	-	218	-	113	930	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	9,613	3,150	82	310	0.637	0.73
November	3,117	119	90	104	.214	.24
December	19,364	1,590	96	625	1.28	1.48
Calendar year 1936	260,092	20,000	68	711	1.46	19.86
January	66,200	6,920	900	2,135	4.38	5.05
February	32,786	5,030	645	1,171	2.40	2.50
March	14,766	665	311	476	.977	1.13
April	26,294	7,200	260	876	1.80	2.01
May	14,260	960	218	460	.945	1.09
June	6,479	476	119	216	.444	.50
July	4,737	317	100	153	.314	.36
August	9,761	1,880	88	315	.647	.75
September	8,844	960	119	295	.606	.68
Water year 1936-37	216,221	7,200	82	592	1.22	16.52

Kerrs Creek near Lexington, Va.

Location.- Chain gage, lat. 37°49'33", long. 79°26'28", at highway bridge, 2⅛ miles north of Lexington, Rockbridge County, and 1¼ miles above mouth. Zero of gage is 972.04 feet above mean sea level.

Drainage area.- 34 square miles.

Records available.- January 1927 to September 1937 (fragmentary prior to August 1930).

Extremes.- Maximum discharge observed during year, about 1,060 second-feet Jan. 20, Apr. 25 (gage height, 7.37 feet), from rating curve extended above 200 second-feet; minimum, 5 second-feet Aug. 5, 6, 7 (gage height, 3.66 feet).

1927-37: Maximum discharge observed, about 4,090 second-feet Mar. 17, 1936 (gage height, 12.82 feet, from floodmarks), from rating curve extended above 300 second-feet on basis of velocity-area studies and comparison of peak discharge and total run-off of flood at this station with those for other stations in James River Basin; minimum, 4 second-feet many days in August and September 1932 and on Sept. 12, 1934.

Remarks.- Records fair. Gage read twice daily.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 20				Jan. 21 to Sept. 30			
3.8	10	5.5	290	3.6	3	4.6	90
4.0	24	6.0	470	3.8	13	5.0	160
4.3	51	6.5	670	4.0	27	5.5	290
4.6	88	7.4	1,060	4.3	54	6.0	470
5.0	160						

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	15	11	104	108	57	29	60	82	14	11	99
2	16	15	14	360	85	51	31	52	28	14	9	40
3	13	15	14	360	73	49	29	49	24	11	9	45
4	11	15	15	150	67	45	29	45	22	14	8	87
5	11	12	14	98	64	41	37	45	27	17	6	40
6	11	13	20	74	52	45	43	43	22	15	6	102
7	11	14	85	78	56	40	38	40	45	14	8	102
8	11	15	40	62	57	42	37	37	27	14	182	65
9	11	14	32	51	64	41	40	33	17	13	25	52
10	15	14	29	48	71	40	36	33	18	15	22	42
11	11	15	30	52	61	34	33	32	22	14	25	39
12	11	15	34	43	56	37	32	31	17	12	40	33
13	10	15	35	59	53	36	33	32	18	11	22	32
14	11	15	40	53	56	47	34	53	17	11	18	30
15	11	15	32	70	49	55	45	49	15	12	15	25
16	33	13	36	70	81	50	40	41	15	11	13	20
17	160	13	40	232	64	47	38	40	14	13	11	22
18	62	13	41	140	61	50	36	33	17	13	12	21
19	43	12	43	308	57	48	33	37	52	11	11	20
20	30	11	70	1,060	55	47	33	31	24	28	11	17
21	27	13	56	395	93	45	33	28	21	30	10	17
22	25	12	45	150	246	42	33	29	39	17	8	17
23	20	12	36	122	114	40	31	29	20	12	73	17
24	22	12	40	119	98	36	31	26	19	50	44	17
25	18	11	36	108	81	40	378	25	17	14	206	15
26	17	12	39	93	65	36	342	24	17	11	360	14
27	15	12	51	81	62	34	131	24	17	11	63	15
28	12	11	64	73	45	34	98	24	16	11	45	18
29	14	13	60	93	-	32	80	21	15	9	33	15
30	15	11	51	80	-	31	71	21	16	8	87	14
31	15	-	96	131	-	31	-	20	-	12	131	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	721	160	10	23.3	0.685	0.79
November	398	15	11	13.3	.391	.44
December	1,249	96	11	40.3	1.19	1.37
Calendar year 1936	23,728	2,480	8	64.8	1.91	25.93
January	4,917	1,060	43	159	4.68	5.40
February	2,094	246	45	74.8	2.20	2.29
March	1,303	57	31	42.0	1.24	1.43
April	1,934	378	29	64.5	1.90	2.12
May	1,087	60	20	35.1	1.03	1.19
June	720	82	14	24.0	.706	.79
July	462	50	8	14.9	.438	.50
August	1,524	360	6	49.2	1.45	1.67
September	1,092	102	14	36.4	1.07	1.19
Water year 1936-37	17,501	1,060	6	47.9	1.41	19.18

Tye River at Roseland, Va.

Location.- Chain gage, lat. 37°45', long. 78°59', at highway bridge, three-quarters of a mile southwest of Roseland, Nelson County, and three-quarters of a mile above Hat Creek. Zero of gage is 655.78 feet above mean sea level.

Drainage area.- 68 square miles.

Records available.- January 1927 to September 1937.

Average discharge.- 10 years, 131 second-feet.

Extremes.- Maximum discharge observed during year, 2,010 second-feet Feb. 22 (gage height, 7.37 feet); minimum, 11 second-feet Oct. 12, 14, 15 (gage height, 3.12 feet).
1927-37: Maximum discharge observed, about 6,000 second-feet Sept. 16, 1934 (gage height, 10.02 feet, from floodmarks), from rating curve extended above 700 second-feet on basis of velocity-area studies; minimum, 2 second-feet Sept. 30, Oct. 1, 1930.

Remarks.- Records fair. Gage read twice daily.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Aug. 26 to Sept. 30)

Oct. 1 to Apr. 26				Apr. 27 to Sept. 30			
3.0	6	4.3	210	3.2	18	4.6	330
3.2	16	4.6	318	3.4	36	5.0	502
3.4	32	5.0	490	3.6	62	5.5	756
3.6	57	5.5	755	3.8	96	6.0	1,040
3.8	90	6.0	1,040	4.0	138	6.5	1,340
4.0	130	7.4	2,010	4.3	222		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	98	32	15	280	379	280	76	391	62	83	41	134
2	32	32	38	672	358	241	68	350	62	83	35	118
3	22	32	69	1,220	318	207	68	292	58	67	32	106
4	15	32	54	810	280	195	66	274	48	55	30	92
5	16	38	42	540	262	186	755	239	91	56	30	75
6	15	32	47	400	237	167	700	239	58	76	30	102
7	14	30	422	338	262	159	467	203	55	54	32	83
8	14	28	244	262	237	195	400	185	55	61	35	67
9	15	38	167	244	220	167	338	158	48	104	41	67
10	16	28	204	204	210	142	280	148	55	72	56	55
11	15	27	262	198	189	128	237	134	58	56	41	49
12	12	27	244	170	175	124	204	129	44	61	82	46
13	12	27	244	230	175	124	183	134	42	85	61	37
14	11	24	210	204	180	135	170	256	33	72	51	34
15	12	23	175	237	162	135	192	274	42	56	41	34
16	21	23	210	237	204	124	175	239	40	51	35	29
17	1,040	22	244	422	172	120	157	203	239	41	32	29
18	318	23	217	515	142	113	144	174	177	38	32	24
19	180	22	217	810	142	113	132	174	163	35	35	24
20	120	22	400	1,540	147	113	132	146	127	94	27	22
21	94	23	318	1,280	755	113	132	131	91	108	29	20
22	76	22	280	920	1,680	103	122	127	191	100	31	20
23	69	21	227	672	920	103	111	127	131	72	112	20
24	60	21	195	540	700	103	101	110	102	61	87	20
25	50	20	167	490	515	103	645	96	87	54	1,220	17
26	44	20	154	400	444	94	1,610	96	83	51	650	17
27	38	20	154	338	358	85	1,040	87	91	51	350	29
28	38	17	154	318	318	81	756	87	83	41	200	70
29	38	21	142	318	-	76	600	83	70	38	140	31
30	38	19	142	299	-	76	456	73	73	41	166	22
31	32	-	280	318	-	76	-	70	-	43	177	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,575	1,040	11	83.1	1.22	1.41
November	766	38	17	25.5	.375	.42
December	5,938	422	15	192	2.82	3.25
Calendar year 1936	57,165	2,220	7	156	2.29	31.27
January	15,426	1,540	170	498	7.32	8.44
February	10,141	1,680	142	362	5.32	5.54
March	4,181	280	76	135	1.99	2.29
April	10,517	1,610	66	351	5.16	5.76
May	5,429	391	70	175	2.57	2.96
June	2,559	239	33	85.3	1.25	1.40
July	1,960	108	35	63.2	.929	1.07
August	3,961	1,220	27	128	1.88	2.17
September	1,493	134	17	49.8	.732	.82
Water year 1936-37	64,946	1,680	11	178	2.62	35.53

Hardware River near Scottsville, Va.

Location.- Chain gage, lat. 37°50', long. 78°29', at bridge on Woodridge-Scottsville highway, 3 miles north of Scottsville, Albemarle County, and 11½ miles above mouth. Zero of gage is 308.50 feet above mean sea level.

Drainage area.- 104 square miles.

Records available.- May 1925 to September 1937.

Average discharge.- 10 years (1928-28, 1929-37), 116 second-feet.

Extremes.- Maximum discharge during year, 6,440 second-feet Apr. 25 (gage height 20.1 feet, from floodmarks); minimum, 21 second-feet Oct. 8 (gage height, 1.86 feet).
1925-37: Maximum discharge observed, that of Apr. 25, 1937; minimum, 1.5 second-feet Sept. 2, 22, 1932 (gage height, 1.20 feet).

Remarks.- Records poor. Gage read twice daily. Low-water flow regulated by dam and gristmill above station.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 20				Jan. 21 to Apr. 25				Apr. 26 to Sept. 30			
1.8	18	4.0	232	2.4	101	6.0	634	2.4	48	6.0	582
2.0	28	5.0	387	2.7	131	8.0	1,040	2.7	71	8.0	1,020
2.3	48	6.0	574	3.0	164	10.0	1,660	3.0	100	10.0	1,660
2.6	73	8.0	1,020	3.5	226	12.0	2,460	3.5	155	12.0	2,460
3.0	111	10.0	1,660	4.0	297	14.0	3,350	4.0	218	14.0	3,350
3.5	168	12.0	2,460	5.0	457			5.0	374		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	101	43	29	56	297	164	111	410	121	95	76	192
2	64	42	37	353	240	153	106	374	116	100	67	105
3	40	33	86	1,580	213	142	106	356	126	90	67	100
4	38	33	73	694	200	142	101	340	132	95	59	90
5	32	44	60	232	176	142	254	308	121	110	59	85
6	26	40	48	206	164	136	562	*290	116	100	59	116
7	24	34	116	193	164	131	390	*270	105	90	59	155
8	22	34	128	168	164	153	327	*250	100	80	59	143
9	28	40	73	122	164	153	297	*230	121	76	59	116
10	32	38	232	96	164	131	240	205	116	71	55	100
11	35	38	206	91	188	136	188	192	105	67	59	95
12	32	34	193	91	176	142	188	179	100	63	71	90
13	29	32	168	193	164	142	164	179	95	59	71	80
14	31	29	133	150	164	164	153	324	95	59	59	76
15	26	32	171	150	153	176	153	356	90	63	52	71
16	106	33	86	150	142	188	142	246	85	63	52	67
17	1,200	30	73	156	142	188	136	218	121	63	52	71
18	422	29	78	232	153	164	131	205	121	59	52	67
19	116	28	91	494	153	153	131	205	132	59	52	67
20	86	32	321	1,700	153	142	126	192	110	232	52	67
21	78	32	260	974	358	131	121	179	100	428	52	59
22	64	35	128	652	562	126	121	167	105	410	52	59
23	64	33	96	457	457	121	121	155	90	218	121	52
24	54	30	86	406	282	126	121	149	80	100	110	48
25	56	30	78	406	164	121	2,950	138	71	95	110	47
26	52	29	73	390	164	121	3,250	132	80	90	246	52
27	48	30	73	240	153	116	1,320	126	121	80	192	63
28	48	32	73	200	164	111	582	138	138	80	132	80
29	42	32	68	188	-	106	522	143	100	71	100	80
30	42	32	64	188	-	111	446	132	95	71	95	76
31	42	-	64	297	-	111	-	126	-	71	179	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,080	1,200	22	99.4	0.956	1.10
November	1,013	44	28	33.8	.325	.36
December	3,465	321	29	112	1.08	1.24
Calendar year 1936	55,133	3,400	11	151	1.45	19.71
January	11,505	1,700	56	371	3.57	4.12
February	5,838	562	142	208	2.00	2.08
March	4,343	188	106	140	1.35	1.56
April	13,560	3,250	101	452	4.35	4.85
May	6,914	410	126	223	2.14	2.47
June	3,208	138	71	107	1.03	1.15
July	3,408	428	59	110	1.06	1.22
August	2,580	246	52	83.2	.800	.92
September	2,569	192	47	85.6	.823	.92
Water year 1936-37	61,483	3,250	22	168	1.62	21.99

*Gage not read; discharge computed on basis of records for Rivanna River at Palmyra.

Slate River near Arvonia, Va.

Location.- Water-stage recorder, lat. 37°42', long. 78°21', at Bumpers highway bridge, 2 miles from Arvonia, Buckingham County, and 2 miles above mouth. Zero of gage is 238.78 feet above mean sea level.

Drainage area.- 235 square miles.

Records available.- April 1926 to September 1937.

Extremes.- Maximum discharge during year, 12,300 second-feet Apr. 26 (gage height, 20.86 feet), from rating curve extended above 5,500 second-feet on basis of velocity-area studies; minimum, 39 second-feet Oct. 8 (gage height, 2.29 feet).

1926-37: Maximum discharge, about 13,600 second-feet Sept. 6, 1935 (gage height, 22.18 feet, from floodmarks), from rating curve extended above 5,500 second-feet on basis of velocity-area studies; minimum discharge, 2 second-feet Sept. 28 to Oct. 2, 1930.

Remarks.- Records good except those for periods of missing or faulty gage heights, Nov. 22-30, Apr. 28 to May 15, June 28 to July 4, July 10-12, 14-18, Aug. 7, 8, which were computed on basis of recorder charts and records for stations on Rivanna and Willis rivers and are fair. Operation of gristmill 7⅛ miles upstream affects low-water flow.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 3, Apr. 27 to July 21				Jan. 4 to Apr. 26, July 22 to Sept. 30			
2.2	34	6.0	986	2.7	64	8.0	1,980
2.4	47	7.0	1,450	3.0	94	10.0	3,220
2.7	74	8.0	1,980	3.5	167	12.0	4,650
3.0	110	10.0	3,220	4.0	269	15.0	7,000
3.5	200	12.0	4,650	5.0	554	18.0	9,600
4.0	320	14.0	6,200	6.0	958	20.9	12,300
5.0	610			7.0	1,440		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	276	59	55	194	746	265	140	380	146	120	134	265
2	100	62	66	1,090	367	258	136	320	175	160	116	157
3	60	64	116	3,980	267	236	134	280	200	150	100	124
4	48	64	113	2,770	225	212	131	260	164	120	94	111
5	49	69	87	380	210	204	198	240	184	257	88	101
6	46	69	74	247	185	191	786	230	160	170	85	190
7	49	64	160	258	180	180	420	230	151	404	82	341
8	46	62	168	260	225	218	263	230	301	147	80	243
9	52	66	100	193	214	266	583	240	186	130	142	167
10	60	67	365	164	304	191	453	250	139	100	115	132
11	57	62	442	147	251	176	278	240	139	110	145	118
12	50	61	486	136	194	164	227	230	125	130	339	106
13	46	63	307	387	181	164	198	220	113	97	205	100
14	46	66	179	348	204	194	191	400	110	90	156	92
15	48	62	135	675	202	287	187	1,600	114	85	106	88
16	77	61	124	826	269	309	176	456	132	75	92	83
17	627	59	209	688	620	354	162	336	463	65	85	87
18	183	59	170	1,570	341	316	153	264	280	70	77	93
19	87	60	135	1,220	269	276	150	245	520	77	80	85
20	69	60	364	2,520	229	229	142	229	246	2,560	73	84
21	62	62	279	1,860	604	210	165	202	185	5,180	71	78
22	60	60	170	581	1,700	185	158	187	334	1,510	108	76
23	58	60	128	367	631	174	139	185	183	329	398	78
24	60	60	107	328	380	171	132	185	132	211	410	70
25	58	62	104	341	380	212	3,790	170	118	162	306	79
26	57	60	100	269	354	189	11,200	156	190	221	341	68
27	58	60	95	217	294	162	4,100	215	171	526	243	120
28	55	60	95	198	285	157	1,000	197	200	179	152	754
29	58	58	95	1,780	-	148	600	335	130	134	116	283
30	60	56	91	744	-	144	450	200	110	122	167	243
31	59	-	107	511	-	142	-	162	-	118	370	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,721	627	46	87.8	0.374	0.43
November	1,857	69	56	61.9	.263	.29
December	5,226	486	55	169	.719	.83
Calendar year						
January	25,249	3,980	136	814	3.46	3.99
February	10,311	1,700	180	368	1.57	1.64
March	6,584	354	142	212	.902	1.04
April	26,842	11,200	131	895	3.81	4.25
May	9,074	1,600	156	293	1.25	1.44
June	5,801	520	110	193	.821	.92
July	13,809	5,180	65	445	1.89	2.18
August	5,076	410	71	164	.698	.80
September	4,616	784	68	154	.655	.73
Water year 1936-37	117,166	11,200	46	321	1.37	18.54

Rivanna River at Palmyra, Va.

Location.- Water-stage recorder, lat. 37°51', long. 78°16', 200 feet below highway bridge at Palmyra, Fluvanna County.

Drainage area.- 675 square miles.

Records available.- May 1934 to September 1937.

Extremes.- Maximum discharge during year, 56,700 second-feet Apr. 26 (gage height, 33.35 feet, from floodmarks); minimum, 156 second-feet Dec. 2 (gage height, 2.14 feet).
1934-37: Maximum discharge, that of Apr. 26, 1937; minimum, 70 second-feet Aug. 28, 1936 (gage height, 1.85 feet).

Remarks.- Records fair. Discharge for Apr. 26-30 computed from graph based on occasional gage readings and floodmarks and from graphs for nearby stations.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 21		Jan. 22 to Apr. 26				Apr. 27 to Sept. 30	
2.1	144	2.7	460	15.0	7,630	2.2	226
2.5	270	3.0	580	18.0	10,400	2.5	324
3.0	450	3.5	780	20.0	13,100	3.0	500
3.5	650	4.0	1,000	22.0	16,700	4.0	920
4.0	860	5.0	1,500	25.0	24,600	5.0	1,400
5.0	1,330	6.0	2,000	28.0	34,900	6.0	1,920
6.0	1,850	8.0	3,140	31.0	46,700	8.0	3,040
8.0	2,970	10.0	4,340	33.4	56,700	10.0	4,240
10.0	4,170	12.0	5,630			12.0	5,520
12.0	5,450					15.0	7,550
15.0	7,500					18.0	10,400
18.0	10,300					21.0	14,800

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,790	225	177	550	2,170	1,120	540	1,810	428	421	392	1,060
2	550	228	196	1,860	1,700	1,050	540	1,550	435	496	341	680
3	305	232	361	6,630	1,400	960	520	1,300	609	435	314	520
4	238	228	312	2,810	1,240	892	520	1,180	830	351	284	453
5	206	254	264	1,630	1,120	848	941	1,080	580	782	271	475
6	193	260	241	1,180	1,030	802	4,520	1,060	560	532	261	1,830
7	187	241	1,360	1,180	960	760	2,440	965	457	457	255	2,780
8	184	228	1,200	1,430	1,050	760	1,640	898	1,180	378	252	1,760
9	362	241	650	1,060	1,000	802	1,840	808	580	351	248	1,120
10	260	244	1,420	882	1,640	720	2,060	740	464	351	252	808
11	222	222	1,510	860	1,440	680	1,400	680	690	331	275	640
12	193	216	1,900	792	1,170	660	1,170	640	540	317	448	560
13	180	219	1,770	1,060	1,050	640	1,000	640	428	462	351	471
14	165	219	1,080	1,110	1,000	720	938	1,440	406	930	540	424
15	165	216	792	1,450	938	960	938	2,330	406	453	365	396
16	192	206	650	1,510	915	892	870	1,150	406	372	268	375
17	7,260	200	1,260	1,530	1,200	892	760	898	540	375	252	361
18	4,150	200	1,020	2,460	1,070	938	720	762	786	375	242	358
19	1,170	196	792	2,800	982	892	680	808	1,020	307	365	344
20	750	196	2,280	7,790	938	802	660	720	600	854	274	338
21	570	200	1,940	10,700	1,470	780	640	620	460	1,980	242	327
22	438	203	1,260	3,800	8,100	720	660	600	475	936	242	317
23	368	193	905	2,610	4,110	680	640	785	457	540	1,260	310
24	330	193	710	2,660	2,500	660	600	660	392	421	640	307
25	302	193	610	2,220	2,060	660	7,520	560	372	375	1,490	304
26	288	193	550	1,900	1,700	640	49,000	500	358	351	3,740	300
27	270	190	490	1,600	1,440	600	15,000	482	368	453	2,350	324
28	257	184	462	1,400	1,300	580	5,200	520	1,020	341	1,200	994
29	251	181	422	3,360	-	560	3,400	740	406	314	762	870
30	248	184	403	2,340	-	560	2,400	500	368	304	1,140	471
31	235	-	414	2,000	-	540	-	453	-	307	1,270	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	22,279	7,260	165	719	1.07	1.23
November	6,385	260	181	213	.316	.35
December	27,401	2,280	177	884	1.31	1.51
Calendar year 1936	368,655	33,800	96	1,007	1.49	20.31
January	75,164	10,700	550	2,425	3.59	4.14
February	46,693	8,100	915	1,668	2.47	2.57
March	23,770	1,120	540	767	1.14	1.31
April	109,757	49,000	520	3,659	5.42	6.05
May	27,879	2,330	453	899	1.33	1.53
June	16,621	1,180	358	554	.821	.92
July	15,652	1,980	304	505	.748	.86
August	20,586	3,740	242	664	.984	1.13
September	20,277	2,780	300	676	1.00	1.12
Water year 1936-37	412,464	49,000	165	1,130	1.67	22.72

Willis River at Flanagan Mills, Va.

Location.- Water-stage recorder, lat. 37°40', long. 78°11', at highway bridge at Flanagan Mills, Cumberland County, 3 miles below Reynolds Creek. Zero of gage is 178.98 feet above mean sea level. Prior to Jan. 3, 1935, chain gage 1,000 feet upstream at same datum.

Drainage area.- 247 square miles.

Records available.- April 1926 to January 1935, September 1936 to September 1937.

Extremes.- Maximum discharge during period, 11,300 second-feet Apr. 27 (gage height, 23.86 feet, from floodmarks), from rating curve extended above 5,000 second-feet on basis of velocity-area studies; minimum 40 second-feet Sept. 27, 28, 29, 1936 (gage height, 2.97 feet).

1926-35, 1936-37: Maximum discharge, that of Apr. 27, 1937; minimum, 2 second-feet Sept. 30, Oct. 1, 4, 12, 1930.

Remarks.- Records fair. Discharge for periods of missing gage heights, Dec. 18-24, Jan. 24, 25, May 15-17, computed on basis of recorded ranges in stage and records for Slate River near Arvonia and Rivanna River at Palmyra. Some possibility of backwater effect from James River during extremely high stages. Complete regulation of low-water flow from Trices Lake, tributary to Willis River, affects natural flow at gage slightly.

Rating tables, Sept. 22, 1936 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

Sept. 22 to Apr. 27

3.0	42	4.5	167	10.0	1,100	16.0	3,660
3.3	59	5.0	229	12.0	1,510	18.0	5,360
3.6	81	6.0	376	13.0	1,780	21.0	8,200
4.0	115	8.0	722	14.0	2,220	23.9	11,300

Apr. 28 to Sept. 30

3.7	67	5.0	197	10.0	1,070
4.0	91	6.0	335	12.0	1,510
4.5	139	8.0	675		

Note.- Same as preceding table above 12.0 feet.

Daily discharge, in second-feet, Sept. 22-30, 1936

Sept. 22	45	Sept. 24	49	Sept. 26	43	Sept. 28	48	Sept. 30	58
23	50	25	50	27	44	29	45		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	146	76	87	208	995	338	176	492	152	104	131	2,410
2	154	76	90	475	786	323	177	376	142	150	128	1,740
3	116	82	113	1,370	559	308	170	324	256	156	120	672
4	74	83	138	1,970	372	285	167	280	376	128	102	264
5	62	89	140	2,320	330	268	193	266	270	348	97	204
6	64	96	120	1,560	298	252	909	252	191	241	89	392
7	59	94	124	451	278	238	1,090	244	151	242	89	806
8	64	96	164	438	304	242	984	252	176	153	82	965
9	62	92	162	389	334	268	792	258	261	108	112	930
10	78	98	148	302	385	256	822	228	207	97	179	392
11	73	94	187	255	401	226	523	197	237	106	180	259
12	70	92	350	232	336	214	360	191	218	116	275	206
13	69	90	324	271	277	204	305	176	160	85	363	182
14	66	96	251	370	288	223	270	369	125	82	347	163
15	61	96	182	538	324	318	258	1,100	118	86	276	146
16	68	92	154	742	384	399	246	1,300	111	78	154	136
17	176	90	170	743	752	454	229	1,200	109	69	116	127
18	192	89	200	1,050	744	438	213	353	239	94	98	140
19	184	87	200	1,160	551	380	202	286	374	147	94	129
20	107	82	190	1,610	388	332	194	233	351	433	86	121
21	84	88	300	2,080	378	286	202	207	201	1,430	86	124
22	75	88	250	2,020	689	256	221	184	185	2,450	87	118
23	80	90	200	1,540	746	242	196	170	182	2,170	684	114
24	81	88	150	640	634	220	182	187	144	851	970	107
25	72	91	124	550	529	234	1,140	180	107	225	1,010	108
26	78	89	122	470	524	244	8,120	157	101	174	823	101
27	72	90	126	399	423	223	10,200	144	104	264	794	104
28	69	88	132	320	364	199	5,020	187	226	314	578	153
29	71	84	124	910	-	190	1,720	353	138	175	240	245
30	73	86	128	1,050	-	183	884	350	110	132	727	216
31	74	-	124	1,090	-	182	-	223	-	126	1,760	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,774	192	59	89.5	0.362	0.42
November	2,670	96	76	89.0	.360	.40
December	5,274	350	87	170	.688	.79
Calendar year						
January	27,523	2,320	208	888	3.60	4.15
February	13,373	995	277	478	1.94	2.02
March	8,425	454	182	272	1.10	1.27
April	36,165	10,200	167	1,206	4.88	5.44
May	10,699	1,300	144	345	1.40	1.61
June	5,722	376	101	191	.773	.86
July	11,334	2,450	69	366	1.48	1.71
August	10,877	1,760	82	351	1.42	1.64
September	11,774	2,410	101	392	1.59	1.77
Water year 1936-37	146,610	10,200	59	402	1.63	22.08

James River & Kanawha Canal near Richmond, Va.

Location.- Water-stage recorder, lat. 37°33'52", long. 77°34'28", at canal bridge, 400 feet below head gates, 1,200 feet north of north end of Bosher Dam on James River, 1½ miles above Westham highway bridge, and 4½ miles west of city limits of Richmond, Henrico County.

Records available.- September 1936 to September 1937.

Extremes.- Maximum discharge during period of record, not determined (canal merges with river during extreme floods); minimum, 360 second-feet several times in October.

Remarks.- Records fair except those for periods of missing gage heights, Jan. 22-25, Mar. 19-24, 29-31, Apr. 1-5, 27-29, May 29-31, June 1-7, July 1-4, Aug. 30,31, Sept. 1, 8, 9, which were computed on basis of recorded ranges in stage and records for James River at Cartersville and at Richmond and are poor. Canal diverts from James River 1,200 feet above Bosher Dam.

Daily discharge, in second-feet, Sept. 22-30, 1936

Sept. 23	702	Sept. 26	684	Sept. 29	666
24	684	27	454	30	684
25	684	28	666		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	720	740	740	736	884	840	840	884	820	820	400	820
2	840	740	740	638	862	820	800	840	820	700	820	820
3	782	740	760	928	840	800	460	862	820	380	820	715
4	446	760	780	928	840	820	460	884	700	390	820	372
5	800	780	767	884	862	862	800	862	380	780	800	420
6	760	780	596	862	840	816	862	862	390	820	681	740
7	740	746	780	840	820	642	780	740	800	820	384	820
8	740	579	820	820	820	840	840	372	862	840	400	820
9	740	780	884	800	820	840	794	372	862	723	780	740
10	708	760	862	820	820	862	408	820	862	372	800	664
11	471	760	862	840	862	840	413	820	711	406	820	334
12	740	780	752	840	862	840	800	840	384	780	586	404
13	740	760	588	820	783	840	820	820	384	780	372	800
14	720	780	820	840	540	840	820	720	780	800	525	820
15	702	760	862	840	820	862	820	436	800	840	780	840
16	720	760	840	820	800	820	693	437	820	704	820	820
17	695	760	820	780	820	840	372	780	820	372	820	693
18	482	760	820	820	820	840	392	800	732	408	800	372
19	862	760	820	906	800	800	840	800	384	800	568	409
20	840	740	820	862	785	400	820	800	391	820	372	800
21	820	725	820	800	780	400	820	708	800	906	529	820
22	800	387	820	820	820	800	840	372	780	884	820	800
23	746	740	840	820	862	840	689	403	800	693	820	780
24	372	740	820	840	862	847	372	840	840	372	840	668
25	372	740	780	840	884	820	414	820	663	403	820	396
26	780	760	780	862	820	802	980	820	372	800	598	430
27	780	740	800	840	780	396	960	800	389	862	396	780
28	780	740	820	840	800	520	940	711	780	884	490	800
29	780	720	820	862	-	820	920	380	840	820	823	928
30	760	740	820	840	-	840	906	400	820	708	820	906
31	740	-	820	800	-	840	-	800	-	386	820	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	21,978	862	372	709		
November	22,057	780	387	735		
December	24,673	884	588	796		
Calendar year						
January	25,788	928	638	832		
February	22,908	884	540	818		
March	23,989	862	396	774		
April	21,675	980	372	722		
May	21,805	884	372	703		
June	20,606	862	372	687		
July	21,073	906	372	680		
August	20,944	840	372	676		
September	20,581	928	372	686		
Water year 1936-37	268,077	980	372	734		

Appomattox River at Farmville, Va.

Location.- Water-stage recorder, lat. 37°18', long. 78°23', at highway bridge 1,000 feet north of town limits of Farmville, Prince Edward County, and 1¼ miles below Buffalo Creek.

Drainage area.- 306 square miles.

Records available.- March 1926 to September 1937.

Average discharge.- 11 years, 274 second-feet.

Extremes.- Maximum discharge during year, 8,980 second-feet Apr. 26 (gage height, 20.28 feet), from rating curve extended above 4,000 second-feet on basis of velocity-area studies; minimum, 31 second-feet Oct. 14 (gage height, 2.97 feet); minimum daily discharge, 98 second-feet Oct. 13, 14.

1926-37: Maximum discharge observed, about 9,860 second-feet, revised, Aug. 12, 1928 (gage height, 21.10 feet), from rating curve extended above 4,000 second-feet; minimum, 5 second-feet Oct. 4, 1933; minimum daily discharge, 9 second-feet Sept. 20, 1932.

Remarks.- Records fair. Discharge for periods of missing gage heights Feb. 26 to Mar. 3, computed on basis of recorded range in stage and records for stations at Mattoax and Petersburg. Low-water flow regulated by mills at dam above station.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 4, Apr. 27 to Sept. 30

3.6	79	8.0	696	14.0	2,960
4.0	115	10.0	1,140	16.0	4,720
4.5	166	12.0	1,700	18.0	6,650
5.0	224	12.5	1,900	20.3	8,980
6.0	359	13.0	2,190		

Jan. 5 to Apr. 26

4.6	217	8.0	724
5.0	266	10.0	1,150
6.0	401	12.0	1,700

Note.- Same as preceding table above 12.0 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	392	110	112	484	1,080	350	236	442	234	214	193	1,530
2	192	112	130	930	727	380	234	400	255	217	166	419
3	124	114	173	4,030	483	350	232	373	245	192	151	264
4	112	116	170	4,370	403	323	328	344	533	167	144	219
5	107	122	143	1,170	376	318	373	328	286	176	142	222
6	105	126	122	552	344	304	1,230	334	234	225	138	500
7	105	116	182	516	332	293	684	324	228	250	136	785
8	104	117	231	516	362	296	421	317	492	180	133	498
9	108	123	160	423	423	328	537	310	262	156	137	312
10	111	121	337	363	567	287	451	284	257	158	140	240
11	113	118	442	328	504	272	346	272	478	144	146	214
12	106	120	551	305	380	266	308	262	310	140	150	203
13	98	132	392	451	342	260	287	258	242	157	218	186
14	98	130	259	523	399	269	280	424	240	224	601	172
15	102	125	202	670	395	340	278	1,920	192	160	202	166
16	110	120	190	866	484	384	274	867	243	144	150	160
17	470	116	286	949	774	381	254	428	514	138	140	158
18	255	118	273	2,340	512	382	248	334	357	198	138	164
19	147	117	214	2,270	419	362	241	302	459	149	132	158
20	127	118	325	3,550	367	325	234	284	288	736	128	152
21	119	120	323	3,200	513	309	240	267	234	3,280	124	148
22	116	120	224	2,180	1,080	286	242	257	363	1,680	124	146
23	114	120	184	716	740	272	224	247	261	481	528	144
24	114	118	165	552	510	274	220	258	200	262	586	144
25	112	118	167	555	546	324	1,950	240	188	213	710	142
26	110	120	162	500	450	292	8,050	224	316	192	1,170	142
27	110	118	158	420	380	264	3,350	359	304	237	770	145
28	108	111	160	383	350	257	1,070	524	226	190	275	415
29	110	122	158	1,460	-	250	663	1,330	191	171	202	387
30	112	118	152	1,540	-	241	522	359	186	165	1,170	202
31	110	-	246	803	-	240	-	264	-	160	3,200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4,321	470	98	139	0.454	0.52
November	3,576	132	110	119	.389	.43
December	6,993	551	112	226	.739	.85
Calendar year 1936	131,673	4,490	80	360	1.18	15.98
January	37,915	4,370	305	1,223	4.00	4.61
February	14,242	1,080	332	509	1.66	1.73
March	9,479	384	240	306	1.00	1.15
April	24,009	8,050	220	800	2.61	2.91
May	13,136	1,920	224	424	1.39	1.60
June	8,818	533	186	294	.961	1.07
July	11,156	3,280	138	360	1.18	1.36
August	12,344	3,200	124	398	1.30	1.50
September	8,737	1,530	142	291	.951	1.06
Water year 1936-37	154,726	8,050	98	424	1.39	18.79

Appomattox River at Mattoax, Va.

Location.- Water-stage recorder, lat. 37°25', long. 77°52', at Southern Railway bridge at Mattoax, Amelia County, a quarter of a mile above Skinquarter Creek. Prior to Oct. 20, 1936, chain gage at same site and datum.

Drainage area.- 729 square miles.

Records available.- August 1900 to December 1905, March 1926 to September 1937.

Average discharge.- 11 years (1926-37), 661 second-feet.

Extremes.- Maximum discharge during year 20,100 second-feet Apr. 28 (gage height, 29.97 feet); minimum, 193 second-feet Oct. 15 (gage height, 5.35 feet).
1900-1905, 1926-37: Maximum discharge, that of Apr. 28, 1937; minimum, 11 second-feet Oct. 2, 1930 (gage height, 3.52 feet).

Remarks.- Records good except those for periods of missing gage heights, Oct. 23-25, Oct. 27 to Nov. 1, Nov. 4-9, May 1-5, which were computed on basis of recorded ranges in stage and records for stations at Farmville and Petersburg and are fair. Chain gage read twice daily prior to Oct. 20. Some regulation from low dam and gristmill about 3 miles above station.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1, 2, Apr. 29 to Sept. 30						Oct. 3 to Apr. 28					
5.6	186	9.0	852	22.0	5,710	5.3	186	8.0	682	19.0	4,330
6.0	244	10.0	1,120	25.0	8,320	5.6	228	9.0	932	22.0	5,710
6.5	324	12.0	1,740	28.0	14,200	6.0	288	10.0	1,210	25.0	8,320
7.0	412	14.0	2,420	30.0	20,100	6.5	372	12.0	1,830	28.0	14,200
7.5	510	16.0	3,160			7.0	466	14.0	2,490	30.0	20,100
8.0	616	19.0	4,330			7.5	570	16.0	3,190		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	754	210	231	835	3,650	840	497	2,700	518	484	566	3,160
2	984	207	232	1,740	3,120	840	494	1,000	471	513	586	3,400
3	570	221	270	3,480	2,000	858	482	810	656	460	392	3,360
4	304	220	327	4,110	1,130	814	470	730	778	356	322	935
5	249	220	340	4,850	960	752	480	700	712	416	295	642
6	214	220	292	6,270	880	702	1,280	694	574	420	272	1,320
7	214	230	290	5,880	804	666	2,510	690	440	350	256	2,430
8	214	230	366	3,170	823	644	2,730	658	532	416	248	2,530
9	272	230	454	1,390	938	656	1,870	665	972	312	256	1,430
10	381	230	368	1,010	1,570	657	1,430	604	609	260	266	830
11	345	232	450	838	1,630	600	1,100	548	748	252	267	636
12	242	241	930	723	1,200	572	831	514	1,190	236	320	548
13	221	246	1,130	786	897	560	725	490	639	212	462	497
14	200	249	847	1,320	970	572	670	508	468	230	694	438
15	200	242	586	1,650	1,100	712	644	1,190	451	398	914	398
16	200	243	474	1,990	1,120	878	634	1,990	360	285	442	367
17	372	246	486	2,360	1,930	1,000	612	1,520	489	222	300	352
18	880	247	676	3,010	1,980	967	568	729	906	515	258	349
19	506	241	649	3,390	1,270	878	534	598	722	370	239	344
20	338	242	690	4,390	993	792	516	540	898	583	226	326
21	274	260	899	5,580	927	718	509	500	592	3,240	211	309
22	256	264	730	6,200	1,480	668	601	465	458	4,270	199	294
23	240	244	520	6,060	1,990	614	598	439	645	4,890	316	285
24	230	234	429	5,160	1,680	596	516	442	465	4,770	1,030	278
25	220	234	382	2,400	1,340	666	1,350	482	338	1,710	1,750	276
26	214	236	381	1,390	1,280	778	5,700	428	314	548	1,980	275
27	210	236	370	1,160	1,000	654	10,700	388	368	548	2,410	271
28	210	232	362	959	876	580	18,800	538	540	616	2,310	280
29	210	225	355	2,790	-	544	15,700	1,260	396	462	898	480
30	210	228	348	3,100	-	520	7,360	2,230	346	377	1,990	590
31	210	-	382	3,320	-	508	-	930	-	373	3,070	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	10,144	984	200	327	0.449	0.52
November	7,040	264	207	235	.322	.36
December	15,246	1,130	231	492	.675	.78
Calendar year 1936	329,391	8,320	95	900	1.23	16.81
January	91,311	6,270	723	2,946	4.04	4.66
February	39,538	3,650	804	1,412	1.94	2.02
March	21,806	1,000	508	703	.964	1.11
April	80,911	18,800	470	2,697	3.70	4.13
May	25,980	2,700	388	838	1.15	1.33
June	17,595	1,190	314	586	.804	.90
July	29,094	4,890	212	939	1.29	1.49
August	23,745	3,070	199	766	1.05	1.21
September	27,630	3,400	271	921	1.26	1.41
Water year 1936-37	390,040	18,800	199	1,069	1.47	19.92

Appomattox River near Petersburg, Va.

Location.- Water-stage recorder, lat. 37°14', long. 77°33', 1½ miles above Wallace Creek, 2⅝ miles above dam of Virginia Electric & Power Co., and 7 miles west of Petersburg, Dinwiddie County.

Drainage area.- 1,335 square miles.

Records available.- September 1931 to September 1937. May 1927 to September 1931 at site 1 mile downstream.

Extremes.- Maximum discharge during year, 18,800 second-feet Apr. 30 (gage height, 14.85 feet, from floodmarks); minimum, 250 second-feet Oct. 9 (gage height, 2.70 feet).
1927-37: Maximum discharge, that of Apr. 30, 1937; minimum, 19 second-feet Sept. 21-27, 1932.

Remarks.- Records good except those for periods of missing gage heights, of which those for Apr. 16, 17, May 8, 9, 14-16, 22, 23, Aug. 3 to Sept. 3, Sept. 6-9 were computed on basis of weather records and records for station at Mattoax, and those for Apr. 24 to May 2 were computed from gage-height graph drawn on basis of occasional readings, floodmarks, and graphs for stations at Mattoax and Farmville, all of which are fair.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.6	213	4.0	1,060	8.0	5,300
2.8	290	4.5	1,500	9.0	6,500
3.0	380	5.0	2,000	11.0	9,440
3.3	545	6.0	3,030	13.0	13,800
3.6	745	7.0	4,130	14.8	18,800

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	602	274	312	967	5,540	1,410	860	16,700	1,060	790	1,700	6,000
2	1,280	274	316	2,000	5,180	1,460	836	6,870	782	924	1,280	6,500
3	1,180	274	321	4,700	4,130	1,500	820	1,700	1,500	836	940	6,000
4	649	278	385	6,020	2,250	1,460	805	1,460	1,280	662	616	2,600
5	385	308	458	6,760	1,650	1,320	805	1,320	980	662	503	1,260
6	312	308	458	6,760	1,500	1,230	2,040	1,230	996	900	452	2,500
7	278	334	425	6,500	1,360	1,140	4,350	1,180	775	682	410	4,500
8	262	334	458	6,890	1,320	1,100	4,580	1,100	964	578	380	4,500
9	258	330	590	6,020	1,360	1,100	3,800	1,100	1,230	558	366	3,000
10	374	334	630	2,050	2,000	1,100	2,600	1,050	1,180	436	430	1,700
11	545	343	578	1,360	2,450	1,030	2,150	972	1,280	357	634	1,140
12	527	334	933	1,140	2,100	972	1,700	884	1,750	325	704	924
13	362	334	1,410	1,360	1,600	932	1,360	860	1,410	321	564	820
14	299	334	1,410	1,900	1,500	932	1,230	860	836	724	745	731
15	282	366	1,040	2,300	1,800	1,100	1,180	1,200	696	642	1,210	656
16	262	362	782	2,810	1,750	1,600	1,180	2,500	636	649	1,010	597
17	282	348	717	3,250	2,500	1,750	1,100	1,460	636	425	578	552
18	601	325	820	5,060	3,030	1,700	1,000	1,320	1,320	622	420	548
19	1,000	312	996	6,020	2,500	1,550	956	988	1,550	974	366	533
20	628	308	1,020	7,560	1,750	1,360	908	932	1,410	610	348	509
21	420	308	1,180	8,440	1,550	1,280	892	860	1,230	3,600	325	485
22	348	316	1,230	9,080	2,100	1,140	1,060	800	884	5,660	312	458
23	321	316	940	9,260	2,600	1,050	1,230	750	884	6,380	656	441
24	308	325	689	8,920	2,700	996	980	738	876	6,260	3,180	430
25	294	325	590	8,140	2,400	1,230	1,310	752	616	5,660	4,240	420
26	286	321	558	5,060	2,200	1,410	5,770	798	497	1,810	4,240	415
27	286	321	564	1,950	1,850	1,280	14,100	717	497	844	3,360	410
28	274	321	545	1,550	1,550	1,080	18,400	703	662	908	3,030	410
29	274	312	533	4,580	-	972	18,200	1,250	820	844	2,150	425
30	270	299	521	6,260	-	924	18,600	2,340	623	636	2,500	703
31	274	-	533	6,020	-	884	-	2,400	-	616	4,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	13,703	1,280	258	442	0.331	0.38
November	9,578	366	274	319	.239	.27
December	21,942	1,410	312	708	.530	.61
Calendar year 1936	571,111	10,600	133	1,560	1.17	15.91
January	150,687	9,260	967	4,861	3.64	4.20
February	64,220	5,540	1,320	2,294	1.72	1.79
March	37,972	1,750	864	1,225	.918	1.06
April	114,802	18,600	805	3,827	2.87	3.20
May	57,794	16,700	703	1,864	1.40	1.61
June	29,860	1,750	497	995	.745	.83
July	45,895	6,380	321	1,480	1.11	1.28
August	42,149	4,500	312	1,360	1.02	1.18
September	50,164	6,500	410	1,672	1.25	1.40
Water year 1936-37	638,766	18,600	258	1,750	1.31	17.81

Lake Drummond in Dismal Swamp, Va.

Location.- Staff gage, lat. 36°36'00", long. 76°26'40", near outlet in Norfolk County, 2 miles east of Nansemond County line, 3 miles north of North Carolina State line, and 20 miles (revised) southwest of Norfolk.

Records available.- May 1926 to September 1937.

Extremes.- Maximum gage height during year, 5.28 feet June 22; minimum, 3.23 feet Sept. 26, 27, 30.
1926-37: Maximum gage height, 6.09 feet Oct. 7, 1929; minimum, 0.10 foot Dec. 9, 1926.

Remarks.- Records good. Gage read twice daily.

Gage height, in feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.02	4.42	4.92	5.17	4.87	4.82	5.03	4.83	5.13	5.08	4.41	3.78
2	4.00	4.42	4.92	5.07	5.10	4.75	5.05	4.83	5.13	5.01	4.43	3.71
3	4.02	4.42	4.94	5.10	4.87	4.78	5.03	4.78	5.11	5.01	4.38	3.71
4	4.00	4.42	5.02	5.14	4.87	4.78	5.11	4.93	5.13	4.88	4.33	3.75
5	3.97	4.47	5.07	5.17	4.64	4.78	5.13	5.08	5.08	4.93	4.31	3.68
6	3.97	4.54	5.07	5.02	4.52	4.78	4.93	5.08	5.05	4.93	4.35	3.73
7	3.97	4.54	5.14	5.02	4.52	4.81	4.95	5.05	5.08	4.85	4.28	3.78
8	4.00	4.60	5.12	5.12	5.02	4.83	4.98	5.05	5.18	4.85	4.21	3.81
9	3.97	4.60	5.07	5.22	4.92	4.83	4.98	5.08	5.18	4.85	4.18	3.78
10	4.04	4.64	5.07	5.22	4.92	4.88	4.98	5.11	5.18	4.83	4.13	3.75
11	4.10	4.62	5.07	5.12	5.02	4.93	5.08	5.08	5.23	4.78	4.08	3.78
12	4.02	4.70	5.07	5.12	4.87	4.95	5.03	5.13	5.21	4.78	4.13	3.78
13	4.02	4.72	5.02	5.12	4.62	5.03	5.03	5.08	5.15	4.81	4.13	3.73
14	4.02	4.72	5.02	5.12	4.67	5.03	5.03	5.11	5.13	4.75	4.18	3.73
15	4.04	4.74	5.07	5.12	4.67	4.95	5.08	5.13	5.13	4.73	4.13	3.65
16	4.02	4.77	5.12	5.12	4.70	4.91	5.08	5.08	5.15	4.73	4.13	3.68
17	4.32	4.72	5.12	5.12	4.70	4.95	5.05	5.11	5.21	4.68	4.05	3.68
18	4.32	4.80	4.97	5.07	4.72	4.98	5.05	5.11	5.18	4.66	4.01	3.63
19	4.32	4.80	5.07	5.04	4.72	4.95	5.08	5.08	5.18	4.68	3.91	3.53
20	4.32	4.77	5.22	5.07	4.72	4.95	5.03	5.08	5.15	4.63	3.88	3.55
21	4.34	4.77	5.10	5.07	4.74	5.03	5.08	5.08	5.15	4.58	3.88	3.51
22	4.40	4.77	5.10	5.02	4.77	5.05	5.11	5.08	5.23	4.53	3.83	3.45
23	4.42	4.82	5.10	5.17	4.77	5.03	5.08	5.11	5.13	4.48	3.83	3.45
24	4.42	4.82	5.12	5.07	4.77	5.03	5.08	5.11	5.08	4.41	3.85	3.38
25	4.42	4.87	5.12	5.17	4.82	4.98	5.05	5.08	5.08	4.35	3.88	3.35
26	4.42	4.87	5.12	5.02	4.82	5.03	5.18	5.05	5.11	4.31	3.85	3.28
27	4.42	4.87	5.12	5.02	4.80	5.01	4.95	5.08	5.05	4.33	3.83	3.25
28	4.42	4.90	5.12	5.07	4.82	5.03	4.93	5.15	5.05	4.43	3.83	3.33
29	4.42	4.92	5.12	5.02	-	5.03	4.83	5.13	5.03	4.43	3.78	3.28
30	4.42	4.92	5.12	4.87	-	5.01	4.83	5.13	5.03	4.41	3.75	3.25
31	4.42	-	5.17	4.87	-	5.03	-	5.13	-	4.43	3.78	-

Nottoway River near Stony Creek, Va.

Location.- Water-stage recorder, lat. 36°54'00", long. 77°24'00", at bridge on Petersburg-Emporia highway, 2 miles above Island Swamp Creek and 3½ miles south of Stony Creek, Sussex County.

Drainage area.- 586 square miles.

Records available.- March 1930 to September 1937.

Extremes.- Maximum discharge during year, 11,500 second-feet Apr. 28 (gage height, 20.00 feet); minimum, 50 second-feet Oct. 1 (gage height, 1.61 feet).
1930-37: Maximum discharge, that of Apr. 28, 1937; minimum, 5 second-feet Sept. 2, 5, 1932 (gage height, 0.62 foot).

Remarks.- Records good.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.6	49	7.0	1,200
1.8	66	8.0	1,490
2.0	87	10.0	2,070
2.3	124	12.0	2,730
2.6	165	13.0	3,150
3.0	228	14.0	3,810
3.5	325	15.0	4,740
4.0	432	16.0	5,880
5.0	670	18.0	8,530
6.0	929	20.0	11,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	83	88	124	720	2,290	746	443	1,170	356	285	490	956
2	552	85	128	1,370	1,830	772	432	929	295	295	798	695
3	442	88	136	2,270	1,340	902	421	798	315	237	746	500
4	192	94	178	3,050	956	850	410	746	285	200	388	410
5	130	106	190	3,810	876	746	399	695	246	218	256	380
6	107	128	172	3,920	850	670	1,340	824	225	228	211	3,110
7	97	165	171	1,470	772	620	2,110	746	230	336	192	3,410
8	94	140	237	1,170	772	583	2,110	632	571	378	176	3,910
9	86	119	325	1,060	772	670	1,540	583	571	225	165	1,760
10	94	123	275	824	983	620	1,230	523	367	176	216	850
11	137	123	328	695	1,150	535	929	500	367	155	237	595
12	178	124	746	608	876	512	720	466	315	137	410	500
13	134	138	772	583	720	488	620	443	275	133	670	432
14	107	178	571	712	772	512	583	477	226	531	670	378
15	92	178	421	876	902	695	571	772	206	892	477	346
16	88	154	346	1,120	850	1,330	670	746	268	367	256	315
17	121	138	432	1,480	902	1,150	670	535	595	220	200	295
18	152	125	535	2,630	929	902	535	443	670	218	174	305
19	188	118	488	2,770	772	772	488	388	670	596	155	295
20	162	119	477	4,150	670	670	466	367	1,260	265	143	275
21	120	116	670	5,520	670	632	443	356	698	792	134	256
22	101	121	555	6,240	1,090	583	488	325	410	1,370	127	237
23	100	121	388	5,180	1,230	535	670	315	315	988	694	225
24	95	121	315	1,840	956	512	547	305	275	454	2,650	218
25	86	121	275	1,120	1,150	707	753	295	225	305	3,810	209
26	84	133	265	983	1,120	824	4,170	285	198	246	5,180	208
27	89	130	256	876	850	620	7,690	265	190	237	5,400	201
28	84	137	256	746	746	535	11,200	287	661	399	2,380	206
29	91	133	256	3,230	-	500	8,530	626	399	378	798	200
30	83	121	246	4,740	-	466	2,660	1,040	275	265	695	213
31	89	-	275	3,320	-	454	-	535	-	214	1,090	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4,258	552	83	137	0.234	0.27
November	3,785	178	85	126	.215	.24
December	10,809	772	124	349	.596	.69
Calendar year 1936	272,007	7,410	46	743	1.27	17.25
January	69,083	6,240	583	2,228	3.80	4.38
February	27,796	2,290	670	993	1.69	1.76
March	21,113	1,330	454	681	1.16	1.34
April	53,838	11,200	399	1,795	3.06	3.41
May	17,417	1,170	265	562	.959	1.11
June	11,959	1,260	190	399	.681	.76
July	11,740	1,370	133	379	.647	.75
August	29,988	5,400	127	967	1.65	1.90
September	21,890	3,910	200	730	1.25	1.40
Water year 1936-37	283,676	11,200	83	777	1.33	18.01

Meherrin River near Lawrenceville, Va.

Location.- Water-stage recorder, lat. 36°43'00", long. 77°50'00", revised, at Gholson Bridge, 3 miles southeast of Lawrenceville, Brunswick County.

Drainage area.- 553 square miles.

Records available.- December 1928 to September 1937.

Extremes.- Maximum discharge during year, 17,300 second-feet Apr. 27 (gage height, 30.92 feet, from floodmarks), from rating curve extended above 8,000 second-feet on basis of velocity-area studies and comparison of peak discharge and total run-off of flood at this station with those for Nottoway River near Stony Creek; minimum, 22 second-feet Oct. 26 (gage height, 1.22 feet); minimum daily discharge, 63 second-feet Oct. 26. 1928-37: Maximum discharge, that of Apr. 27, 1937; minimum, 5 second-feet Sept. 23, 24, 1932 (gage height, 0.72 foot); minimum daily discharge, 5 second-feet Sept. 24, 1932.

Remarks.- Records good except those for periods of missing or faulty gage heights, Nov. 2, Jan. 10-15, Apr. 27 to May 13, May 17, 18, Sept. 13-16 (computed on basis of recorder graphs, weather records, floodmarks, and records for station on Nottoway River near Stony Creek), and those for high stages, which are fair. Flow regulated during low water by small dam and mill just above station.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Jan. 22 to Apr. 26)

1.7	55	6.0	912	20.0	5,780
2.0	84	8.0	1,490	22.0	7,300
2.5	149	10.0	2,110	25.0	10,300
3.0	230	13.0	3,090	28.0	13,700
4.0	421	16.0	4,110	30.9	17,300
5.0	652	18.0	4,810		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	611	77	84	1,850	2,150	520	340	1,000	168	271	246	1,190
2	804	80	106	1,670	1,370	567	330	730	176	188	442	508
3	182	75	117	3,740	848	666	320	580	498	162	277	356
4	114	82	119	4,880	674	632	312	480	204	140	148	283
5	90	95	116	3,510	610	537	336	420	172	130	127	260
6	84	104	122	1,240	588	490	2,780	440	150	290	111	2,120
7	78	96	140	1,080	538	452	3,700	410	213	548	115	3,480
8	92	103	244	1,080	556	456	2,500	380	668	298	100	5,180
9	95	82	269	808	576	498	1,070	360	248	160	84	2,570
10	134	93	190	650	1,190	438	926	340	194	127	98	605
11	151	88	392	600	1,090	393	668	320	327	114	354	435
12	88	98	771	550	677	376	542	310	234	94	1,110	390
13	101	146	568	550	564	364	496	300	170	154	1,140	340
14	90	129	375	700	590	364	476	354	144	844	376	300
15	88	112	266	900	798	489	470	487	134	346	276	260
16	90	90	249	2,040	645	899	522	493	240	158	168	240
17	116	96	402	1,280	882	852	528	320	304	148	141	220
18	109	103	556	3,670	796	676	459	270	281	140	118	211
19	122	103	344	3,670	586	554	431	256	804	126	113	206
20	107	91	536	4,350	534	492	408	245	715	169	112	196
21	99	87	640	6,620	558	462	366	235	256	296	96	187
22	92	79	340	4,680	1,500	430	452	216	194	506	97	175
23	89	79	252	1,190	1,130	390	675	207	160	252	1,130	166
24	88	92	206	876	742	381	394	202	142	204	3,620	157
25	79	122	182	758	830	602	1,630	196	134	144	4,400	162
26	63	116	182	798	733	705	9,400	192	134	114	4,760	163
27	76	101	184	692	560	457	16,000	187	1,020	243	3,160	136
28	88	100	176	592	528	400	7,100	252	414	354	657	148
29	82	102	178	2,880	-	374	2,700	237	224	209	408	154
30	76	79	174	3,800	-	356	1,600	200	190	142	481	149
31	72	-	212	1,280	-	344	-	187	-	121	1,740	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4,250	804	63	137	0.248	0.29
November	2,900	146	75	96.7	.175	.20
December	8,692	771	84	280	.506	.58
Calendar year 1936	242,100	9,970	40	661	1.20	16.28
January	62,984	6,620	550	2,032	3.67	4.23
February	22,843	2,150	528	816	1.48	1.54
March	15,616	899	344	504	.911	1.05
April	57,931	16,000	312	1,931	3.49	3.89
May	10,806	1,000	187	349	.631	.73
June	8,912	1,020	134	297	.537	.60
July	7,192	844	94	232	.420	.48
August	26,205	4,760	84	845	1.53	1.76
September	20,947	5,180	136	698	1.26	1.41
Water year 1936-37	249,278	16,000	63	683	1.24	16.76

Roanoke River at Roanoke, Va.

Location.- Water-stage recorder, lat. 37°15'30", long. 79°56'20", at Walnut Street bridge in Roanoke, Roanoke County, 3 miles above mouth of Tinker Creek. Zero of gage is 906.84 feet above mean sea level. Prior to June 7, 1937, chain gage at same site and datum.
Drainage area.- 388 square miles.
Records available.- July 1896 to September 1937.
Average discharge.- 37 years (1896-97, 1898-1902, 1903-5, 1907-37), 403 second-feet.
Extremes.- Maximum discharge during year, 8,990 second-feet Aug. 30 (gage height, 10.15 feet), from rating curve extended above 5,500 second-feet; minimum, 85 second-feet Oct. 13, 14, Nov. 5; minimum gage height, 0.77 foot July 3, 4, 11, Aug. 4.
1896-1937: Maximum discharge observed, 16,900 second-feet Aug. 6, 1901 (gage height, 14.34 feet); practically no flow on Dec. 23, 1909, when flow was retarded by freezing (gage height, 0.0 foot).
Remarks.- Records good except those for periods of missing or faulty gage heights, which are fair. Gage read twice daily prior to June 7, 1937.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 20
Apr. 27 to June 6

0.8	80	3.0	1,120
1.0	132	3.5	1,520
1.3	234	4.0	2,000
1.6	358	5.0	3,000
2.0	544	6.0	4,100
2.5	810	8.0	6,350

Jan. 21 to Apr. 26

1.2	156
1.4	228
1.7	353
2.0	500
2.5	780
3.0	1,110
3.5	1,520
4.0	2,000
5.3	3,330

June 7 to Sept. 30

0.8	106	3.0	1,120
1.0	160	3.5	1,510
1.3	256	4.0	2,000
1.6	370	5.0	3,000
2.0	550	6.0	4,100
2.5	810	8.0	6,350

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	620	*130	94	*800	1,340	353	240	594	174	116	127	1,380
2	274	124	110	2,200	1,040	353	232	*530	164	114	119	799
3	195	124	115	*3,500	780	376	221	472	202	106	114	588
4	*160	121	124	1,900	690	376	*250	425	184	142	109	470
5	135	94	115	1,060	605	400	288	402	242	196	111	415
6	118	126	*110	810	525	376	353	402	*150	149	131	1,320
7	112	124	496	673	*530	*380	309	358	160	140	730	668
8	104	*120	448	569	525	400	288	358	258	122	252	550
9	102	121	316	520	475	376	309	*320	169	119	609	465
10	107	121	258	*470	720	353	288	295	152	111	693	399
11	*100	115	262	448	605	353	*260	274	212	114	1,410	362
12	94	118	402	402	550	331	240	270	163	229	818	326
13	87	112	*430	870	500	309	228	270	143	151	488	303
14	87	115	402	870	*460	*320	224	1,260	135	249	378	281
15	90	*110	358	810	425	331	244	810	140	278	274	256
16	*2,000	104	316	1,060	425	331	259	*650	154	175	236	239
17	3,880	97	990	*1,500	400	288	224	520	206	318	212	229
18	*650	99	673	2,200	353	309	*210	425	250	193	196	216
19	448	99	544	2,200	331	331	195	380	236	154	190	209
20	316	97	*700	5,870	309	309	188	337	169	181	166	206
21	258	102	594	3,330	*350	*300	188	316	140	239	152	200
22	198	*100	544	1,900	*600	288	191	295	181	236	279	193
23	191	97	472	1,260	550	267	188	*300	169	190	513	184
24	188	94	425	*1,000	525	267	177	380	132	169	537	181
25	*170	97	*400	900	475	309	*800	270	122	206	1,210	178
26	161	*95	*380	780	400	267	2,300	250	116	166	2,870	178
27	145	94	*380	660	376	255	990	227	133	138	1,030	206
28	132	92	569	578	*360	*250	700	209	234	119	593	278
29	138	*95	569	970	-	244	646	202	157	119	460	222
30	126	97	646	840	-	228	646	*200	129	172	2,650	187
31	124	-	673	*1,000	-	224	-	*210	-	143	4,650	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	11,510	3,880	87	371	0.956	1.10
November	3,234	130	92	108	.278	.31
December	12,915	990	94	417	1.07	1.23
Calendar year 1936	188,496	7,310	68	515	1.33	18.06
January	41,950	5,870	402	1,353	3.49	4.02
February	15,224	1,340	309	544	1.40	1.46
March	9,854	400	224	318	.820	.95
April	11,876	2,300	177	396	1.02	1.14
May	12,211	1,260	200	394	1.02	1.18
June	5,176	258	116	173	.446	.50
July	5,254	318	106	169	.436	.50
August	22,307	4,650	109	720	1.86	2.14
September	11,688	1,380	178	390	1.01	1.13
Water year 1936-37	163,199	5,870	87	447	1.15	15.66

*Missing or faulty gage height; discharge computed on basis of observer's notes, weather records and records for station at Niagara.

Roanoke River at Niagara, Va.

Location.- Water-stage recorder, lat. 37°15'18", long. 79°52'18", 200 feet below power plant of Appalachian Electric Power Co. at Niagara, Roanoke County, and 2 miles below mouth of Tinker Creek. Zero of gage is 820.15 feet above mean sea level.

Drainage area.- 511 square miles.

Records available.- July 1926 to September 1937.

Average discharge.- 11 years, 522 second-feet.

Extremes.- Maximum discharge during year, 8,320 second-feet Jan. 20 (gage height, 11.54 feet); minimum, 13 second-feet June 4 (gage height, 0.42 foot); minimum daily, 125 second-feet Oct. 15.
1926-37: Maximum discharge, about 16,300 second-feet Aug. 16, 1928 (gage height, 17.36 feet), from rating curve extended above 5,000 second-feet; minimum, that of June 4, 1937; minimum daily, 40 second-feet (estimated), Nov. 6, 1931.

Remarks.- Records good except those for periods of missing or faulty gage heights, Jan. 23 to Feb. 20, Mar. 23, Aug. 26 to Sept. 10, which were computed on basis of records for stations at Roanoke and Toshes and are fair. Flow regulated at dam and water-power plant 200 feet above station.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Jan. 21 to Apr. 26, Aug. 31 to Sept. 30)

1.5	121	3.0	510	4.5	1,160	7.0	3,130	10.0	6,470
2.0	221	3.5	698	5.0	1,470	8.0	4,150	11.0	7,670
2.5	348	4.0	912	6.0	2,230	9.0	5,270		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	778	206	146	1,060	1,900	613	384	754	232	209	166	2,000
2	316	164	162	3,310	1,400	584	361	688	222	162	164	1,100
3	208	179	173	4,810	1,100	585	306	603	308	134	164	840
4	194	174	177	2,750	920	569	366	563	206	234	142	660
5	196	174	172	1,560	840	600	504	560	528	270	132	600
6	187	207	166	1,120	760	612	494	530	248	232	177	1,800
7	152	166	493	923	720	612	465	467	278	200	866	1,100
8	150	174	511	812	680	616	447	484	394	206	360	920
9	147	176	353	716	690	626	423	428	239	163	973	830
10	148	190	262	652	850	556	418	403	224	184	928	750
11	148	164	298	594	770	514	406	333	297	142	2,910	674
12	148	158	458	562	700	566	413	351	234	265	1,260	604
13	142	166	574	1,100	650	505	384	368	230	208	760	562
14	142	158	495	1,170	610	508	324	1,160	213	413	640	538
15	125	164	436	1,170	590	524	429	976	214	336	444	466
16	2,790	169	413	1,480	540	549	354	776	232	214	360	476
17	3,900	172	908	2,090	550	488	358	611	458	388	314	457
18	863	145	778	3,300	500	489	361	525	376	199	464	402
19	548	149	668	4,420	500	518	331	506	358	254	303	416
20	399	164	972	7,650	500	470	278	429	262	282	282	410
21	322	140	806	4,860	620	476	376	418	236	311	244	369
22	294	142	696	2,910	936	470	296	376	226	275	354	358
23	294	157	584	1,700	874	480	343	375	280	264	809	330
24	295	170	560	1,400	801	506	293	391	172	268	828	338
25	247	156	483	1,200	754	434	1,290	374	188	338	1,920	328
26	272	149	499	1,000	633	464	3,230	348	186	256	3,600	306
27	208	126	472	880	623	442	1,560	276	278	214	1,800	432
28	242	136	584	780	611	393	980	310	350	179	1,000	462
29	210	132	550	1,300	-	400	868	242	218	177	750	406
30	200	144	614	1,100	-	352	866	270	200	238	2,400	294
31	232	-	755	1,400	-	374	-	288	-	170	6,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	14,497	3,900	125	468	0.916	1.06
November	4,871	207	126	162	.317	.35
December	15,218	972	146	491	.961	1.11
Calendar year 1936	262,311	7,840	105	717	1.40	19.08
January	59,779	7,650	562	1,928	3.77	4.35
February	21,622	1,900	500	772	1.51	1.57
March	15,895	626	352	513	1.00	1.15
April	17,908	3,230	278	597	1.17	1.30
May	15,183	1,160	242	490	.959	1.11
June	8,087	528	172	270	.528	.59
July	7,385	413	134	238	.466	.54
August	31,514	6,000	132	1,017	1.99	2.29
September	19,228	2,000	294	641	1.25	1.40
Water year 1936-37	231,187	7,650	125	633	1.24	16.82

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Roanoke River near Toshes, Va.

Location.- Water-stage recorder, lat. 37°02'03", long. 79°31'18", seven-eighths of a mile below Witchers Creek, 3 miles above Pigg River, and 5 miles (revised) northwest of Toshes, Pittsylvania County. Zero of gage is 588.99 feet above mean sea level.

Drainage area.- 1,020 square miles.

Records available.- September 1925 to September 1937.

Average discharge.- 12 years, 963 second-feet.

Extremes.- Maximum discharge during year, 15,400 second-feet Aug. 31 (gage height, 13.38 feet); minimum, 261 second-feet Oct. 13, 14 (gage height, 1.38 feet).
1925-37: Maximum discharge, 26,500 second-feet Oct. 18, 1932 (gage height, 19.60 feet), from rating curve extended above 17,000 second-feet; minimum, 93 second-feet Sept. 19, 20, 1932 (gage height, 0.96 foot).

Remarks.- Records good except those for periods of faulty gage heights, which are fair.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.3	224	2.6	1,140	6.0	4,500
1.5	318	3.0	1,500	8.0	7,000
1.7	434	3.5	1,950	10.0	9,900
2.0	645	4.0	2,400	12.0	13,000
2.3	885	5.0	3,400		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,260	409	313	2,130	3,840	1,230	765	*1,500	556	403	378	*5,000
2	936	397	350	4,250	*2,800	1,230	741	*1,400	487	514	350	*2,500
3	493	361	415	10,600	*2,100	1,230	701	1,320	528	361	415	*1,900
4	356	378	415	5,580	*1,800	1,230	622	1,180	592	323	367	*1,500
5	323	397	384	3,100	*1,600	1,180	944	1,090	834	588	318	*1,400
6	313	367	367	*2,400	*1,600	1,180	1,360	1,120	661	1,540	502	3,730
7	308	384	853	*2,000	*1,500	1,180	1,120	1,070	582	563	848	*2,500
8	284	350	1,130	*1,700	*1,300	1,140	978	936	936	528	1,060	*2,000
9	280	367	821	1,480	*1,400	1,230	978	928	765	460	902	1,770
10	299	361	669	1,280	*1,300	1,120	902	853	556	361	1,740	*1,400
11	289	372	638	1,120	*1,400	1,040	845	797	784	397	4,500	*1,200
12	275	361	970	1,080	*1,300	1,010	805	717	608	384	3,340	*1,100
13	265	361	1,100	1,180	*1,200	1,040	789	749	487	1,150	2,280	*1,000
14	261	356	*970	1,950	*1,200	996	773	1,500	460	1,330	3,630	*940
15	265	345	*860	2,180	*1,200	1,060	685	2,080	460	693	1,360	805
16	1,010	334	765	2,600	*1,000	1,110	885	1,500	528	592	970	797
17	6,060	340	1,280	3,060	*1,100	1,030	701	1,230	638	936	829	805
18	3,100	350	1,640	5,340	1,040	996	741	1,050	898	898	821	*720
19	1,640	323	1,280	6,270	1,050	1,020	677	910	797	434	902	*680
20	996	323	1,880	11,600	1,070	1,000	669	902	653	1,550	829	*650
21	773	340	1,900	10,400	1,180	953	622	789	467	1,180	677	*620
22	622	318	1,460	*5,200	2,260	910	717	765	487	1,180	685	*590
23	585	313	1,230	*3,300	1,950	902	592	837	474	725	677	570
24	563	329	1,050	*2,600	1,720	902	685	996	500	570	2,620	585
25	556	340	970	*2,300	1,590	928	3,540	821	367	563	4,440	600
26	474	323	765	*2,000	1,460	885	6,870	725	378	717	6,730	*560
27	487	329	861	*1,700	1,360	885	3,200	661	488	556	4,530	*750
28	428	299	869	*1,500	1,280	837	*2,200	608	717	434	*2,500	1,060
29	454	308	1,120	*2,600	-	781	*1,800	592	630	378	*1,700	*840
30	422	308	1,140	*2,200	-	761	*1,700	549	441	367	*2,600	570
31	384	-	1,410	*2,800	-	717	-	521	-	447	11,700	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	25,761	6,060	261	831	0.815	0.94
November	10,443	409	299	348	.341	.38
December	29,875	1,900	313	964	.945	1.09
Calendar year 1936	495,499	16,200	208	1,354	1.33	18.06
January	107,480	11,600	1,080	3,467	3.40	3.92
February	43,600	3,840	1,000	1,557	1.53	1.59
March	31,733	1,230	717	1,024	1.00	1.15
April	38,607	6,870	592	1,287	1.26	1.41
May	30,696	2,080	521	990	.971	1.12
June	17,759	936	367	592	.580	.65
July	21,122	1,550	323	681	.668	.77
August	65,200	11,700	318	2,103	2.06	2.38
September	39,142	5,000	560	1,305	1.28	1.43
Water year 1936-37	461,418	11,700	261	1,264	1.24	16.83

*Faulty gage height; discharge computed on basis of partial gage-height record and records for stations at Niagara and Altavista.

Roanoke River at Altavista, Va.

Location.- Water-stage recorder, lat. 37°06'21", long. 79°17'38", at highway bridge a quarter of a mile south of Altavista, Campbell County. Zero of gage is 503.25 feet above mean sea level.

Drainage area.- 1,802 square miles.

Records available.- August 1930 to September 1937.

Extremes.- Maximum discharge during year, 32,400 second-feet Jan. 3 (gage height, 24.03 feet); minimum, 585 second-feet Oct. 14 (gage height, 2.92 feet).
1930-37: Maximum discharge, 46,500 second-feet Oct. 18, 1932 (gage height, 29.30 feet); minimum, 94 second-feet Jan. 31, 1934 (gage height, 1.66 feet).

Remarks.- Records good except those for periods of missing or faulty gage heights, Jan. 8-13, 27-29, Feb. 7-18, Feb. 23 to Mar. 25, Aug. 8-10, which were computed on basis of recorder charts and records for Roanoke River at Brookneal and at Toshes and for stations on Goose Creek and Pigg River and are fair.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 3				Jan. 4 to Apr. 26 Sept. 1-30		Apr. 27 to Aug. 31			
2.9	585	10.0	6,400	3.7	955	3.2	795	6.0	2,870
3.2	730	12.0	8,400	4.0	1,140	3.5	970	8.0	4,610
3.5	900	14.0	10,800	5.0	1,880	4.0	1,300	10.0	6,410
4.0	1,230	16.0	14,000	6.0	2,680	5.0	2,070		
5.0	1,990	18.0	17,800	8.0	4,430	Note.- Same as preceding table above 10.1 feet.			
6.0	2,790	20.0	22,300	10.0	6,400				
8.0	4,560	22.0	27,700	Note.- Same as preceding table above 9.6 feet.					

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,240	785	655	4,200	6,500	2,200	1,240	2,790	1,090	1,530	1,060	13,100
2	2,310	785	705	8,070	4,800	2,200	1,320	2,550	1,260	1,260	881	5,100
3	1,260	785	900	27,700	3,710	2,100	1,280	2,310	1,300	1,200	1,160	3,620
4	870	758	900	11,700	3,170	2,100	1,240	2,150	1,370	910	940	2,840
5	758	840	812	5,300	2,840	2,000	1,530	2,070	1,950	954	852	2,820
6	705	812	758	3,890	2,600	2,000	2,600	2,390	1,550	2,380	824	6,820
7	705	758	1,570	3,170	2,300	2,000	2,200	2,150	1,520	2,150	1,400	4,620
8	680	758	2,150	2,900	2,200	1,900	1,760	1,870	2,150	1,340	1,600	3,260
9	655	758	1,630	2,500	2,200	2,100	1,720	1,750	1,670	1,090	1,700	2,680
10	812	785	1,340	2,200	2,300	1,900	1,640	1,670	1,260	970	1,800	2,280
11	785	730	1,340	1,900	2,300	1,800	1,500	1,550	2,170	852	7,690	2,040
12	680	758	2,230	1,700	2,100	1,700	1,420	1,480	1,370	970	6,120	1,800
13	630	758	2,310	2,000	2,000	1,700	1,380	1,440	1,160	970	4,430	1,640
14	608	785	1,950	3,000	2,000	1,700	1,380	2,560	1,060	4,070	6,660	1,500
15	608	758	1,590	3,890	1,900	1,800	1,350	4,430	1,090	1,950	2,710	1,420
16	995	705	1,480	4,610	1,800	2,000	1,420	2,870	1,160	1,260	1,830	1,280
17	18,400	730	2,150	4,070	1,900	1,900	1,350	2,390	1,830	1,610	1,510	1,280
18	6,130	730	2,710	9,640	1,800	1,800	1,240	1,990	1,910	2,260	1,510	1,240
19	2,470	730	2,230	13,300	1,680	1,900	1,320	1,790	2,030	1,230	1,790	1,140
20	1,830	705	3,660	23,000	1,720	1,800	1,210	1,670	1,510	2,640	1,440	1,140
21	1,480	705	3,660	18,200	2,000	1,700	1,210	1,550	1,200	4,030	1,260	1,080
22	1,300	705	2,550	8,000	5,300	1,600	1,280	1,480	1,060	3,190	2,120	1,050
23	1,160	680	2,230	5,600	4,200	1,600	1,210	1,550	1,060	1,910	1,500	1,020
24	1,120	680	1,670	4,430	3,300	1,600	1,140	1,830	1,030	1,440	4,740	985
25	1,090	705	1,670	3,800	2,900	1,700	3,970	1,830	910	1,230	7,220	955
26	1,020	705	1,550	3,530	2,600	1,530	16,600	1,480	852	1,480	12,400	955
27	930	680	1,510	2,900	2,400	1,460	6,230	1,400	940	1,750	9,160	1,210
28	900	655	1,510	2,600	2,200	1,420	4,160	1,230	2,060	1,200	4,520	2,000
29	870	630	1,710	4,600	-	1,350	3,350	1,260	1,740	970	3,030	1,640
30	840	680	1,790	3,980	-	1,320	3,190	1,160	1,200	910	4,500	1,280
31	812	-	2,150	4,700	-	1,320	-	1,120	-	1,000	19,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	57,653	18,400	608	1,860	1.03	1.19
November	22,038	940	630	735	.408	.46
December	55,270	3,660	655	1,783	.989	1.14
Calendar year 1936	940,964	37,200	431	2,571	1.43	19.44
January	201,080	27,700	1,700	6,486	3.60	4.15
February	76,720	6,500	1,680	2,740	1.52	1.58
March	55,200	2,200	1,320	1,781	.988	1.14
April	72,440	16,600	1,140	2,415	1.34	1.50
May	59,760	4,430	1,120	1,928	1.07	1.23
June	42,462	2,170	852	1,415	.785	.88
July	50,706	4,070	852	1,636	.908	1.05
August	117,857	19,500	824	3,802	2.11	2.43
September	73,795	13,100	955	2,460	1.37	1.53
Water year 1936-37	884,981	27,700	608	2,425	1.35	18.28

Roanoke River at Brookneal, Va.

Location.- Water-stage recorder, lat. 37°02'22", long. 78°56'41", at highway bridge at Virginian Railway station in Brookneal, Campbell County, 2¾ miles above Falling River. Zero of gage is 351.14 feet above mean sea level.

Drainage area.- 2,420 square miles.

Records available.- April 1927 to September 1937.

Average discharge.- 14 years, 2,328 second-feet.

Extremes.- Maximum discharge during year, 38,500 second-feet Jan. 3 (gage height, 28.60 feet); minimum, 770 second-feet Oct. 15; minimum gage height, 4.40 feet Nov. 29.
1923-37: Maximum discharge, 68,300 second-feet Aug. 12, 1928 (gage height, 37.15 feet), from rating curve extended above 26,000 second-feet; minimum, 191 second-feet (estimated), Sept. 2, 1932.

Remarks.- Records fair. Discharge for periods of missing or faulty gage heights, Oct. 7-13, Dec. 25-28, Jan. 9-11, Apr. 16 to May 24, Aug. 31, Sept. 15-28, computed on basis of recorder charts and records for stations at Altavista and Clover.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 19 to Jan. 2, Sept. 3-30)

4.4	725	7.0	2,190	17.0	13,900
4.7	860	8.0	2,980	20.0	18,500
5.0	1,000	10.0	4,930	22.0	22,000
5.5	1,250	12.0	7,260	24.0	26,000
6.0	1,540	14.0	9,850	26.2	31,300

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,700	1,020	860	4,600	8,810	2,890	1,780	3,600	1,420	1,600	1,600	17,900
2	3,520	1,050	822	7,980	6,660	2,890	1,780	3,300	1,720	1,600	1,200	6,540
3	1,660	1,050	1,100	31,300	4,930	2,810	1,780	3,000	1,720	1,600	1,280	4,820
4	1,200	1,020	1,200	23,200	4,100	2,810	1,780	2,800	1,660	1,250	1,300	4,300
5	1,000	1,050	1,100	7,260	3,700	2,730	1,910	2,700	2,330	1,150	1,100	3,430
6	905	1,080	1,000	4,710	3,340	2,650	3,340	2,800	1,980	1,820	975	7,260
7	900	1,020	1,400	3,700	3,070	2,490	2,980	2,800	1,600	2,810	1,320	6,420
8	880	1,020	2,570	3,160	2,980	2,490	2,490	2,500	2,410	1,720	1,650	4,400
9	860	1,020	2,120	2,800	3,070	2,650	2,490	2,300	2,120	1,360	1,910	3,520
10	940	1,050	1,980	2,500	3,160	2,490	2,330	2,100	1,720	1,220	2,190	2,980
11	980	1,000	1,910	2,300	3,250	2,330	2,120	2,000	2,050	1,150	6,040	2,650
12	920	1,000	2,730	2,050	2,980	2,260	2,050	1,900	1,980	1,220	8,340	2,490
13	820	1,020	3,160	2,330	2,810	2,190	1,980	1,900	1,540	1,150	5,260	2,280
14	792	1,020	2,650	3,070	2,810	2,260	1,910	2,700	1,480	3,460	7,450	2,050
15	792	1,020	1,980	4,400	2,810	2,410	1,910	5,600	1,420	2,980	4,010	1,900
16	972	950	1,840	6,540	2,650	2,650	1,900	4,400	1,480	1,600	2,260	1,700
17	13,000	928	2,330	6,630	2,810	2,650	1,600	3,300	2,420	1,480	1,840	1,700
18	12,900	928	3,160	13,900	2,650	2,570	1,800	2,700	2,980	2,250	1,660	1,600
19	3,520	928	2,730	14,200	2,490	2,650	1,700	2,300	3,160	1,600	1,780	1,500
20	2,330	928	4,320	25,300	2,410	2,410	1,700	2,100	2,260	2,670	1,720	1,500
21	1,840	928	5,040	24,500	2,730	2,330	1,700	2,000	1,720	6,060	1,360	1,400
22	1,660	928	3,340	11,800	7,260	2,260	1,700	1,900	1,510	3,900	1,780	1,400
23	1,480	905	2,730	7,260	5,420	2,120	1,700	1,900	1,540	2,490	1,720	1,300
24	1,360	882	2,330	5,480	4,500	2,190	1,600	2,200	1,360	1,780	4,230	1,300
25	1,330	882	2,000	4,710	4,100	2,260	5,100	2,120	1,300	1,480	6,660	1,300
26	1,280	905	1,800	4,200	3,520	2,190	21,000	1,910	1,180	1,590	15,600	1,300
27	1,200	905	1,700	3,700	3,070	2,050	17,000	1,780	1,180	2,330	10,900	1,400
28	1,150	860	1,700	3,340	2,980	1,980	7,600	1,660	1,660	1,600	5,590	2,300
29	1,080	838	1,840	6,140	-	1,910	4,800	1,540	2,050	1,250	3,520	2,730
30	1,100	860	2,050	6,420	-	1,910	4,200	1,540	1,600	1,150	4,500	2,120
31	1,050	-	2,410	5,480	-	1,840	-	1,450	-	1,150	17,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	67,121	13,000	792	2,165	0.895	1.03
November	28,995	1,080	838	966	.399	.45
December	57,962	5,040	860	2,192	.906	1.04
Calendar year 1936	1,237,217	42,700	602	3,380	1.40	19.01
January	254,960	31,300	2,050	8,225	3.40	3.92
February	106,070	8,810	2,410	3,788	1.57	1.64
March	74,320	2,890	1,840	2,397	.990	1.14
April	107,730	21,000	1,600	3,591	1.48	1.65
May	76,800	5,600	1,450	2,477	1.02	1.18
June	54,550	3,160	1,180	1,818	.751	.84
July	60,470	6,060	1,150	1,951	.806	.93
August	127,755	17,000	975	4,121	1.70	1.96
September	97,490	17,900	1,300	3,250	1.34	1.50
Water year 1936-37	1,124,223	31,300	792	3,080	1.27	17.28

Roanoke River near Clover, Va.

Location.- Water-stage recorder, lat. 36°50'17", long. 78°40'02", at highway bridge 3½ miles below mouth of Roanoke Creek and 6 miles east of Clover, Halifax County.

Drainage area.- 3,230 square miles.

Records available.- August 1929 to September 1937.

Extremes.- Maximum discharge during year, not determined; minimum, 1,000 second-feet Oct. 16 (gage height, 1.90 feet).
1929-37: Maximum discharge, 56,400 second-feet Mar. 19, 1936 (gage height, 23.49 feet); minimum, 304 second-feet Sept. 3, 1932 (gage height, 0.50 foot).

Remarks.- Records excellent except those for periods of missing gage heights, which are fair.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Jan. 7-22)

1.8	922	3.5	2,470	10.0	10,200	17.0	23,700
2.0	1,080	4.0	2,990	12.0	13,000	18.0	26,900
2.3	1,320	5.0	4,090	14.0	16,500	19.0	30,600
2.6	1,590	6.0	5,230	15.0	18,600	20.0	35,100
3.0	1,970	8.0	7,630	16.0	21,000	22.0	46,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,540	1,320	1,200	*8,000	10,600	3,870	2,420	4,870	*1,800	*2,300	*1,700	*23,000
2	5,230	1,280	1,200	*10,000	10,100	3,870	2,320	4,420	*1,800	*2,000	*1,900	*24,000
3	2,880	1,320	1,360	*30,000	7,270	3,870	2,370	3,980	*2,600	*2,000	1,590	*8,500
4	1,820	1,360	1,680	*43,000	5,710	3,650	2,320	3,650	*2,200	*1,870	1,820	*6,200
5	1,410	1,320	1,640	*15,000	4,990	3,540	2,620	3,430	*2,300	*1,500	1,590	*5,200
6	1,240	1,360	1,460	*8,000	4,530	3,430	5,950	3,430	*3,210	*1,900	1,360	*4,600
7	1,160	1,410	1,540	6,190	4,200	3,320	5,950	3,650	*2,800	*3,200	1,320	*12,000
8	1,160	1,320	2,810	5,230	3,980	*3,300	4,090	3,430	*2,500	*3,300	1,870	*9,000
9	1,160	1,360	2,990	4,530	4,310	*3,400	3,650	3,100	*3,000	*2,300	2,220	*6,800
10	1,120	1,360	2,990	3,980	5,110	*3,400	3,540	2,880	*2,700	*1,700	2,770	*4,300
11	1,240	1,360	3,210	3,540	4,750	*3,200	3,100	2,670	*2,700	*1,500	3,610	*3,700
12	1,280	1,320	3,760	3,210	4,310	*3,100	2,770	2,570	*2,900	*1,500	9,940	*3,400
13	1,120	1,360	4,310	3,650	3,870	*2,900	2,670	2,520	*2,270	*1,400	7,390	*3,100
14	1,800	1,360	3,870	4,200	3,870	*2,800	2,570	2,740	*2,100	*2,100	7,630	*2,800
15	1,040	1,360	3,100	5,590	3,980	*3,000	2,570	7,150	*1,800	*3,900	7,750	*2,600
16	1,040	1,320	2,670	9,030	3,760	*3,400	2,570	6,790	*1,900	*3,000	3,320	*2,400
17	4,620	1,240	2,880	8,510	3,980	*3,500	2,570	4,530	*2,500	*2,000	2,370	*2,100
18	16,500	1,200	3,650	15,000	3,870	3,430	2,520	3,540	*4,000	*2,200	2,020	2,070
19	8,810	1,200	3,760	19,100	3,430	3,320	2,320	3,100	*4,400	*2,600	2,020	2,070
20	3,320	1,200	3,820	23,200	3,210	3,320	2,370	2,770	*4,100	*2,600	2,170	1,970
21	2,470	1,200	6,070	29,500	3,760	3,210	2,320	2,570	*2,700	*5,100	1,920	1,870
22	2,070	1,200	4,990	29,500	6,970	2,990	2,370	2,470	*2,300	*7,000	2,570	1,820
23	1,870	1,240	3,650	17,200	9,550	2,880	2,320	2,370	*2,100	*4,600	8,340	1,770
24	1,680	1,240	3,100	8,640	6,550	2,770	2,270	2,470	*1,900	*3,000	*12,000	1,720
25	1,640	*1,200	2,770	7,150	*5,800	3,100	6,540	2,670	*1,800	*2,400	*15,000	1,720
26	1,590	*1,200	2,570	6,550	*5,000	3,100	27,300	2,670	*1,600	*2,000	*19,000	1,680
27	1,540	1,240	2,420	5,710	*4,100	2,770	33,600	2,570	*1,600	*2,700	*16,000	1,680
28	1,460	1,200	2,320	5,110	3,870	2,670	15,700	*2,400	*1,800	*2,600	*9,000	3,100
29	1,410	1,160	2,370	8,800	-	2,570	6,910	*2,300	*2,400	*1,900	*6,500	3,870
30	1,360	1,160	2,470	10,200	-	2,470	5,590	*2,170	*2,500	*1,700	*5,000	2,770
31	1,360	-	2,920	8,250	-	2,420	-	*2,100	-	*1,500	*10,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	79,220	16,500	1,040	2,555	0.791	0.91
November	38,370	1,410	1,160	1,279	.396	.44
December	89,550	6,070	1,200	2,889	.894	1.03
Calendar year 1936	1,645,961	53,600	776	4,497	1.39	18.97
January	364,570	43,000	3,210	11,760	3.64	4.20
February	145,430	10,600	3,210	5,194	1.61	1.68
March	98,570	3,870	2,420	3,180	.985	1.14
April	166,180	33,600	2,270	5,539	1.71	1.91
May	101,980	7,150	2,100	3,290	1.02	1.18
June	74,280	4,400	1,600	2,476	.767	.86
July	80,370	7,000	1,400	2,593	.803	.93
August	171,790	19,000	1,320	5,542	1.72	1.98
September	151,810	24,000	1,680	5,060	1.57	1.75
Water year 1936-37	1,562,120	43,000	1,040	4,280	1.33	18.01

*Missing gage height; discharge computed on basis of recorder charts, weather records, occasional readings by observer, and records for stations at Brookneal and Clarksville.

Roanoke River at Clarksville, Va.

Location.- Water-stage recorder, lat. 36°37'40", long. 78°33'04", at highway bridge in Clarksville, Mecklenburg County, 500 feet above confluence of Roanoke and Dan Rivers. Records include flow of Dan River.
Drainage area.- 7,320 square miles (below confluence with Dan River).
Records available.- December 1934 to September 1937.
Extremes.- Maximum discharge during year, 87,900 second-feet Jan. 5 (gage height, 14.74 feet); minimum, 1,950 second-feet Oct. 15 (gage height, 1.61 feet); minimum daily, 2,320 second-feet Oct. 15.
1934-37: Maximum discharge, 114,000 second-feet Jan. 21, 1936 (gage height, 16.88 feet); minimum, 1,340 second-feet Sept. 27, 1936 (gage height, 1.27 feet); minimum daily, 1,540 second-feet Sept. 23, 27, 1936.
Remarks.- Records good except those for periods of missing gage heights, Oct. 17-19, July 1-4, 19-29, Aug. 25 to Sept. 4, Sept. 13-17, 19, 20, which were computed on basis of recorder charts, weather records, and records for stations above and below Clarksville and are fair. Some regulation of low-water flow by operation of cotton mills at Danville and of power plant on Banister River. Gage-height record collected in cooperation with U. S. Weather Bureau.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 5				Jan. 6 to Aug. 27		Aug. 28 to Sept. 30	
1.7	2,130	6.0	17,300	2.0	2,500	2.0	2,650
2.0	2,790	8.0	27,200	2.5	3,700	2.5	3,900
2.5	4,090	10.0	41,400	3.0	5,180	3.0	5,440
3.0	5,620	12.0	59,200	4.0	8,670	4.0	8,940
4.0	9,120	14.5	85,700	6.0	16,950	6.0	17,150

Note.- Same as first table above 7.9 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12,100	2,860	2,380	18,700	26,400	8,410	5,630	10,800	3,620	5,300	6,140	37,000
2	19,100	2,890	2,460	29,700	26,400	9,390	5,150	9,090	4,000	4,700	5,830	32,000
3	9,920	2,560	3,040	52,000	17,400	9,280	5,280	8,080	5,860	4,100	6,580	14,000
4	4,980	2,850	3,540	69,200	13,200	9,010	5,020	7,710	5,500	3,500	7,460	11,000
5	3,690	2,900	3,780	85,700	11,400	8,670	6,100	7,040	5,630	3,440	4,750	8,200
6	3,040	2,980	3,400	62,000	10,100	8,190	17,600	6,900	7,640	4,810	3,260	14,500
7	2,780	3,000	3,780	23,300	9,200	7,530	17,900	7,610	6,310	7,320	3,050	33,400
8	2,610	3,040	5,000	17,400	8,820	7,210	13,000	7,710	5,020	7,610	6,480	28,200
9	2,680	3,180	7,580	13,400	10,300	7,860	10,100	6,680	6,760	5,150	6,510	16,200
10	2,700	2,560	7,860	11,000	14,400	7,530	8,900	5,930	6,370	3,520	6,680	10,500
11	2,910	2,830	10,100	9,090	13,000	7,140	7,750	5,700	6,680	3,140	7,820	7,480
12	3,320	3,000	11,800	8,560	11,400	6,540	6,720	5,570	9,740	3,050	15,200	6,920
13	3,100	3,060	12,400	8,600	9,510	6,270	6,480	5,150	6,720	2,630	14,700	6,200
14	2,690	3,610	10,800	9,780	8,820	6,200	6,240	5,180	4,290	3,320	13,000	5,600
15	2,320	3,500	8,360	11,400	9,130	6,140	5,900	17,300	3,750	8,820	16,300	5,200
16	2,490	3,620	7,220	16,700	9,200	7,530	5,900	23,000	5,240	6,860	8,190	4,700
17	7,000	2,660	9,390	19,600	9,090	8,520	5,830	12,600	5,120	4,060	4,850	4,400
18	30,000	2,780	10,400	34,800	8,520	8,080	5,370	8,860	9,430	3,780	3,920	4,310
19	21,000	2,780	9,780	49,300	7,790	7,820	5,470	7,250	11,600	4,300	3,620	4,100
20	8,660	2,780	9,060	61,200	7,460	7,750	5,210	6,270	10,100	4,700	3,970	4,100
21	6,130	2,700	14,400	72,500	8,340	7,460	5,440	5,730	7,790	9,000	4,140	3,530
22	4,850	2,740	13,600	78,000	13,600	6,790	5,570	5,440	5,400	11,000	3,920	3,740
23	4,310	2,920	9,620	47,400	20,800	6,900	5,400	5,020	4,680	9,000	11,000	3,580
24	3,860	2,370	7,750	19,300	15,700	6,480	5,310	4,750	4,320	5,700	23,200	3,450
25	3,610	2,650	6,660	14,700	12,600	7,070	15,300	5,090	3,600	4,400	29,000	3,400
26	3,650	2,860	5,770	13,600	11,200	7,530	63,200	5,700	3,360	4,400	40,000	3,320
27	2,990	2,780	5,520	12,400	9,160	7,040	74,700	5,180	3,290	9,800	46,000	3,170
28	3,160	2,660	5,440	10,800	8,710	6,140	48,000	5,240	3,940	10,000	38,000	3,870
29	2,980	2,660	5,720	20,300	-	5,860	17,800	4,900	4,780	7,200	18,000	9,020
30	2,910	2,820	5,600	26,700	-	5,440	12,200	5,440	6,140	3,700	13,000	7,200
31	2,820	-	7,710	22,400	-	5,600	-	4,410	-	3,470	24,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	188,160	30,000	2,320	6,070	0.829	0.96
November	86,580	3,620	2,370	2,886	.394	.44
December	229,820	14,400	2,380	7,414	1.01	1.16
Calendar year 1936	3,921,120	103,000	1,540	10,710	1.46	19.92
January	949,530	85,700	8,560	30,630	4.18	4.82
February	341,650	26,400	7,460	12,200	1.67	1.74
March	227,380	9,390	5,440	7,335	1.00	1.15
April	408,470	74,700	5,020	13,620	1.86	2.08
May	231,330	23,000	4,410	7,462	1.02	1.18
June	176,680	11,600	3,290	5,889	.805	.90
July	171,780	11,000	2,630	5,541	.757	.87
August	398,370	46,000	3,050	12,850	1.76	2.03
September	302,290	37,000	3,170	10,080	1.38	1.54
Water year 1936-37	3,712,040	85,700	2,320	10,170	1.39	18.87

Roanoke River at Roanoke Rapids, N. C.

Location.- Water-stage recorder, lat. 36°28'15", long. 77°38'05", 1½ miles below State highway bridge at Roanoke Rapids, Halifax County. Zero of gage is 43.79 feet above mean sea level (general adjustment of 1929).

Drainage area.- 8,410 square miles.

Records available.- February 1930 to September 1937.

Extremes.- Maximum discharge during year, 93,400 second-feet Jan. 6 (gage height, 20.35 feet); minimum, 1,850 second-feet Oct. 1 (gage height, 2.61 feet); minimum daily discharge, 2,180 second-feet Oct. 1.

1930-37: Maximum discharge, about 110,000 second-feet Jan. 23, 1936 (gage height, 24.66 feet, from floodmarks); minimum, 458 second-feet Sept. 21, 1932 (gage height, 1.25 feet); minimum daily discharge, 472 second-feet Sept. 21, 1932.

Remarks.- Records good except those for periods of missing or faulty gage-height record, which are fair.

The records for the water year 1935-36 supersede those published in Water-Supply Paper 802.

Discharge, in second-feet, 1935-37

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,960	8,440	9,170	3,440	10,000	*9,500	*17,000	8,300	3,540	*3,430	4,640	3,540
2	2,870	6,220	7,880	3,850	10,000	*9,500	*15,000	7,990	3,640	*4,750	3,540	2,860
3	2,620	4,320	6,380	16,700	11,000	*9,000	*22,000	7,990	*3,640	*7,690	3,740	2,180
4	2,540	3,440	5,180	68,800	12,000	*9,000	*24,000	7,390	*3,640	*7,390	3,040	2,110
5	2,460	3,140	4,720	78,400	20,000	*8,500	*20,000	7,540	*3,640	*5,990	2,610	2,040
6	2,390	2,920	4,140	80,000	22,000	*8,500	*20,000	7,990	*3,430	*4,290	2,040	2,040
7	2,320	2,780	4,060	80,000	20,000	*8,500	45,400	7,990	*3,640	*5,230	2,310	2,110
8	2,250	5,600	3,960	65,000	14,000	*8,000	57,800	7,240	*3,850	*4,290	4,650	2,040
9	2,180	6,360	3,960	55,000	11,000	*8,000	55,200	6,810	*4,520	*3,640	8,620	2,110
10	2,320	6,430	4,170	46,000	11,000	7,990	40,400	6,400	*5,730	*3,040	6,960	1,980
11	2,250	5,660	4,060	40,000	12,000	10,400	39,800	6,120	*5,480	*3,040	6,260	2,380
12	2,460	4,390	4,060	32,000	12,000	15,400	37,600	6,260	*4,990	*2,860	4,520	3,430
13	2,460	4,170	4,280	20,000	11,000	15,000	28,100	5,990	*4,750	*3,230	5,230	3,140
14	2,460	9,730	8,100	14,900	20,000	15,400	*20,000	7,990	*5,730	*3,640	4,640	3,040
15	2,390	20,200	15,800	13,000	55,100	13,400	*17,000	8,300	6,810	*3,230	4,180	2,380
16	2,250	14,600	18,600	18,000	69,000	10,700	*15,000	6,960	*7,390	*3,040	3,230	2,310
17	2,250	9,680	14,700	17,200	80,000	10,900	*13,000	6,120	*4,990	*2,860	3,140	2,610
18	2,250	9,310	11,000	16,400	85,000	44,300	*12,000	5,360	*3,850	*2,860	9,910	*2,310
19	2,700	10,400	8,520	24,400	40,000	70,200	*11,000	5,730	*3,850	*2,690	16,500	*2,180
20	2,460	7,880	7,120	73,900	26,000	90,000	*11,000	4,990	*10,700	*5,480	8,500	*1,920
21	2,390	6,440	6,300	87,400	*20,000	100,000	*10,000	5,110	*14,600	*5,230	5,120	1,920
22	2,320	5,180	5,660	95,000	*16,000	50,000	*10,000	5,110	*7,990	*3,850	3,740	1,920
23	2,180	4,720	4,610	100,000	*14,000	26,000	*9,500	5,230	5,490	*4,990	3,040	2,180
24	2,180	4,500	3,680	55,000	12,000	21,800	*9,500	4,400	*4,520	6,120	2,610	1,720
25	2,250	4,170	3,540	21,300	*11,000	17,100	*9,500	4,750	*5,730	5,360	2,860	1,660
26	2,320	4,060	2,960	13,400	*11,000	15,400	*9,000	*4,290	*5,990	5,360	2,530	1,850
27	2,210	3,740	3,200	11,800	*10,000	15,400	*8,500	*4,290	*5,230	4,070	2,040	1,850
28	2,440	3,640	3,400	11,400	*10,000	20,400	*8,500	*4,290	*4,290	3,540	2,450	1,720
29	2,460	3,960	3,240	12,600	*10,000	29,100	*8,500	3,960	*3,850	3,140	4,390	1,780
30	2,780	5,980	2,700	12,000	-	30,100	*8,500	3,850	*3,640	3,850	3,430	1,850
31	6,040	-	3,050	11,000	-	23,500	-	3,740	-	5,360	3,960	-

*Gage-height record missing or faulty; discharge computed on basis of partial gage-height record, gage heights at Virginia Electric and Power Co. plant 1½ miles upstream, and records for station at Clarksville.

Discharge, in second-feet, of Roanoke River at Roanoke Rapids, N. C., 1935-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,180	2,860	2,780	14,500	26,300	9,610	6,400	13,800	4,990	6,810	4,290	*33,500
2	15,400	2,950	2,780	28,600	30,100	9,610	6,400	12,200	4,070	5,860	6,530	*36,000
3	17,000	2,950	2,610	42,600	25,400	10,700	5,990	10,300	4,520	4,990	6,810	24,000
4	9,390	2,780	3,140	61,300	17,900	10,700	5,990	9,270	6,260	4,990	6,960	13,000
5	4,870	2,860	3,430	71,100	18,700	9,950	5,990	8,940	6,120	4,290	7,990	9,270
6	2,950	3,140	3,740	88,800	13,000	9,610	15,400	8,300	5,990	4,070	5,600	8,620
7	2,950	3,040	3,960	73,700	11,800	8,940	22,600	7,990	7,690	5,360	4,290	26,400
8	2,950	3,230	4,400	31,600	10,700	8,620	18,700	8,620	8,940	7,690	3,330	53,600
9	2,950	3,230	*7,000	19,600	10,700	8,620	14,200	8,620	7,100	7,990	6,400	25,800
10	3,140	3,140	*7,500	15,400	13,800	8,940	11,800	7,540	7,390	5,990	6,960	16,200
11	3,040	2,860	*9,000	12,600	16,600	8,620	9,950	6,530	7,390	4,180	7,240	11,000
12	2,950	2,860	*11,000	10,700	14,600	7,990	8,620	6,400	7,690	3,640	12,200	7,990
13	3,140	3,640	*13,000	10,300	12,600	7,390	7,690	6,260	9,950	3,660	16,600	7,100
14	3,230	3,540	13,400	10,300	11,000	7,100	7,390	5,990	7,240	4,870	13,800	6,530
15	2,780	3,740	10,700	11,400	9,950	7,390	7,240	6,400	5,110	3,850	12,200	6,120
16	2,610	3,740	8,620	14,200	9,950	8,620	7,100	20,700	4,290	2,670	12,200	5,480
17	2,530	3,740	8,620	19,600	9,610	9,950	6,960	20,500	5,860	7,540	8,620	5,230
18	*7,000	2,950	10,700	30,500	9,950	9,950	6,670	12,200	5,990	5,110	5,480	4,870
19	*33,000	2,860	11,000	*44,400	9,610	9,270	6,260	9,270	11,800	4,290	4,640	4,750
20	*22,000	2,950	11,000	*60,600	8,620	8,940	6,260	7,690	12,200	4,870	4,290	4,640
21	*9,000	2,860	10,300	*65,000	8,620	8,620	5,990	6,810	10,700	4,870	4,400	4,640
22	*6,500	2,860	15,400	*75,000	12,200	8,300	6,400	6,260	8,300	10,000	4,520	3,960
23	*5,000	2,860	13,400	*80,000	17,500	7,690	6,530	5,990	6,120	12,200	4,750	4,180
24	4,290	2,950	9,950	*50,000	21,300	7,690	6,260	5,600	5,110	9,610	18,500	4,180
25	3,960	2,780	7,990	21,300	16,200	7,690	8,150	5,230	4,870	6,530	*32,000	3,960
26	3,640	2,780	6,960	17,500	13,800	8,620	46,300	5,360	4,180	4,870	*40,000	3,740
27	3,640	3,040	6,120	15,800	12,600	8,300	85,100	5,990	6,400	4,870	46,200	3,740
28	3,140	2,950	5,860	14,200	11,000	7,990	83,600	5,480	8,150	10,000	50,600	3,540
29	3,230	2,690	5,730	21,800	-	6,960	55,000	5,600	5,360	11,400	39,200	3,850
30	3,140	2,950	5,990	30,500	-	6,670	20,500	5,230	4,870	7,540	15,400	8,980
31	2,950	-	5,990	29,100	-	6,260	-	5,730	-	4,990	20,900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1935	78,410	6,040	2,180	2,529	0.301	0.35
November	192,260	20,200	2,780	6,409	.762	.85
December	192,200	18,600	2,700	6,200	.737	.85
Calendar year 1935	3,235,080	57,300	2,180	8,863	1.05	14.30
January 1936	1,197,890	100,000	3,440	38,640	4.59	5.29
February	665,100	85,000	10,000	22,930	2.73	2.94
March	730,990	100,000	7,990	23,580	2.80	3.23
April	612,800	57,800	8,500	20,430	2.43	2.71
May	188,480	8,300	2,860	6,080	.723	.83
June	159,130	14,600	3,430	5,304	.631	.70
July	133,540	7,690	2,690	4,308	.512	.59
August	144,440	16,500	2,040	4,659	.554	.64
September	67,160	3,540	1,660	2,239	.266	.30
Water year 1935-36	4,362,400	100,000	1,660	11,920	1.42	19.28
October 1936	194,550	33,000	2,180	6,276	.746	.86
November	91,780	3,740	2,690	3,059	.364	.41
December	242,070	15,400	2,610	7,809	.929	1.07
Calendar year 1936	4,427,930	100,000	1,660	12,100	1.44	19.57
January 1937	1,092,000	88,800	10,300	35,230	4.19	4.83
February	404,110	30,100	8,620	14,430	1.72	1.79
March	265,310	10,700	6,260	8,558	1.02	1.18
April	511,440	85,100	5,990	17,050	2.03	2.26
May	260,800	20,700	5,230	8,413	1.00	1.15
June	204,650	12,200	4,070	6,822	.811	.90
July	195,600	12,200	3,640	6,310	.750	.86
August	432,900	50,600	3,330	13,960	1.66	1.91
September	354,870	53,600	3,540	11,830	1.41	1.57
Water year 1936-37	4,250,080	88,800	2,180	11,640	1.38	18.79

*Gage-height record missing or faulty; discharge computed on basis of partial gage-height record and records for station at Clarksville.

Blackwater River near Union Hall, Va.

Location.- Water-stage recorder, lat. 37°02'35", long. 79°41'07", at highway bridge at Kemps Ford, 3 miles above Gills Creek and 4 miles north of Union Hall, Franklin County. Zero of gage is 693.13 feet above mean sea level.

Drainage area.- 208 square miles.

Records available.- March 1925 to September 1937.

Average discharge.- 12 years, 205 second-feet.

Extremes.- Maximum discharge during year, 5,440 second-feet Oct. 17 (gage height, 10.15 feet), from rating curve extended above 3,500 second-feet; minimum, 66 second-feet Nov. 28 (gage height, 1.76 feet).

1925-37: Maximum discharge observed, 10,800 second-feet Aug. 11, 1928, from flood hydrograph; minimum, 15 second-feet Sept. 20, 1932 (gage height, 1.42 feet).

Remarks.- Records good except those for periods of missing or faulty gage heights, Jan. 31 to Feb. 18, July 29 to Aug. 9, Sept. 1-15 (computed on basis of recorder charts and records for stations on Pigg River and Goose Creek), those for March, and those above 5,000 second-feet, all of which are fair.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 25				Apr. 26 to Aug. 31				Sept. 1-30	
1.7	53	3.5	810	1.8	79	3.5	810	2.0	158
1.9	99	4.0	1,080	2.0	134	4.0	1,080	2.3	268
2.2	199	5.0	1,660	2.3	247	5.0	1,660	2.7	436
2.5	328	6.0	2,300	2.6	376	6.0	2,300	3.2	664
3.0	562	8.0	3,700	3.0	562				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	596	92	79	392	700	282	154	285	138	113	90	640
2	154	92	84	1,040	560	258	154	264	134	152	110	390
3	108	92	96	1,780	430	258	151	243	138	110	120	260
4	92	89	96	740	380	249	151	235	134	104	95	240
5	84	94	84	457	350	249	215	239	144	208	85	280
6	82	86	82	374	310	232	319	281	134	512	110	620
7	79	82	252	324	290	220	236	235	131	148	140	400
8	79	79	199	288	310	224	203	215	235	134	120	320
9	79	82	125	262	290	236	199	207	169	122	180	280
10	82	86	114	244	340	228	188	196	177	107	241	250
11	82	82	141	236	300	232	176	188	169	116	880	230
12	76	79	253	220	270	232	172	180	144	125	332	210
13	72	86	228	244	250	228	169	180	131	330	479	200
14	72	86	172	266	250	220	169	404	125	382	328	190
15	72	84	141	364	240	224	169	315	128	144	134	180
16	650	79	141	415	240	228	176	231	141	113	110	178
17	2,820	76	266	627	250	228	161	207	141	191	139	175
18	429	79	236	886	230	228	158	192	203	122	286	172
19	240	82	215	1,600	207	203	154	177	177	96	144	165
20	184	76	494	2,180	203	188	151	173	134	326	113	161
21	148	76	337	1,260	279	191	151	166	122	319	102	158
22	138	79	266	760	584	195	154	169	131	247	94	158
23	122	74	228	567	374	195	151	231	131	148	337	155
24	119	74	199	461	324	199	151	323	113	119	448	152
25	119	74	184	415	319	195	1,160	196	104	122	1,440	152
26	111	74	180	383	275	172	1,300	169	102	141	1,250	148
27	108	74	176	333	258	158	477	158	128	113	740	185
28	102	74	191	319	262	158	372	155	162	96	350	268
29	99	74	193	654	-	161	354	148	141	90	286	214
30	99	74	207	457	-	158	328	144	116	90	1,130	178
31	94	-	262	500	-	158	-	141	-	90	2,150	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	7,391	2,820	72	238	1.14	1.31
November	2,430	94	74	81.0	.389	.43
December	5,927	494	79	191	.918	1.06
Calendar year 1936	106,421	3,550	55	291	1.40	19.01
January	19,048	2,180	220	614	2.95	3.40
February	9,075	700	203	324	1.56	1.62
March	6,567	262	158	212	1.02	1.18
April	8,223	1,300	151	274	1.32	1.47
May	6,647	404	141	214	1.03	1.19
June	4,277	235	102	143	.688	.77
July	5,230	512	90	169	.812	.94
August	12,563	2,150	85	405	1.95	2.25
September	7,309	640	148	244	1.17	1.30
Water year 1936-37	94,687	2,820	72	259	1.25	16.92

Pigg River near Toshes, Va.

Location.- Water-stage recorder, lat. 36°59'01", long. 79°30'52", half a mile below Fryingpan Creek and 1.7 miles northwest of Toshes, Pittsylvania County. Zero of gage is 602.55 feet above mean sea level.

Drainage area.- 394 square miles.

Records available.- August 1930 to September 1937.

Extremes.- Maximum discharge during year, 7,700 second-feet Jan. 3 (gage height, 16.98 feet); minimum, 174 second-feet Oct. 13 (gage height, 3.21 feet).
1930-37: Maximum discharge, 11,700 second-feet Oct. 17, 1932 (gage height, 21.98 feet), from rating curve extended above 5,600 second-feet; minimum, 22 second-feet Aug. 31, 1932 (gage height, 2.32 feet).

Remarks.- Records good except those for period of faulty gage heights, Jan. 24-26, which were computed on basis of recorder charts and records for stations on Goose Creek and Blackwater River and are fair.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 3		Jan. 4 to Aug. 25			Aug. 26 to Sept. 30	
3.2	172	3.6	214	7.0	1,440	3.6	237
3.4	216	4.0	316	8.0	1,880	3.8	286
3.7	290	4.5	466	10.0	2,900	4.0	340
4.0	374	5.0	634	12.0	4,120	4.5	498
4.5	530	6.0	1,010			5.0	672
5.0	704					6.0	1,050
6.0	1,090					7.0	1,480
						8.0	1,930
						10.0	2,930

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,330	224	214	1,230	1,200	424	311	484	226	589	234	987
2	356	232	246	2,500	692	424	306	438	258	392	252	628
3	252	233	302	5,840	528	446	308	392	276	354	321	481
4	231	238	280	1,390	461	428	300	388	235	266	234	416
5	210	274	248	669	437	406	569	371	244	420	210	515
6	207	254	245	642	406	388	697	526	240	788	324	1,470
7	208	236	498	534	395	376	480	426	334	453	352	780
8	201	240	460	462	404	386	415	370	380	338	242	541
9	209	238	334	412	402	382	412	328	253	266	266	442
10	308	235	321	386	466	355	375	316	524	230	353	392
11	232	230	434	350	403	346	353	310	628	268	2,990	355
12	210	231	636	335	378	339	334	289	262	280	943	342
13	195	268	533	430	370	332	328	302	247	292	1,050	321
14	198	282	414	426	374	341	322	1,020	278	1,350	778	308
15	198	244	347	688	339	414	341	1,080	267	357	378	304
16	380	239	364	766	372	413	332	530	327	284	291	294
17	3,660	233	593	1,290	347	408	324	422	403	366	254	296
18	770	226	472	1,860	330	398	310	370	540	313	380	299
19	425	228	460	2,740	325	404	310	334	532	233	340	298
20	344	218	878	3,220	320	382	308	303	331	1,140	266	274
21	305	228	677	1,800	372	378	312	293	260	865	428	274
22	280	229	516	930	756	340	320	286	275	705	367	270
23	265	218	448	679	961	343	280	320	252	428	362	262
24	258	216	403	542	800	346	304	524	218	309	1,340	258
25	246	218	372	496	600	389	1,980	351	212	288	3,740	261
26	243	220	351	462	500	340	2,140	301	208	340	2,700	254
27	237	216	345	408	434	337	862	266	340	486	1,200	576
28	234	206	362	392	429	328	615	250	1,030	276	637	547
29	231	213	372	1,110	-	326	606	277	371	234	643	384
30	243	216	378	719	-	314	608	240	496	240	1,990	322
31	227	-	743	942	-	324	-	256	-	235	2,820	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	12,893	3,660	195	416	1.06	1.22
November	6,963	274	206	232	.589	.66
December	13,246	878	214	427	1.08	1.24
Calendar year 1936	191,722	7,400	142	524	1.33	18.11
January	34,650	5,840	335	1,118	2.84	3.27
February	13,801	1,200	320	493	1.25	1.30
March	11,557	446	314	373	.947	1.09
April	15,460	2,140	280	515	1.31	1.46
May	12,303	1,020	240	397	1.01	1.16
June	10,445	1,030	208	348	.883	.99
July	13,385	1,350	230	432	1.10	1.27
August	26,645	3,740	210	860	2.18	2.51
September	13,151	1,470	254	438	1.11	1.24
Water year 1936-37	184,499	5,840	195	505	1.28	17.41

Snow Creek at Sago, Va.

Location.- Water-stage recorder, lat. 36°53'50", long. 79°39'05", at highway bridge 200 feet below First Fork and three-quarters of a mile northwest of Sago, Franklin County.

Drainage area.- 60 square miles.

Records available.- October 1934 to September 1937.

Extremes.- Maximum discharge during year, 1,290 second-feet Aug. 11 (gage height, 12.65 feet), from rating curve extended above 500 second-feet; minimum, 25 second-feet Oct. 8 (gage height, 1.87 feet).

1934-37: Maximum daily discharge, 1,700 second-feet (estimated) Jan. 19, 1936; minimum discharge, 13 second-feet Aug. 28, 1935 (gage height, 1.38 feet).

Remarks.- Records fair.

Rating tables, water year 1936-37 (gage height, in feet, and discharge in second-feet)

Oct. 1 to Jan. 3, Aug. 26 to Sept. 30				Jan. 4 to Aug. 25			
1.8	21	5.0	327	1.8	30	5.0	327
2.0	33	6.0	438	2.0	43	6.0	438
2.5	71	8.0	680	2.5	80	8.0	680
3.0	115	10.4	992	3.0	124	10.0	940
4.0	217			4.0	222		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	100	34	31	186	147	68	*48	86	38	56	*36	102
2	39	34	41	673	95	72	*47	82	39	51	*40	*80
3	31	34	47	980	82	71	*47	76	37	39	*50	*65
4	28	35	38	188	77	67	50	74	36	37	*36	*55
5	26	41	34	120	74	64	*90	76	36	62	32	135
6	26	39	34	140	69	63	*110	99	34	81	54	174
7	26	37	34	110	70	60	*70	72	50	90	88	96
8	26	36	49	98	70	65	*65	68	48	47	42	77
9	46	36	44	91	81	60	*65	63	37	41	61	72
10	71	36	46	85	84	56	57	61	166	41	60	66
11	36	36	91	82	68	56	*53	59	121	37	731	57
12	32	36	93	79	65	54	*51	58	47	34	216	53
13	29	43	69	112	63	54	*50	61	44	108	139	49
14	29	39	52	92	73	56	*50	232	46	226	95	47
15	30	36	45	151	63	72	*52	120	52	57	*58	45
16	315	36	63	110	64	66	*51	75	51	47	*45	43
17	391	35	112	355	60	64	*49	63	132	100	*40	44
18	96	*34	57	275	58	63	*48	58	148	44	*60	41
19	*60	*34	78	425	58	62	*48	55	94	36	*50	39
20	*50	*34	153	474	57	59	49	51	54	192	*40	38
21	*45	*34	79	224	137	57	53	49	49	125	51	36
22	*42	*34	61	133	206	54	49	48	54	111	*55	36
23	*39	34	49	110	90	54	47	50	42	64	*55	35
24	*38	33	44	100	88	56	48	64	38	51	*250	34
25	*37	32	41	97	83	60	540	49	37	46	*600	34
26	*36	31	39	89	71	53	381	46	37	60	*400	33
27	*35	31	39	82	67	52	114	45	96	53	*200	127
28	*35	32	39	87	71	52	94	44	135	42	*100	62
29	*34	32	40	236	-	51	115	44	50	37	*118	43
30	37	32	41	106	-	50	97	41	56	*37	425	37
31	36	-	293	210	-	49	-	39	-	*36	192	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,901	391	26	61.3	1.02	1.18
November	1,050	43	31	35.0	.583	.65
December	1,976	293	31	63.7	1.06	1.22
Calendar year 1936	26,861	1,700	18	73.4	1.22	16.64
January	6,300	980	79	203	3.38	3.90
February	2,291	206	57	81.8	1.36	1.42
March	1,840	72	49	59.4	.990	1.14
April	2,688	540	47	89.6	1.49	1.66
May	2,108	232	39	68.0	1.13	1.30
June	1,904	166	34	63.5	1.06	1.18
July	2,088	226	34	67.4	1.12	1.29
August	4,419	731	32	143	2.38	2.74
September	1,855	174	33	61.8	1.03	1.15
Water year 1936-37	30,420	980	26	83.3	1.39	18.83

*Missing or faulty gage height; discharge computed on basis of recorder charts, weather records, and records for Pigg River near Toshes.

Goose Creek near Huddleston, Va.

Location.- Water-stage recorder, lat. 37°10', long. 79°32', a quarter of a mile above Haden Bridge, three-eighths of a mile above Rockcastle Creek, and 4 miles above Huddleston, Bedford County.

Drainage area.- 187 square miles.

Records available.- September 1930 to September 1937. March 1925 to September 1927 (gage heights only), at site a quarter of a mile downstream.

Extremes.- Maximum discharge during year, 3,970 second-feet Oct. 17 (gage height, 12.30 feet), from rating curve extended above 1,800 second-feet; minimum, 29 second-feet Nov. 28 (gage height, 1.32 feet).
1930-37: Maximum discharge, 6,700 second-feet Oct. 17, 1932 (gage height, 18.15 feet), from rating curve extended above 1,800 second-feet; minimum, 3 second-feet Aug. 31, 1932, Jan. 30, 1934.

Remarks.- Records fair. Stage-discharge relation affected by ice Nov. 29 to Dec. 1.

Rating tables, water year 1936-37 except period of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Aug. 14				Aug. 15 to Sept. 30			
1.3	26	3.0	464	1.5	76	3.0	498
1.5	56	4.0	794	1.7	124	4.0	812
1.7	99	5.0	1,150	2.0	206	5.5	1,340
2.0	176	6.0	1,510	2.5	350		
2.5	316	8.2	2,350				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	237	56	39	322	672	209	94	*220	102	64	*50	716
2	72	62	55	1,530	477	224	92	*200	115	108	47	438
3	49	62	77	2,060	368	209	86	*180	122	56	46	300
4	40	58	64	748	318	194	84	*170	172	51	42	234
5	40	66	54	442	291	184	138	*160	358	110	40	258
6	38	56	58	336	242	170	172	*170	97	118	40	358
7	40	56	375	288	232	159	136	148	81	82	66	220
8	40	58	134	244	253	188	112	142	132	54	120	179
9	41	66	94	210	234	182	126	132	84	48	171	154
10	49	60	92	192	286	152	110	127	184	42	223	140
11	44	55	162	172	242	146	98	110	128	66	1,090	133
12	42	56	260	150	222	140	94	105	71	44	840	123
13	38	59	195	282	216	134	90	112	70	114	994	110
14	40	57	134	308	224	135	88	338	66	358	1,250	106
15	40	56	106	664	199	153	94	240	60	88	309	98
16	501	53	121	478	201	149	96	171	86	54	202	94
17	1,670	51	246	1,370	224	140	80	144	365	71	150	94
18	297	50	159	1,260	185	142	76	127	240	46	138	90
19	178	50	181	1,880	176	148	74	120	177	40	174	88
20	130	50	598	2,330	165	140	70	111	92	350	112	86
21	104	50	279	1,400	357	134	70	106	79	381	108	84
22	90	48	190	794	1,270	122	74	104	88	180	*180	82
23	82	46	140	583	536	120	66	118	72	86	266	82
24	82	46	120	478	406	121	64	136	64	67	556	80
25	78	46	106	420	330	130	*980	110	60	120	726	79
26	66	46	97	372	250	115	*1,300	98	60	76	604	79
27	64	44	94	332	223	108	585	96	158	58	*500	115
28	59	41	94	318	232	104	402	90	144	49	*350	224
29	60	39	94	780	-	102	308	86	62	44	326	121
30	59	38	112	462	-	98	259	82	72	45	729	98
31	58	-	218	691	-	98	-	78	-	44	1,340	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4,428	1,670	38	143	0.765	0.88
November	1,581	66	38	52.7	.282	.31
December	4,748	598	39	153	.818	.94
Calendar year 1936	90,219	3,490	27	246	1.32	17.92
January	21,896	2,330	150	706	3.78	4.36
February	9,031	1,270	165	323	1.73	1.80
March	4,551	224	98	147	.786	.91
April	6,118	1,300	64	204	1.09	1.22
May	4,331	338	78	140	.749	.86
June	3,661	365	60	122	.652	.73
July	3,114	381	40	100	.535	.62
August	11,789	1,340	40	380	2.03	2.34
September	5,063	716	79	169	.904	1.01
Water year 1936-37	80,311	2,330	38	220	1.18	15.98

*Missing or faulty gage height; discharge computed on basis of recorder charts, weather records and records for Pigg River near Toshes.

Otter River near Evington, Va.

Location.- Water-stage recorder, lat. 37°13', long. 79°18', at highway bridge 2 miles above Flat Creek and 2 miles southwest of Evington, Campbell County.

Drainage area.- 325 square miles.

Records available.- November 1936 to September 1937.

Extremes.- Maximum discharge during period, 5,330 second-feet Jan. 3 (gage height, 15.17 feet), from rating curve extended above 2,500 second-feet; minimum not determined; minimum daily, 100 second-feet Nov. 30.

Remarks.- Records good except those for periods of missing or faulty gage heights, Nov. 8, 9, 11-13, 19-23, 25-30, Jan. 15-20, Mar. 27, 28, June 29, which were computed on basis of recorder charts and records for stations on Goose Creek and Falling River and are fair.

Rating table, Nov. 2, 1936, to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

1.6	90	3.0	371	8.0	2,060
1.8	121	3.5	496	10.0	2,930
2.0	156	4.0	632	12.0	3,830
2.3	213	5.0	930	13.1	4,320
2.6	278	6.0	1,280		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	108	721	1,040	445	261	459	188	208	218	842
2		142	154	2,390	698	456	256	425	239	236	152	558
3		140	218	4,300	574	436	254	397	272	186	288	436
4		136	170	1,390	522	410	250	376	238	142	150	354
5		147	143	786	485	394	456	360	441	186	131	305
6		134	140	600	438	372	593	391	256	422	117	384
7		128	698	530	428	358	424	335	228	226	244	378
8		130	371	463	470	408	376	322	289	172	130	320
9		140	268	414	438	412	420	301	210	148	200	284
10		135	306	378	490	358	366	290	227	146	350	256
11		130	436	362	419	348	332	269	380	290	1,030	244
12		130	706	338	394	338	318	266	200	168	508	226
13		140	534	542	386	328	309	276	236	154	567	209
14		134	368	538	410	340	310	538	278	867	1,310	200
15		128	300	1,100	378	376	320	482	178	250	344	187
16		118	328	700	404	381	315	360	180	176	242	174
17		116	598	1,900	444	370	285	326	535	146	194	175
18		122	404	1,800	392	376	278	294	580	142	166	172
19		120	414	2,800	384	382	271	282	704	119	180	160
20		120	1,270	3,000	364	349	262	266	286	812	136	158
21		120	686	2,020	680	334	269	250	232	629	136	150
22		120	486	1,200	1,930	312	274	242	361	451	191	144
23		120	375	873	960	306	252	246	216	270	443	142
24		116	326	721	742	311	250	286	180	207	692	141
25		110	294	654	644	344	1,530	246	164	180	736	137
26		110	274	582	533	306	2,720	231	157	175	887	134
27		110	260	514	484	280	1,000	232	199	206	1,040	179
28		110	267	482	486	270	768	216	308	142	494	346
29		110	262	1,100	-	266	615	206	190	130	384	277
30		100	296	694	-	267	523	202	168	127	1,110	212
31		-	476	942	-	268	-	192	-	338	1,380	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	-	-	-	-	-	-
November 2-30	3,616	147	100	125	0.385	0.42
December	11,936	1,270	108	385	1.18	1.36
Calendar year						
January	34,834	4,300	338	1,124	3.46	3.99
February	16,017	1,930	364	572	1.76	1.83
March	10,901	456	266	352	1.08	1.24
April	14,857	2,720	250	495	1.52	1.70
May	9,564	538	192	309	.951	1.10
June	8,320	704	157	277	.852	.95
July	8,031	867	119	259	.797	.92
August	14,130	1,380	117	456	1.40	1.61
September	7,884	842	134	263	.809	.90
Water year						

Falling River near Brookneal, Va.

Location.- Water-stage recorder, lat. 37°04'54", long. 78°56'07", 300 feet below Hat Creek and 2¼ miles north of Brookneal, Campbell County.

Drainage area.- 228 square miles.

Records available.- January 1935 to September 1937.

Extremes.- Maximum discharge during year, 10,300 second-feet Apr. 26 (gage height, 22.76 feet), from rating curve extended above 7,000 second-feet; minimum, 54 second-feet Oct. 15 (gage height, 3.93 feet).
1935-37: Maximum discharge, 14,700 second-feet Mar. 17 or 18, 1936 (gage height, 28.0 feet, from floodmarks), from rating curve extended above 7,000 second-feet; minimum, 46 second-feet, Sept. 13, 1936 (gage height, 3.82 feet).

Remarks.- Records good except those for periods of missing gage heights, Mar. 23, July 9 to Aug. 1, which were computed on basis of recorder charts, weather records, and records for stations on Otter River and Goose Creek and are poor.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 26						Apr. 27 to Sept. 30	
3.9	52	6.0	662	10.0	2,100	4.0	80
4.1	69	6.5	970	12.0	2,910	4.5	170
4.5	138	7.0	1,180	14.0	4,000	5.0	294
5.0	254	8.0	1,530	17.2	6,140	5.5	468
5.5	418	9.0	1,820			6.0	728
						6.7	1,100

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	322	80	77	294	966	247	151	288	130	154	150	221
2	109	83	94	1,520	452	270	149	258	128	128	100	166
3	81	81	147	5,950	320	242	147	235	121	107	104	144
4	71	84	111	1,300	272	223	145	221	132	98	94	130
5	71	89	92	443	242	211	312	214	284	104	90	126
6	69	87	91	334	216	201	500	243	136	285	88	188
7	67	83	220	292	208	189	264	206	266	134	194	162
8	66	83	145	235	225	213	218	209	204	112	90	142
9	68	91	105	196	228	211	313	188	130	100	94	128
10	73	86	382	175	275	180	235	177	164	100	95	117
11	70	81	384	156	213	171	196	164	174	200	132	126
12	66	83	433	147	187	167	180	162	125	120	104	117
13	63	92	254	302	182	162	169	160	119	110	196	109
14	64	87	169	235	232	173	169	802	114	600	446	102
15	64	83	134	1,010	199	242	167	1,090	105	180	117	100
16	317	80	138	607	232	254	162	363	111	120	98	95
17	910	77	237	1,420	280	272	151	272	454	100	89	97
18	169	81	158	1,560	216	267	147	226	468	100	84	100
19	123	79	136	2,170	201	235	142	206	550	80	88	94
20	103	80	334	2,170	189	206	140	185	183	600	79	94
21	92	83	196	1,490	480	196	145	172	158	450	78	88
22	91	80	142	761	1,260	174	140	162	227	300	174	89
23	87	80	117	447	486	160	128	158	140	190	540	88
24	89	79	99	355	410	171	130	166	121	140	202	88
25	83	80	95	366	410	235	2,680	150	112	130	977	86
26	86	79	91	292	304	182	6,090	232	112	120	969	84
27	83	79	89	230	262	169	950	516	119	150	318	291
28	79	74	92	228	264	164	629	177	110	100	204	969
29	83	76	94	1,460	-	158	448	160	100	90	209	221
30	81	81	89	562	-	153	350	148	112	90	346	156
31	79	-	232	888	-	156	-	136	-	220	300	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,879	910	63	125	0.548	0.63
November	2,461	92	74	82.0	.360	.40
December	5,177	433	77	167	.732	.84
Calendar year 1936	127,488	6,920	51	348	1.53	20.78
January	27,595	5,950	147	890	3.90	4.50
February	9,411	1,260	182	336	1.47	1.53
March	6,254	272	153	202	.886	1.02
April	15,747	6,090	128	525	2.30	2.57
May	8,046	1,090	136	260	1.14	1.31
June	5,409	550	100	180	.789	.88
July	5,512	600	80	178	.781	.90
August	6,849	977	78	221	.969	1.12
September	4,718	969	84	157	.689	.77
Water year 1936-37	101,058	6,090	63	277	1.21	16.47

Dan River near Francisco, N. C.

Location.- Water-stage recorder, lat. 36°30'15", long. 80°20'55", at county highway bridge just below Georges Mill, 3 miles east of Francisco, Stokes County, and 7.9 miles below Little Dan River.

Drainage area.- 119 square miles.

Records available.- August 1924 to September 1937.

Average discharge.- 12 years (1924-26, 1927-37), 182 second-feet.

Extremes.- Maximum discharge during year, 3,880 second-feet July 17 (gage height, 6.22 feet); minimum, 49 second-feet Nov. 28 (gage height, 1.02 feet).
1924-37: Maximum discharge, 8,700 second-feet Dec. 8, 1924 (gage height, 10.0 feet), from rating curve extended above 2,400 second-feet; minimum, 7.1 second-feet Sept. 8, 1932 (gage height, 0.43 foot).

Remarks.- Records good. Slight diurnal fluctuation caused by operation of gristmills upstream.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.2	77	3.0	820
1.4	119	4.0	1,590
1.7	197	5.0	2,550
2.0	296	6.0	3,640
2.5	510		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	344	91	79	472	451	242	175	212	142	115	129	226
2	144	93	106	874	357	236	173	200	173	139	115	197
3	112	95	147	1,360	323	236	170	194	236	122	97	175
4	97	95	126	518	304	236	170	189	200	115	93	162
5	91	126	108	365	285	229	265	184	165	171	117	149
6	89	115	99	377	266	220	289	322	157	175	115	152
7	85	99	224	315	270	214	212	239	144	178	229	217
8	91	97	175	278	266	226	200	206	160	132	143	192
9	117	95	134	249	319	220	209	192	154	112	169	157
10	115	93	126	233	386	206	194	184	160	101	136	144
11	104	91	170	212	296	203	184	175	178	110	112	136
12	87	124	236	212	274	197	181	175	165	104	108	134
13	81	126	189	263	266	192	175	175	160	116	106	124
14	77	108	157	249	270	197	175	525	157	127	181	122
15	77	97	142	344	249	214	181	354	165	132	108	117
16	646	91	144	346	239	203	186	252	181	104	95	115
17	1,030	91	189	532	229	194	173	220	173	488	118	112
18	248	89	154	607	220	212	167	200	278	149	160	110
19	170	87	267	1,320	220	223	165	189	404	108	202	108
20	144	87	407	918	223	209	162	178	170	179	117	106
21	129	87	229	632	354	209	170	173	152	157	101	104
22	122	86	194	485	496	197	175	167	144	139	138	104
23	117	83	167	407	319	192	165	189	142	115	124	101
24	126	87	157	361	304	197	160	203	124	161	333	99
25	117	87	152	361	278	212	416	173	122	164	1,900	99
26	108	86	149	330	249	192	616	162	150	142	926	97
27	104	83	157	300	239	184	307	178	154	106	386	203
28	99	77	186	303	259	184	249	170	157	99	236	192
29	99	89	197	580	-	178	239	154	126	110	240	136
30	97	89	186	381	-	178	242	152	119	99	263	117
31	93	-	732	458	-	178	-	147	-	220	165	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,160	1,030	77	166	1.39	1.60
November	2,842	126	77	94.7	.796	.89
December	5,885	732	79	190	1.60	1.84
Calendar year 1936	80,830	2,220	60	221	1.86	25.28
January	14,642	1,360	212	472	3.97	4.58
February	8,211	496	220	293	2.46	2.56
March	6,410	242	178	207	1.74	2.01
April	6,545	616	160	218	1.83	2.04
May	6,433	525	147	208	1.75	2.02
June	5,112	404	119	170	1.43	1.60
July	4,489	488	99	145	1.22	1.41
August	7,462	1,900	93	241	2.03	2.34
September	4,207	226	97	140	1.18	1.32
Water year 1936-37	77,398	1,900	77	212	1.78	24.21

Dan River at Leaksville, N. C.

Location.- Water-stage recorder, lat. 36°29'05", long. 79°45'30", at covered wagon bridge at Leaksville, Rockingham County, half a mile above Smith River.

Drainage area.-1,150 square miles.

Records available.- July 1929 to September 1937.

Extremes.- Maximum discharge during year, 22,500 second-feet Aug. 25 (gage height, 18.80 feet); minimum, 468 second-feet Nov. 28 (gage height, 1.36 feet).
1929-37: Maximum discharge, 24,800 second-feet Jan. 20, 1936 (gage height, 26.40 feet), from rating curve extended above 17,000 second-feet; minimum, 84 second-feet Sept. 12, 1932 (gage height, 0.25 foot).

Remarks.- Records good below 10,000 second-feet and fair above. Slight diurnal fluctuation caused by operation of power plants upstream.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 3

1.4	490	6.0	3,760		
1.7	655	8.0	5,780		
2.0	835	10.0	8,180		
3.0	1,470	13.0	12,280		
4.0	2,170				

Jan. 4 to Sept. 30

1.5	585	4.0	2,280	13.0	12,280
1.7	710	6.0	3,830	16.0	17,000
2.0	905	8.0	5,780	19.0	22,900
3.0	1,580	10.0	8,180		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,500	562	545	8,900	4,980	1,480	1,040	1,400	872	938	1,440	2,610
2	1,610	584	550	8,680	2,730	1,480	970	1,300	1,340	756	840	1,680
3	895	584	691	19,600	2,140	1,510	970	1,230	1,200	723	736	1,370
4	703	567	757	16,400	1,860	1,480	970	1,160	1,400	690	684	1,160
5	622	606	661	3,520	1,720	1,440	1,260	1,200	1,260	742	609	1,100
6	584	622	611	4,080	1,580	1,340	1,860	1,540	970	938	783	4,800
7	545	600	955	3,080	1,510	1,260	1,480	1,540	1,130	1,200	3,060	3,590
8	556	584	1,370	2,350	1,510	1,300	1,230	1,200	1,540	970	1,130	2,140
9	622	594	985	2,000	1,580	1,370	1,230	1,130	1,000	742	1,000	1,440
10	895	578	835	1,720	2,140	1,260	1,200	1,070	1,440	645	2,250	1,200
11	805	545	1,200	1,580	1,860	1,200	1,070	1,040	1,650	585	1,220	1,100
12	650	600	2,240	1,440	1,540	1,160	1,070	970	970	905	2,140	1,070
13	562	775	1,610	1,620	1,440	1,130	1,040	1,040	872	1,060	1,630	970
14	506	727	1,210	1,790	1,510	1,130	1,000	4,850	1,370	2,210	2,180	905
15	512	638	985	1,930	1,440	1,200	1,000	7,360	970	1,130	970	872
16	871	584	895	2,800	1,340	1,370	970	2,580	1,300	905	749	808
17	12,000	550	1,050	4,130	1,300	1,300	1,040	1,790	1,950	710	664	775
18	3,320	545	1,080	7,370	1,230	1,230	938	1,440	1,860	1,170	872	775
19	1,400	545	1,230	10,400	1,200	1,260	938	1,300	3,110	788	970	762
20	1,020	540	4,540	15,300	1,160	1,230	905	1,160	1,440	775	840	762
21	835	528	2,610	7,020	1,620	1,230	938	1,100	1,040	1,130	710	723
22	775	540	1,610	3,750	3,800	1,160	970	938	1,100	905	652	710
23	721	545	1,240	2,800	2,350	1,100	938	1,040	938	775	780	603
24	673	540	1,050	2,280	1,860	1,130	905	1,100	794	678	4,270	633
25	673	550	955	2,070	1,790	1,370	4,530	1,100	756	1,040	14,700	645
26	611	572	895	2,000	1,580	1,230	7,560	970	730	1,110	14,600	652
27	622	556	865	1,760	1,400	1,100	2,580	938	840	1,950	3,590	926
28	600	523	895	1,680	1,440	1,070	1,860	1,620	1,730	872	2,110	2,320
29	589	496	1,080	5,700	-	1,040	1,680	1,200	970	664	1,830	1,160
30	589	545	1,340	3,340	-	1,040	1,680	938	820	2,090	4,940	905
31	562	-	2,610	3,200	-	1,000	-	905	-	1,190	5,850	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	43,428	12,000	506	1,401	1.22	1.41
November	17,325	775	496	578	.503	.56
December	39,150	4,540	545	1,263	1.10	1.27
Calendar year 1936	592,473	22,100	308	1,619	1.41	19.17
January	154,290	19,600	1,440	4,977	4.33	4.99
February	51,610	4,980	1,160	1,843	1.60	1.67
March	38,600	1,510	1,000	1,245	1.08	1.24
April	45,822	7,560	905	1,527	1.33	1.48
May	48,149	7,360	905	1,553	1.35	1.56
June	37,362	3,110	730	1,245	1.08	1.20
July	30,986	2,210	585	1,000	.870	1.00
August	78,799	14,700	609	2,542	2.21	2.55
September	39,166	4,800	603	1,306	1.14	1.27
Water year 1936-37	624,687	19,600	496	1,711	1.49	20.20

Dan River at Danville, Va.

Location.- Water-stage recorder, lat. 36°35'15", long. 79°22'55", at Southern Railway bridge in Danville, Pittsylvania County, 1,000 feet above Fall Creek.

Drainage area.- 2,050 square miles.

Records available.- August 1934 to September 1937.

Extremes.- Maximum discharge during year, 31,800 second-feet Aug. 26 (gage height, 13.45 feet); minimum, 99 second-feet Dec. 5 (gage height, 1.17 feet); minimum daily discharge, 746 second-feet Nov. 30.

1934-37: Maximum discharge, 45,200 second-feet Jan. 20, 1936 (gage height, 17.30 feet), from rating curve extended above 30,000 second-feet; minimum, 82 second-feet Sept. 4, 1935 (gage height, 1.18 feet); minimum daily discharge, 436 second-feet Sept. 21, 1936.

Remarks.- Records good except those for periods of missing gage heights, Jan. 21-26, Jan. 30 to Feb. 16, Feb. 18-24, Mar. 7-12, May 12-21, Sept. 12-25, which were computed on basis of recorder charts, weather records, and records for stations at Leaksville and South Boston, and are fair. Flow regulated by operation of Dan River cotton mills above station. Gage-height record collected in cooperation with the U. S. Weather Bureau.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.0	530	4.0	3,880	8.0	14,400
2.5	1,040	5.0	6,210	10.0	20,600
3.0	1,830	6.0	8,720	12.4	28,400

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12,000	873	997	11,700	8,300	2,660	1,640	2,400	1,580	1,530	2,180	5,710
2	3,890	904	941	12,400	6,100	2,420	1,700	2,130	1,470	1,430	2,160	3,280
3	1,580	1,080	1,120	26,400	4,100	2,540	1,600	2,240	2,160	1,050	2,320	2,410
4	1,200	918	1,250	27,400	3,500	2,440	1,460	2,020	1,920	1,140	1,530	2,040
5	1,220	1,100	1,010	8,800	3,000	2,420	1,840	1,920	2,340	1,520	1,110	1,640
6	1,080	1,130	1,120	6,450	2,800	2,150	3,200	2,260	1,500	1,920	1,390	6,910
7	959	1,100	1,280	5,480	2,700	2,200	3,070	2,650	1,440	2,160	3,190	6,330
8	982	946	2,270	3,940	2,500	2,100	2,280	2,120	2,360	1,880	2,860	3,900
9	991	844	1,950	3,120	3,000	2,300	2,220	1,680	2,040	1,340	1,910	2,440
10	1,150	1,150	1,430	2,500	3,900	2,200	2,160	1,860	1,510	1,160	2,940	2,040
11	1,460	904	1,530	2,660	3,500	2,100	1,780	1,750	3,840	1,240	2,810	1,710
12	1,290	1,070	3,070	2,210	2,900	2,000	1,940	1,600	2,180	1,040	3,220	1,520
13	1,170	1,340	2,820	2,360	2,600	1,920	1,860	1,600	1,220	1,600	2,560	1,680
14	877	1,230	2,410	2,910	2,700	1,490	1,760	5,200	1,480	4,300	3,700	1,520
15	866	1,090	1,830	2,980	2,500	2,100	1,710	11,000	2,090	2,740	2,410	1,380
16	1,230	969	1,660	4,060	2,400	2,320	1,680	6,600	1,650	1,460	1,420	1,340
17	11,500	1,110	2,080	5,660	2,220	2,230	1,580	3,400	2,600	1,700	1,380	1,280
18	8,740	910	1,990	12,000	2,200	2,120	1,540	2,500	3,320	1,250	1,300	1,300
19	3,040	916	1,720	13,700	2,100	2,160	1,620	2,200	3,120	1,780	1,520	1,300
20	2,150	978	5,080	22,600	2,000	2,080	1,640	2,000	3,590	1,570	1,720	1,200
21	1,560	908	5,360	15,000	2,600	1,790	1,540	1,800	2,010	2,150	1,360	1,200
22	1,390	960	3,140	8,500	5,300	2,190	1,600	1,700	1,780	2,150	1,240	1,200
23	1,250	818	2,240	5,000	5,000	1,890	1,610	1,400	1,700	1,560	1,150	1,100
24	1,110	1,040	1,670	4,000	3,600	1,820	1,590	1,740	1,320	1,260	4,480	1,100
25	1,080	956	1,620	3,600	3,270	2,220	4,050	2,000	1,260	1,400	13,600	1,100
26	1,230	796	1,580	3,300	2,740	2,160	14,000	1,670	912	3,360	28,400	1,000
27	1,160	1,080	1,460	2,760	2,390	1,900	5,700	1,560	1,080	3,670	11,800	1,260
28	1,020	810	1,680	2,580	2,100	1,660	3,520	1,680	2,020	2,370	3,960	3,000
29	973	908	1,720	6,360	-	1,540	2,820	2,340	2,440	1,190	3,220	2,430
30	996	746	1,950	8,000	-	1,890	2,840	1,560	1,460	1,500	5,790	1,610
31	1,060	-	2,920	6,000	-	1,820	-	1,300	-	3,160	10,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	70,204	12,000	866	2,265	1.10	1.27
November	29,584	1,340	746	986	.481	.54
December	62,888	5,360	941	2,029	.990	1.14
Calendar year 1936	1,063,874	42,800	436	2,907	1.42	19.29
January	244,430	27,400	2,210	7,885	3.85	4.44
February	92,020	8,300	2,000	3,286	1.60	1.67
March	64,830	2,660	1,490	2,091	1.02	1.18
April	77,550	14,000	1,460	2,585	1.26	1.41
May	77,880	11,000	1,300	2,512	1.23	1.42
June	59,392	3,840	912	1,980	.966	1.08
July	57,580	4,300	1,040	1,857	.906	1.04
August	129,130	28,400	1,110	4,165	2.03	2.34
September	65,930	6,910	1,000	2,198	1.07	1.19
Water year 1936-37	1,031,418	28,400	746	2,826	1.38	18.72

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Dan River at South Boston, Va.

Location.- Water-stage recorder, lat. 36°41'37", long. 78°54'09", at Norfolk & Western Railway bridge at South Boston, Halifax County, 6 miles above Banister River. Zero of gage is 300.07 feet above mean sea level (Corps of Engineers, U. S. Army, benchmark).

Drainage area.- 2,730 square miles.

Records available.- August 1900 to May 1907, April 1923 to September 1937.

Average discharge.- 19 years (1900-1902, 1903-6, 1923-37), 2,906 second-feet.

Extremes.- Maximum discharge during year, 40,700 second-feet Jan. 4 or 5 (gage height, about 25.7 feet, from floodmarks); minimum daily, 1,000 second-feet (estimated) Oct. 15, Nov. 3, 10, 24, 27, Dec. 1.
1900-1907, 1923-37: Maximum discharge, 58,200 second-feet Jan. 21, 1936 (gage height, 28.5 feet, from floodmarks), from rating curve extended above 40,000 second-feet; minimum observed, 161 second-feet Sept. 20, 1932 (gage height, 3.11 feet); minimum daily, 208 second-feet Sept. 15, 1932.

Remarks.- Records good except those for periods of missing or faulty gage heights, Oct. 5-17, Oct. 28 to Nov. 14, Nov. 16 to Dec. 3, Jan. 3-5, 7, 8, 17-25, May 27 to Aug. 4, Sept. 10-16, which were computed on basis of recorder charts, weather records, and records for Dan River at Danville, Roanoke River at Clover and at Clarksville, Banister River at Halifax, and Hyco River near Omega and are fair. Water supply for South Boston diverted just above gage. Operation of dams and mills at Danville regulate low-water flow to some extent.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,920	1,400	1,000	9,400	10,400	3,130	2,300	3,640	1,500	1,800	3,500	11,700
2	10,800	1,300	1,100	18,600	9,780	3,500	2,120	3,200	1,600	1,700	2,600	5,790
3	3,380	1,000	1,300	28,000	5,950	3,400	2,140	2,480	2,000	1,500	2,700	3,860
4	1,820	1,100	1,540	39,000	4,610	3,400	2,100	2,630	2,600	1,200	3,200	3,160
5	1,500	1,200	1,560	38,000	4,060	3,290	2,180	2,370	2,100	1,200	1,660	2,710
6	1,300	1,300	1,390	18,700	3,700	3,170	4,060	2,450	2,900	1,600	1,240	4,150
7	1,100	1,400	1,480	9,000	3,460	3,020	5,260	2,890	2,200	2,300	2,260	12,000
8	1,100	1,400	1,950	6,800	3,130	2,570	3,920	2,950	1,400	2,700	4,420	8,920
9	1,100	1,100	2,890	5,220	4,060	2,960	3,400	2,460	2,700	2,400	3,050	5,910
10	1,200	1,000	3,740	4,500	5,200	2,860	3,110	1,870	2,600	1,500	3,040	3,000
11	1,500	1,100	3,910	3,640	5,010	2,700	2,950	2,060	2,000	1,300	3,680	2,600
12	1,600	1,200	4,880	3,580	4,240	2,490	2,340	2,000	4,600	1,300	2,820	2,300
13	1,400	1,500	5,280	3,460	3,510	2,460	2,440	1,780	3,200	1,100	3,790	2,100
14	1,200	1,800	3,840	3,680	3,480	2,540	2,420	2,190	1,600	1,400	3,220	2,100
15	1,000	1,540	2,980	4,280	3,220	2,180	2,290	12,100	1,500	4,600	4,140	1,900
16	1,100	1,300	2,530	5,150	3,390	2,960	2,260	11,400	2,300	3,200	2,330	1,700
17	4,000	1,200	3,570	6,500	3,090	3,130	2,220	4,890	1,900	1,700	1,460	1,760
18	14,200	1,300	3,820	13,000	2,880	2,940	2,280	3,260	3,500	1,600	1,390	1,670
19	6,350	1,200	3,160	17,000	2,740	2,900	1,910	2,650	4,200	1,400	1,310	1,680
20	2,960	1,200	2,900	24,000	2,720	2,920	2,080	2,340	4,000	1,800	1,510	1,440
21	2,020	1,200	6,840	26,000	3,220	2,950	2,150	2,060	4,100	2,100	1,720	1,520
22	1,640	1,200	5,730	14,000	5,270	2,480	2,080	1,990	2,500	2,800	1,390	1,630
23	1,560	1,300	3,700	8,000	7,810	2,700	2,060	1,920	2,100	2,900	1,400	1,480
24	1,500	1,000	2,800	6,000	5,140	2,530	2,000	1,580	2,000	1,900	2,830	1,380
25	1,400	1,100	2,220	5,200	4,310	2,640	5,760	1,940	1,400	1,600	7,270	1,370
26	1,400	1,100	2,080	4,680	3,950	2,940	18,200	2,170	1,300	1,600	16,800	1,270
27	1,100	1,000	2,080	4,440	3,440	2,750	19,400	2,100	1,100	3,900	26,700	1,260
28	1,200	1,200	2,010	3,980	3,240	2,500	7,350	2,300	1,100	4,200	19,600	1,800
29	1,100	1,200	2,080	7,560	-	2,090	4,340	2,000	2,100	2,700	4,720	3,890
30	1,100	1,200	2,150	11,300	-	2,110	3,840	2,900	2,900	1,500	5,550	2,620
31	1,100	-	2,440	8,060	-	2,280	-	2,000	-	1,400	11,800	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	81,650	14,200	1,000	2,634	0.965	1.11
November	37,040	1,800	1,000	1,235	.452	.50
December	88,950	6,840	1,000	2,869	1.05	1.21
Calendar year 1936	1,402,770	50,000	600	3,833	1.40	19.09
January	360,730	39,000	3,460	11,640	4.26	4.91
February	125,010	10,400	2,720	4,465	1.64	1.71
March	86,490	3,500	2,090	2,790	1.02	1.18
April	120,960	19,400	1,910	4,032	1.48	1.65
May	94,570	12,100	1,580	3,051	1.12	1.29
June	71,000	4,600	1,100	2,367	.867	.97
July	63,900	4,600	1,100	2,061	.755	.87
August	153,100	26,700	1,240	4,939	1.81	2.09
September	98,670	12,000	1,260	3,289	1.20	1.34
Water year 1936-37	1,382,070	39,000	1,000	3,786	1.39	18.83

Mayo River near Price, N. C.

Location.- Water-stage recorder, lat. 36°32'00", long. 79°59'30", just below Anglins Bridge, three-quarters of a mile below State line and 4 miles west of Price, Rockingham County.

Drainage area.- 280 square miles.

Records available.- July 1929 to September 1937.

Extremes.- Maximum discharge during year, 8,020 second-feet Jan. 3 (gage height, 7.28 feet), from rating curve extended above 1,000 second-feet; minimum, 130 second-feet Nov. 28 (gage height, 1.16 feet).
1929-37: Maximum discharge, 16,200 second-feet, Oct. 2, 1929 (gage height, 10.2 feet, from graph based on gage readings), from rating curve extended above 1,000 second-feet; minimum, 41 second-feet Sept. 19, 1932 (gage height, 0.52 foot).

Remarks.- Records good below 2,000 second-feet and poor above except those for period when recorder clock was stopped, July 2-6, which were computed on basis of range in stage and records for other stations, principally Dan River near Francisco, and are fair.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-16, May 15 to June 18)

1.2	138	3.0	1,070
1.4	185	4.0	2,040
1.6	255	5.0	3,400
1.8	344	6.0	5,150
2.0	444	7.0	7,300
2.5	720	7.5	8,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,010	168	149	1,450	912	383	272	368	239	231	223	610
2	339	168	168	2,150	600	403	268	344	449	240	180	475
3	251	168	213	5,570	506	398	264	326	303	200	197	398
4	213	172	188	1,210	470	388	264	316	445	190	172	344
5	197	182	172	680	444	378	394	312	335	260	165	321
6	194	172	168	832	413	368	454	548	272	280	175	373
7	191	168	301	616	398	354	354	373	251	291	755	534
8	175	170	255	522	398	364	326	339	316	210	287	364
9	191	165	204	459	418	368	339	312	259	188	424	326
10	276	158	194	418	550	344	316	298	251	178	369	298
11	210	158	295	373	439	335	294	285	548	217	255	285
12	185	182	444	344	403	326	285	281	281	349	385	268
13	178	207	359	506	383	312	281	294	269	213	255	251
14	175	178	281	429	398	312	281	1,190	517	577	297	243
15	168	170	251	526	378	349	281	737	289	356	200	232
16	717	160	232	562	368	349	289	475	312	213	182	224
17	3,300	153	272	1,190	349	330	272	403	424	313	178	216
18	555	153	239	1,180	339	326	264	359	602	280	240	213
19	354	158	353	2,450	335	335	264	335	776	191	252	210
20	285	160	970	2,070	335	316	259	316	344	461	180	207
21	255	153	555	1,200	464	330	272	303	264	359	168	204
22	236	153	398	801	935	303	276	294	281	289	162	200
23	216	151	335	644	500	298	255	294	255	224	207	197
24	220	151	294	561	480	298	259	312	216	204	1,090	194
25	213	153	268	522	470	339	1,190	281	207	348	3,360	191
26	197	153	251	485	413	303	1,630	272	200	438	2,500	191
27	185	149	247	439	383	289	600	276	200	244	786	566
28	175	151	247	413	398	289	475	338	224	197	561	440
29	175	151	276	1,260	-	281	439	289	216	191	454	272
30	172	149	307	638	-	281	413	259	194	250	1,050	236
31	168	-	1,400	769	-	281	-	247	-	192	1,220	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	11,376	3,300	168	367	1.41	1.63
November	4,884	207	149	163	.627	.70
December	10,286	1,400	149	332	1.28	1.48
Calendar year 1936	146,914	7,440	109	401	1.54	21.01
January	31,269	5,570	344	1,009	3.88	4.47
February	12,879	935	335	460	1.77	1.84
March	10,330	403	281	333	1.28	1.48
April	11,830	1,630	255	394	1.52	1.70
May	11,376	1,190	247	367	1.41	1.63
June	9,739	776	194	325	1.25	1.40
July	8,374	577	178	270	1.04	1.20
August	16,929	3,360	182	546	2.10	2.42
September	9,083	610	191	303	1.17	1.30
Water year 1936-37	148,355	5,570	149	406	1.56	21.25

North Mayo River near Spencer, Va.

Location.- Water-stage recorder, lat. 36°34'05", long. 79°59'15", 800 feet below highway bridge at Moores Mill and 4 miles southeast of Spencer, Henry County. Zero of gage is 730.94 feet above mean sea level (Corps of Engineers, U. S. Army, benchmark).

Drainage area.- 106 square miles.

Records available.- October 1928 to September 1937.

Extremes.- Maximum discharge during year, about 3,060 second-feet Jan. 3 (gage height, 6.95 feet), from rating curve extended above 450 second-feet; minimum, 40 second-feet Nov. 28 (gage height, 1.52 feet).
1928-37: Maximum stage observed, 10.52 feet Oct. 17, 1932 (discharge not determined); minimum discharge, 19 second-feet Sept. 2-5, 1930 (gage height, 2.12 feet).

Remarks.- Records good except those for period of missing gage heights, May 16-22 (computed on basis of recorder charts and records for station at Price), and those above 600 second-feet, which are fair.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 26				Apr. 27 to Sept. 30	
1.5	37	3.0	473	1.6	62
1.7	70	3.5	695	1.8	104
2.0	140	4.0	955	2.0	156
2.3	227	5.0	1,570	2.3	249
2.6	326	6.0	2,270	2.6	350
				3.0	500
				4.0	965

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	417	52	48	500	330	135	92	151	97	93	72	230
2	122	54	56	884	209	143	92	142	134	91	70	162
3	86	56	76	2,050	177	137	92	137	104	86	76	137
4	70	56	63	408	162	132	90	126	142	82	68	116
5	63	61	57	240	154	127	167	132	124	124	62	109
6	59	56	54	312	140	122	168	208	100	170	87	119
7	57	52	117	206	137	119	124	142	97	142	170	169
8	57	54	86	174	137	124	117	174	132	95	95	122
9	68	52	68	151	157	124	122	126	97	89	126	106
10	95	50	68	137	185	114	109	119	110	80	122	97
11	65	49	130	124	146	109	102	116	202	102	89	95
12	56	61	174	119	135	109	100	112	104	155	167	91
13	50	72	130	197	130	107	100	119	129	104	95	86
14	49	57	91	154	135	107	97	365	188	238	93	84
15	49	54	84	188	127	124	100	249	122	109	76	80
16	217	50	80	191	122	124	100	170	122	86	68	78
17	1,340	49	97	436	114	122	95	140	194	78	64	76
18	209	49	82	460	112	117	92	130	210	82	66	76
19	132	49	155	826	112	122	90	120	137	74	70	74
20	102	48	393	770	109	112	90	110	109	238	70	72
21	86	50	209	442	204	117	95	110	102	168	59	70
22	80	50	148	282	380	107	95	100	153	137	57	70
23	72	49	119	224	182	104	88	106	100	104	74	68
24	74	49	102	197	177	104	90	116	91	89	220	68
25	66	50	92	185	171	119	488	104	89	89	773	68
26	63	49	88	165	140	104	646	100	91	119	594	66
27	59	49	86	154	135	100	246	102	95	91	230	196
28	57	46	86	151	140	97	195	126	95	80	198	165
29	57	49	100	514	-	95	183	116	89	78	137	102
30	54	48	117	227	-	92	168	100	95	84	393	89
31	52	-	550	326	-	95	-	95	-	74	548	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4,083	1,340	49	132	1.22	1.41
November	1,570	72	46	52.3	.484	.54
December	3,806	550	48	123	1.14	1.31
Calendar year						
January	11,394	2,050	119	368	3.41	3.93
February	4,559	380	109	163	1.51	1.57
March	3,564	143	92	115	1.06	1.22
April	4,433	646	88	148	1.37	1.53
May	4,223	365	95	136	1.26	1.45
June	3,654	210	89	122	1.13	1.26
July	3,431	238	74	111	1.03	1.19
August	5,091	773	57	164	1.52	1.75
September	3,141	230	66	105	.972	1.08
Water year 1936-37	52,949	2,050	46	145	1.34	18.24

Smith River at Martinsville, Va.

Location.- Water-stage recorder, lat. 36°39'45", long. 79°52'55", 2 miles south of Martinsville, Henry County, and 3 miles below Grassy Creek. Zero of gage is 656.86 feet above mean sea level (Corps of Engineers, U. S. Army, benchmark).

Drainage area.- 374 square miles.

Records available.- August 1929 to September 1937.

Extremes.- Maximum discharge during year, 15,600 second-feet Oct. 17 (gage height, 11.57 feet), from rating curve extended above 5,000 second-feet; minimum, 24 second-feet Dec. 2 (gage height, 1.51 feet); minimum daily, 107 second-feet Nov. 29.
1929-37: Maximum stage, 17.50 feet Oct. 17, 1932 (discharge not determined); minimum discharge, 5 second-feet May 20, 1934 (gage height, 1.20 feet); minimum daily, 19 second-feet Oct. 6, 1935.

Remarks.- Records good except those for period of missing gage heights, Aug. 1-5 (computed on basis of recorder charts, weather records, and records for North Mayo River at Spencer), and those for November and September, which are fair. Flow regulated by operation of dam and power plant 1,000 feet upstream.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 25				Apr. 26 to Sept. 30			
1.7	54	3.5	1,060	2.0	166	4.0	1,610
2.0	133	4.0	1,600	2.3	285	5.0	2,900
2.3	247	5.0	2,900	2.6	432	6.0	4,510
2.6	388	6.0	4,510	3.0	686	8.0	8,260
3.0	635	8.0	8,260	3.5	1,100		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,300	180	243	1,220	1,130	506	344	546	364	378	250	1,070
2	462	264	268	2,610	795	498	333	501	438	383	250	754
3	236	224	280	5,360	675	516	284	521	418	338	260	605
4	183	242	306	1,390	616	490	281	476	361	260	230	496
5	251	255	236	1,000	585	474	845	466	310	593	220	468
6	208	262	176	1,020	528	374	865	579	339	714	272	490
7	187	230	516	826	536	418	595	536	460	616	383	584
8	189	140	460	698	518	504	524	377	588	433	397	502
9	232	301	348	636	560	458	498	414	430	343	480	456
10	276	244	300	490	624	406	435	492	418	302	442	431
11	184	206	354	531	550	408	438	397	546	302	461	392
12	238	254	660	439	505	399	473	370	309	434	610	298
13	186	260	500	564	452	323	396	386	243	387	517	440
14	186	239	474	538	496	350	365	1,020	459	914	380	369
15	172	189	344	707	510	506	378	726	350	435	274	329
16	1,660	291	382	746	444	454	387	530	360	384	357	338
17	6,260	242	418	1,580	418	421	300	519	824	335	224	352
18	684	241	476	4,260	417	413	300	458	782	186	277	299
19	504	234	534	4,840	424	428	400	420	497	400	426	274
20	312	231	1,350	3,260	371	356	346	380	334	654	340	388
21	333	211	656	2,320	764	425	350	419	440	614	241	316
22	302	145	573	1,200	1,490	486	363	342	378	468	180	294
23	281	252	492	969	746	388	346	375	339	382	384	302
24	264	237	377	770	682	358	286	604	304	306	620	299
25	192	270	399	703	618	379	2,740	444	264	308	6,830	294
26	309	171	362	635	546	426	2,360	368	240	407	3,340	206
27	264	262	398	579	487	296	898	394	364	312	1,220	643
28	210	214	476	566	556	296	711	416	1,590	274	1,240	634
29	229	107	440	1,450	-	340	781	369	437	259	659	478
30	232	269	474	850	-	456	654	282	329	321	2,160	334
31	208	-	1,520	1,090	-	318	-	431	-	270	2,960	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	16,734	6,260	172	540	1.44	1.66
November	6,867	301	107	229	.612	.68
December	14,792	1,520	176	477	1.28	1.48
Calendar year 1936	204,693	9,780	31	559	1.49	20.37
January	43,867	5,360	439	1,415	3.78	4.36
February	17,043	1,490	371	609	1.63	1.70
March	12,850	516	296	415	1.11	1.28
April	18,276	2,740	281	609	1.63	1.82
May	14,558	1,020	282	470	1.26	1.45
June	13,515	1,590	240	450	1.20	1.34
July	12,712	914	186	410	1.10	1.27
August	26,884	6,830	180	867	2.32	2.68
September	13,135	1,070	206	438	1.17	1.30
Water year 1936-37	211,233	6,830	107	579	1.55	21.02

Sandy River near Danville, Va.

Location.- Water-stage recorder and concrete control, lat. 36°37'05", long. 79°30'00", 500 feet below bridge on road between Callahans Store and Mount Cross, 6 miles northwest of Danville, Pittsylvania County and 6 miles above mouth. Concrete control in use after October 22, 1936. Zero of gage is 454.39 feet above mean sea level (Corps of Engineers, U. S. Army, benchmark).

Drainage area.- 113 square miles.

Records available.- November 1929 to September 1937.

Extremes.- Maximum stage during year, 9.20 feet Aug. 25 (discharge not determined); minimum discharge, 26 second-feet Nov. 28.
1929-37: Maximum discharge, about 5,300 second-feet Sept. 7, 1934 (gage height, 11.60 feet); minimum, 3 second-feet Sept. 29, 1930 (gage height, 0.40 foot).

Remarks.- Records fair. Discharge for period when concrete control was under construction, Oct. 1-22, and for periods of faulty gage-height record, Sept. 2-5, 9-26, computed on basis of recorder charts, observer's gage readings, and records for Dan River at Danville and Snow Creek at Sago.

Rating table, October 23, 1936, to September 30, 1937 (gage height, in feet, and discharge, in second-feet)

2.7	40	3.6	246	5.0	1,540
3.0	73	4.0	496	5.5	2,180
3.3	137	4.5	960	6.1	3,000

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	150	43	42	340	433	105	71	100	58	152	93	217
2	70	46	49	1,270	304	109	73	94	59	63	115	110
3	50	46	61	3,000	156	111	73	88	60	48	302	90
4	45	48	50	485	132	107	72	87	58	49	82	80
5	43	52	45	229	121	105	131	87	57	207	67	80
6	42	48	47	413	107	100	186	129	52	153	100	481
7	42	46	85	221	107	98	114	103	57	119	93	162
8	42	47	66	168	107	98	96	88	76	61	62	119
9	60	49	58	140	116	100	111	78	56	53	63	95
10	55	46	58	124	143	90	98	76	54	48	66	80
11	50	43	121	111	111	87	92	71	91	46	144	70
12	47	52	149	103	100	87	90	67	58	46	179	60
13	45	61	100	194	98	85	85	73	48	45	100	60
14	45	49	75	143	109	82	80	628	52	344	143	55
15	50	47	67	179	100	87	80	524	53	76	69	55
16	400	45	73	186	96	103	82	162	61	59	61	55
17	700	44	121	601	92	98	76	119	130	62	58	55
18	100	44	85	537	87	92	73	100	68	118	72	55
19	48	44	114	1,380	85	94	76	87	59	53	69	50
20	50	43	238	1,050	83	92	73	82	53	212	54	50
21	52	45	137	481	156	88	73	76	51	132	56	50
22	50	46	96	261	376	87	78	72	82	90	192	50
23	46	46	78	193	168	85	76	71	53	67	92	50
24	46	45	72	165	149	87	73	72	48	58	692	50
25	46	46	68	156	146	107	408	67	47	92	2,720	50
26	46	45	67	137	121	85	582	66	47	854	1,480	50
27	46	44	65	116	107	78	182	68	48	428	229	96
28	42	41	65	119	105	76	129	67	76	116	156	116
29	43	44	67	450	-	76	132	62	50	80	156	72
30	43	44	65	200	-	71	119	61	75	69	669	65
31	42	-	241	423	-	73	-	60	-	76	828	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,636	700	42	85.0	0.752	0.87
November	1,389	61	41	46.3	.410	.46
December	2,725	241	42	87.9	.778	.90
Calendar year 1936	55,980	3,390	19	153	1.35	18.43
January	13,575	3,000	103	438	3.88	4.47
February	3,917	433	83	140	1.24	1.29
March	2,843	111	71	91.7	.812	.94
April	3,684	582	71	123	1.09	1.22
May	3,585	628	60	116	1.03	1.19
June	1,837	130	47	61.2	.542	.60
July	4,076	854	45	131	1.16	1.34
August	9,262	2,720	54	299	2.65	3.06
September	2,728	481	50	90.9	.804	.90
Water year 1936-37	52,257	3,000	41	143	1.27	17.24

Banister River at Halifax, Va.

Location.- Water-stage recorder, lat. 36°45'30", long. 78°54'05", 1 mile north of Halifax, Halifax County, and 10 miles above mouth. Zero of gage is 318.54 feet above mean sea level.
Drainage area.- 552 square miles.
Records available.- December 1928 to September 1937.
Extremes.- Maximum discharge during year, 9,110 second-feet Apr. 26 (gage height, 22.90 feet); minimum, 19 second-feet Nov. 28 (gage height 0.34 foot); minimum daily, 37 second-feet July 9.
1928-37: Maximum discharge, 10,500 second-feet Mar. 19, 1936 (gage height, 24.10 feet), from rating curve extended above 7,500 second-feet; minimum, 6 second-feet many days in August and September, 1932, minimum daily, 6 second-feet Aug. 30, 1932.
Remarks.- Records good except those for periods of missing gage heights, Oct. 1, 4, 5, 23-29, July 20-23, Sept. 6-12, which were computed on basis of recorder charts, output of power plant and records for station on Hyco River and are fair. Flow regulated except for high stages by power plant half a mile upstream.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 26				Apr. 27 to Sept. 30			
0.9	53	8.0	1,520	0.5	32	5.0	794
1.2	84	12.0	2,740	.7	47	6.0	1,030
1.6	134	14.0	3,460	1.1	87	8.0	1,550
2.0	190	16.0	4,350	1.5	137	12.0	2,740
3.0	356	18.0	5,470	2.0	210	14.0	3,460
4.0	546	20.0	6,850	2.5	291	16.0	4,350
5.0	764	22.9	9,110	3.0	378	18.0	5,470
6.0	1,000			4.0	570	20.1	6,920

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	750	60	108	1,350	2,390	708	271	695	220	514	740	1,820
2	478	229	307	2,140	1,570	712	342	558	552	526	819	1,110
3	214	90	330	5,860	952	678	342	583	712	261	1,010	720
4	200	232	212	7,360	748	670	264	592	326	179	941	710
5	220	232	235	4,480	667	640	636	465	464	429	774	548
6	164	187	232	1,580	601	508	756	482	299	766	226	1,400
7	180	189	430	1,340	482	282	780	517	325	565	277	2,000
8	195	181	468	1,070	660	690	622	500	780	704	462	1,600
9	207	212	280	834	626	718	620	380	462	37	280	950
10	232	154	680	562	838	531	595	502	408	255	394	720
11	193	225	822	766	775	424	205	446	786	216	674	500
12	178	258	852	636	612	334	624	454	601	228	1,290	350
13	186	242	694	692	466	430	533	396	248	226	912	529
14	123	236	758	1,070	468	164	349	465	250	150	756	274
15	152	274	401	1,020	717	474	328	2,390	304	390	462	354
16	382	138	496	1,330	668	570	300	1,660	688	366	267	295
17	866	228	632	1,380	642	592	374	896	428	240	302	346
18	775	184	740	3,320	564	572	180	650	868	252	236	328
19	424	204	578	3,900	600	644	538	616	1,100	194	343	346
20	182	164	399	6,120	584	625	501	506	595	500	300	270
21	205	216	918	5,760	246	219	239	404	526	1,000	310	304
22	221	141	678	2,890	1,440	674	273	412	271	920	587	272
23	200	120	397	1,320	1,320	579	328	260	248	800	577	301
24	250	180	570	924	886	380	572	395	236	224	888	304
25	270	231	220	916	878	572	1,350	380	252	110	2,360	317
26	100	252	216	846	764	565	8,430	300	300	544	6,900	209
27	180	132	310	730	632	196	5,300	316	248	2,010	5,770	307
28	200	224	508	653	434	364	1,460	322	670	2,630	1,440	762
29	200	174	246	1,750	-	554	996	420	312	857	581	1,000
30	185	262	275	2,070	-	282	881	224	409	362	942	496
31	222	-	676	1,200	-	490	-	264	-	551	1,540	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	8,534	866	100	275	0.498	0.57
November	5,851	274	60	195	.353	.39
December	14,668	918	108	473	.857	.99
Calendar year 1936	248,267	9,280	18	678	1.23	16.70
January	65,869	7,360	562	2,125	3.85	4.44
February	22,230	2,390	246	794	1.44	1.50
March	15,841	718	164	511	.926	1.07
April	28,989	8,430	180	966	1.75	1.95
May	17,450	2,390	224	563	1.02	1.18
June	13,888	1,100	220	463	.839	.94
July	17,008	2,630	37	549	.995	1.15
August	33,360	6,900	226	1,076	1.95	2.25
September	19,442	2,000	209	648	1.17	1.30
Water year 1936-37	263,130	8,430	37	721	1.31	17.73

Hyco River near Omega, Va.

Location.- Water-stage recorder, lat. 36°38', long. 78°48', at highway bridge, 1⅛ miles above Hilly Creek, 2⅛ miles south of Omega, Halifax County, and 7 miles above mouth.

Drainage area.- 338 square miles.

Records available.- March 1934 to September 1937.

Extremes.- Maximum discharge during year, not determined; minimum, 22 second-feet Oct. 15, 16 (gage height, 1.85 feet).
1934-37: Maximum discharge, 7,240 second-feet Sept. 8, 1934 (gage height, 27.50 feet), from rating curve extended above 3,600 second-feet; minimum, 3 second-feet Aug. 29, 1935 (gage height, 1.46 feet).

Remarks.- Records good except those for periods of missing gage heights, Oct. 22-27, Dec. 11-14, 16-20, Jan. 1, 3-6, 16-21, which were computed on basis of recorder charts, weather records, and records for Banister River at Halifax, and are poor.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 22
Apr. 28 to Sept. 30

1.8	18	3.5	218	10.0	1,400
2.0	34	4.0	292	12.0	1,950
2.3	63	5.0	449	16.0	3,190
2.6	97	6.0	617	20.0	4,540
3.0	148	8.0	974	24.0	5,980

Jan. 23 to Apr. 27

2.8	138	5.0	464
3.0	165	6.0	626
4.0	310	8.0	974

Note.- Same as preceding table above 7.2 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	830	35	37	1,000	2,280	318	165	566	50	61	61	552
2	549	31	38	1,920	1,470	385	154	393	51	62	40	218
3	182	32	46	3,500	866	432	147	322	52	55	399	135
4	73	37	56	5,000	544	416	139	270	205	45	393	102
5	51	39	59	6,000	464	370	368	232	481	94	117	97
6	40	38	59	4,500	400	325	2,010	282	566	334	60	1,170
7	34	38	64	2,970	355	288	2,130	247	242	600	53	2,460
8	31	46	190	1,690	355	265	1,690	197	125	284	255	3,030
9	31	41	292	1,350	528	272	813	165	327	172	93	2,610
10	37	42	339	902	1,150	242	544	145	233	81	212	985
11	58	40	500	722	1,070	214	392	134	402	62	384	281
12	49	43	600	433	779	193	318	121	686	54	813	232
13	41	72	600	393	496	186	272	113	252	48	920	165
14	36	105	500	369	464	179	250	117	116	48	345	131
15	25	105	314	385	448	193	235	183	104	40	365	107
16	29	74	420	700	400	318	250	176	104	37	234	90
17	106	60	500	800	400	378	228	138	114	40	97	81
18	169	52	550	2,000	325	340	200	107	127	35	92	81
19	140	51	580	2,500	295	332	186	95	583	48	89	78
20	70	50	520	3,500	280	302	171	87	361	74	55	73
21	55	51	417	4,500	544	280	171	78	190	56	50	67
22	47	47	307	4,170	1,090	242	258	74	113	105	47	60
23	42	42	218	3,440	938	214	214	70	108	85	824	56
24	38	42	168	1,330	592	200	171	65	95	60	1,440	51
25	35	44	148	660	480	332	1,560	70	70	49	902	45
26	33	49	140	813	385	340	4,540	68	59	31	1,690	45
27	31	50	131	728	318	272	5,010	64	168	65	848	43
28	30	51	126	592	302	221	4,440	61	68	75	300	43
29	34	49	127	2,040	-	193	2,360	59	57	67	182	44
30	36	38	139	2,100	-	178	600	53	83	61	583	44
31	34	-	434	2,100	-	169	-	49	-	39	1,170	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,996	830	25	96.6	0.286	0.33
November	1,494	105	31	49.8	.147	.16
December	8,619	600	37	278	.822	.95
Calendar year 1936	207,351	5,440	6	567	1.68	22.82
January	63,107	6,000	369	2,036	6.02	6.94
February	18,018	2,280	280	644	1.91	1.99
March	8,589	432	169	277	.820	.95
April	29,986	5,010	139	1,000	2.96	3.30
May	4,781	566	49	154	.456	.53
June	6,192	686	50	206	.609	.68
July	2,967	600	31	95.7	.283	.33
August	13,113	1,690	40	423	1.25	1.44
September	13,176	3,030	43	439	1.30	1.45
Water year 1936-37	173,038	6,000	25	474	1.40	19.05

Tar River near Nashville, N. C.

Location.- Water-stage recorder, lat. 35°51'00", long. 77°55'50", at Cockrell Bridge, on Nashville-Wilson road 5 miles above Sapony Creek and 10 miles south of Nashville, Nash County.

Drainage area.- 701 square miles (revised).

Records available.- October 1928 to September 1937.

Extremes.- Maximum discharge during year, 9,560 second-feet Aug. 29 (gage height, 15.78 feet); minimum, 143 second-feet Oct. 7; minimum gage height, 2.48 feet Aug. 22. 1928-37: Maximum discharge, 16,900 second-feet Dec. 3, 1934 (gage height, 20.8 feet, from floodmarks); minimum observed, 10 second-feet Sept. 20, 1932 (gage height, 1.50 feet).

Remarks.- Records good. Previously published records of "discharge per square mile" and "run-off depth in inches" are greatly in error owing to error in figure used to represent drainage area.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 5		Jan. 6 to Sept. 30	
2.5	146	2.5	188
3.0	308	3.0	350
3.5	515	4.0	740
4.0	740	5.0	1,200
5.0	1,190	6.0	1,700
6.0	1,650	8.0	2,850
7.0	2,150	10.0	4,165
9.0	3,350	12.0	5,700
11.0	4,700	14.0	7,530
		16.0	9,800

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	248	194	269	845	5,230	942	635	1,940	282	575	485	4,090
2	830	194	279	2,390	2,650	1,010	615	1,300	266	575	970	1,700
3	650	197	350	3,600	1,990	1,200	575	1,060	296	464	695	1,010
4	290	194	378	4,350	1,450	1,250	556	920	494	326	675	675
5	216	200	362	4,630	1,200	1,120	893	808	422	296	445	536
6	178	382	331	4,980	1,150	988	4,200	830	408	343	364	1,920
7	149	338	382	2,800	1,080	875	3,220	920	400	498	285	2,920
8	158	272	988	2,490	1,150	875	3,630	808	340	655	253	3,440
9	262	262	1,830	2,550	1,120	1,100	2,760	695	989	460	228	3,560
10	1,190	245	1,260	1,830	1,490	1,180	1,550	635	882	319	206	2,460
11	1,650	232	1,660	1,400	2,340	920	1,250	575	556	260	194	852
12	1,280	334	3,840	1,180	2,170	808	988	556	445	228	442	655
13	762	928	4,560	1,030	1,350	740	852	536	390	206	830	575
14	466	1,240	3,780	942	1,250	718	785	536	330	337	1,420	490
15	335	898	1,360	942	1,400	846	740	655	279	581	875	437
16	323	574	1,570	1,080	1,450	1,640	762	695	260	350	575	400
17	672	419	2,330	1,270	1,350	2,080	830	655	276	253	326	372
18	740	358	2,630	1,940	1,200	1,480	762	536	343	357	256	372
19	628	319	1,790	2,860	1,030	1,120	675	471	404	364	224	375
20	411	297	1,240	3,630	942	1,010	635	441	430	285	200	361
21	319	301	1,550	3,370	1,070	920	595	418	460	203	200	326
22	276	297	1,280	3,500	1,700	852	615	397	354	224	188	309
23	252	294	898	3,590	2,330	762	740	386	276	266	363	292
24	241	276	740	1,670	1,820	718	740	382	250	240	836	285
25	228	279	672	1,200	1,220	898	2,170	386	234	197	1,230	279
26	222	335	628	2,480	1,100	1,060	4,300	357	224	262	4,740	276
27	216	342	596	3,140	965	942	4,980	347	215	3,220	7,060	272
28	206	316	574	2,190	920	762	5,970	336	1,300	1,500	8,810	263
29	203	283	564	5,530	-	695	6,960	343	1,130	853	9,440	260
30	194	272	556	5,880	-	655	6,220	319	740	449	7,820	256
31	209	-	574	5,700	-	635	-	292	-	316	6,480	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	14,004	1,650	149	452	0.645	0.74
November	11,072	1,240	194	369	.526	.59
December	39,821	4,560	269	1,285	1.83	2.11
Calendar year 1936	430,154	8,740	111	1,175	1.68	*22.87
January	84,989	5,880	845	2,742	3.91	4.51
February	44,117	5,230	920	1,576	2.25	2.34
March	30,801	2,080	635	994	1.42	1.64
April	60,203	6,960	556	2,007	2.86	3.19
May	19,535	1,940	292	630	.899	1.04
June	13,675	1,300	215	456	.650	.73
July	15,462	3,220	197	499	.712	.82
August	57,115	9,440	188	1,842	2.63	3.03
September	30,018	4,090	256	1,001	1.43	1.60
Water year 1936-37	420,812	9,440	149	1,153	1.64	22.34

*Computed on basis of revised figure for drainage area.

Tar River at Tarboro, N. C.

Location.- Water-stage recorder, lat. 35°53'40", long. 77°32'00", at highway bridge at Tarboro, Edgecombe County. Zero of gage is 10.34 feet above mean sea level (preliminary adjustment).

Drainage area.- 2,100 square miles.

Records available.- July 1896 to December 1900, October 1931 to September 1937.

Extremes.- Maximum discharge during year, 21,500 second-feet Feb. 2 (gage height, 26.18 feet); minimum, 287 second-feet Oct. 1 (gage height, 1.86 feet).
1896-1900, 1931-37: Maximum discharge, 23,800 second-feet, revised, Dec. 6, 1934 (gage height, 27.38 feet); minimum, 36 second-feet Oct. 17, 22, 1933 (gage height, 0.45 foot).
Maximum stage known, 34.2 feet, present datum, July 27, 1919 (discharge, 37,200 second-feet, revised), from present rating curve extended above 25,000 second-feet.

Remarks.- Records good below 6,000 second-feet and fair above.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.0	325	13.0	5,840
2.5	475	15.0	7,200
3.0	645	17.0	8,700
4.0	1,010	19.0	10,600
5.0	1,430	21.0	13,050
7.0	2,350	23.0	15,960
9.0	3,410	25.0	19,300
11.0	4,600	27.0	23,000

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	373	505	838	2,250	20,400	3,460	2,100	17,200	645	2,020	4,340	16,000
2	662	475	855	2,860	21,300	3,520	2,060	16,900	610	1,700	2,200	15,600
3	930	415	1,010	4,660	20,600	3,820	2,020	14,000	575	1,520	2,150	14,200
4	1,170	445	1,170	5,970	17,900	4,120	1,880	9,800	575	1,340	1,880	10,800
5	715	430	1,250	7,060	14,300	4,240	1,700	6,360	698	970	1,610	7,200
6	505	575	1,250	7,980	10,700	4,060	2,700	4,240	910	785	1,300	4,360
7	445	1,380	1,170	9,150	8,060	3,640	5,200	3,520	732	785	950	4,360
8	382	1,430	1,660	10,000	6,300	3,300	7,200	3,190	698	855	872	5,520
9	430	1,090	2,450	9,900	5,450	3,190	8,620	2,800	680	1,010	732	6,500
10	628	855	3,520	9,240	5,140	3,360	9,900	2,400	915	950	698	6,990
11	1,430	802	3,640	8,300	5,320	3,580	9,800	2,200	1,480	750	610	7,200
12	2,450	820	3,360	6,990	5,780	3,240	8,300	1,920	1,130	522	505	6,160
13	2,350	1,560	4,960	5,710	6,160	2,750	6,430	1,740	930	475	638	4,060
14	1,610	2,200	6,360	4,600	5,900	2,550	4,540	1,610	820	475	1,250	2,600
15	1,090	2,750	7,480	3,940	5,450	2,450	3,300	1,560	785	707	1,840	2,020
16	872	2,550	8,140	3,700	5,260	3,300	2,800	1,700	628	1,840	2,300	1,610
17	2,250	1,880	8,060	3,700	5,260	4,600	2,550	1,790	785	2,300	1,740	1,340
18	2,970	1,380	8,140	4,420	5,080	5,450	2,500	1,740	802	1,970	1,050	1,170
19	2,450	1,170	7,980	5,260	4,900	5,780	2,350	1,430	1,280	1,090	e20	1,010
20	2,020	1,090	7,690	6,160	4,600	5,520	2,100	1,250	4,540	1,050	680	950
21	1,430	1,010	6,500	6,990	4,180	4,840	1,920	1,130	4,960	820	558	872
22	1,010	990	5,320	7,760	4,480	3,940	1,840	1,050	2,750	698	460	838
23	910	890	4,480	8,140	5,200	3,240	1,790	990	1,520	575	445	768
24	802	855	3,460	8,140	5,840	2,800	1,880	890	1,010	610	415	715
25	715	855	2,800	7,480	6,160	2,600	2,100	838	732	645	1,050	715
26	662	970	2,450	6,100	5,520	2,750	4,480	838	610	490	2,600	715
27	540	1,050	2,250	6,500	4,600	3,080	7,270	820	1,010	720	4,600	610
28	558	1,050	2,060	7,620	3,880	2,970	9,510	768	1,480	3,360	6,360	592
29	540	1,010	2,060	9,700	-	2,450	12,500	715	1,970	6,100	8,460	610
30	505	930	2,020	13,200	-	2,250	15,600	732	2,060	7,550	11,500	575
31	505	-	2,020	17,600	-	2,100	-	645	-	7,200	14,600	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	33,909	2,970	373	1,094	0.521	0.60
November	33,412	2,750	415	1,114	.530	.59
December	116,403	8,140	838	3,755	1.79	2.06
Calendar year 1936	1,305,245	20,000	205	3,566	1.70	23.09
January	221,080	17,600	2,250	7,132	3.40	3.92
February	223,720	21,300	3,880	7,990	3.80	3.96
March	108,950	5,780	2,100	3,515	1.67	1.92
April	146,940	15,600	1,700	4,898	2.33	2.60
May	106,766	17,200	645	3,444	1.64	1.89
June	38,320	4,960	575	1,277	.608	.68
July	51,882	7,550	475	1,674	.797	.92
August	79,213	14,600	415	2,555	1.22	1.41
September	126,660	16,000	575	4,222	2.01	2.24
Water year 1936-37	1,287,255	21,300	373	3,527	1.68	22.79

Fishing Creek near Enfield, N. C.

Location.- Water-stage recorder, lat. 36°08'55", long. 77°41'45", at bridge on U. S. Highway 301, 2,000 feet below Atlantic Coast Line Railroad bridge, 2 miles southwest of Enfield, Halifax County, and 4¾ miles below mouth of Rocky Creek.

Drainage area.- 462 square miles.

Records available.- October 1923 to September 1937.

Average discharge.- 14 years, 516 second-feet.

Extremes.- Maximum discharge during year, 5,420 second-feet Apr. 28 (gage height, 14.95 feet); minimum, 72 second-feet Oct. 1 (gage height, 0.90 foot).
1923-37: Maximum discharge, 15,200 second-feet Dec. 2, 1934 (gage height, 17.66 feet), from rating curve extended above 6,200 second-feet; minimum, about 10 second-feet Oct. 19, 1933.
Maximum stage known, 21.0 feet Apr. 19, 1910.

Remarks.- Records good except those for July 14 to Sept. 11 which were computed from graph based on once-daily gage readings and are fair. Slight diurnal fluctuation at low stages from operation of mills.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Aug. 27				Aug. 28 to Sept. 30			
1.0	83	7.0	960	1.5	112	9.0	1,255
1.5	140	9.0	1,398	2.0	166	11.0	1,835
2.0	202	11.0	1,980	3.0	284	12.0	2,325
3.0	337	13.0	2,970	5.0	545	12.7	2,765
4.0	482	14.0	3,810	7.0	860	13.3	3,190
5.0	632	15.0	5,420				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	110	110	170	716	4,310	694	497	1,170	158	196	189	2,100
2	196	105	176	1,390	2,680	774	482	790	152	189	176	1,330
3	248	106	208	2,340	1,500	886	452	647	170	176	337	590
4	158	107	267	2,650	1,000	870	422	587	302	138	365	345
5	110	116	274	2,590	838	922	437	542	267	134	228	284
6	96	138	248	1,980	806	694	1,850	662	215	108	164	296
7	91	170	254	1,720	758	632	2,770	678	202	164	152	680
8	83	152	777	1,500	838	617	2,830	572	158	176	152	2,160
9	96	141	1,060	1,250	870	904	1,850	512	196	134	128	1,800
10	359	132	758	1,040	1,300	904	1,230	482	208	122	94	932
11	790	124	758	922	1,450	694	870	422	196	98	94	475
12	482	136	2,310	774	1,190	602	678	393	170	106	94	332
13	248	415	3,040	694	854	557	602	365	176	104	116	296
14	170	742	2,780	662	838	542	557	365	164	1,300	351	248
15	136	512	1,380	632	1,000	662	527	452	130	1,850	309	212
16	128	323	822	662	1,000	1,580	542	542	124	1,580	215	194
17	215	234	1,120	796	1,190	1,810	632	452	129	694	176	177
18	512	202	1,140	1,830	1,080	1,300	542	365	134	295	94	172
19	323	182	886	2,340	822	870	482	323	140	189	94	177
20	196	176	726	2,390	726	758	452	295	164	128	94	177
21	152	170	662	1,850	774	678	422	274	196	105	94	150
22	135	170	572	1,400	1,470	632	437	254	140	176	94	138
23	128	176	497	1,040	1,550	572	497	248	120	189	128	134
24	123	170	422	838	1,080	542	467	241	116	202	497	126
25	120	176	393	742	854	678	930	222	109	140	1,300	125
26	117	202	379	1,850	790	822	3,530	215	103	105	2,590	119
27	113	248	379	2,250	694	662	5,010	202	90	790	3,810	131
28	107	228	379	1,600	662	542	5,210	196	159	2,170	3,110	112
29	110	196	393	2,970	-	497	4,170	189	379	1,080	1,350	112
30	114	182	407	4,820	-	467	2,240	182	288	422	1,140	114
31	113	- -	407	5,010	-	467	-	182	-	215	2,160	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	6,079	790	83	196	0.424	0.49
November	6,241	742	105	208	.450	.50
December	24,044	3,040	170	776	1.68	1.94
Calendar year 1936	274,434	7,040	65	750	1.62	22.07
January	53,248	5,010	632	1,718	3.72	4.29
February	32,924	4,310	662	1,176	2.55	2.66
March	23,831	1,810	467	769	1.66	1.91
April	41,617	5,210	422	1,387	3.00	3.35
May	13,021	1,170	182	420	.909	1.05
June	5,255	379	90	175	.379	.42
July	13,475	2,170	98	435	.942	1.09
August	19,895	3,810	94	642	1.39	1.60
September	14,238	2,160	112	475	1.03	1.15
Water year 1936-37	253,868	5,210	83	696	1.51	20.45

Eno River at Hillsboro, N. C.

Location.- Water-stage recorder and combination sharp-crested rectangular weir and masonry control, lat. 36°04'20", long. 79°06'30", 1,000 feet below State Highway 10 at Hillsboro, Orange County, and 2 miles below Sevenmile Creek. Prior to June 29, staff gage at same site and datum with no artificial control.

Drainage area.- 66.5 square miles.

Records available.- November 1927 to September 1937.

Extremes.- Maximum discharge during year, 2,500 second-feet Jan. 20 (gage height, 13.4 feet, from graph based on staff-gage readings); minimum daily, 8 second-feet Nov. 1-4. 1927-37: Maximum discharge, 4,650 second-feet Oct. 2, 1929 (gage height, 18.0 feet, from graph based on staff-gage readings); minimum, 1.2 second-feet Sept. 24-26, 1932.

Remarks.- Records fair except those for periods of missing gage-heights, Oct. 1-4, Oct. 11 to Nov. 22, June 18-25, Sept. 18-23, 25-30 (computed on basis of records for other stations, principally Flat River at Bahama and Dial Creek near Bahama) and periods when recorder was not operating properly, July 3, Aug. 13, 14, 23-27, Sept. 13-17, 24 (computed on basis of fragmentary gage-height record), which are poor.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to June 25				June 26 to Sept. 30			
0.8	6	3.0	235	1.5	13	3.0	142
1.0	17	5.0	495	1.7	21	4.0	302
1.3	40	7.0	770	2.0	36	5.0	472
1.6	64	9.0	1,060	2.5	78	6.0	642
2.0	105	11.0	1,590				
2.5	170						

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	8	14	518	274	78	55	93	24	17	140	197
2	22	8	17	541	164	138	50	73	22	16	28	61
3	20	8	19	810	118	183	46	68	157	14	241	42
4	18	8	18	261	105	150	44	68	38	63	39	36
5	17	12	18	167	99	138	274	64	38	202	26	37
6	16	11	18	339	93	112	623	68	36	106	22	305
7	15	10	196	430	78	99	164	60	57	68	18	655
8	14	9	235	209	82	88	118	51	306	35	18	152
9	17	9	209	144	93	82	138	46	99	26	16	93
10	20	9	362	118	112	68	88	46	78	21	26	67
11	18	9	521	93	124	64	73	49	105	19	204	54
12	16	12	456	82	105	60	68	48	60	23	290	48
13	15	40	170	82	93	56	56	47	42	23	120	41
14	14	26	93	73	88	55	78	64	37	31	283	38
15	14	20	118	170	82	53	73	56	34	20	66	35
16	17	18	196	118	78	93	64	51	36	17	41	31
17	80	16	170	99	73	99	60	48	33	15	35	29
18	50	16	118	118	68	78	54	46	46	21	32	26
19	30	15	88	313	68	73	54	40	70	17	25	24
20	24	14	73	1,370	68	68	49	35	36	15	22	24
21	22	14	60	313	400	64	73	33	38	21	26	22
22	19	14	56	248	261	64	88	30	36	34	110	22
23	17	14	50	170	138	60	64	29	38	21	35	22
24	15	14	43	118	99	64	50	34	28	16	127	21
25	13	17	42	124	88	124	628	33	22	15	151	20
26	12	19	41	170	82	78	417	30	19	29	99	20
27	11	18	39	105	78	60	196	27	18	44	114	19
28	10	17	38	183	78	56	105	32	21	29	56	19
29	10	15	50	600	-	55	235	31	16	21	76	20
30	9	14	50	235	-	54	157	28	18	19	192	20
31	9	-	255	157	-	53	-	26	-	56	115	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	610	60	9	19.7	0.296	0.34
November	434	40	8	14.5	.218	.24
December	3,823	521	14	123	1.85	2.13
Calendar year 1936	40,488.6	2,100	8	111	1.67	22.66
January	8,468	1,370	73	273	4.11	4.74
February	3,289	400	68	117	1.76	1.83
March	2,567	183	53	82.8	1.25	1.44
April	4,242	628	44	141	2.12	2.36
May	1,454	93	26	46.9	.705	.81
June	1,608	306	16	53.6	.806	.90
July	1,074	202	14	34.6	.520	.60
August	2,793	290	16	90.1	1.35	1.56
September	2,200	655	19	73.3	1.10	1.23
Water year 1936-37	32,562	1,370	8	89.2	1.34	18.18

Neuse River near Northside, N. C.

Location.- Water-stage recorder, lat. 36°02'25", long. 78°45'05", at Fish Dam Bridge, 1½ miles below Seaboard Air Line Railway bridge and 2 miles south of Northside, Granville County. Zero of gage is 226.32 feet above mean sea level (survey by Corps of Engineers, U. S. Army).

Drainage area.- 526 square miles (revised).

Records available.- July 1927 to September 1937.

Average discharge.- 10 years, 538 second-feet.

Extremes.- Maximum discharge during year, 8,750 second-feet Apr. 26; maximum gage height, 21.86 feet Apr. 27; minimum discharge, 55 second-feet July 31 (gage height, 1.49 feet).

1927-37: Maximum discharge, 26,600 second-feet Oct. 3, 1929 (gage height, 28.64 feet), from rating curve extended above 8,000 second-feet; minimum, 3.1 second-feet Sept. 20, 1932 (gage height, 0.87 foot).

Remarks.- Records fair below 4,000 second-feet and poor above. Rate of change in stage is factor in determination of discharge during floods. Considerable diurnal fluctuation from operation of power plants upstream. Low flow slightly regulated by storage in Durham Reservoir. (For diversion see Flat River at dam near Bahama.) Previously published records of "discharge per square mile" and "run-off depth in inches" are considerably in error owing to error in figures used to represent drainage area.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,360	83	69	3,090	1,950	684	435	947	182	166	519	1,860
2	754	81	66	4,280	1,440	832	319	717	191	188	419	876
3	235	89	80	4,990	948	956	285	651	294	154	1,080	667
4	148	80	84	5,560	932	900	268	651	319	244	956	552
5	139	94	84	3,640	783	783	570	634	268	352	452	435
6	107	104	81	2,940	733	684	3,280	667	344	938	352	1,990
7	91	100	328	2,760	684	634	4,660	651	185	717	170	2,750
8	115	84	1,560	2,510	700	667	1,920	585	1,010	452	139	2,240
9	369	81	774	1,270	832	866	1,130	535	687	268	146	1,030
10	651	92	850	954	1,890	700	934	402	335	204	210	717
11	568	81	1,910	849	1,370	634	717	327	667	151	819	634
12	268	113	2,560	766	917	486	634	310	618	148	2,160	552
13	154	435	1,380	717	766	402	634	310	285	168	1,860	486
14	134	335	783	717	849	377	618	327	226	360	2,140	402
15	136	187	634	750	883	486	618	435	226	302	1,040	268
16	120	121	950	951	766	1,170	684	419	210	188	535	252
17	618	108	1,640	1,170	733	799	651	302	244	149	452	226
18	502	99	1,000	3,060	684	618	568	285	244	137	419	226
19	235	99	733	3,080	667	601	568	276	344	102	410	188
20	168	97	866	3,720	651	552	552	268	310	89	402	180
21	137	97	733	5,280	1,260	618	369	252	203	86	310	206
22	129	83	618	3,600	2,320	585	502	260	185	86	148	196
23	118	88	568	1,790	1,300	601	502	235	182	92	738	199
24	110	96	502	1,040	883	568	360	226	168	92	2,270	178
25	96	99	419	883	816	733	1,330	218	163	83	4,040	178
26	91	104	377	1,520	750	667	6,000	226	142	73	4,730	161
27	97	80	385	1,170	667	469	5,160	215	142	84	4,200	151
28	86	78	360	984	667	394	3,150	216	226	134	1,920	168
29	94	67	369	3,310	-	352	1,980	216	244	131	891	180
30	97	66	344	4,060	-	419	1,690	190	180	78	1,430	171
31	83	-	562	2,610	-	535	-	148	-	62	1,480	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	8,010	1,360	83	258	0.490	0.56
November	3,421	435	66	114	.217	.24
December	21,669	2,560	66	699	1.33	1.53
Calendar year 1936	314,022	9,620	34	858	1.63	*22.19
January	74,011	5,280	717	2,387	4.54	5.23
February	27,741	2,320	651	991	1.88	1.96
March	19,802	1,170	352	639	1.21	1.40
April	41,088	6,000	268	1,370	2.60	2.90
May	12,101	947	148	390	.741	.85
June	9,024	1,010	142	301	.572	.64
July	6,478	938	62	209	.397	.46
August	36,837	4,730	139	1,188	2.26	2.61
September	18,319	2,750	151	611	1.16	1.29
Water year 1936-37	270,501	6,000	62	763	1.45	19.67

*Computed on basis of revised figure for drainage area.

Neuse River near Clayton, N. C.

Location.- Water-stage recorder, lat. 35°38'55", long. 78°24'30", at bridge 3 miles east of Clayton, Johnston County. Zero of gage is 128.12 feet above mean sea level (survey by Corps of Engineers, U. S. Army).

Drainage area.- 1,140 square miles (revised).

Records available.- July 1927 to September 1937.

Average discharge.- 10 years, 1,325 second-feet.

Extremes.- Maximum discharge during year, 9,920 second-feet Jan. 30 (gage height, 13.22 feet); minimum, 277 second-feet July 24 (gage height, 1.62 feet).
1927-37: Maximum discharge, 28,100 second-feet Oct. 3, 1929 (gage height, 21.62 feet), from rating curve extended above 14,100 second-feet; minimum, 44 second-feet Sept. 15, 1932 (gage height, 0.28 foot).

Remarks.- Records good.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.6	270	4.0	1,530
1.8	339	5.0	2,210
2.0	417	6.0	2,980
2.3	544	7.0	3,810
2.6	688	9.0	5,620
3.0	907	11.0	7,620
3.5	1,205	13.0	9,700

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,370	366	385	1,510	6,620	1,530	1,060	6,320	433	1,120	397	4,170
2	1,930	354	389	3,720	5,620	1,630	995	3,500	475	638	733	3,300
3	1,690	366	450	5,620	3,840	2,070	822	1,720	1,340	509	1,180	2,040
4	663	362	458	6,320	2,350	2,280	794	1,400	794	458	1,140	1,180
5	450	442	454	6,220	1,930	2,070	1,340	1,340	740	698	1,560	965
6	417	522	446	6,720	1,790	1,790	2,900	1,460	614	965	767	1,950
7	377	454	655	7,320	1,660	1,530	3,810	1,400	624	1,370	878	5,250
8	688	425	2,580	6,720	1,790	1,500	4,440	1,270	553	1,140	604	5,160
9	813	405	2,980	5,620	1,660	1,860	5,340	1,120	1,030	794	442	4,710
10	4,350	401	2,350	4,780	2,580	1,930	4,890	1,020	1,220	562	401	3,200
11	3,710	362	4,310	2,880	3,300	1,600	2,280	907	936	458	413	1,430
12	1,870	576	8,820	2,000	3,300	1,370	1,560	794	995	393	965	1,080
13	1,020	1,270	8,720	1,790	2,210	1,200	1,340	740	995	373	2,000	907
14	688	1,120	5,340	1,600	1,930	1,060	1,270	767	600	526	3,140	794
15	581	936	2,520	1,600	2,000	1,140	1,240	907	487	628	2,980	767
16	572	688	2,900	2,210	2,000	2,430	1,340	850	526	604	2,090	619
17	1,400	558	5,070	2,210	1,790	2,740	1,370	850	496	421	850	572
18	1,300	492	4,260	3,430	1,630	2,140	1,270	714	522	504	663	576
19	1,140	454	3,140	3,810	1,530	1,600	1,140	663	604	413	604	531
20	740	446	2,350	4,530	1,430	1,430	1,060	633	688	413	595	504
21	585	442	2,210	4,710	1,720	1,340	1,060	609	600	358	585	466
22	531	442	1,860	4,890	3,710	1,340	965	590	479	389	595	475
23	492	425	1,460	5,340	3,810	1,200	1,020	572	425	339	881	462
24	466	409	1,270	5,620	3,630	1,240	1,080	585	409	290	1,560	458
25	433	450	1,140	4,370	2,210	1,630	1,640	562	385	388	4,220	446
26	413	483	1,060	4,780	1,790	1,660	6,660	549	373	433	7,520	438
27	405	454	965	6,850	1,600	1,500	8,320	549	921	3,330	8,930	417
28	393	425	936	4,330	1,530	1,120	6,920	526	1,120	1,250	9,260	413
29	381	401	936	8,930	-	995	7,120	500	638	572	7,920	417
30	377	369	907	9,590	-	907	7,420	492	794	509	7,320	433
31	373	-	936	7,120	-	936	-	462	-	421	6,820	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	30,618	4,350	373	988	0.867	1.00
November	15,299	1,270	354	510	.447	.50
December	72,257	8,820	385	2,331	2.04	2.35
Calendar year 1936	743,708	12,300	237	2,032	1.78	*23.55
January	147,140	9,590	1,510	4,746	4.16	4.80
February	70,960	6,620	1,430	2,534	2.22	2.31
March	48,768	2,740	907	1,573	1.38	1.59
April	82,466	8,320	794	2,749	2.41	2.69
May	34,371	6,320	462	1,109	.973	1.12
June	20,816	1,340	373	694	.609	.68
July	21,256	3,330	290	686	.602	.69
August	78,013	9,260	397	2,517	2.21	2.55
September	44,130	5,250	413	1,471	1.29	1.44
Water year 1936-37	666,094	9,590	290	1,820	1.60	21.72

*Computed on basis of revised figure for drainage area.

Neuse River near Goldsboro, N. C.

Location.- Water-stage recorder, lat. 35°20'40", long. 78°01'35", a quarter of a mile above bridge on State Highway 40, 2½ miles above Stoney Creek, and 3 miles south of Goldsboro, Wayne County.

Drainage area.- 2,370 square miles (revised).

Records available.- February 1930 to September 1937.

Extremes.- Maximum discharge during year, 22,000 second-feet Feb. 3 (stage-discharge relation affected by changing stage); maximum gage height, 24.10 feet Feb. 3; minimum discharge, 522 second-feet July 26 (gage height, 2.67 feet).
1930-37: Maximum discharge, 26,300 second-feet Apr. 11, 1936 (stage-discharge relation affected by changing stage); maximum gage height, 25.3 feet Apr. 11, 1936; minimum, 85 second-feet Sept. 14, 1932 (gage height, 1.03 feet).
Maximum discharge known, 38,600 second-feet (figure published in Water-Supply Paper 782 and 802 in error) Oct. 5, 1929 (gage height, 25.3 feet, former site and datum).

Remarks.- Records good. Gage heights determined from graph based on once-daily gage readings Oct. 1, 2, May 22-27, June 5-14, July 9, 14, 15, Aug. 15-17, 21-31, and twice-daily readings Sept. 1-30; recorder not operating. Rising and falling stages are factors in the determination of discharge during floods.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,530	1,460	1,640	3,130	16,600	5,430	2,330	10,800	790	1,370	2,140	10,300
2	4,630	1,370	1,600	3,430	21,400	4,760	2,430	10,900	750	1,550	1,420	11,300
3	5,970	1,240	1,640	4,240	22,000	4,800	2,480	10,400	730	1,680	1,140	11,600
4	6,200	1,140	1,820	4,980	19,400	5,190	2,280	9,580	899	1,280	1,680	10,200
5	5,800	1,100	2,000	5,540	16,600	5,540	2,330	9,080	1,370	970	1,730	9,280
6	4,650	1,100	2,000	6,270	13,800	5,600	3,790	8,250	1,190	850	1,960	7,980
7	2,460	1,600	2,000	7,200	11,700	5,400	5,540	6,520	1,120	1,060	1,820	5,590
8	1,680	2,380	2,630	8,210	9,980	4,980	7,120	4,480	990	1,320	1,420	3,780
9	1,680	2,430	3,910	9,280	8,520	4,430	8,570	3,250	910	1,600	1,820	4,040
10	2,740	2,180	5,120	10,300	7,250	4,120	9,200	2,740	870	1,460	1,460	4,560
11	4,300	1,860	5,820	11,000	6,400	4,150	8,600	2,380	1,420	1,120	1,100	5,050
12	5,330	2,010	6,200	10,900	6,300	3,990	8,070	2,040	1,320	850	910	5,300
13	5,970	4,220	6,500	10,000	6,600	3,550	7,810	1,820	1,190	790	910	4,760
14	6,300	5,750	6,800	9,280	6,960	3,130	7,410	1,680	1,240	690	1,640	2,800
15	5,950	6,500	7,440	8,520	7,280	2,850	6,340	1,680	1,140	730	2,530	1,860
16	4,590	6,600	9,390	7,330	7,000	3,190	4,540	1,960	910	1,010	3,190	1,600
17	3,890	5,980	12,100	6,920	6,400	4,100	3,310	2,040	770	1,080	3,370	1,320
18	4,560	4,870	14,600	6,270	6,040	4,980	3,130	1,960	710	850	2,580	1,140
19	5,190	3,370	14,000	5,400	5,590	5,350	3,020	1,730	870	710	1,420	990
20	5,100	2,580	13,000	5,750	4,980	5,150	2,740	1,460	1,120	850	970	910
21	4,430	2,230	12,200	6,120	4,650	4,650	2,530	1,320	970	830	910	870
22	3,250	2,040	11,400	6,420	4,910	3,880	2,530	1,190	1,010	890	910	830
23	2,430	1,960	10,400	6,720	5,470	3,370	2,530	1,030	910	870	850	750
24	2,040	1,860	9,280	6,960	6,040	3,020	2,460	1,010	750	790	850	730
25	1,780	1,860	7,980	7,040	6,570	2,850	3,130	950	650	650	1,320	750
26	1,600	1,910	6,280	7,360	6,880	3,070	5,900	930	592	558	3,070	690
27	1,600	2,040	4,480	7,680	6,600	3,490	7,200	930	575	1,120	4,630	650
28	1,680	2,040	3,490	8,210	6,160	3,490	8,660	910	692	2,000	5,680	630
29	1,680	1,910	3,190	9,170	-	2,960	9,730	890	1,500	3,250	7,040	630
30	1,640	1,780	3,130	10,700	-	2,530	10,200	890	1,460	3,070	7,940	630
31	1,600	-	3,070	12,700	-	2,330	-	830	-	2,330	8,960	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	113,270	6,300	1,600	3,654	1.54	1.78
November	79,370	6,600	1,100	2,646	1.12	1.25
December	195,110	14,600	1,600	6,294	2.66	3.07
Calendar year 1936	1,714,238	26,300	452	4,684	1.98	*26.95
January	231,030	12,700	3,130	7,453	3.14	3.62
February	258,080	22,000	4,650	9,217	3.89	4.05
March	126,330	5,600	2,330	4,075	1.72	1.98
April	155,930	10,200	2,280	5,198	2.19	2.44
May	105,630	10,900	830	3,407	1.44	1.66
June	24,418	1,500	575	981	.414	.46
July	38,178	3,250	558	1,232	.520	.60
August	77,370	8,960	850	2,496	1.05	1.21
September	111,520	11,600	630	3,717	1.57	1.75
Water year 1936-37	1,521,236	22,000	558	4,168	1.76	23.87

*Computed on basis of revised figure for drainage area.

Neuse River at Kinston, N. C.

Location.- Water-stage recorder, lat. 35°15'30", long. 77°35'10", at Kinston, Lenoir County, 2 blocks below bridge on State Highway 11. Zero of gage is 10.80 feet above mean sea level, North Carolina State Highway benchmark.

Drainage area.- 2,690 square miles (revised).

Records available.- February 1930 to September 1937.

Extremes.- Maximum discharge during year, 21,200 second-feet Feb. 6 (gage height, 20.04 feet); minimum, 640 second-feet July 27 (gage height, 3.74 feet).
1930-37: Maximum discharge, 24,400 second-feet Apr. 14, 1936 (gage height, 20.9 feet); minimum, 124 second-feet Sept. 26, 1932 (gage height, 1.29 feet, former site and datum).
Maximum stage known, 24.6 feet, former site and datum, July 1919, (discharge, about 39,000 second-feet).

Remarks.- Records good except those below 800 second-feet and those for periods of missing gage heights, Nov. 22-27, Feb. 14-16, May 22-27, Sept. 19-30 (computed on basis of records for stations at Goldsboro), which are fair.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to July 30				July 31 to Sept. 30			
3.8	660	10.0	4,475	4.0	880	8.0	3,040
4.0	750	12.0	6,125	4.5	1,105	10.0	4,475
4.5	990	14.0	8,140	5.0	1,330	12.0	6,125
5.0	1,240	16.0	10,900	5.5	1,580	14.0	8,140
6.0	1,790	18.0	15,100	6.0	1,840	16.0	10,900
7.0	2,390	20.0	21,200	7.0	2,400	17.0	12,800
8.0	3,040						

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,850	1,850	2,090	4,020	11,400	7,680	3,040	10,300	990	1,730	3,870	7,460
2	2,970	1,730	1,970	3,950	12,800	7,680	2,900	10,600	940	1,620	2,840	8,380
3	4,250	1,560	1,910	4,020	14,800	7,150	2,900	10,900	890	1,560	2,000	9,260
4	5,200	1,460	1,970	4,250	17,900	6,580	2,900	11,200	840	1,730	1,530	10,100
5	5,870	1,340	2,090	4,720	20,500	6,300	3,110	11,400	915	1,460	1,680	10,900
6	6,300	1,290	2,270	5,440	21,200	6,300	3,740	11,400	1,400	1,160	1,950	11,100
7	6,300	1,290	2,330	6,300	20,900	6,480	4,640	11,200	1,370	990	2,170	11,100
8	5,280	1,510	2,580	7,150	19,200	6,480	5,700	10,400	1,260	1,040	2,340	10,300
9	3,110	2,210	3,180	7,790	17,300	6,480	6,670	9,000	1,120	1,290	1,840	8,260
10	2,150	2,580	3,880	8,620	15,100	6,120	7,570	6,760	1,040	1,510	1,900	6,220
11	2,840	2,450	4,800	9,260	13,200	5,620	8,620	4,800	990	1,510	1,840	5,120
12	3,670	2,210	5,620	9,970	11,200	5,200	9,540	3,460	1,260	1,260	1,480	5,200
13	4,480	2,780	6,480	10,700	9,680	4,960	9,820	2,710	1,370	940	1,240	5,440
14	5,200	4,020	7,150	11,200	8,600	4,720	9,820	2,390	1,260	965	948	5,620
15	5,870	5,280	7,570	11,400	8,400	4,180	9,680	2,210	1,290	818	1,680	5,040
16	6,580	6,120	8,020	11,400	8,200	3,950	9,400	2,150	1,240	750	2,460	3,250
17	7,150	6,580	8,870	10,900	8,140	3,950	8,380	2,210	1,120	940	3,040	2,060
18	7,050	6,960	9,970	9,970	8,140	4,250	6,480	2,390	940	1,140	3,320	1,780
19	6,670	7,050	11,600	8,740	8,140	4,880	4,800	2,270	1,060	965	3,110	1,500
20	6,220	6,120	13,200	7,460	7,790	5,360	3,950	2,090	1,510	818	2,000	1,300
21	6,040	4,560	14,400	6,760	7,350	5,780	3,530	1,850	1,790	1,140	1,330	1,200
22	5,960	3,400	14,800	6,670	6,860	5,870	3,390	1,600	1,400	1,140	1,240	1,100
23	5,200	2,800	14,800	6,760	6,480	5,440	3,460	1,500	1,190	1,040	1,150	1,000
24	3,950	2,600	14,400	7,050	6,400	4,640	3,320	1,300	1,060	965	1,060	950
25	2,970	2,400	13,700	7,250	6,480	4,020	3,320	1,200	915	890	1,100	1,000
26	2,330	2,400	12,600	7,570	6,760	3,600	4,250	1,150	795	750	1,430	900
27	2,030	2,400	11,200	8,020	7,050	3,530	5,870	1,150	728	682	2,840	850
28	2,030	2,390	9,540	8,380	7,460	3,740	7,460	1,120	660	1,240	3,950	800
29	2,030	2,390	7,350	8,870	-	3,880	8,620	1,090	705	2,580	4,720	800
30	1,970	2,270	5,620	9,540	-	3,740	9,540	1,060	1,340	3,880	5,620	800
31	1,910	-	4,480	10,300	-	3,320	-	1,020	-	4,480	6,670	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	135,430	7,150	1,850	4,369	1.62	1.87
November	94,000	7,050	1,290	3,133	1.16	1.29
December	230,440	14,800	1,910	7,434	2.76	3.18
Calendar year 1936	1,973,207	24,000	660	5,391	2.00	*27.22
January	244,430	11,400	3,950	7,885	2.93	3.38
February	317,430	21,200	6,400	11,340	4.22	4.39
March	161,880	7,680	3,320	5,222	1.94	2.24
April	176,420	9,820	2,900	5,881	2.19	2.44
May	143,880	11,400	1,020	4,641	1.73	1.99
June	33,388	1,790	660	1,113	.414	.46
July	42,983	4,480	682	1,387	.516	.59
August	74,348	6,670	948	2,398	.891	1.03
September	138,790	11,100	800	4,626	1.72	1.92
Water year 1936-37	1,793,419	21,200	660	4,913	1.83	24.78

*Computed on basis of revised figure for drainage area.

Flat River at Bahama, N. C.

Location.- Water-stage recorder, lat. 36°11'25", long. 78°53'00", at head of Lake Michie, 1½ miles above county highway bridge, 1½ miles above Dial Creek, and 1½ miles north of Bahama, Durham County. Zero of gage is 255.05 feet above mean sea level.

Drainage area.- 150 square miles.

Records available.- July 1925 to September 1937.

Average discharge.- 12 years, 146 second-feet.

Extremes.- Maximum discharge during year, 9,420 second-feet Apr. 26 (gage height, 9.56 feet); minimum, 10.1 second-feet Nov. 3, 4 (gage height, 1.29 feet).
1925-37: Maximum discharge, 13,600 second-feet Sept. 8, 1934 (gage height, 11.14 feet); minimum, 0.37 second-foot Sept. 26, 27, 1932 (gage height, 0.23 foot).

Remarks.- Records good except those for period of fragmentary gage-height record, Aug. 25-28, Sept. 12-30, which are poor.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.2	7.4	3.5	278
1.4	13.9	4.0	504
1.6	22	5.0	1,320
1.8	32	6.0	2,530
2.0	42	7.0	4,080
2.3	58	8.0	5,860
2.6	79	9.0	7,970
3.0	140		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	484	10.8	19.5	1,830	641	158	63	210	32	94	394	158
2	66	10.4	16.7	1,190	315	218	79	170	34	46	80	84
3	32	10.1	24	2,370	239	262	77	152	106	34	736	57
4	23	10.1	24	726	202	196	70	136	247	29	120	52
5	21	13.9	28	304	191	168	860	134	316	244	51	44
6	20	12.2	21	579	178	147	2,480	168	90	172	40	222
7	18.7	11.8	121	852	166	136	482	132	260	435	37	822
8	18.7	11.4	231	473	173	152	262	107	284	97	32	245
9	19.5	11.4	92	293	354	168	278	86	85	59	30	134
10	41	11.4	240	242	708	125	202	89	68	44	29	92
11	34	11.1	585	202	297	112	161	77	305	35	185	62
12	30	15.1	350	170	215	104	142	76	98	31	672	47
13	23	54	199	163	186	99	123	73	59	30	163	38
14	20	50	123	156	196	97	119	94	46	32	1,160	36
15	17.5	26	87	177	183	137	116	197	43	27	140	34
16	19.5	24	310	272	168	289	138	99	40	26	72	33
17	135	21	451	1,090	176	224	110	79	46	27	54	31
18	62	21	196	970	138	166	99	70	70	54	46	30
19	36	17.9	152	1,130	132	170	94	63	155	49	101	26
20	26	17.1	233	3,930	127	140	85	62	66	34	47	24
21	25	17.5	149	851	515	136	90	54	56	27	38	22
22	22	19.1	102	455	522	117	156	62	52	26	34	20
23	20	18.3	77	327	245	99	114	48	54	24	235	18.7
24	18.7	17.9	65	258	204	109	87	50	43	22	577	15.9
25	15.9	18.3	59	265	199	302	2,220	50	36	22	215	17.5
26	13.6	19.1	56	340	161	163	4,350	49	33	22	110	13.9
27	12.8	18.7	54	221	136	123	416	47	34	32	77	17.5
28	12.2	20	53	268	149	107	265	45	45	48	64	17.5
29	12.2	21	54	1,670	-	98	346	44	44	38	62	17.5
30	11.6	20	63	447	-	89	335	40	34	30	226	17.5
31	11.1	-	966	355	-	86	-	35	-	481	287	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,322.2	484	11.1	42.7	0.285	0.33
November	560.6	54	10.1	18.7	.125	.14
December	5,203.2	966	18.7	168	1.12	1.29
Calendar year 1936	87,103.2	4,980	8.9	238	1.59	21.59
January	22,566	3,930	156	728	4.85	5.59
February	7,118	708	127	254	1.69	1.76
March	4,697	302	86	152	1.01	1.16
April	14,439	4,350	70	481	3.21	3.58
May	2,788	210	35	89.9	.599	.69
June	2,883	316	32	96.1	.641	.72
July	2,371	481	22	76.5	.510	.59
August	6,114	1,160	29	197	1.31	1.51
September	2,449.0	822	13.9	81.6	.544	.61
Water year 1936-37	72,511.0	4,350	10.1	199	1.33	17.97

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Flat River at dam near Bahama, N. C.

Location.- Water-stage recorder, lat. 36°09'05", long. 78°50'55", just below Durham municipal dam at old Tilley mill site, 3 miles southeast of Bahama, Durham County, and 4 miles above junction with Eno River.

Drainage area.- 171 square miles.

Records available.- August 1927 to September 1937.

Average discharge.- 10 years, 185 second-feet.

Extremes.- Maximum discharge during year, 6,560 second-feet Apr. 26 (gage height, 14.10 feet); minimum, 3.3 second-feet July 29, 30, 31 (gage height, 1.06 feet); minimum daily discharge, 3.3 second-feet July 30, 31.
1927-37: Maximum discharge, 11,400 second-feet Oct. 2, 1929 (gage height, 16.72 feet); minimum, 0.14 second-foot Dec. 5, 1933 (gage height, 0.85 foot); minimum daily discharge, 0.2 second-foot Dec. 5, 1933.

Remarks.- Records good. Considerable regulation by Durham Reservoir, just above station, where a daily average of 8.5 second-feet of water was diverted during the year for Durham water supply, about 60 per cent of which was returned to Neuse River as sewage. Large diurnal fluctuation from operations of power plants.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 26						Apr. 27 to Sept. 30			
1.0	1.25	2.5	215	7.0	1,940	1.0	1.25	2.0	96
1.1	5.0	3.0	366	9.0	2,900	1.1	5.0	2.5	207
1.3	18	4.0	706	11.0	4,070	1.3	17	3.0	366
1.6	46	5.0	1,090	13.0	5,510	1.7	54	4.0	706
2.0	101								

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	35	4.1	718	719	309	106	332	101	87	62	204
2	30	28	3.7	1,250	460	318	90	216	99	99	72	235
3	36	30	3.7	2,260	342	313	72	312	41	75	211	292
4	74	40	3.7	1,250	325	318	56	315	42	71	248	250
5	32	31	3.7	455	321	317	113	297	42	71	267	127
6	37	37	3.7	626	316	315	1,750	318	26	84	143	68
7	31	38	57	886	243	216	697	318	33	96	79	138
8	79	34	29	688	326	306	379	285	87	97	71	270
9	89	38	36	414	325	321	347	222	125	106	101	260
10	62	31	34	279	399	324	323	96	94	90	90	289
11	35	39	73	332	450	245	237	108	86	75	78	244
12	30	38	215	322	169	121	296	104	78	108	185	182
13	31	29	168	300	298	91	316	111	69	104	286	266
14	60	37	263	319	242	91	315	111	93	100	402	88
15	40	33	264	323	312	117	319	103	93	105	237	82
16	52	29	279	319	311	106	314	84	95	102	259	90
17	30	32	263	342	315	112	311	101	86	88	271	80
18	27	39	266	1,260	328	125	252	112	83	40	277	79
19	40	38	253	1,080	315	117	329	119	72	35	306	59
20	39	39	156	3,380	322	238	217	114	71	37	296	78
21	38	39	262	1,290	231	218	76	113	83	35	90	85
22	39	29	269	608	302	317	100	115	92	31	55	93
23	32	37	279	433	318	316	102	103	85	35	90	86
24	36	33	213	301	315	257	67	114	97	35	227	91
25	25	16	146	332	317	199	493	110	92	35	266	79
26	35	3.7	177	397	314	116	3,940	113	82	31	265	72
27	31	4.1	152	348	295	108	627	115	74	34	270	74
28	31	4.1	124	320	228	88	362	117	90	35	235	98
29	52	3.7	118	1,600	-	95	377	112	101	26	185	92
30	30	3.7	79	669	-	287	464	73	84	3.3	269	91
31	38	-	94	413	-	311	-	99	-	3.3	229	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,269	89	25	40.9	0.239	0.28
November	868.3	40	3.7	28.9	.169	.19
December	4,291.6	279	3.7	138	.807	.93
Calendar year 1936	93,506.7	3,600	1.6	255	1.49	20.35
January	23,514	3,380	279	759	4.44	5.12
February	9,158	719	169	327	1.91	1.99
March	6,732	324	88	217	1.27	1.46
April	13,447	3,940	56	448	2.62	2.92
May	4,962	332	73	160	.936	1.08
June	2,396	125	26	79.9	.467	.52
July	1,973.6	108	3.3	63.7	.373	.43
August	6,122	402	55	197	1.15	1.33
September	4,292	292	59	143	.836	.93
Water year 1936-37	79,025.5	3,940	3.3	217	1.27	17.18

Dial Creek near Bahama, N. C.

Location.- Water-stage recorder and combination V-notch and masonry weir, lat. 36°10'50"; long. 78°51'55", three-eighths of a mile above confluence with Flat River and Lake Michie and 1½ miles northeast of Bahama, Durham County.

Drainage area.- 4.9 square miles.

Records available.- October 1925 to September 1937.

Average discharge.- 11 years (1926-1937), 4.03 second-feet.

Extremes.- Maximum discharge during year, 272 second-feet Apr. 25 (gage height, 4.13 feet), from rating curve extended above 65 second-feet; minimum, 0.19 second-foot July 19 (gage height, 0.35 foot).

1925-37: Maximum discharge, 575 second-feet Apr. 27, 1928 (gage height, 5.60 feet), from rating curve extended above second-feet; no flow at times in 1926, 1930-33.

Remarks.- Records good except those for periods of incomplete gage-height record, Oct. 1-3, 5-10, 13-17, Oct. 25 to Nov. 4 (computed on basis of graph drawn from fragmentary record), and those above 80 second-feet, which are fair. Discharge below 14 second-feet determined by use of 2-foot triangular weir, rating for which was checked by discharge measurements.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.4	0.26	2.0	14
.6	.71	2.3	27
.8	1.45	2.6	55
1.0	2.52	3.0	101
1.3	4.82	3.3	141
1.6	8.0	3.6	184

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	1.00	1.16	35	13	6.8	3.48	7.0	1.12	1.77	2.62	3.88
2	2.46	.95	1.36	44	9.0	8.0	3.41	5.9	2.15	1.16	2.40	2.22
3	1.59	.95	1.84	37	7.2	7.0	3.32	5.2	2.24	.97	14	1.79
4	1.24	1.00	1.69	14	6.8	6.1	3.52	4.64	5.4	.87	1.54	1.45
5	1.12	3.19	1.41	12	6.5	5.8	51	4.46	6.0	6.9	1.08	3.22
6	1.08	1.32	1.36	15	5.8	5.2	55	4.37	1.79	7.8	.84	24
7	1.04	1.24	15	18	5.8	4.82	12	3.79	20	2.34	.80	14
8	1.04	1.24	8.0	11	5.8	7.3	10	3.56	8.5	1.59	.74	5.1
9	1.12	1.24	5.3	8.6	16	5.4	9.7	3.33	2.71	1.20	.63	3.33
10	3.06	1.16	12	7.4	14	4.55	6.8	3.12	2.66	.97	.80	2.46
11	2.98	1.04	31	6.0	8.8	4.37	5.9	2.91	7.4	.80	1.85	2.16
12	1.74	6.0	12	5.5	7.2	4.12	5.2	2.84	2.16	.74	7.6	1.84
13	1.36	4.64	7.3	5.4	6.6	4.12	4.91	3.48	1.79	.77	3.87	1.50
14	1.28	2.52	4.91	5.1	8.9	4.12	4.73	6.1	1.50	.87	9.0	1.32
15	1.16	2.11	4.04	6.7	6.4	9.0	6.0	4.54	1.45	.66	1.84	1.24
16	1.86	1.74	13	5.3	6.3	8.3	5.6	3.12	1.69	.52	1.24	1.12
17	6.9	1.59	9.5	40	5.2	6.0	4.46	2.65	2.11	.92	.97	1.12
18	2.22	1.54	5.6	19	5.0	5.9	4.20	2.34	3.26	.74	.84	1.12
19	1.64	1.45	7.4	38	5.0	5.4	3.95	2.28	2.61	.48	.71	1.01
20	1.41	1.36	8.7	34	5.0	5.0	3.87	2.05	1.64	.58	.60	.94
21	1.28	1.36	5.2	18	24	4.55	4.90	2.00	1.36	1.04	.58	.90
22	1.32	1.32	4.20	13	14	4.04	7.0	1.84	2.70	1.04	1.82	.90
23	1.28	1.20	3.48	9.4	8.7	3.95	3.95	1.84	1.24	.60	9.3	.84
24	1.20	1.20	3.19	7.8	7.8	6.7	4.06	1.89	1.12	.48	28	.84
25	1.16	1.94	2.98	8.7	6.6	7.1	72	1.74	1.01	.43	27	.80
26	1.12	1.69	2.84	9.5	5.5	4.64	52	1.64	1.16	1.03	11	.77
27	1.08	1.32	2.84	6.4	5.2	4.29	12	1.59	2.12	3.93	5.2	.68
28	1.04	1.20	2.91	22	6.1	4.04	7.8	1.54	2.13	1.24	2.52	.71
29	1.00	1.24	3.19	44	-	3.79	16	1.41	1.08	.80	4.35	.77
30	1.00	1.20	2.91	13	-	3.56	9.6	1.28	1.76	.60	12	.71
31	1.00	-	42	14	-	3.64	-	1.20	-	4.18	9.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	74.78	26	1.00	2.41	0.492	0.57
November	50.95	6.0	.95	1.70	.347	.39
December	228.31	42	1.18	7.36	1.50	1.73
Calendar year 1936	2,809.97	151	.33	7.68	1.57	21.34
January	532.8	44	5.1	17.2	3.51	4.05
February	232.0	24	5.0	8.29	1.69	1.76
March	167.6	9.0	3.56	5.41	1.10	1.27
April	396.36	72	3.32	13.2	2.69	3.00
May	95.68	7.0	1.20	3.09	.631	.73
June	93.86	20	1.01	3.13	.639	.71
July	48.02	7.8	.43	1.55	.316	.36
August	164.84	28	.58	5.32	1.09	1.26
September	82.74	24	.68	2.76	.563	.63
Water year 1936-37	2,167.91	72	.43	5.94	1.21	16.46

Little River near Princeton, N. C.

Location.- Water-stage recorder, lat. 35°30'40", long. 78°09'30", a quarter of a mile above county bridge, three-quarters of a mile above Little Creek, and 3 miles north of Princeton, Johnston County.

Drainage area.- 229 square miles (revised).

Records available.- February 1930 to September 1937.

Extremes.- Maximum discharge during year, 3,680 second-feet Jan. 31 (gage height, 12.15 feet, from graph based on twice-daily gage readings); minimum, 16 second-feet June 27 (gage height, 0.70 foot).

1930-37: Maximum discharge, 4,030 second-feet Dec. 2, 1934 (gage height, 12.68 feet); minimum, 1.0 second-foot several times in September 1932 and on Oct. 2, 3, 1932.

Maximum stage known, 14.90 feet September 1924.

Remarks.- Records good except those for periods of incomplete gage-height record, Dec. 1-5, Jan. 28, 29, May 16-22 (computed on basis of fragmentary record and record for contentnea Creek near Wilson), which are fair. Gage heights determined from graph based on twice-daily gage readings Jan. 30 to Feb. 17. Considerable diurnal fluctuation from operation of power plant upstream.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Dec. 18				Dec. 19 to Sept. 30			
1.1	54	3.0	379	0.7	16	3.0	402
1.3	81	4.0	597	.8	23	4.0	580
1.6	127	5.0	817	1.0	42	6.0	1,000
2.0	193	7.0	1,268	1.3	81	8.0	1,500
2.5	280	9.0	1,820	1.6	128	10.0	2,280
				2.0	210	12.0	3,540
				2.5	311		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	454	80	120	435	3,010	465	254	640	53	392	268	761
2	410	96	190	487	2,490	551	236	473	43	392	215	726
3	217	80	170	600	1,500	664	190	408	50	314	249	513
4	121	85	300	660	1,010	695	167	324	61	210	260	291
5	106	88	220	620	740	618	344	269	158	153	239	189
6	68	239	191	778	660	496	1,920	268	148	106	249	150
7	67	678	328	1,070	600	434	2,500	228	161	95	126	153
8	63	572	773	1,090	700	393	1,930	195	117	103	90	345
9	225	344	865	912	680	403	1,070	177	99	103	137	391
10	509	208	754	780	802	386	888	169	70	98	112	364
11	597	155	638	700	868	358	727	134	73	81	90	282
12	633	315	726	600	720	320	539	124	63	78	81	220
13	487	1,090	1,230	542	640	288	428	118	52	56	131	164
14	378	1,200	1,570	505	740	262	352	121	129	66	117	122
15	224	838	1,590	487	802	308	308	194	95	134	96	115
16	210	550	1,570	452	680	680	299	170	73	95	100	97
17	661	375	1,780	456	580	745	297	150	56	79	77	93
18	839	262	1,820	663	505	597	276	130	49	64	76	79
19	658	208	1,500	760	487	517	240	120	55	78	66	58
20	440	179	1,090	680	471	435	207	100	52	61	82	83
21	291	166	824	640	555	397	198	95	91	114	67	65
22	193	167	620	580	843	331	217	85	89	127	29	62
23	145	184	505	505	812	283	219	55	111	102	51	61
24	133	159	435	452	685	267	175	76	78	82	57	54
25	119	168	394	419	589	386	519	56	76	45	88	52
26	117	218	358	488	492	423	1,810	54	53	119	752	23
27	117	233	330	703	396	333	1,520	64	21	140	1,300	42
28	118	198	320	1,020	419	292	1,120	62	45	588	1,140	54
29	114	166	330	2,630	-	262	1,040	58	114	1,040	1,070	56
30	105	162	340	3,470	-	207	928	44	330	1,100	1,100	60
31	82	-	340	3,470	-	221	-	66	-	544	933	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	8,901	839	63	287	1.25	1.44
November	9,453	1,200	80	315	1.38	1.54
December	22,221	1,820	120	717	3.13	3.61
Calendar year 1936	172,872	3,270	12	472	2.06	*28.04
January	27,654	3,470	419	892	3.90	4.50
February	23,476	3,010	396	838	3.66	3.81
March	13,009	745	207	420	1.83	2.11
April	20,918	2,500	167	697	3.04	3.39
May	5,227	640	44	169	.738	.85
June	2,665	330	21	88.8	.388	.43
July	6,759	1,100	45	218	.952	1.10
August	9,450	1,300	29	305	1.33	1.53
September	5,725	761	23	191	.834	.93
Water year 1936-37	155,468	3,470	21	426	1.86	25.24

*Computed on basis of revised figure for drainage area.

Contentnea Creek near Wilson, N. C.

Location.- Water-stage recorder, lat. 35°41'15", long. 77°56'50", at bridge on U. S. Highway 301, just below municipal power plant, 1 mile above Atlantic Coast Line Railroad bridge, and 3 miles southwest of Wilson, Wilson County.

Drainage area.- 236 square miles (revised).

Records available.- February 1930 to September 1937.

Extremes.- Maximum discharge during year, 4,820 second-feet Jan. 31 (gage height, 13.37 feet); minimum, 2 second-feet June 7 (gage height, 0.55 foot). Minimum daily discharge, 4 second-feet June 1 (result of regulation).
1930-37: Maximum discharge, that of Jan. 31, 1937; minimum, about 0.2 second-foot Oct. 6-15, 1932 and Nov. 24 to Dec. 26, 1933.
Maximum stage known, about 24.3 feet in September 1924.

Remarks.- Records good except those below 20 second-feet, which are poor. Extreme diurnal fluctuation from operations of power plants. Considerable storage in pond above power plant for short periods during low flows.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.7	4	4.0	810
1.0	15	5.0	1,040
1.3	39	6.0	1,275
1.6	83	7.0	1,550
2.0	173	8.0	1,950
2.5	314	9.0	2,400
3.0	490	11.0	3,450
3.5	670	13.0	4,580

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	27	123	337	3,310	354	172	756	4	34	351	726
2	278	25	254	445	2,120	424	243	516	6	84	439	693
3	286	78	168	578	1,330	530	240	386	79	63	513	483
4	15	22	279	656	1,010	617	130	315	6	16	375	300
5	88	85	280	676	805	622	266	284	48	13	262	59
6	64	97	257	783	675	531	1,180	280	9	52	123	224
7	57	362	252	917	596	424	2,650	265	18	14	31	30
8	56	604	337	993	607	354	2,900	271	48	14	33	299
9	59	529	607	950	627	344	2,300	182	13	12	79	564
10	282	329	691	851	726	353	1,420	244	13	48	72	708
11	300	286	691	706	796	344	992	92	26	32	72	408
12	359	169	580	615	732	310	772	113	82	16	31	240
13	371	516	808	542	658	273	550	54	16	12	85	152
14	302	920	1,240	457	572	258	390	76	12	13	144	31
15	25	973	1,430	425	723	257	331	145	10	117	19	31
16	185	779	1,320	420	703	428	301	196	11	64	21	31
17	291	422	1,410	444	621	696	290	179	14	29	30	76
18	507	307	1,400	659	505	741	297	143	13	32	30	81
19	568	287	1,410	778	463	706	284	124	88	33	31	37
20	443	180	1,260	814	428	509	254	107	40	34	31	78
21	301	154	914	757	467	378	248	101	91	34	32	25
22	133	154	624	603	778	319	178	100	73	34	33	18
23	30	241	440	507	899	284	254	85	13	26	32	18
24	149	83	359	431	883	264	251	86	26	23	31	18
25	24	249	321	375	744	246	339	84	24	23	31	18
26	143	148	302	401	498	375	1,730	5	46	24	282	18
27	16	262	286	694	376	370	2,070	17	16	150	600	18
28	84	261	281	894	347	313	2,080	98	38	840	707	78
29	99	162	274	2,620	-	214	1,590	92	12	1,110	972	23
30	42	121	276	3,900	-	267	1,070	48	12	1,370	1,080	21
31	77	-	277	4,510	-	240	-	5	-	812	892	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,648	568	14	182	0.771	0.89
November	8,832	973	22	294	1.25	1.40
December	19,151	1,430	123	618	2.62	3.02
Calendar year 1936	157,390	3,850	13	430	1.82	*24.77
January	28,738	4,510	337	927	3.93	4.53
February	22,999	3,310	347	821	3.48	3.62
March	12,347	741	214	398	1.69	1.95
April	25,772	2,900	130	859	3.64	4.06
May	5,429	756	5	175	.742	.86
June	907	88	4	30.2	.128	.14
July	5,178	1,370	12	167	.708	.82
August	7,464	1,080	19	241	1.02	1.18
September	5,506	726	18	184	.780	.87
Water year 1936-37	147,917	4,510	4	405	1.72	23.34

*Computed on basis of revised figure for drainage area.

Contentnea Creek at Hookerton, N. C.

Location.- Water-stage recorder, lat. 35°25'40", long. 77°35'05", at Hookerton, Green County, about 300 feet below highway bridge and 2½ miles above Wheat Swamp Creek.

Drainage area.- 789 square miles (revised).

Records available.- November 1928 to September 1937.

Extremes.- Maximum discharge during year, 7,450 second-feet Feb. 3 (gage height, 18.28 feet); minimum, 95 second-feet Sept. 30 (gage height, 2.41 feet).
1928-37: Maximum discharge, 11,100 second-feet Oct. 6, 1929 (gage height, 18.9 feet); minimum, 13 second-feet Sept. 16, 17, 1932 (gage height, 1.17 feet).
Maximum stage known, 23.3 feet, September 1928.

Remarks.- Records good except those for periods when recorder clock was stopped, Mar. 1-4, Apr. 5-7 (computed on basis of range in stage shown on recorder chart and study of graphs of similar stages in the past), which are fair. Previously published records of "discharge per square mile" and "run-off depth in inches" are greatly in error owing to error in figure used to represent drainage area (691 square miles).

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.4	94	9.0	1,140
2.7	122	10.0	1,450
3.0	152	11.0	1,900
3.5	206	12.0	2,550
4.0	265	13.0	3,450
5.0	400	14.0	4,550
6.0	555	15.0	5,770
7.0	725	16.0	7,050
8.0	925	17.0	8,400

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	845	460	707	1,040	5,400	1,960	865	4,910	241	278	1,800	1,530
2	1,610	400	635	1,090	6,790	1,700	885	4,670	212	475	1,650	1,570
3	1,960	386	635	1,140	7,320	1,650	845	4,200	184	400	1,530	1,570
4	1,650	358	725	1,220	7,050	1,800	785	3,550	168	324	1,380	1,490
5	1,220	330	785	1,280	6,270	1,960	885	2,890	259	298	1,090	1,280
6	765	337	785	1,450	5,520	2,020	1,160	2,140	241	278	885	965
7	415	386	825	1,750	4,670	2,020	1,700	1,610	304	229	689	619
8	317	555	1,020	2,020	3,980	1,960	2,140	1,380	247	200	587	460
9	291	671	1,250	2,200	3,360	1,850	2,550	1,280	206	168	400	430
10	452	785	1,450	2,410	2,980	1,700	3,070	1,190	178	157	298	415
11	689	865	1,650	2,480	2,630	1,490	3,650	1,020	173	137	259	491
12	785	905	1,850	2,480	2,480	1,340	4,090	865	173	122	259	587
13	845	1,250	2,140	2,410	2,340	1,220	3,980	707	152	132	241	653
14	805	1,700	2,340	2,270	2,270	1,120	3,650	587	147	162	241	587
15	707	2,270	2,410	2,080	2,340	1,040	3,070	555	162	152	241	415
16	671	2,410	2,550	1,900	2,340	1,060	2,480	555	162	137	259	291
17	1,270	2,340	2,980	1,700	2,340	1,190	1,850	555	147	130	265	212
18	1,800	2,270	3,360	1,650	2,340	1,340	1,380	571	137	142	212	178
19	2,200	2,080	3,650	1,650	2,340	1,490	1,090	539	152	152	173	157
20	2,200	1,750	3,870	1,700	2,200	1,610	945	475	284	221	168	162
21	1,960	1,380	3,870	1,800	2,080	1,700	845	415	460	745	152	178
22	1,610	1,040	3,760	1,900	2,140	1,650	845	372	368	725	173	157
23	1,220	845	3,550	1,960	2,200	1,530	865	344	272	619	178	142
24	865	725	3,160	1,900	2,200	1,310	825	317	247	445	157	132
25	571	707	2,710	1,800	2,340	1,140	845	304	235	317	178	118
26	460	765	2,200	1,750	2,340	1,020	1,340	291	190	241	247	109
27	491	825	1,750	1,900	2,270	965	2,340	284	152	223	400	103
28	603	805	1,420	2,200	2,140	925	3,360	259	142	583	603	102
29	653	765	1,220	2,550	-	905	4,320	229	142	1,460	925	100
30	571	765	1,120	3,070	-	885	4,790	206	157	2,140	1,220	96
31	507	-	1,040	3,870	-	865	-	235	-	2,080	1,490	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	31,008	2,200	291	1,000	1.27	1.46
November	31,130	2,410	330	1,038	1.32	1.47
December	61,417	3,870	635	1,981	2.51	2.89
Calendar year 1936	500,016	6,670	116	1,366	1.73	*23.55
January	60,620	3,870	1,040	1,955	2.48	2.86
February	94,670	7,320	2,080	3,381	4.29	4.47
March	44,415	2,020	865	1,433	1.82	2.10
April	61,445	4,790	785	2,048	2.60	2.90
May	37,505	4,910	206	1,210	1.53	1.76
June	6,284	460	137	209	.265	.30
July	13,872	2,140	122	447	.567	.65
August	18,350	1,800	152	592	.750	.86
September	15,299	1,570	96	510	.646	.72
Water year 1936-37	476,015	7,320	96	1,304	1.65	22.44

*Computed on basis of revised figure for drainage area.

Haw River near Benaja, N. C.

Location.- Water-stage recorder, lat. 36°14'55", long. 79°33'45", at site of old High Rock Mill, 500 feet above county-road crossing, half a mile upstream from county line, and 6 miles east of Benaja, Rockingham County.

Drainage area.- 168 square miles.

Records available.- October 1928 to September 1937.

Extremes.- Maximum discharge during year, 2,270 second-feet Jan. 20 (gage height, 9.64 feet); minimum, 39 second-feet Aug. 6 (gage height, 1.33 feet).
1928-37: Maximum discharge, 5,020 second-feet Oct. 3, 1929 (gage height, 13.54 feet), from rating curve extended above 3,200 second-feet; minimum, 6.3 second-feet Sept. 1, 1932 (gage height, 0.73 foot).

Remarks.- Records good except those for period when recorder clock was stopped, Dec. 11 to Jan. 15 (computed on basis of range in stage shown on recorder chart and records of Haw River and of Reedy Fork near Gibsonville), which are fair. Occasional slight diurnal fluctuation from operation of gristmills.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.4	46	3.0	302	7.0	1,380
1.6	67	3.5	414	8.0	1,700
1.8	94	4.0	536	9.0	2,046
2.0	125	4.5	666	10.0	2,430
2.3	172	5.0	800		
2.6	224	6.0	1,080		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	986	74	80	1,200	498	199	156	258	155	70	59	523
2	912	70	83	1,700	474	210	134	210	134	70	53	302
3	692	76	108	2,000	402	219	136	174	117	65	66	157
4	426	76	117	1,800	324	213	125	155	183	54	64	117
5	292	86	111	1,300	282	198	165	147	244	81	51	97
6	160	83	98	900	233	166	282	192	184	153	46	252
7	97	79	152	850	204	175	390	224	123	164	86	842
8	101	77	186	600	192	170	438	238	108	147	62	752
9	110	79	211	460	228	170	379	196	105	91	50	414
10	134	80	204	420	324	170	282	152	94	79	129	258
11	175	76	440	360	357	157	206	126	110	105	283	160
12	167	94	500	300	324	152	172	123	102	83	390	123
13	117	150	460	260	282	150	155	118	86	91	231	102
14	95	162	340	240	262	142	147	160	81	272	308	93
15	79	150	260	220	224	165	141	414	111	474	376	84
16	108	116	360	198	210	203	145	692	114	367	126	77
17	272	93	500	302	191	219	150	549	97	155	60	76
18	438	88	340	462	175	206	137	368	97	86	94	66
19	462	66	240	1,210	169	194	125	302	123	63	95	65
20	302	81	320	2,160	169	169	123	192	136	65	90	60
21	213	83	260	2,050	237	182	125	136	101	84	76	67
22	150	81	200	1,140	324	172	134	118	100	93	112	66
23	117	75	190	640	402	158	129	123	88	83	110	59
24	102	77	190	462	368	155	139	134	71	68	117	54
25	91	88	180	390	302	186	414	120	66	79	421	57
26	66	100	160	346	246	213	996	108	68	137	599	58
27	88	94	150	292	204	206	1,020	97	70	162	931	54
28	83	83	130	282	189	172	614	123	57	88	471	108
29	79	80	140	368	-	153	414	172	60	67	385	126
30	76	80	150	402	-	139	346	191	65	60	536	98
31	75	-	800	438	-	139	-	189	-	66	588	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	7,285	986	75	235	1.40	1.61
November	2,717	162	70	90.6	.539	.60
December	7,660	800	80	247	1.47	1.70
Calendar year 1936	97,548	2,160	24	267	1.59	21.61
January	23,752	2,160	198	766	4.56	5.26
February	7,796	498	169	278	1.65	1.72
March	5,562	219	139	179	1.07	1.23
April	8,299	1,020	123	277	1.65	1.84
May	6,501	692	97	210	1.25	1.44
June	3,250	244	57	108	.643	.72
July	3,722	474	54	120	.714	.82
August	7,085	931	46	229	1.36	1.57
September	5,367	842	54	179	1.07	1.19
Water year 1936-37	88,996	2,160	46	244	1.45	19.70

Haw River at Haw River, N. C.

Location.- Water-stage recorder, lat. 36°05'35", long. 79°21'40", at town of Haw River, Alamance County, 400 feet below Southern Railway bridge.

Drainage area.- 599 square miles, revised.

Records available.- October 1928 to September 1937.

Extremes.- Maximum discharge during year, 11,800 second-feet Jan. 3 (gage height, 19.53 feet); minimum, 24 second-feet Sept. 26 (gage height, 1.87 feet); minimum daily 53 second-feet Sept. 26.
1928-37: Maximum discharge, 17,000 second-feet Feb. 28, 1929 (gage height, 23.96 feet), from rating curve extended above 12,000 second-feet; minimum, 3 second-feet Sept. 5, 1930; minimum daily, 5 second-feet Sept. 6, 1930.

Remarks.- Records good. Large diurnal fluctuation from operations of power plant upstream.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,120	174	164	5,060	2,270	715	408	910	319	155	140	1,330
2	2,660	138	174	5,580	1,540	750	362	715	486	133	207	804
3	1,560	244	274	10,300	1,210	820	346	610	408	83	853	455
4	880	158	345	7,380	1,010	732	517	517	303	65	256	331
5	562	160	264	3,780	872	645	666	517	1,470	1,340	184	300
6	369	219	252	2,740	768	662	2,140	553	547	1,580	188	3,710
7	261	163	633	2,560	732	645	1,330	610	343	586	99	4,290
8	432	119	987	1,790	698	628	1,130	610	455	455	92	1,970
9	626	199	952	1,260	1,200	564	1,010	594	294	408	301	1,010
10	738	199	2,620	1,140	1,800	486	802	517	244	275	970	680
11	545	196	1,780	825	1,170	455	662	393	680	294	750	517
12	450	283	1,680	685	872	424	564	378	312	278	1,480	440
13	324	516	1,380	632	820	393	440	408	244	190	1,020	346
14	244	510	979	598	802	486	486	520	294	777	1,920	272
15	219	465	738	638	802	640	502	990	269	785	750	246
16	365	345	1,340	738	715	872	440	1,330	497	674	424	199
17	1,890	241	1,940	1,870	680	732	393	1,330	1,090	362	244	191
18	1,350	199	1,020	2,780	548	662	384	855	369	378	182	160
19	1,140	196	738	6,620	502	680	381	662	275	219	226	155
20	738	224	980	10,800	486	645	343	532	325	156	182	207
21	465	142	772	7,480	1,160	610	328	424	284	177	198	158
22	342	96	598	3,280	1,700	502	346	378	244	188	391	180
23	283	190	580	1,820	1,290	455	346	309	238	195	697	221
24	213	177	562	1,330	1,130	440	418	384	192	100	424	189
25	224	174	510	1,170	990	628	4,900	309	182	142	2,130	86
26	224	116	465	1,210	802	579	6,240	257	64	272	3,550	53
27	224	227	435	1,010	680	502	2,900	232	58	398	2,010	199
28	272	160	375	972	680	532	1,750	222	182	315	1,160	173
29	283	168	409	2,890	-	502	1,370	368	167	210	1,120	286
30	252	205	545	1,710	-	408	1,380	384	176	200	3,160	238
31	174	-	3,120	1,650	-	455	-	408	-	139	2,420	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	21,429	3,120	174	691	1.15	1.33
November	6,653	516	96	222	.371	.41
December	27,611	3,120	164	891	1.49	1.72
Calendar year 1936	358,522	10,600	22	980	1.64	*22.32
January	92,298	10,800	598	2,977	4.97	5.73
February	27,929	2,270	486	997	1.66	1.73
March	18,249	872	393	589	.983	1.13
April	33,264	6,240	328	1,109	1.85	2.06
May	17,226	1,330	222	556	.928	1.07
June	11,011	1,470	58	367	.613	.68
July	11,529	1,580	65	372	.621	.72
August	27,728	3,550	92	894	1.49	1.72
September	19,386	4,290	53	646	1.08	1.20
Water year 1936-37	314,333	10,800	53	861	1.44	19.50

*Computed on basis of revised figure for drainage area.

Haw River near Pittsboro, N. C.

Location.- Water-stage recorder, lat. 35°41'00", long. 79°05'40", about 100 feet above Robinsons Creek, 2 miles below bridge on State Highway 90, and 5 miles east of Pittsboro, Chatham County. Zero of gage is 180.06 feet above mean sea level (survey by Corps of Engineers, U. S. Army).

Drainage area.- 1,310 square miles, revised.

Records available.- November 1928 to September 1937.

Extremes.- Maximum discharge during year, 22,700 second-feet Apr. 26 (gage height, 15.95 feet); minimum, 68 second-feet June 29 (gage height, 1.93 feet); minimum daily, 169 second-feet June 28.

1928-37: Maximum discharge, 47,300 second-feet Oct. 2, 1929 (gage height, 22.1 feet); minimum, 9 second-feet Oct. 13, 1930 (gage height, 1.32 feet); minimum daily, 18 second-feet Sept. 30, Nov. 13, 1933.

Flood of August 1908 reached a stage of about 32.1 feet (discharge, 98,000 second-feet), from rating curve extended above 46,000 second-feet.

Remarks.- Records good. Large diurnal fluctuation from operation of power plants.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.0	79	4.0	1,360	10.0	9,320
2.2	120	5.0	2,300	12.0	13,110
2.4	184	6.0	3,360	14.0	17,220
2.7	325	7.0	4,600	16.0	22,700
3.0	530	8.0	6,010		
3.5	930	9.0	7,600		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,940	351	396	16,200	5,200	1,580	898	2,170	640	274	557	2,200
2	3,150	276	327	9,170	3,840	1,810	826	1,580	521	250	271	1,860
3	2,420	233	310	15,100	2,700	2,400	762	1,320	1,280	178	3,770	1,090
4	1,360	317	442	15,700	2,250	2,250	658	1,140	890	209	1,790	746
5	914	364	602	6,820	2,000	1,860	1,060	1,050	743	1,180	560	495
6	674	302	401	6,480	1,810	1,580	7,700	1,050	1,650	3,020	381	7,920
7	502	280	1,070	6,800	1,630	1,450	3,700	1,140	771	1,590	293	9,580
8	2,850	320	4,110	5,180	1,680	1,580	2,300	1,050	844	1,040	364	4,870
9	4,830	266	2,050	3,360	1,760	1,680	2,400	1,010	1,170	740	1,070	2,320
10	2,340	248	6,820	2,600	5,950	1,320	2,000	946	608	590	1,320	1,540
11	1,600	318	6,890	2,200	3,440	1,140	1,540	850	530	378	1,960	1,140
12	1,050	413	5,410	1,810	2,300	1,050	1,320	738	1,070	424	1,940	890
13	810	1,160	3,140	1,630	1,900	1,010	1,140	674	498	478	2,130	770
14	602	1,140	2,250	1,580	1,810	930	970	786	395	1,400	3,360	666
15	495	826	1,630	1,640	1,860	1,370	1,010	1,640	446	1,580	1,800	481
16	428	706	2,500	3,180	1,630	2,920	1,220	1,010	644	634	986	453
17	4,040	547	6,490	3,200	1,540	2,050	1,050	1,860	952	820	586	384
18	2,540	451	3,210	7,880	1,360	1,580	850	1,540	1,310	620	377	344
19	1,760	373	1,900	8,670	1,220	1,500	810	1,090	647	525	726	308
20	1,360	329	1,810	18,600	1,140	1,400	786	954	828	416	544	305
21	946	368	2,000	15,500	2,490	1,360	826	794	529	271	284	341
22	722	325	1,450	6,730	5,560	1,220	914	682	548	289	244	327
23	570	265	1,160	4,080	2,920	1,050	898	517	401	314	1,490	302
24	509	265	1,090	2,920	2,350	1,010	746	523	341	274	1,420	310
25	377	359	1,010	2,620	2,100	1,500	3,390	724	323	221	1,770	271
26	303	296	970	5,980	1,760	1,580	18,500	623	245	204	8,270	267
27	446	385	898	2,920	1,500	1,180	5,750	463	222	1,190	3,700	172
28	351	299	866	2,600	1,450	1,010	3,440	457	169	894	2,350	218
29	370	338	930	8,460	-	1,050	2,520	523	183	551	2,320	307
30	418	238	1,180	5,260	-	978	3,370	591	280	345	5,230	357
31	397	-	1,410	3,140	-	866	-	563	-	278	4,220	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	43,074	4,830	303	1,389	1.06	1.22
November	12,360	1,160	233	412	.315	.35
December	64,742	6,890	310	2,088	1.59	1.83
Calendar year 1936	819,949	35,200	33	2,240	1.71	*23.27
January	198,010	18,600	1,580	6,387	4.88	5.63
February	67,150	5,950	1,140	2,398	1.83	1.91
March	45,264	2,920	866	1,460	1.11	1.28
April	73,354	18,500	658	2,445	1.87	2.09
May	30,838	2,170	437	995	.760	.88
June	19,678	1,650	169	656	.501	.56
July	21,177	3,020	178	683	.521	.60
August	56,085	8,270	244	1,809	1.38	1.59
September	41,234	9,580	172	1,374	1.05	1.17
Water year 1936-37	672,964	18,600	169	1,844	1.41	19.11

*Computed on basis of revised figure for drainage area.

Cape Fear River at Lillington, N. C.

Location.- Water-stage recorder, lat. 35°24'25", long. 78°48'45", at highway bridge just below Norfolk Southern Railway bridge at Lillington, Harnett County, and 1 mile below Neill Creek. Zero of gage is 105.71 feet above mean sea level (survey by Corps of Engineers, U. S. Army).

Drainage area.- 3,440 square miles, revised.

Records available.- December 1923 to September 1937.

Average discharge.- 13 years (1924-37), 3,379 second-feet.

Extremes.- Maximum discharge during year, 34,800 second-feet Jan. 29 (gage height, 15.21 feet); minimum, 80 second-feet June 28 (gage height, 0.50 foot); minimum daily, 213 second-feet June 28.

1923-37: Maximum discharge, 101,000 second-feet Oct. 2, 1929 (gage height, 27.55 feet); minimum, 8 second-feet Oct. 8, 1926 (gage height, 0.01 foot); minimum daily, 8 second-feet Oct. 8, 1926.

Remarks.- Records below 2,000 second-feet are good; those above 2,000 second-feet and those for periods of partly or wholly missing gage heights, Oct. 10 to Nov. 19, Jan. 7, 8, 18, 19, Mar. 28-20, Sept. 23-25 (computed on basis of fragmentary gage-height record and records for Deep River at Moncure and Haw River near Pittsboro), are fair. Large diurnal fluctuation caused by operation of Buckhorn power plant, 14 miles upstream.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.0	210	3.0	1,740	11.0	19,300
1.3	350	4.0	2,980	13.0	26,200
1.6	520	5.0	4,430	15.0	34,000
2.0	790	7.0	8,260		
2.5	1,220	9.0	13,430		

Discharge, in second-feet, water year October 1936 to September 193e

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,340	800	561	17,300	14,800	3,400	1,860	6,600	766	574	1,050	6,210
2	5,560	700	945	20,200	14,200	4,310	2,010	4,210	838	480	1,680	4,890
3	4,810	750	1,010	25,600	8,640	6,890	1,720	3,260	838	660	1,220	3,220
4	2,830	700	886	30,600	6,020	7,800	1,720	2,780	1,800	243	4,040	2,300
5	1,830	800	910	19,900	4,910	6,240	1,870	2,330	1,590	892	1,710	1,260
6	1,230	900	1,110	14,300	4,430	4,750	14,100	2,520	1,860	2,320	1,410	3,110
7	896	950	1,820	19,400	3,980	3,830	12,900	2,400	1,530	2,330	860	16,700
8	1,040	850	12,500	15,900	4,590	3,540	6,880	2,270	1,150	1,900	896	12,700
9	12,200	750	8,940	9,670	4,590	4,590	7,940	2,270	1,220	980	674	7,600
10	17,000	800	13,300	7,360	12,800	4,130	7,940	1,970	1,550	1,050	1,330	4,800
11	10,000	750	22,700	5,940	11,900	3,260	4,920	1,600	1,150	868	2,070	3,120
12	5,000	950	23,900	4,590	6,620	2,720	3,540	1,630	1,110	717	2,530	2,020
13	3,000	3,000	12,500	3,830	5,000	2,460	2,920	1,230	1,110	737	3,860	1,250
14	2,200	3,000	7,610	3,470	4,430	2,330	2,520	1,330	1,070	960	5,480	1,080
15	1,800	2,200	5,340	3,260	4,280	2,460	2,400	2,130	825	1,960	4,540	988
16	1,700	1,700	10,400	4,810	3,980	7,930	3,240	3,570	630	1,420	2,960	859
17	2,800	1,300	21,300	5,480	3,540	7,640	3,540	3,540	1,060	1,190	2,140	840
18	12,000	1,000	13,200	16,200	3,190	4,920	2,780	2,780	1,020	966	846	688
19	6,000	950	6,560	14,400	2,850	4,130	2,400	2,210	1,750	572	716	724
20	4,400	904	4,910	25,200	2,720	3,540	2,150	1,660	1,370	670	952	723
21	3,400	868	4,590	32,400	6,010	3,190	1,870	1,380	1,030	523	640	545
22	2,600	817	3,830	19,500	18,600	2,960	2,190	1,290	806	473	500	478
23	2,000	740	2,850	9,940	11,600	2,720	2,460	1,080	788	602	2,310	400
24	1,600	814	2,400	6,810	6,880	2,460	2,400	972	766	460	4,610	500
25	1,300	645	2,150	5,240	5,500	3,320	3,560	845	468	296	7,360	350
26	1,100	873	2,030	16,800	4,280	4,670	25,500	1,050	598	448	14,700	251
27	1,200	790	1,860	17,500	3,470	3,470	24,400	956	275	2,760	12,800	455
28	1,300	920	1,910	10,300	3,120	2,590	11,000	934	213	3,490	8,640	450
29	1,200	957	1,690	31,900	-	2,270	6,930	827	385	2,410	7,090	424
30	1,000	764	1,970	25,600	-	2,270	9,100	946	286	1,190	10,000	462
31	900	-	2,150	13,800	-	2,050	-	1,050	-	688	10,700	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	116,236	17,000	896	3,750	1.09	1.26
November	31,942	3,000	645	1,065	.310	.35
December	197,852	23,900	581	6,382	1.86	2.14
Calendar year 1936	2,145,713	62,900	140	5,863	1.70	*22.72
January	457,200	32,400	3,260	14,750	4.29	4.95
February	186,930	18,600	2,720	6,676	1.94	2.02
March	122,860	7,930	2,050	3,963	1.15	1.33
April	178,760	25,500	1,720	5,959	1.73	1.93
May	63,820	6,600	827	2,059	.599	.69
June	29,892	1,880	213	996	.290	.32
July	34,829	3,490	296	1,124	.327	.38
August	120,334	14,700	500	3,882	1.13	1.30
September	79,397	16,700	251	2,647	.769	.86
Water year 1936-37	1,620,052	32,400	213	4,438	1.29	17.53

*Computed on basis of revised figure for drainage area.

Cape Fear River at Fayetteville, N. C.

Location.- Water-stage recorder, lat. 35°02'50", long. 78°51'35", at Fayetteville, Cumberland County, at highway bridge just below Cross Creek. Zero of gage is 20.23 feet above mean sea level (survey by Corps of Engineers, U. S. Army).

Drainage area.- 4,370 square miles, revised.

Records available.- January 1889 to May 1903, September 1928 to September 1937.

Average discharge.- 22 years (1889-1902, 1928-37), 4,850 second-feet.

Extremes.- Maximum discharge during year, 41,700 second-feet Jan. 30 (gage height, 39.1 feet); maximum gage height, 39.4 feet Jan. 30; minimum discharge not determined; minimum gage height, 9.21 feet Sept. 27; minimum daily discharge, 400 second-feet (estimated), June 28, Sept. 27.

1889-1903, 1928-37: Maximum discharge, 110,000 second-feet Oct. 4, 1929 (gage height, 63.43 feet); minimum, 73 second-feet Oct. 6, 1930; minimum daily discharge, 110 second-feet Oct. 5, 1930.

Maximum discharge known, 133,000 second-feet (estimated) Aug. 29, 1908 (gage height, about 68.0 feet, from levels run to the flood crest as witnessed by local residents).

Remarks.- Records fair above 10,000 second-feet and poor below. Lock 3, about 20 miles downstream, creates about 10 feet of backwater at Fayetteville except during floods, when lock drowns out. This backwater, combined with diurnal fluctuation from operation of Buckhorn power plant, upstream, and power plants on Rockfish Creek which enters Cape Fear River between Fayetteville and Lock 3, has made the development of a satisfactory discharge rating for medium and low stages impossible. Rate of change in stage enters into determination of discharge during floods. Graphs based on twice-daily gage readings used Apr. 13-23.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,280	1,690	*1,500	11,400	26,900	*5,500	*3,000	9,680	1,430	*750	1,430	9,850
2	9,040	1,570	*1,400	24,900	25,600	*6,500	*2,800	6,400	1,360	*600	1,980	7,020
3	9,360	1,800	*1,600	27,600	17,800	9,500	*2,600	*5,000	1,290	*750	2,180	5,100
4	5,800	1,640	*1,600	33,700	*11,000	11,400	*2,600	*4,000	1,570	*850	3,860	4,030
5	4,200	1,570	*1,800	28,900	*8,500	9,700	3,740	*3,200	2,080	*700	2,800	2,750
6	2,900	2,080	*1,800	21,900	*7,500	7,800	12,700	*3,400	1,980	1,430	1,980	1,720
7	2,180	2,510	2,400	26,500	*7,000	6,300	18,200	*3,200	2,290	2,870	1,720	14,700
8	1,980	2,400	10,400	25,000	*6,500	6,110	11,700	*3,000	2,080	2,400	1,230	14,600
9	8,710	1,980	13,300	17,700	*7,000	6,630	12,000	*3,000	2,080	1,890	1,290	8,600
10	20,500	2,180	13,300	14,000	13,600	6,760	12,200	*2,800	2,510	1,430	1,290	6,000
11	17,000	1,890	22,700	11,500	17,700	5,850	8,300	*2,400	2,180	1,230	1,640	4,400
12	11,000	2,960	32,400	9,000	11,000	4,940	*6,000	*2,200	1,720	*1,000	2,510	3,120
13	7,200	7,020	24,500	*7,000	8,500	4,550	*5,000	*2,000	1,640	*1,100	3,570	2,290
14	5,800	7,410	16,700	*6,500	*7,000	4,030	*4,600	*1,800	1,360	1,230	6,640	1,890
15	4,680	6,890	12,800	*6,000	*6,500	4,290	*4,200	2,750	900	1,570	6,690	1,640
16	4,030	5,850	17,600	*6,500	*6,000	8,220	*4,200	3,760	1,050	2,180	4,800	*1,400
17	3,350	*4,000	29,400	8,450	*5,500	11,200	5,720	4,680	1,290	1,720	3,640	*1,200
18	16,000	*3,000	26,800	15,600	*5,000	8,000	5,200	3,900	1,720	1,430	2,180	*1,100
19	9,800	*2,200	*13,000	19,100	*4,800	7,410	4,680	3,120	2,080	*1,100	1,430	*950
20	6,400	*1,900	*10,000	25,000	*4,600	6,370	*3,600	2,630	2,630	*900	1,290	*950
21	5,200	*1,800	*9,000	33,800	7,710	5,590	*3,400	2,080	2,750	*900	*1,200	*950
22	4,270	*1,700	*7,500	26,800	21,100	5,076	*3,200	1,890	*1,600	*900	*800	*600
23	3,640	*1,600	*6,500	15,900	18,900	4,680	*3,600	1,570	*1,200	*700	1,170	*700
24	2,870	*1,600	*5,500	10,800	12,400	4,290	4,160	1,500	*1,000	*700	4,890	*650
25	2,400	*1,600	*4,800	8,000	9,800	4,550	5,210	*1,300	*650	*550	6,420	*600
26	2,290	*1,500	*4,400	13,800	7,520	6,530	22,100	*1,300	*700	*460	12,800	*550
27	2,290	*1,600	*4,200	22,100	*6,000	6,240	30,000	*1,400	*700	1,170	15,800	*400
28	2,400	*1,600	*4,000	15,500	*5,500	4,680	17,400	*1,300	*400	4,290	11,100	*650
29	2,400	*1,700	*4,000	33,400	-	*3,600	11,200	*1,200	*500	3,770	10,900	*650
30	2,080	*1,700	*4,000	36,400	-	*3,200	13,000	*1,200	*550	2,510	12,700	*650
31	1,980	-	*4,000	26,800	-	*3,200	-	1,290	-	1,720	16,400	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	193,030	20,500	1,980	6,227	1.42	1.64
November	79,140	7,410	1,500	2,638	.604	.67
December	315,100	32,400	1,400	10,160	2.32	2.68
Calendar year 1936	2,922,030	72,300	400	7,984	1.83	†24.91
January	591,550	38,400	6,000	19,080	4.37	5.04
February	296,930	26,900	4,600	10,600	2.43	2.53
March	192,690	11,400	3,200	6,216	1.42	1.64
April	246,310	30,000	2,600	8,210	1.88	2.10
May	88,950	9,680	1,200	2,869	.657	.76
June	45,490	2,750	400	1,516	.347	.39
July	45,000	4,290	460	1,452	.332	.38
August	148,330	16,400	800	4,785	1.09	1.26
September	100,110	14,700	400	3,337	.764	.85
Water year 1936-37	2,342,630	38,400	400	6,418	1.47	19.94

*Stage-discharge relation indeterminate; discharge computed on basis of gage heights, 14 discharge measurements, and records for station at Lillington and Lower Little River at Linden.

†Computed on basis of revised figure for drainage area.

Reedy Fork near Gibsonville, N. C.

Location.- Water-stage recorder, lat. 36°10'30", long. 79°37'00", a quarter of a mile below Huffines Mill, 1½ miles above Buffalo Creek, and 6 miles northwest of Gibsonville, Guilford County.

Drainage area.- 133 square miles.

Records available.- September 1928 to September 1937.

Extremes.- Maximum discharge during year, 3,040 second-feet Jan. 20 (gage height, 10.11 feet), from rating curve extended above 1,400 second-feet; minimum, 4 second-feet sometime during July 2-21 (gage height, 0.35 foot); minimum daily discharge, 28 second-feet (estimated) July 4.

1928-37: Maximum discharge, 4,390 second-feet Jan. 20, 1936 (gage height, 13.28 feet), from rating curve extended above 1,400 second-feet; minimum, 0.8 second-foot Aug. 27, 1932 (gage height, 0.35 foot); minimum daily, 1.8 second-feet Aug. 24, 1930.

Remarks.- Records good except those below 15 and above 1,500 second-feet and those for period when recorder was not operating, July 2-21 (computed on basis of fragmentary gage-height record and records for stations on nearby streams, principally North Buffalo Creek near Greensboro), which are poor. Considerable diurnal fluctuation from operations of power plant upstream. Flow slightly regulated by storage for Greensboro water supply, 14 miles upstream, where an average daily discharge of 10.9 second-feet was diverted during the year.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 25						Apr. 26 to Sept. 30			
1.2	29	2.3	207	4.0	680	1.0	25	2.0	150
1.4	45	2.6	282	5.0	1,010	1.2	36	3.0	397
1.7	86	3.0	390	7.0	1,760	1.4	52	4.0	680
2.0	141	3.5	530	9.0	2,580	1.7	92	5.0	1,010

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	600	36	32	523	385	180	68	228	113	34	32	131
2	1,090	36	54	986	312	110	53	211	184	32	43	67
3	425	33	135	1,820	293	91	50	151	126	30	78	52
4	228	36	78	1,680	244	80	47	174	137	28	50	45
5	129	40	46	797	222	135	78	161	156	60	33	100
6	77	39	38	418	212	196	212	175	66	150	30	236
7	58	38	112	390	207	196	282	193	49	100	29	350
8	72	34	193	350	207	169	267	248	48	60	32	161
9	83	36	207	293	210	80	247	216	41	40	90	174
10	103	36	131	240	177	57	210	158	110	34	409	165
11	117	35	225	214	123	53	196	115	106	30	211	170
12	143	46	252	202	129	50	142	174	60	30	158	136
13	89	101	227	200	189	77	97	146	100	40	259	50
14	41	139	202	175	193	164	169	128	146	200	263	39
15	36	131	177	103	193	200	162	228	79	300	68	36
16	88	89	160	96	193	133	80	476	74	200	48	35
17	301	46	131	237	164	107	60	423	59	110	39	35
18	252	39	110	369	82	167	52	241	56	60	37	34
19	296	34	173	1,290	72	196	50	211	70	40	34	34
20	217	34	196	2,440	68	193	49	188	54	36	49	35
21	137	37	107	1,440	162	137	52	181	42	34	133	31
22	89	32	98	502	191	80	52	147	43	33	160	33
23	71	35	169	350	282	74	70	80	40	32	56	31
24	57	35	182	280	298	74	152	97	39	36	40	33
25	52	33	180	252	240	96	504	57	37	65	405	31
26	56	40	176	247	205	86	582	45	37	42	317	29
27	94	41	149	230	198	96	711	43	39	95	274	32
28	152	34	68	238	202	171	466	68	37	41	269	67
29	160	32	80	358	-	131	313	107	34	32	486	96
30	110	35	91	304	-	100	282	128	29	32	529	46
31	46	-	468	349	-	140	-	132	-	29	278	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,469	1,090	36	176	1.32	1.52
November	1,412	139	32	47.1	.354	.40
December	4,646	468	32	150	1.13	1.30
Calendar year 1936	75,739	3,710	5	207	1.56	21.18
January	17,373	2,440	96	560	4.21	4.85
February	5,653	385	68	202	1.52	1.58
March	3,819	200	50	123	.925	1.07
April	5,735	711	47	191	1.44	1.61
May	5,330	476	43	172	1.29	1.49
June	2,211	184	29	73.7	.554	.62
July	2,085	300	28	67.3	.506	.58
August	4,939	529	29	159	1.20	1.38
September	2,514	350	29	83.8	.630	.70
Water year 1936-37	61,186	2,440	28	168	1.26	17.10

Horsepen Creek at Battle Ground, N. C.

Location.- Water-stage recorder, lat. 36°08'30", long. 79°51'20", at bridge on U. S. Highway 411, three-quarters of a mile north of Battle Ground, Guilford County, and about 2½ miles above junction with Reedy Fork.

Drainage area.- 15.9 square miles.

Records available.- November 1925 to July 1931, May 1934 to September 1937.

Extremes.- Maximum discharge during year, 620 second-feet Oct. 1 (gage height, 6.17 feet), from rating curve extended above 330 second-feet; minimum, 1.8 second-feet July 18; minimum gage height, 0.64 foot Sept. 30.
1925-31, 1934-37: Maximum discharge, 980 second-feet Jan. 19, 1936 (gage height, 7.07 feet), from rating curve extended above 330 second-feet; minimum, 0.7 second-foot July 24, 1926.

Remarks.- Records fair except for period of faulty gage-heights, Jan. 15-20 (computed on basis of records for stations on nearby streams, principally Reedy Fork near Gibsonville and Buffalo Creek near Greensboro) which are poor.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	144	5.4	5.6	128	39	17	11	16	7.2	5.3	5.9	6.1
2	16	5.4	8.7	64	23	25	11	15	7.4	4.9	4.5	5.7
3	9.9	5.6	9.9	148	20	21	11	13	7.4	4.7	11	5.3
4	8.2	5.6	8.5	50	18	18	11	12	12	4.7	4.5	5.1
5	7.7	6.0	7.4	29	16	16	53	26	12	10	4.3	5.1
6	7.4	5.1	7.2	47	15	15	73	52	7.2	8.5	4.2	82
7	7.2	5.4	50	47	15	14	20	15	7.2	5.7	4.2	26
8	28	5.4	22	29	14	15	16	13	7.6	5.3	4.0	9.6
9	25	5.1	12	21	43	14	15	12	7.2	4.7	41	7.4
10	16	4.9	11	17	35	13	13	11	8.8	4.5	64	6.5
11	9.6	4.7	52	14	19	12	11	11	7.2	4.5	8.1	6.3
12	7.2	23	30	13	16	12	11	10	7.0	4.5	7.0	5.7
13	6.4	14	16	13	15	12	11	11	6.7	4.3	5.7	5.5
14	6.2	8.2	11	12	16	12	10	117	6.5	4.7	7.7	5.3
15	6.2	6.9	9.3	20	14	24	10	52	6.5	4.3	5.1	5.3
16	79	6.2	20	50	14	20	10	16	7.0	4.0	4.9	5.1
17	84	6.2	24	42	13	16	9.9	12	8.1	4.2	5.1	5.1
18	14	6.0	12	70	12	15	9.6	11	14	4.0	5.1	4.9
19	9.0	6.0	34	120	12	14	9.6	10	13	3.8	4.5	4.9
20	7.7	6.0	45	251	12	14	9.6	9.6	6.7	4.2	4.5	4.7
21	7.2	6.0	17	53	52	13	9.6	9.0	5.7	4.7	4.5	4.7
22	6.9	6.0	11	36	57	12	9.3	8.8	5.5	4.5	5.1	4.5
23	6.7	6.0	9.6	27	22	12	8.5	11	5.1	4.2	5.1	4.5
24	6.4	6.0	9.0	24	18	16	18	10	5.1	4.3	5.3	4.3
25	6.0	6.9	8.2	28	16	15	150	8.6	5.1	4.9	69	4.3
26	6.0	6.7	7.7	24	14	12	92	8.1	5.1	4.0	28	4.3
27	5.8	6.2	7.7	19	14	12	25	10	5.1	4.5	9.0	5.9
28	5.8	5.8	6.0	28	16	12	16	8.8	5.1	4.0	6.7	5.9
29	5.8	5.8	31	83	-	11	39	8.1	4.9	3.8	6.5	4.7
30	5.4	5.8	19	29	-	11	21	7.6	5.1	3.6	8.8	4.5
31	5.4	-	98	44	-	11	-	7.4	-	18	7.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	566.1	144	5.4	18.3	1.15	1.33
November	202.3	23	4.7	6.74	.424	.47
December	622.0	98	5.8	20.1	1.26	1.45
Calendar year 1936	9,552.2	598	2.5	26.1	1.64	22.33
January	1,580	251	12	51.0	3.21	3.70
February	590	57	12	21.1	1.33	1.38
March	456	25	11	14.7	.925	1.07
April	726.1	150	8.5	24.2	1.52	1.70
May	542.0	117	7.4	17.5	1.10	1.27
June	216.5	14	4.9	7.28	.458	.51
July	161.3	18	3.6	5.20	.327	.38
August	360.7	69	4.0	11.6	.730	.84
September	259.2	62	4.3	8.64	.543	.61
Water year 1936-37	6,284.2	251	3.6	17.2	1.08	14.71

Buffalo Creek near Greensboro, N. C.

Location.- Water-stage recorder, lat. 36°03'30", long. 79°43'35", at McConnell road crossing 3 miles east of Greensboro, Guilford County, and 6 miles above confluence with North Buffalo Creek.

Drainage area.- 32.8 square miles.

Records available.- August 1928 to September 1937.

Extremes.- Maximum discharge during year, 990 second-feet Jan. 19 (gage height, 7.44 feet), from rating curve extended above 720 second-feet; minimum, 4.2 second-feet Aug. 9 (gage height, 1.90 feet).
1928-37: Maximum discharge, 1,870 second-feet Feb. 28, 1929 (gage height, 8.74 feet), from rating curve extended above 720 second-feet; minimum, 0.2 second-foot Oct. 2, 1930.

Remarks.- Records poor. Discharge for periods of missing gage heights Mar. 21 to Apr. 17, May 13-19, June 29 to July 22, Aug. 21 to Sept. 14 computed on basis of records for stations on nearby streams, principally North Buffalo Creek near Greensboro and Horsepen Creek at Battle Ground. Sewage from Greensboro enters just above station.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	352	11	10	547	129	41	19	32	6.2	6	9.8	10
2	76	12	14	354	66	63	19	25	6.5	6	5.6	8
3	11	13	27	645	43	73	18	21	6.9	5	8.1	7
4	8.2	14	18	362	38	52	17	19	9.4	5	5.6	7
5	7.3	22	15	87	37	40	100	29	28	60	4.9	7
6	7.1	16	14	134	31	33	65	62	8.6	110	4.9	100
7	7.1	13	74	182	31	30	44	23	6.3	20	4.7	260
8	144	14	146	95	33	34	38	16	7.2	9	4.5	70
9	188	14	43	50	77	33	38	14	6.8	8	8.2	20
10	85	14	33	40	204	26	28	13	6.1	7	84	12
11	27	13	75	31	70	24	22	12	7.0	7	36	9
12	15	33	146	26	41	23	22	11	5.7	7	14	8
13	10	86	96	31	37	22	22	11	5.4	15	8	8
14	9.3	26	37	28	43	22	22	100	5.4	60	43	8
15	9.2	16	25	50	35	50	26	50	5.4	20	14	7.6
16	67	13	68	118	34	82	26	30	5.8	8	7.0	6.9
17	391	12	162	105	29	45	18	20	6.1	6	5.8	6.4
18	115	11	63	279	27	35	17	15	7.6	5	5.5	6.4
19	20	11	31	552	28	33	16	13	12	5	5.6	6.2
20	14	11	65	584	27	30	15	12	17	6	5.2	6.4
21	12	11	38	274	101	26	15	11	7.0	6	5	6.4
22	11	13	22	117	173	24	17	10	5.7	6	6	6.1
23	11	11	17	70	58	24	14	11	5.3	5.8	6	5.8
24	11	10	16	66	41	32	20	34	4.9	5.2	15	5.8
25	11	13	15	70	37	60	216	11	4.9	5.2	80	5.8
26	11	15	14	68	30	26	493	8.3	4.9	5.2	150	5.5
27	12	12	13	44	28	22	108	7.9	4.9	5.4	50	5.6
28	11	11	14	54	35	17	38	7.9	4.9	5.1	12	35
29	11	10	36	217	-	18	62	7.2	5	4.9	50	14
30	11	11	42	141	-	19	64	6.5	5	10	100	9.3
31	11	-	135	69	-	20	-	6.1	-	7.3	24	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,686.2	391	7.1	54.4	1.66	1.91
November	492	86	10	16.4	.500	.56
December	1,524	162	10	49.2	1.50	1.73
Calendar year 1936	21,369.1	900	3.3	58.4	1.78	24.25
January	5,480	645	26	177	5.40	6.23
February	1,563	204	27	55.8	1.70	1.77
March	1,079	82	17	34.8	1.06	1.22
April	1,639	493	14	54.6	1.66	1.85
May	638.9	100	6.1	20.6	.628	.72
June	221.9	28	4.9	7.40	.226	.25
July	441.1	110	4.9	14.2	.433	.50
August	782.4	150	4.5	25.2	.768	.89
September	673.2	260	5.5	22.4	.683	.76
Water year 1936-37	16,220.7	645	4.5	44.4	1.35	18.39

North Buffalo Creek near Greensboro, N. C.

Location.- Water-stage recorder, lat. 36°07'10", long. 79°42'35", at county-highway bridge, 3 miles above junction with Buffalo Creek and 6 miles northwest of Greensboro, Guilford County.

Drainage area.- 36.4 square miles.

Records available.- August 1928 to September 1937.

Extremes.- Maximum discharge recorded during year, 927 second-feet Apr. 25 (gage height, 6.83 feet, (a higher stage probably occurred Jan. 19, during period when recorder was not operating); minimum, 5.7 second-feet Aug. 8 (gage height, 1.75 feet).
1928-37: Maximum discharge, 1,750 second-feet Jan. 19, 1936 (gage height, 11.38 feet), from rating curve extended above 1,040 second-feet; minimum, 1.6 second-feet Aug. 28, 1932.

Remarks.- Records good except those for period when recorder was not operating, Dec. 2 to Jan. 23 (computed on basis of records for stations on nearby streams, principally Buffalo Creek near Greensboro), which are poor. Diurnal fluctuation from operation of mills except at high stages. Sewage from Greensboro and Proximity Mills enters above station.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.8	7.2	4.0	333
2.0	17.7	4.5	465
2.3	41	5.0	590
2.6	73	5.5	704
3.0	128	6.0	802
3.5	217	6.5	882

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	268	13	18	340	129	54	26	46	20	18	11	26
2	31	13	26	280	71	67	26	37	22	16	16	20
3	20	16	50	550	55	61	25	34	20	13	26	20
4	16	17	30	200	50	51	23	34	57	11	13	15
5	14	29	24	80	47	45	99	44	129	123	11	13
6	18	16	22	170	39	38	201	54	22	54	10	316
7	16	15	110	140	36	34	58	35	28	26	8.6	247
8	195	14	90	85	39	41	46	28	27	22	7.2	51
9	73	14	55	60	126	39	51	23	20	18	81	32
10	51	18	46	50	112	35	36	25	74	15	201	24
11	29	16	120	40	55	35	30	27	76	13	31	20
12	21	89	100	34	46	32	30	27	21	14	22	16
13	23	55	60	38	41	30	31	26	16	26	18	16
14	23	26	46	36	48	26	31	158	17	179	47	18
15	23	25	40	60	39	80	35	110	24	30	14	17
16	239	18	70	150	41	71	36	43	21	18	13	16
17	298	20	130	150	36	51	28	35	20	21	16	16
18	44	18	70	360	36	49	23	30	22	13	15	14
19	30	18	46	600	36	46	25	28	28	14	14	12
20	27	20	80	500	32	43	28	24	19	16	14	14
21	25	20	44	300	179	36	29	26	16	16	14	16
22	23	14	36	160	112	35	32	20	18	16	11	14
23	21	14	32	100	57	36	28	26	18	15	13	14
24	18	16	30	69	50	42	74	52	16	13	25	14
25	16	21	28	84	47	58	516	27	16	13	167	12
26	16	17	26	73	41	36	296	23	14	13	138	9.6
27	18	16	24	54	38	29	69	23	11	22	42	12
28	18	15	26	93	46	23	49	24	14	15	18	66
29	18	14	44	276	-	25	136	20	17	14	210	20
30	16	15	30	85	-	26	77	15	16	17	143	21
31	18	-	400	114	-	27	-	16	-	11	41	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,666	298	14	53.7	1.48	1.71
November	634	89	13	21.1	.580	.65
December	1,953	400	18	63.0	1.73	1.99
Calendar year 1936	26,760.7	1,350	6.3	73.1	2.01	27.33
January	5,331	600	34	172	4.73	5.45
February	1,684	179	32	60.1	1.65	1.72
March	1,301	80	23	42.0	1.15	1.33
April	2,194	516	23	73.1	2.01	2.24
May	1,140	158	15	36.8	1.01	1.16
June	839	129	11	28.0	.769	.86
July	825	179	11	26.6	.731	.84
August	1,410.8	210	7.2	45.5	1.25	1.44
September	1,121.6	316	9.6	37.4	1.03	1.15
Water year 1936-37	20,099.4	600	7.2	55.1	1.51	20.54

West Fork of Deep River near High Point, N. C.

Location.- Water-stage recorder, lat. 36°00'10", long. 79°58'40", a quarter of a mile above State highway bridge at head of High Point Reservoir, about 2 miles northwest of Jamestown and 3½ miles northeast of High Point, Guilford County.

Drainage area.- 33 square miles.

Records available.- June 1923 to September 1926, July 1928 to September 1937.

Average discharge.- 12 years (1923-26, 1928-37), 32.3 second-feet.

Extremes.- Maximum discharge during year, 1,570 second-feet Jan. 19 (gage height, 11.68 feet); minimum, 2.4 second-feet Sept. 27 (gage height, 2.43 feet).
1923-26, 1928-37: Maximum discharge, 2,570 second-feet Jan. 19, 1936 (gage height, 13.84 feet); minimum, 0.3 second-foot Sept. 1, 1932.

Remarks.- Records good. Slight diurnal fluctuation from operation of gristmill 4 miles upstream.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	367	9.9	9.9	230	82	35	19	28	11	18	6.9	12
2	28	10	19	512	47	49	19	25	11	9.7	5.7	10
3	17	10	20	656	36	47	18	22	15	8.4	6.8	9.0
4	13	10	15	123	34	39	19	21	50	28	7.3	8.2
5	12	12	12	72	32	33	110	25	27	109	6.1	7.6
6	11	10	13	157	28	28	79	44	13	94	5.7	262
7	11	10	107	100	29	26	51	22	13	43	5.0	59
8	115	11	46	59	28	31	34	19	13	17	4.8	26
9	104	11	26	47	111	26	33	18	12	13	27	19
10	44	10	23	40	77	23	26	17	10	11	32	14
11	23	9.6	97	34	40	22	23	15	13	9.9	90	13
12	16	35	69	31	34	21	21	15	7.6	9.6	15	11
13	13	26	39	34	32	21	20	17	11	8.8	8.5	10
14	12	15	27	31	36	21	20	185	7.8	9	29	9.3
15	12	13	22	90	29	53	20	144	9.2	8.8	8.2	9.3
16	235	11	38	47	28	42	21	37	10	11	6.8	10
17	144	11	42	241	25	31	18	27	12	15	6.6	5.9
18	34	11	26	134	24	28	18	22	24	9.9	6.8	8.2
19	21	10	95	946	23	26	18	20	27	7.3	6.2	7.6
20	17	10	115	374	26	27	18	18	20	8.2	16	7.3
21	16	11	45	118	160	25	18	16	11	9.9	9.3	9.6
22	14	10	30	72	120	21	18	15	9.2	9.3	7.6	7.6
23	13	10	24	52	47	21	15	25	8.4	7.9	7.1	7.3
24	13	10	22	46	38	42	28	20	8.0	7.1	11	7.3
25	12	14	19	54	33	44	526	15	8.0	16	54	7.1
26	12	12	17	47	28	27	223	14	8.2	7.6	57	6.4
27	11	10	16	35	27	23	48	13	23	7.6	19	11
28	11	9.9	20	66	33	22	35	15	50	6.8	14	12
29	11	10	70	159	-	20	48	11	11	6.6	82	11
30	10	10	49	58	-	20	36	12	21	9.1	56	9.2
31	9.6	-	351	84	-	20	-	13	-	7.3	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,381.6	367	9.6	44.6	1.35	1.56
November	362.4	35	9.6	12.1	.367	.41
December	1,523.9	351	9.9	49.2	1.49	1.72
Calendar year 1936	19,436.4	1,520	4.6	53.1	1.61	21.93
January	4,749	946	31	153	4.64	5.35
February	1,287	160	23	46.0	1.39	1.45
March	914	53	20	29.5	.894	1.03
April	1,600	526	15	53.3	1.62	1.81
May	910	185	11	29.4	.891	1.03
June	474.4	50	7.6	15.8	.479	.53
July	543.8	109	6.6	17.5	.530	.61
August	634.4	90	4.8	20.5	.621	.72
September	606.9	262	5.9	20.2	.612	.68
Water year 1936-37	14,987.4	946	4.8	41.1	1.25	16.90

Deep River near Randleman, N. C.

Location.- Water-stage recorder, lat. 35°53'40", long. 79°50'40", 500 feet below county bridge at Coltrane's mill, half a mile south of Guilford County line, and 7 miles north of Randleman, Randolph County. Zero of gage is 638.11 feet above mean sea level.

Drainage area.- 124 square miles.

Records available.- October 1928 to September 1937.

Extremes.- Maximum discharge during year, 3,610 second-feet Jan. 3 (gage height, 16.00 feet, from floodmarks); minimum, 2.6 second-feet Apr. 15 (gage-height, 1.53 feet); minimum daily, 9.0 second-feet June 27, Aug. 21.
1928-37: Maximum discharge, 8,470 second-feet Feb. 28, 1929 (gage height, 23.9 feet); minimum, 0.5 second-foot Nov. 28, 1931 (gage height, 1.41 feet); minimum daily, 1.2 second-feet Nov. 12, 1933.

Remarks.- Records good. Discharge for period when recorder was not operating, Jan. 1-3, computed from graph drawn on basis of floodmark and records for Deep River at Ramseur. Large diurnal fluctuations from operation of Coltrane's mill. Slight regulation by storage in High Point Reservoir.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,170	52	35	1,420	386	131	69	120	45	39	38	71
2	149	74	49	1,640	241	176	72	104	36	20	21	63
3	45	21	68	2,430	190	231	46	102	44	38	25	60
4	28	93	64	709	172	152	42	86	29	13	20	37
5	65	98	30	319	162	142	242	121	56	238	17	21
6	72	34	26	615	150	115	676	137	50	284	18	637
7	79	23	295	536	151	107	195	105	59	190	17	131
8	891	14	207	285	148	119	143	71	51	92	18	116
9	302	27	127	206	264	105	162	68	38	61	31	79
10	235	18	115	177	368	90	127	77	42	41	204	70
11	127	20	342	163	204	82	122	72	34	12	370	52
12	128	92	347	116	152	80	119	52	36	43	596	32
13	77	119	222	140	127	73	110	58	16	44	73	56
14	105	62	167	122	148	73	78	402	28	44	479	50
15	38	33	98	358	136	169	56	576	39	42	73	39
16	467	72	191	294	124	210	75	168	36	22	43	27
17	735	45	218	768	101	137	50	113	52	30	37	34
18	180	60	156	632	86	113	42	86	30	11	28	28
19	139	54	165	3,080	93	106	72	81	39	23	26	14
20	106	57	467	2,180	76	102	58	64	21	35	26	29
21	92	27	191	681	454	105	50	56	46	18	9.0	24
22	33	18	127	407	511	92	57	59	41	22	40	15
23	33	52	106	295	216	82	50	51	28	24	60	15
24	26	52	90	241	157	99	101	105	40	20	59	18
25	21	55	81	253	134	168	1,290	69	27	11	74	17
26	26	53	75	236	116	114	1,150	62	40	12	101	9.6
27	44	40	70	184	90	83	234	51	9.0	19	101	15
28	24	26	102	253	126	84	151	41	20	19	46	70
29	38	17	119	662	-	78	214	33	18	19	189	21
30	21	43	203	311	-	72	179	31	31	16	315	18
31	19	-	904	279	-	76	-	35	-	27	109	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,515	1,170	19	178	1.44	1.66
November	1,451	119	14	48.4	.390	.44
December	5,457	904	26	176	1.42	1.64
Calendar year 1936	76,584.5	4,390	4.9	209	1.69	23.00
January	19,992	3,080	116	645	5.20	6.00
February	5,283	454	76	189	1.52	1.58
March	3,596	231	72	116	.935	1.08
April	6,014	1,290	42	200	1.61	1.80
May	3,256	576	31	105	.847	.98
June	1,081.0	59	9.0	36.0	.290	.32
July	1,529	284	11	49.3	.398	.46
August	3,263.0	596	9.0	105	.847	.98
September	1,868.6	637	9.6	62.3	.502	.56
Water year 1936-37	58,305.6	3,080	9.0	160	1.29	17.50

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Deep River at Ramseur, N. C.

Location.- Water-stage recorder, lat. 35°44'10", long. 79°38'40", 2,000 feet below railroad station at Ramseur, Randolph County, and 1½ miles below mouth of Sandy Creek. Zero of gage is 419.50 feet above mean sea level (survey by Corps of Engineer's, U. S. Army).

Drainage area.- 346 square miles, revised.

Records available.- November 1922 to September 1937.

Average discharge.- 14 years (1923-37), 364 second-feet.

Extremes.- Maximum discharge during year, 18,500 second-feet Oct. 8 (gage height, 24.3 feet), from rating curve extended above 8,000 second-feet; minimum, 16 second-feet Nov. 10 (gage height, 0.45 foot); minimum daily, 30 second-feet June 19.
1922-37: Maximum discharge, 21,100 second-feet Sept. 19, 1928 (gage height, 25.44 feet), from rating curve extended above 7,000 second-feet; minimum, 6 second-feet several times in October and November 1931; minimum daily, 6 second-feet Oct. 20, 21, 22, 1931.

Remarks.- Records good. Discharge for period when recorder was not operating properly, Aug. 23, 24, computed from partly estimated gage-height graph. Large diurnal fluctuation from operation of power plants. Slightly regulated by storage in High Point Reservoir.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Aug. 24

0.5	21	2.0	415	7.0	3,200	15.0	9,500
.7	47	3.0	870	9.0	4,545	17.0	11,300
1.0	100	4.0	1,420	11.0	6,080	19.0	13,200
1.5	235	5.0	1,990	13.0	7,740	21.0	15,200
						23.0	17,200

Aug. 25 to Sept. 30

0.7	42	3.0	895
1.0	93	4.0	1,480
1.5	217	5.0	2,130
2.0	395	6.0	2,820

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,640	40	115	4,060	1,250	406	237	450	146	103	47	370
2	375	98	125	3,360	713	539	238	362	116	120	99	231
3	160	133	129	6,160	546	748	182	330	132	34	700	170
4	70	132	195	2,340	483	642	194	308	121	39	196	109
5	156	145	100	862	462	502	702	279	68	47	127	114
6	71	180	69	1,760	404	404	2,190	356	83	512	93	2,280
7	103	119	973	1,490	431	358	658	302	167	295	114	1,270
8	9,100	49	652	885	443	422	446	238	208	267	67	554
9	1,230	109	421	634	1,000	407	522	197	176	179	104	347
10	1,000	122	678	553	1,370	327	400	226	140	97	390	227
11	417	99	1,240	485	661	297	344	217	136	74	213	149
12	283	115	1,000	410	483	280	326	192	77	131	2,050	150
13	255	385	626	398	423	251	300	191	61	122	326	165
14	183	251	406	402	444	282	287	441	131	146	871	132
15	194	117	338	669	418	564	256	1,420	133	148	266	117
16	1,080	174	1,080	936	377	804	276	465	110	146	170	126
17	2,230	156	1,110	1,470	339	478	226	322	91	90	132	112
18	531	108	522	1,670	306	392	203	257	94	60	89	76
19	309	100	379	4,540	298	373	243	219	30	116	94	46
20	263	125	759	7,680	295	353	222	220	69	108	104	103
21	226	104	502	1,780	1,180	385	270	206	144	106	802	104
22	183	61	342	993	1,300	330	223	98	131	95	582	95
23	143	135	284	737	625	303	218	126	94	96	*340	100
24	154	126	216	602	477	315	172	295	95	58	*2,690	90
25	76	130	229	754	422	615	3,120	227	98	40	1,210	64
26	97	121	213	891	366	410	3,990	195	58	422	1,720	42
27	87	140	203	568	314	307	771	137	55	543	1,210	51
28	115	102	228	829	373	283	508	155	116	158	275	66
29	119	52	325	1,840	-	290	892	94	112	114	314	81
30	108	144	428	896	-	267	720	74	119	96	1,030	126
31	75	-	1,780	809	-	251	-	155	-	55	390	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	21,233	9,100	70	685	1.98	2.28
November	3,872	385	40	129	.373	.42
December	15,887	1,780	89	512	1.48	1.71
Calendar year 1936	217,765	10,900	16	595	1.72	*23.41
January	51,463	7,680	398	1,660	4.80	5.53
February	16,203	1,370	295	579	1.67	1.74
March	12,565	804	251	405	1.17	1.35
April	19,336	3,990	172	645	1.86	2.08
May	8,754	1,420	74	282	.815	.94
June	3,313	208	30	110	.318	.35
July	4,617	543	34	149	.431	.50
August	16,817	2,690	47	542	1.57	1.81
September	7,667	2,280	42	256	.740	.83
Water year 1936-37	181,727	9,100	30	498	1.44	19.54

*Computed on basis of revised figure for drainage area.

Deep River at Moncure, N. C.

Location.- Water-stage recorder, lat. 35°36'25", long. 79°05'10", 1½ miles northwest of Moncure, Chatham County. Zero of gage is 185.88 feet above mean sea level.

Drainage area.- 1,410 square miles, revised.

Records available.- May 1898 to December 1899, July 1930 to September 1937.

Extremes.- Maximum discharge during water year 1935-36, 27,000 second-feet Apr. 7 (gage height, 10.47 feet); minimum, 32 second-feet Oct. 21 (gage height, 0.69 foot); minimum daily, 37 second-feet Oct. 21.

Maximum discharge during water year 1936-37, 15,100 second-feet Jan. 29 (gage height, 7.48 feet); minimum, 38 second-feet July 25 (gage height, 0.74 foot); minimum daily, 45 second-feet July 25.

1898-99, 1930-37: Maximum discharge, that of Apr. 7, 1936; minimum, 13 second-feet Dec. 5, 1933 (gage height, 0.46 foot); minimum daily, 13 second-feet Dec. 5, 1933.

Remarks.- Records good above 600 second-feet and fair below except those for periods when recorder clock was stopped, Mar. 17-30, 1936, Nov. 23, 1936, to Jan. 7, 1937, which were computed on basis of range in stage shown on recorder chart and records for Deep River at Ramseur and are poor. Diurnal fluctuation from operation of power plants upstream.

Rating table, water year 1935-36, 1936-37 (gage height, in feet, and discharge, in second-feet)

0.6	23	1.6	351	4.0	3,620	8.0	17,000
.8	45	2.0	640	5.0	6,250	9.0	20,900
1.0	87	2.5	1,120	6.0	9,570	10.0	24,900
1.3	194	3.0	1,770	7.0	13,220	11.0	29,000

Discharge, in second-feet, 1935-37

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	251	283	389	383	844	1,030	1,980	734	87	293	4,890	251
2	272	277	504	443	815	960	7,460	648	205	283	1,520	218
3	227	277	328	14,800	910	960	14,700	576	236	471	788	227
4	203	208	322	18,000	10,900	1,030	14,700	610	218	626	616	218
5	222	194	377	18,600	14,300	960	5,150	608	222	1,210	450	190
6	124	203	299	15,100	11,000	920	9,080	576	135	1,010	339	96
7	65	492	299	14,000	3,900	891	25,300	592	165	560	947	73
8	172	3,260	267	14,700	2,540	862	24,500	530	750	436	2,040	149
9	194	2,150	257	14,000	2,130	752	24,200	508	522	277	7,410	208
10	169	1,030	262	10,200	3,490	691	16,800	383	560	293	5,150	1,050
11	165	708	246	4,410	3,840	4,860	11,000	443	500	383	1,540	1,730
12	161	436	283	2,450	2,540	5,480	4,820	443	743	362	862	1,360
13	85	1,500	2,030	1,770	2,610	4,070	3,110	429	616	725	716	725
14	56	5,000	4,960	1,450	16,200	2,450	2,360	370	522	345	471	396
15	77	2,100	2,720	1,400	18,600	1,590	1,950	457	471	293	436	293
16	93	1,080	1,490	2,070	18,200	1,250	1,700	389	364	288	305	257
17	169	834	1,060	2,020	13,200	7,000	1,490	328	267	853	305	246
18	153	567	920	1,560	4,570	19,000	1,310	262	283	464	277	208
19	77	464	682	11,000	3,310	17,000	1,250	288	5,220	305	251	174
20	43	443	584	15,700	2,720	12,800	1,100	257	7,540	203	316	157
21	37	450	560	15,900	2,050	3,210	1,050	277	2,140	339	293	262
22	105	406	471	7,290	1,800	2,200	1,030	283	761	293	232	267
23	182	305	450	2,130	1,700	2,000	1,110	265	3,810	288	194	328
24	146	257	478	1,620	1,580	1,900	1,420	241	11,400	288	102	165
25	68	190	429	1,280	1,450	1,800	1,140	322	6,030	283	161	149
26	108	299	464	1,120	1,340	1,700	960	257	1,880	194	165	165
27	85	299	383	1,090	1,230	1,700	815	227	960	213	232	182
28	50	288	377	1,060	1,230	7,840	862	236	679	213	1,750	199
29	138	241	364	970	1,190	9,930	872	218	383	105	1,600	105
30	334	422	464	891	-	5,370	725	236	409	2,310	734	131
31	293	-	530	891	-	2,540	-	131	-	8,540	385	-

Discharge, in second-feet, of Deep River at Moncure, N. C., 1935-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	420	262	380	6,000	6,530	1,470	882	2,630	334	182	765	2,100
2	2,340	241	380	5,500	5,850	2,080	806	1,620	310	310	514	1,190
3	1,220	236	380	8,000	3,310	3,620	806	1,270	485	146	267	900
4	600	267	400	12,000	2,250	3,840	743	1,120	677	450	298	592
5	409	246	400	3,200	1,910	2,820	1,240	990	514	299	844	351
6	283	351	260	6,000	1,740	2,050	6,100	1,010	283	299	445	1,750
7	213	464	5,000	8,510	1,590	1,550	5,340	1,120	267	222	277	2,820
8	1,290	310	4,800	6,670	2,170	1,540	2,360	960	364	322	334	2,020
9	8,300	370	1,500	3,620	2,310	2,100	3,500	788	560	396	236	1,100
10	8,700	272	3,000	3,010	7,380	1,660	3,520	691	570	383	345	920
11	3,880	267	6,000	2,540	5,170	1,270	1,910	691	506	351	499	576
12	1,860	305	5,500	1,930	2,630	1,110	1,380	640	450	383	853	465
13	980	1,100	3,000	1,650	1,880	1,030	1,210	616	471	396	2,240	293
14	761	1,210	1,400	1,490	1,650	970	1,090	624	422	267	1,850	322
15	508	910	1,200	1,490	1,740	1,180	1,020	987	282	267	1,100	299
16	796	568	5,000	2,000	1,520	4,960	1,540	2,450	262	277	990	272
17	7,630	471	6,000	3,260	1,330	3,400	1,700	1,210	316	174	472	267
18	5,620	322	2,600	7,190	1,180	1,880	1,160	797	316	108	267	293
19	1,900	402	1,500	6,250	1,100	1,590	980	666	293	126	267	241
20	1,020	357	4,000	8,860	1,090	1,440	920	576	299	368	218	90
21	797	334	2,600	11,400	4,430	1,330	900	560	288	186	218	214
22	576	272	1,200	6,050	9,570	1,310	1,060	514	322	272	322	102
23	508	280	1,000	3,110	4,820	1,120	1,220	414	322	186	2,450	63
24	500	340	800	2,220	2,450	1,040	960	402	293	99	1,850	185
25	415	400	800	2,480	1,830	2,140	3,590	370	299	45	4,790	87
26	351	400	800	10,700	1,550	2,360	10,600	402	153	259	3,550	215
27	389	380	800	8,150	1,310	1,440	9,000	470	93	374	2,920	105
28	389	340	800	4,760	1,220	1,120	2,720	457	80	1,350	2,000	199
29	283	220	1,000	14,300	-	970	2,520	429	190	691	1,920	82
30	293	300	2,200	10,800	-	940	4,310	390	182	483	2,920	224
31	310	-	4,000	4,530	-	891	-	288	-	293	2,820	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1935	4,524	334	37	146	0.104	0.12
November	24,663	5,000	190	822	.583	.65
December	23,249	4,960	246	750	.532	.61
Calendar year 1935	475,978	16,700	37	1,304	.925	*12.59
January 1936	198,298	18,600	383	6,397	4.54	5.23
February	150,189	18,600	815	5,179	3.67	3.96
March	124,746	19,000	691	4,024	2.85	3.29
April	183,944	25,300	725	6,131	4.35	4.85
May	12,148	734	131	392	.278	.32
June	48,078	11,400	87	1,603	1.14	1.27
July	22,551	8,340	105	727	.516	.59
August	35,475	7,410	102	1,144	.811	.94
September	10,179	1,730	73	339	.240	.27
Water year 1935-36	838,044	25,300	37	2,290	1.62	22.10
October 1936	53,541	8,700	213	1,727	1.22	1.41
November	12,197	1,210	220	407	.289	.32
December	68,700	6,000	260	2,216	1.57	1.81
Calendar year 1936	920,046	25,300	73	2,514	1.78	*24.26
January 1937	177,670	14,300	1,490	5,731	4.06	4.68
February	81,510	9,570	1,090	2,911	2.06	2.14
March	56,221	4,960	891	1,814	1.29	1.49
April	75,087	10,600	743	2,503	1.78	1.99
May	26,152	2,630	288	844	.599	.69
June	10,203	677	80	340	.241	.27
July	10,464	1,350	45	338	.240	.28
August	38,841	4,790	218	1,253	.889	1.02
September	18,337	2,820	63	611	.433	.48
Water year 1936-37	628,923	14,300	45	1.723	1.22	16.58

*Computed on basis of revised figure for drainage area.

East Fork of Deep River near High Point, N. C.

Location.- Water-stage recorder, lat. 36°02'15", long. 79°56'45", at highway bridge a quarter of a mile above High Point Reservoir and 6 miles northeast of High Point, Guilford County.

Drainage area.- 13.9 square miles.

Records available.- July 1928 to September 1937.

Extremes.- Maximum discharge during year, 1,570 second-feet Jan. 19 (gage height, 3.94 feet); minimum, 3.1 second-feet Aug. 8 (gage height, 0.30 foot).
1928-37: Maximum discharge, 2,170 second-feet Jan. 19, 1936 (gage height, 5.14 feet); minimum, 1.3 second-feet Dec. 17, 1930 (gage height, 0.13 foot).

Remarks.- Records between 4 and 500 second-feet are good; others are poor. Discharge for Sept. 9 interpolated.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	4.9	4.9	49	33	17	9.0	12	6.3	5.4	4.1	4.9
2	8.4	5.2	8.5	242	21	26	9.0	11	6.3	5.1	4.1	4.7
3	6.5	5.2	7.7	258	17	21	8.7	9.9	8.6	5.1	4.5	4.5
4	5.4	5.2	6.2	38	16	17	9.0	9.6	18	6.1	3.9	4.3
5	5.2	5.7	5.7	39	15	15	65	17	9.0	33	3.9	4.3
6	4.9	5.2	6.0	73	13	13	31	23	6.5	10	3.7	98
7	4.7	5.2	54	44	13	12	16	10	6.5	6.7	3.7	16
8	41	5.2	15	26	13	14	14	9.3	6.5	5.9	3.5	7.7
9	27	5.2	10	21	63	12	14	8.7	6.3	5.1	21	6.6
10	15	4.9	10	18	31	11	11	8.3	7.7	4.9	11	5.6
11	9.1	4.7	54	15	17	10	10	7.7	6.0	4.9	6.6	5.4
12	6.6	22	25	14	15	10	9.6	7.7	6.0	4.7	6.2	4.9
13	6.0	9.4	15	16	14	9.8	9.3	8.3	5.8	5.2	4.5	4.7
14	5.7	6.5	11	14	16	10	9.3	135	5.5	5.4	12	4.7
15	5.4	6.0	9.4	40	13	26	9.9	34	6.4	4.7	4.3	4.5
16	87	5.4	18	19	13	19	9.6	15	6.0	9.5	4.1	4.5
17	28	5.4	17	129	11	14	8.7	11	6.5	5.4	4.6	4.5
18	11	5.4	11	55	11	14	8.3	9.6	16	4.7	4.3	4.5
19	8.1	5.2	49	466	11	12	8.0	9.0	7.5	4.5	3.9	4.3
20	7.1	5.2	43	144	13	12	8.0	8.3	6.5	4.9	3.9	4.3
21	6.5	5.4	17	49	98	11	8.3	7.7	6.0	5.4	3.9	4.3
22	6.2	5.2	12	32	43	10	8.0	7.5	5.5	4.9	11	4.1
23	6.0	5.2	10	23	20	9.8	7.5	14	5.3	4.5	4.7	4.1
24	6.0	5.2	9.4	22	17	20	25	8.7	5.3	6.7	5.3	4.1
25	5.7	6.5	8.8	29	15	16	201	7.5	5.3	5.1	28	4.1
26	5.4	5.2	8.4	22	12	11	40	7.2	5.3	4.5	20	4.1
27	5.4	4.9	8.8	16	12	10	18	7.2	5.7	5.1	6.1	5.8
28	5.2	4.7	10	42	14	9.8	14	7.0	5.7	4.3	4.9	5.1
29	5.2	4.9	40	79	-	9.1	27	6.7	5.0	4.3	13	4.5
30	5.2	4.7	20	24	-	9.1	16	6.5	6.8	4.1	8.1	4.5
31	4.9	-	199	51	-	9.1	-	6.3	-	4.5	5.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	380.0	87	4.7	12.3	0.885	1.02
November	179.0	22	4.7	5.97	.429	.48
December	723.8	199	4.9	23.3	1.68	1.94
Calendar year 1936	8,917.0	789	3.1	24.4	1.76	23.87
January	2,109	466	14	68.0	4.89	5.64
February	600	98	11	21.4	1.54	1.60
March	419.7	26	9.1	13.5	.971	1.12
April	642.2	201	7.5	21.4	1.54	1.72
May	450.7	135	6.3	14.5	1.04	1.20
June	209.8	18	5.0	6.99	.503	.56
July	194.5	33	4.1	6.27	.451	.52
August	228.2	28	3.5	7.36	.529	.61
September	247.6	98	4.1	8.25	.594	.66
Water year 1936-37	6,384.5	466	3.5	17.5	1.26	17.07

Muddy Creek near Archdale, N. C.

Location.- Water-stage recorder, lat. 35°52'25", long. 79°52'25", 600 feet above county highway bridge, 2 miles east of Glenola brick plant, 3 miles southwest of Coltrane's mill, and 7 miles southeast of Archdale, Randolph County.

Drainage area.- 14.2 square miles.

Records available.- May 1934 to September 1937.

Extremes.- Maximum discharge during year, 1,310 second-feet Oct. 8 (gage height, 8.18 feet); minimum, 0.04 second-foot July 16, 25 (gage height, 0.13 foot, result of temporary regulation).
1934-37: Maximum discharge, 2,030 second-feet Aug. 7, 1936 (gage height, 10.10 feet); minimum, that of July 16, 25, 1937.
No flow at times during 1930.

Remarks.- Records good except those below 1 second-foot, which are poor.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	4.9	3.5	149	61	23	8.0	21	2.2	0.68	1.5	5.8
2	9.9	4.9	7.2	260	34	39	7.8	16	2.2	.55	1.7	3.8
3	5.9	4.9	10	368	27	37	7.5	13	1.8	.45	2.6	2.7
4	4.5	4.9	7.4	68	25	28	7.8	12	1.8	.41	.61	2.1
5	3.9	10	5.4	62	23	22	46	28	2.7	27	.37	2.0
6	3.5	5.4	5.4	108	19	18	86	20	2.1	16	.31	20
7	3.3	4.9	76	74	21	16	21	12	2.2	13	.28	5.7
8	529	4.7	32	46	21	20	18	9.3	3.2	9.0	.37	4.5
9	106	4.7	18	38	73	16	22	7.8	1.8	2.0	.56	4.1
10	64	4.3	21	34	58	13	13	7.0	1.6	1.3	12	2.5
11	26	3.9	68	28	29	12	11	6.0	1.3	.97	11	2.1
12	16	21	45	25	24	11	10	5.5	1.2	.89	41	1.8
13	12	18	29	31	22	11	9.3	6.0	1.1	.68	2.5	1.5
14	10	8.8	20	26	26	11	8.6	126	.97	.75	21	1.2
15	9.4	6.9	17	82	19	40	9.1	57	.97	1.6	3.0	1.1
16	192	5.2	48	47	19	30	11	20	1.4	.68	1.4	.89
17	124	4.7	42	137	15	18	8.0	13	4.8	.55	.97	.82
18	26	4.7	24	74	15	17	7.3	9.9	1.7	.75	.82	.82
19	18	4.3	41	389	14	15	7.0	8.3	1.4	.50	.61	.75
20	14	4.3	58	323	15	18	6.5	6.8	1.2	.45	.55	.68
21	12	4.5	25	80	92	16	6.5	6.0	.97	.68	.50	.61
22	11	4.5	20	57	44	12	6.2	5.2	.75	.75	6.6	.55
23	9.6	4.1	16	42	26	11	5.0	7.0	.61	.50	2.4	.50
24	8.8	4.1	15	37	23	19	23	13	.55	.41	2.4	.50
25	8.0	6.6	14	49	20	26	245	5.2	.55	.37	15	.45
26	7.4	6.2	13	38	16	13	76	4.1	.50	1.5	20	.45
27	6.6	4.5	13	27	15	11	29	4.0	.84	.88	12	2.4
28	6.2	3.9	16	59	20	9.9	21	4.3	2.3	.45	3.2	22
29	5.9	3.9	36	99	-	8.8	70	3.1	.82	.37	31	2.2
30	5.6	3.9	24	41	-	8.3	35	2.5	.68	.37	44	1.5
31	4.9	-	211	57	-	8.3	-	2.4	-	.34	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,297.4	529	3.3	41.9	2.95	3.40
November	181.6	21	3.9	6.05	.426	.48
December	980.9	211	3.5	31.6	2.23	2.57
Calendar year 1936	11,835.31	652	.26	32.3	2.27	31.01
January	2,955	389	25	95.3	6.71	7.74
February	816	92	14	29.1	2.05	2.14
March	558.3	40	8.3	18.0	1.27	1.46
April	841.6	245	5.0	28.1	1.98	2.21
May	461.4	126	2.4	14.9	1.05	1.21
June	46.21	4.8	.50	1.54	.108	.12
July	84.83	27	.34	2.74	.193	.22
August	252.25	44	.28	8.14	.573	.66
September	96.02	22	.45	3.20	.225	.25
Water year 1936-37	8,571.51	529	.28	23.5	1.65	22.46

Lower Little River at Linden, N. C.

Location.- Water-stage recorder, lat. 35°16'00", long. 78°46'40", at bridge on State Highway 21, 1¾ miles, revised, west of Linden, Cumberland County, 2 miles, revised, above Stewart Creek, and 4¼ miles, revised, above mouth. Zero of gage is 71.37 feet above mean sea level (survey by Corps of Engineers, U. S. Army).

Drainage area.- 460 square miles, revised.

Records available.- November 1928 to September 1937.

Extremes.- Maximum discharge during year, 5,160 second-feet Jan. 30 (gage height, 14.83 feet); minimum, 87 second-feet July 12 (gage height, 2.54 feet).
1928-37: Maximum discharge, 10,300 second-feet Oct. 2, 1929, based on current meter measurements during period of backwater from Cape Fear River; maximum gage height, 35.5 feet Oct. 4, 1929, during period of backwater from Cape Fear River; minimum discharge, 33 second-feet Sept. 14, 1932.
Maximum stage known, 37.3 feet Sept. 21, 1928, during period of backwater from Cape Fear River (discharge, 13,000 second-feet, estimated).

Remarks.- Records good below 2,000 second-feet and poor above. Subject to backwater from floods on Cape Fear River. Considerable diurnal fluctuation, except at high stages, from operations of power plant.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.6	96	4.0	4e7	9.0	2,555
2.8	130	5.0	873	11.0	3,455
3.0	173	6.0	1,270	13.0	4,355
3.5	312	7.0	1,670	15.0	5,260

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,330	601	544	1,230	3,320	1,230	756	1,030	138	168	292	1,030
2	1,920	544	563	1,270	3,100	1,390	756	932	166	149	544	776
3	1,970	563	717	1,430	2,740	1,430	658	814	210	144	468	620
4	1,470	506	776	1,390	2,200	1,430	601	678	315	113	272	544
5	951	544	698	1,310	1,840	1,350	854	678	328	110	207	480
6	698	717	639	1,470	1,750	1,230	1,510	698	296	144	184	407
7	639	854	717	1,920	1,630	1,110	1,880	698	272	166	186	443
8	601	795	1,270	2,150	1,470	990	1,840	620	563	144	260	400
9	970	717	1,350	2,020	1,470	990	1,670	544	563	147	237	372
10	1,920	601	1,590	1,840	1,710	990	1,550	525	376	144	136	396
11	2,600	563	2,150	1,710	1,710	912	1,550	432	286	110	121	369
12	2,600	717	4,260	1,630	1,670	814	1,270	414	266	122	158	338
13	2,150	1,970	4,130	1,430	1,430	814	1,030	432	185	152	388	293
14	1,510	1,880	2,870	1,350	1,470	756	892	506	197	138	1,230	269
15	1,070	1,670	2,020	1,270	1,470	814	892	582	203	178	1,230	223
16	1,030	1,270	2,790	1,230	1,430	1,230	932	563	165	197	658	213
17	1,590	892	4,440	1,190	1,310	1,270	1,110	480	237	185	410	215
18	2,280	814	3,860	1,430	1,150	1,230	1,150	390	192	147	245	238
19	2,740	736	2,960	1,510	1,150	990	970	372	251	141	234	149
20	1,670	678	2,380	1,470	1,070	912	854	278	544	163	217	196
21	1,190	658	1,920	1,350	1,590	814	776	275	432	290	176	202
22	990	658	1,710	1,270	2,100	795	854	266	292	322	262	190
23	873	658	1,550	1,190	2,420	736	912	237	225	220	658	142
24	795	639	1,310	1,150	1,880	717	873	269	171	172	698	163
25	736	658	1,310	1,070	1,510	873	1,150	278	160	108	678	146
26	717	756	1,270	1,070	1,270	932	1,750	234	162	155	620	121
27	756	717	1,190	1,190	1,190	892	1,880	368	117	180	1,030	185
28	873	658	1,190	1,350	1,150	776	1,430	338	134	472	951	169
29	795	563	1,190	4,130	-	698	1,150	109	162	407	1,710	134
30	736	582	1,190	5,030	-	658	1,030	104	153	306	1,430	136
31	678	-	1,190	4,440	-	658	-	101	-	203	1,590	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	41,848	2,740	601	1,350	2.93	3.38
November	24,179	1,970	506	806	1.75	1.95
December	55,744	4,440	544	1,798	3.91	4.51
Calendar year 1936	395,526	5,500	103	1,081	2.35	*31.99
January	53,490	5,030	1,070	1,725	3.75	4.32
February	48,200	3,320	1,070	1,721	3.74	3.90
March	30,431	1,430	658	982	2.13	2.46
April	34,510	1,880	601	1,150	2.50	2.79
May	14,245	1,030	101	460	1.00	1.15
June	7,761	563	117	259	.563	.63
July	5,797	472	108	187	.407	.47
August	17,480	1,710	121	564	1.23	1.42
September	9,563	1,030	121	319	.693	.77
Water year 1936-37	343,248	5,030	101	940	2.04	27.75

*Computed on basis of revised figure for drainage area.

Yadkin River at Wilkesboro, N. C.

Location.- Water-stage recorder, lat. 36°09'00", long. 81°09'00", at highway bridge connecting North Wilkesboro and Wilkesboro, Wilkes County, just below mouth of Reddies River.

Drainage area.- 493 square miles, revised.

Records available.- October 1928 to September 1937. April 1903 to June 1909 (only gage heights June 1907 to June 1909) and October 1920 to September 1928, at North Wilkesboro, 1 mile downstream. Records prior to June 1907 revised and published in Bulletin 34 of North Carolina Department of Conservation and Development.

Average discharge.- 17 years (1920-37), 760 second-feet.

Extremes.- Maximum discharge during year, 17,100 second-feet Oct. 16 (gage height, 19.17 feet); minimum, 245 second-feet Aug. 20 (gage height, 1.83 feet).

1903-9, 1920-37: Maximum discharge, about 23,000 second-feet Oct. 2, 1929 (gage height, 24.0 feet, from graph based on gage readings); minimum, 130 second-feet Jan. 31, 1934 (gage height, 1.55 feet).

Maximum stage observed, 24.5 feet July 1916.

Remarks.- Records good except those for period when recorder clock was stopped, Oct. 2-14, which were computed on basis of peak stage shown on recorder graph and records for nearby stations, principally Yadkin River at Yadkin College and South Yadkin River at Cooleemee and are fair. Slight diurnal fluctuation from operation of power plant on Reddies River 1 mile upstream.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 19						Jan. 20 to Sept. 30			
2.1	370	5.0	2,365	12.0	8,850	1.9	280	2.6	705
2.3	480	6.0	3,140	14.0	11,000	2.0	330	3.0	965
2.6	660	7.0	3,980	16.0	13,300	2.3	510	4.0	1,660
3.0	920	8.0	4,860	18.0	15,700				
4.0	1,615	10.0	6,800						

Note.- Same as preceding table above 4.9 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	600	570	414	3,460	1,700	998	718	868	608	471	377	1,290
2	550	582	492	4,160	1,480	998	724	790	607	421	336	816
3	550	600	564	3,510	1,340	1,030	738	776	715	415	376	640
4	500	586	522	2,960	1,280	1,030	698	757	601	380	432	582
5	500	810	447	1,920	1,200	1,030	998	757	682	415	346	679
6	440	642	436	1,840	1,140	998	1,140	965	601	570	386	750
7	500	606	1,260	1,800	1,100	965	965	802	578	562	421	908
8	1,400	552	920	1,580	1,100	1,030	900	776	733	556	363	1,730
9	5,500	546	692	1,370	1,380	998	965	686	594	445	377	1,030
10	2,500	564	624	1,230	1,520	932	868	698	582	431	599	776
11	900	546	654	1,120	1,280	900	816	686	562	532	668	698
12	700	673	744	1,090	1,170	900	802	679	536	557	458	608
13	600	699	718	1,370	1,140	868	796	818	510	478	657	536
14	550	606	660	1,230	1,140	868	790	3,080	611	445	504	510
15	576	552	630	1,540	1,060	932	770	1,420	536	464	380	484
16	9,840	504	660	1,510	1,030	932	770	1,030	627	403	358	464
17	7,780	546	744	1,690	965	868	724	900	889	421	385	439
18	1,800	522	660	2,360	932	868	698	809	1,400	340	403	385
19	1,230	504	952	5,960	932	828	705	770	1,810	341	385	374
20	985	498	1,230	5,390	965	835	724	724	770	421	310	380
21	855	492	985	3,380	1,340	822	718	692	627	458	372	415
22	803	474	888	2,360	1,450	796	770	667	614	427	578	391
23	855	447	784	1,940	1,200	802	724	744	542	427	774	391
24	985	492	732	1,660	1,140	816	724	796	504	397	1,790	385
25	744	458	660	1,590	1,060	835	1,100	679	490	469	1,870	374
26	712	425	648	1,450	998	764	1,140	653	490	433	1,100	352
27	712	442	642	1,310	965	776	900	676	433	490	695	415
28	680	408	673	1,340	1,060	750	828	815	445	403	549	397
29	666	414	855	2,010	-	750	932	660	464	368	457	391
30	636	403	1,060	1,590	-	757	932	614	471	385	1,570	380
31	618	-	4,800	1,620	-	744	-	608	-	358	1,860	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	46,267	9,840	440	1,492	3.03	3.49
November	16,165	810	403	539	1.09	1.22
December	26,750	4,800	414	863	1.75	2.02
Calendar year 1936	348,877	9,840	300	953	1.93	*26.27
January	70,340	6,510	1,090	2,269	4.60	5.30
February	33,067	1,700	932	1,181	2.40	2.50
March	27,420	1,030	744	885	1.80	2.08
April	25,077	1,140	698	836	1.70	1.90
May	26,415	3,080	608	852	1.73	1.99
June	19,632	1,810	433	654	1.33	1.48
July	13,683	570	340	441	.895	1.03
August	20,136	1,870	310	650	1.32	1.52
September	17,970	1,730	352	599	1.22	1.36
Water year 1936-37	342,922	9,840	310	940	1.91	25.89

*Computed on basis of revised figure for drainage area.

Yadkin River at Yadkin College, N. C.

Location.- Water-stage recorder, lat. 35°51'25", long. 80°23'25", at State highway bridge, 1½ miles south, revised, of Yadkin College, Davidson County.

Drainage area.- 2,280 square miles, revised.

Records available.- July 1928 to September 1937.

Extremes.- Maximum discharge during year, 35,700 second-feet Oct. 18 (gage height, 21.48 feet); minimum, 1,010 second-feet Aug. 6 (gage height, 0.99 foot).
1928-37: Maximum discharge, 67,800 second-feet Oct. 3, 1929 (gage height, 29.8 feet), from rating curve extended above 45,000 second-feet; minimum, 395 second-feet Sept. 20, 1932 (gage height, 0.05 foot).
Maximum stage known, 35.0 feet July 1916, from floodmarks; discharge not determined.

Remarks.- Records good. Slight diurnal fluctuation caused by operation of small power plant about 10 miles upstream.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.2	1,200	8.0	8,580
1.5	1,470	10.0	11,500
2.0	1,950	12.0	14,800
3.0	2,950	14.0	18,300
4.0	3,950	16.0	22,000
5.0	4,950	18.0	26,190
6.0	6,050	20.0	31,190

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16,500	1,800	1,600	18,700	8,090	3,750	2,750	3,450	2,200	1,950	1,950	6,060
2	5,040	1,750	1,700	14,100	6,130	3,750	2,650	3,150	2,350	1,800	1,380	4,200
3	2,780	1,800	2,000	23,900	4,950	3,750	2,650	2,950	2,400	1,700	1,340	3,150
4	2,050	1,850	2,150	30,900	4,550	3,750	2,650	2,950	2,550	1,560	1,900	2,650
5	1,800	2,000	2,000	16,700	4,250	3,650	2,950	2,850	2,450	1,750	1,600	2,350
6	1,600	2,200	1,850	11,700	4,050	3,550	3,950	3,400	2,550	2,050	1,360	3,200
7	1,600	2,050	2,850	11,400	3,850	3,450	3,750	3,750	2,150	2,950	1,800	4,200
8	2,300	1,900	3,850	9,000	3,750	3,450	3,350	3,050	2,960	2,300	1,850	3,550
9	3,010	1,900	3,150	7,270	4,050	3,650	3,250	2,850	2,400	1,850	1,560	4,050
10	8,780	1,850	2,500	5,170	5,610	3,450	3,250	2,650	2,200	1,650	2,850	3,150
11	4,100	1,800	3,350	4,150	5,060	3,250	3,050	2,550	2,150	1,650	2,200	2,650
12	2,950	1,900	4,150	3,850	4,250	3,150	2,850	2,500	2,050	2,000	2,890	2,450
13	2,350	2,350	3,550	3,850	3,950	3,150	2,750	2,550	1,950	2,250	3,980	2,200
14	2,000	2,400	3,050	4,350	3,950	3,050	2,750	5,700	1,900	2,400	4,640	2,050
15	1,800	2,050	2,650	4,550	3,850	3,250	2,750	12,200	1,950	2,400	3,760	1,900
16	3,500	1,900	2,500	5,830	3,650	3,550	2,850	5,210	1,900	2,050	1,900	1,800
17	26,400	1,750	2,950	6,240	3,550	3,350	2,750	3,950	2,350	1,800	1,560	1,750
18	29,300	1,750	3,150	10,000	3,350	3,150	2,650	3,350	3,150	1,520	2,310	1,750
19	5,980	1,800	3,480	17,500	3,350	3,150	2,550	3,050	4,820	1,470	2,550	1,650
20	3,950	1,750	9,600	30,800	3,250	3,150	2,550	2,850	5,110	1,290	1,750	1,600
21	3,350	1,700	6,410	21,300	4,150	3,050	2,550	2,650	2,750	1,470	1,520	1,560
22	2,950	1,700	4,050	10,200	6,410	3,050	2,650	2,550	2,250	1,700	1,470	1,560
23	2,750	1,650	3,350	7,400	5,170	2,950	2,650	2,750	2,050	1,560	2,100	1,560
24	2,550	1,650	2,950	6,290	4,250	2,950	2,650	2,850	2,000	1,420	6,110	1,520
25	2,650	1,700	2,750	5,500	4,150	3,350	4,910	3,150	1,800	1,700	12,400	1,520
26	2,350	1,700	2,550	5,390	3,750	3,150	10,600	2,550	1,950	1,800	17,000	1,470
27	2,200	1,650	2,450	4,750	3,550	2,950	5,280	2,550	2,250	2,500	8,320	1,670
28	2,100	1,600	2,400	4,350	3,650	2,850	3,950	3,050	2,200	1,600	4,830	3,530
29	1,950	1,600	2,750	9,350	-	2,750	3,850	2,850	1,900	1,470	3,050	2,100
30	2,000	1,600	3,150	8,150	-	2,750	3,750	2,400	1,800	2,250	4,490	1,750
31	1,900	-	6,040	5,720	-	2,750	-	2,250	-	1,650	7,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	154,540	29,300	1,600	4,985	2.19	2.52
November	55,100	2,400	1,600	1,837	.806	.90
December	100,930	9,600	1,600	3,256	1.43	1.65
Calendar year 1936	1,397,460	45,000	1,000	3,816	1.67	*22.73
January	328,360	30,900	3,850	10,590	4.64	5.35
February	122,570	8,090	3,250	4,378	1.92	2.00
March	100,950	3,750	2,750	3,256	1.43	1.65
April	101,540	10,600	2,550	3,385	1.48	1.65
May	104,560	12,200	2,250	3,373	1.48	1.71
June	72,490	5,110	1,800	2,416	1.06	1.18
July	57,510	2,950	1,290	1,855	.814	.94
August	113,920	17,000	1,340	3,675	1.61	1.86
September	74,600	6,060	1,470	2,487	1.09	1.22
Water year 1936-37	1,387,070	30,900	1,290	3,800	1.67	22.63

*Computed on basis of revised figure for drainage area.

Pee Dee River near Rockingham, N. C.

Location.- Water-stage recorder, lat. 34°56'10", long. 79°51'10", at State highway bridge, 1 mile above Falling Creek, 4 miles below Blewett Falls hydroelectric plant, and 6 miles west of Rockingham, Richmond County. Zero of gage is 81.81 feet above mean sea level (Carolina Power & Light Co. datum).

Drainage area.- 6,870 square miles, revised.

Records available.- September 1927 to September 1937.

Average discharge.- 10 years, 8,606 second-feet.

Extremes.- Maximum discharge during year, 82,300 second-feet Jan. 21 (discharge measurement); maximum gage height, 12.96 feet Jan. 21; minimum discharge, 166 second-feet Aug. 2 (gage height, 0.56 foot); minimum daily, 464 second-feet Aug. 1.
1927-37: Maximum discharge, 212,000 second-feet Sept. 19, 1928 (gage height, 25.38 feet), from rating curve extended above 110,000 second-feet; minimum, that of Aug. 2, 1937; minimum daily, 188 second-feet Oct. 13, 1935.

Remarks.- Records good except those for period of missing gage heights, Feb. 22 to Mar. 17 (computed on basis of records of discharge at Blewett Falls power plant), which are fair, and those below 1,000 second-feet, which are poor. Flow partly regulated by several reservoirs. Large diurnal fluctuation caused by operation of power plant upstream.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.0	260	2.0	1,290	3.5	6,260	6.0	20,410	9.0	42,200
1.3	380	2.5	2,460	4.0	8,680	7.0	27,120	11.0	60,000
1.6	650	3.0	4,200	5.0	14,150	8.0	34,250	13.0	80,000

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11,000	1,950	5,320	14,700	30,300	7,000	6,300	17,200	6,420	5,410	464	11,500
2	12,100	5,520	5,960	42,300	31,900	12,000	7,190	10,100	6,940	5,290	3,240	9,730
3	7,340	5,970	6,220	59,100	20,700	17,000	6,100	5,810	6,940	4,350	4,240	7,180
4	2,530	7,160	6,270	74,000	15,900	17,000	5,600	6,440	7,370	2,090	4,770	5,850
5	6,010	7,080	3,670	65,000	14,400	16,000	5,510	6,440	7,500	4,900	3,820	3,000
6	6,690	6,040	3,060	40,600	13,300	12,000	13,500	8,450	6,340	4,470	4,890	5,630
7	5,440	3,490	6,310	34,600	9,460	8,500	23,100	7,920	6,150	6,940	4,590	4,950
8	6,210	2,030	16,300	22,300	6,170	7,500	14,000	6,780	6,940	7,160	870	7,180
9	47,400	4,530	13,900	17,200	8,630	7,500	19,300	1,560	7,060	5,610	5,230	7,180
10	48,100	6,040	11,100	13,200	19,700	8,500	19,000	5,290	9,790	2,860	5,210	6,900
11	16,900	5,820	12,800	11,600	27,800	8,500	8,250	6,690	7,870	3,260	4,710	5,520
12	10,200	6,160	19,100	13,500	19,000	8,500	7,420	6,500	6,890	6,430	5,450	3,360
13	8,920	6,710	12,300	12,800	14,500	7,500	7,700	7,180	5,900	6,940	8,570	6,360
14	7,470	6,910	7,970	12,800	11,200	2,800	7,370	8,350	4,720	6,920	9,460	4,390
15	6,050	5,400	8,220	12,700	8,090	6,500	7,610	12,200	6,500	7,180	6,660	5,240
16	7,610	5,820	16,200	11,500	11,500	11,000	7,920	19,000	6,620	7,170	5,680	4,890
17	47,900	5,880	26,900	7,790	12,700	11,000	7,350	11,100	7,680	4,280	5,670	5,600
18	52,800	5,610	17,900	33,100	12,200	10,000	5,320	9,730	9,220	3,440	3,680	2,530
19	45,800	6,450	13,600	36,200	10,200	10,500	7,440	9,020	6,260	5,950	4,020	1,850
20	17,600	6,180	10,300	62,000	9,680	10,000	7,620	6,940	1,240	7,180	4,260	4,510
21	11,900	6,640	10,300	78,000	8,800	6,210	5,830	6,940	4,340	7,180	2,400	6,720
22	10,200	4,740	9,460	55,800	20,000	7,230	7,180	6,480	6,830	6,150	2,390	5,000
23	9,320	4,890	9,460	26,500	22,000	8,700	7,180	6,360	5,710	3,110	6,630	5,510
24	7,920	6,040	8,040	17,400	16,000	9,200	7,560	5,280	5,170	3,350	9,460	5,520
25	4,150	5,820	3,910	17,800	14,000	9,730	16,000	6,330	6,280	2,320	9,460	2,e10
26	4,350	5,720	6,850	31,100	13,000	11,400	56,900	6,940	2,880	6,190	7,670	1,340
27	4,820	5,830	7,160	28,200	12,000	9,220	41,400	6,460	4,550	7,240	7,940	5,060
28	5,820	5,880	7,540	19,100	8,000	4,970	21,500	7,530	5,120	5,010	8,320	5,470
29	5,820	4,340	7,920	35,500	-	6,950	18,500	6,660	6,500	4,910	8,280	5,560
30	6,470	5,130	7,420	39,400	-	6,810	17,800	1,630	6,120	5,120	10,900	5,120
31	6,260	-	8,840	24,200	-	7,400	-	5,070	-	2,520	13,200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	451,120	52,800	2,530	14,550	2.12	2.44
November	165,720	7,160	1,950	5,524	.804	.90
December	310,300	26,900	3,060	10,010	1.46	1.68
Calendar year 1936	4,679,996	166,000	332	12,790	1.86	*25.32
January	969,990	78,000	7,790	31,290	4.55	5.25
February	421,130	31,900	6,170	15,040	2.19	2.28
March	287,120	17,000	2,800	9,262	1.35	1.56
April	393,450	56,900	5,320	13,120	1.91	2.13
May	238,380	19,000	1,560	7,690	1.12	1.29
June	187,850	9,790	1,240	6,262	.911	1.02
July	160,970	7,180	2,090	5,193	.756	.87
August	182,154	13,200	464	5,876	.855	.99
September	161,440	11,500	1,340	5,381	.783	.87
Water year 1936-37	3,929,624	78,000	464	10,770	1.57	21.28

*Computed on basis of revised figure for drainage area.

Fisher River near Copeland, N. C.

Location.- Water-stage recorder, lat. 36°19'55", long. 80°40'30", 300 feet above highway bridge on State Highway 268, about half a mile above Cody Creek, and 2 miles west of Copeland, Surrey County. Prior to Sept. 5, 1936, staff gage at same site and datum.

Drainage area.- 121 square miles, revised.

Records available.- October 1931 to September 1937.

Extremes.- Maximum discharge during year, 5,460 second-feet Aug. 25 (gage height, 9.30 feet), from rating curve extended above 1,800 second-feet; minimum, 60 second-feet Aug. 8 (gage height, 1.98 feet).
1931-37: Maximum discharge, 7,600 second-feet Oct. 6, 1934 (gage height, 11.15 feet, from graph based on gage readings), from rating curve extended above 1,800 second-feet; minimum observed, 21 second-feet Sept. 18, 1932 (gage height, 1.70 feet).

Remarks.- Records good.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1-16		Oct. 17 to Sept. 30			
2.2	90	2.0	63	5.0	1,540
2.5	156	2.5	187	6.0	2,300
3.0	321	3.0	336	7.0	3,160
3.5	550	3.5	575	8.0	4,120
4.0	840	4.0	865	9.0	5,150
5.0	1,530				
6.0	2,300				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	536	103	95	508	395	220	162	207	132	95	80	270
2	202	109	117	1,180	308	229	162	195	130	99	73	198
3	151	105	137	1,380	276	226	159	189	141	90	195	170
4	124	109	123	467	259	223	159	161	132	99	93	154
5	113	134	111	370	252	217	309	206	128	103	82	159
6	107	109	107	411	236	207	270	267	121	130	113	170
7	105	107	226	353	236	201	239	198	123	130	107	239
8	137	107	151	308	236	204	223	187	141	97	74	236
9	124	105	132	289	306	198	223	178	121	90	97	175
10	122	101	128	263	320	196	195	173	128	84	103	157
11	111	97	207	252	259	195	184	164	137	82	117	146
12	100	166	228	246	242	192	181	164	117	82	457	137
13	94	144	167	321	236	189	175	257	113	94	287	128
14	94	123	162	263	233	192	175	742	111	96	394	119
15	92	113	149	351	225	207	178	306	109	109	115	115
16	2,070	109	174	296	217	195	184	233	119	95	101	111
17	1,450	105	236	588	204	192	167	204	147	73	254	111
18	291	105	181	576	201	195	164	181	198	70	201	103
19	210	101	372	1,720	201	192	162	173	152	65	111	103
20	178	101	609	995	204	187	159	162	123	104	95	101
21	159	103	287	616	294	184	167	157	113	117	88	99
22	146	99	233	450	314	175	173	157	113	93	157	99
23	146	97	201	366	249	175	159	267	101	82	398	95
24	141	99	187	332	246	181	184	238	97	85	653	93
25	126	97	175	324	229	189	746	170	101	133	2,410	93
26	123	95	167	289	214	173	394	157	109	112	1,000	95
27	119	93	164	263	214	167	256	179	111	84	497	149
28	117	91	170	290	236	167	229	154	101	77	214	130
29	117	97	198	656	-	164	249	149	97	73	184	109
30	111	95	210	336	-	162	226	139	93	92	476	103
31	105	-	987	426	-	164	-	137	-	103	473	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	7,821	2,070	92	252	2.08	2.40
November	3,219	166	91	107	.884	.99
December	6,811	987	95	220	1.82	2.10
Calendar year 1936	85,774	3,620	52	234	1.93	*26.27
January	15,485	1,720	246	500	4.13	4.76
February	7,042	395	201	252	2.08	2.17
March	5,960	229	162	192	1.59	1.83
April	6,615	746	159	220	1.82	2.03
May	6,491	742	137	209	1.73	1.99
June	3,659	198	93	122	1.01	1.13
July	2,938	133	65	94.8	.783	.90
August	9,699	2,410	73	313	2.59	2.99
September	4,167	270	93	139	1.15	1.28
Water year 1936-37	79,905	2,410	65	219	1.81	24.57

*Computed on basis of revised figure for drainage area.

South Yadkin River at Cooleemee, N. C.

Location.- Water-stage recorder, lat. 35°48'30", long. 80°33'45", below tailrace of Erwin Cotton Mills at Cooleemee, Davie County.

Drainage area.- 569 square miles, revised.

Records available.- June 1928 to September 1937.

Extremes.- Maximum discharge during year, 9,160 second-feet Oct. 18 (gage height, 22.34 feet), from rating curve extended above 7,000 second-feet; minimum, 28 second-feet Oct. 6 (gage height, 0.69 foot); minimum daily, 233 second-feet Sept. 26.
1928-37: Maximum discharge, 24,800 second-feet (estimated) Oct. 3, 1929 (gage height, 32.25 feet); minimum, 10 second-feet Nov. 25, 1931 (gage height, 0.40 foot); minimum daily, 46 second-feet Sept. 11, 1932.

Remarks.- Records good except those for period when recorder clock was stopped, Aug. 22 to Sept. 15 (computed on basis of peak stage shown on recorder graph and records for nearby stations, principally Yadkin River at Wilkesboro and at Yadkin College, and those above 3,000 second-feet, which are fair. Large diurnal fluctuation during low and medium stages caused by operation of Erwin Cotton Mills.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.0	73	4.0	1,290	14.0	5,060
1.3	156	5.0	1,650	16.0	5,930
1.6	264	6.0	1,987	18.0	6,900
2.0	428	8.0	2,700	20.0	7,900
2.5	648	10.0	3,460	22.0	9,000
3.0	878	12.0	4,240		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,250	457	370	3,560	2,070	977	638	1,040	514	393	359	1,700
2	770	514	402	4,800	1,600	1,010	640	900	471	416	387	1,200
3	477	473	496	5,590	1,290	1,050	614	822	466	295	746	900
4	420	426	574	7,900	1,170	1,030	625	763	527	360	735	750
5	497	454	412	5,790	1,090	966	811	758	469	431	329	650
6	318	531	441	2,440	989	901	1,020	1,040	510	607	332	550
7	303	415	1,120	1,960	988	852	785	1,070	689	1,050	297	500
8	1,190	465	1,100	1,500	988	900	756	798	972	677	406	650
9	1,930	518	686	1,280	1,160	922	759	740	574	439	460	600
10	1,840	450	625	1,134	1,790	789	680	702	486	293	657	550
11	1,020	413	1,040	995	1,360	786	671	648	466	459	511	500
12	697	419	999	944	1,130	803	669	648	350	506	266	460
13	558	527	788	988	1,010	694	625	625	432	458	968	420
14	527	492	730	1,010	1,030	740	625	1,750	542	511	470	400
15	457	468	625	1,050	987	834	580	1,650	474	594	403	380
16	1,420	512	702	1,530	922	966	648	805	486	378	381	283
17	5,010	413	962	1,670	878	800	614	729	482	279	352	390
18	8,600	422	785	2,340	832	773	602	648	686	372	424	282
19	3,980	412	1,300	3,810	832	778	649	625	672	403	453	261
20	1,030	408	2,740	6,610	808	760	571	558	644	339	356	386
21	832	362	2,010	7,240	1,330	763	598	580	506	318	626	282
22	717	396	1,130	4,080	1,700	737	656	491	473	288	1,000	298
23	671	480	860	1,880	1,170	694	625	616	399	327	1,500	290
24	575	410	751	1,470	1,030	740	618	658	414	300	2,000	346
25	616	402	694	1,310	988	910	1,640	546	384	344	2,600	272
26	595	328	593	1,290	900	728	2,440	492	385	520	3,000	233
27	550	490	602	1,130	834	755	1,890	506	551	469	1,500	399
28	536	337	617	1,090	922	602	1,130	985	533	454	800	579
29	482	371	876	2,220	-	671	1,460	674	394	313	600	436
30	510	483	1,010	2,400	-	675	1,470	539	371	409	1,400	310
31	386	-	1,590	1,680	-	648	-	565	-	238	2,200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	39,764	8,600	303	1,283	2.25	2.59
November	13,248	531	328	442	.777	.87
December	27,630	2,740	370	891	1.57	1.81
Calendar year 1936	364,281	8,710	148	995	1.75	*23.82
January	82,691	7,900	944	2,667	4.69	5.41
February	31,798	2,070	808	1,136	2.00	2.08
March	25,254	1,050	602	815	1.43	1.65
April	26,109	2,440	571	870	1.53	1.71
May	23,971	1,750	491	773	1.36	1.57
June	15,322	972	350	511	.898	1.00
July	13,240	1,050	238	427	.750	.86
August	26,518	3,000	266	855	1.50	1.73
September	15,257	1,700	233	509	.895	1.00
Water year 1936-37	340,802	8,600	233	934	1.64	22.28

*Computed on basis of revised figure for drainage area.

Uharie River near Trinity, N. C.

Location.- Water-stage recorder, lat. 35°52'10", long. 79°59'10", 500 feet below county highway bridge, 2 miles south of Trinity, Randolph County.

Drainage area.- 11.3 square miles.

Records available.- May 1934 to September 1937.

Extremes.- Maximum discharge during year, 1,540 second-feet Oct. 8 (gage height, 5.7 feet); minimum, 0.36 second-foot Aug. 7 (gage height, 0.52 foot).
1934-37: Maximum discharge, that of Oct. 8, 1936; minimum, 0.17 second-foot July 29, 1936 (gage height, 0.46 foot).

Remarks.- Records good except for period of missing gage heights, Feb. 13 to Mar. 3 (computed on basis of records for nearby stations, principally East Fork of Deep River near High Point and Muddy Creek near Archdale), and those below 1 second-foot, which are fair.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 28 to June 16)

Oct. 1 to Feb. 21				Feb. 22 to Sept. 30			
0.7	2,1	1.6	54	0.5	0.30	0.9	6.1
.8	4.0	2.0	117	.6	.89	1.0	9.5
.9	6.8	2.5	225	.7	2.0	1.1	13.5
1.0	10	3.0	374	.8	3.7		
1.3	25						

Note.- Same as preceding table above 1.3 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	2.9	2.4	58	29	14	6.1	14	3.4	1.5	.64	3.2
2	6.0	2.9	3.5	155	20	22	5.9	12	3.2	1.1	.81	2.7
3	4.0	2.9	4.6	216	16	19	5.6	9.5	3.0	.99	1.1	2.0
4	2.9	3.1	3.5	40	14	17	5.9	8.8	3.0	17	.72	1.8
5	2.5	4.8	2.9	40	13	14	118	9.8	3.5	14	.51	1.6
6	2.4	2.9	3.1	56	12	12	58	8.5	2.7	3.4	.45	4.9
7	2.2	2.9	43	36	12	11	20	6.8	2.6	21	.40	2.2
8	294	3.1	18	24	11	11	16	5.9	3.0	4.1	.54	2.3
9	44	2.9	11	19	26	9.5	14	5.6	2.7	2.3	11	2.0
10	24	2.9	10	16	24	8.5	12	5.4	2.5	1.9	8.2	1.6
11	12	2.5	42	14	16	8.1	9.5	4.9	2.2	1.6	31	3.9
12	8.1	12	26	12	14	7.8	6.6	4.7	2.0	1.5	8.6	3.7
13	6.2	7.1	17	14	13	7.5	8.1	5.1	2.0	1.4	2.3	1.5
14	5.4	5.1	12	12	15	7.1	7.5	62	1.9	2.1	55	1.3
15	4.6	4.0	10	43	11	17	8.1	24	1.9	2.3	3.2	1.2
16	151	3.5	18	25	11	15	7.5	12	3.7	1.4	2.0	1.1
17	39	3.3	18	88	9	12	6.4	6.8	5.7	1.1	1.6	1.1
18	14	3.3	12	44	9	11	6.4	6.8	2.7	1.1	1.5	.99
19	10	2.9	34	304	8	9.5	5.9	6.1	3.0	.89	1.4	.99
20	8.1	2.9	35	185	9	10	5.9	5.4	2.3	1.2	1.2	.89
21	6.8	2.9	16	48	60	8.8	5.6	4.9	2.0	1.4	1.2	.80
22	6.0	2.9	12	31	30	7.8	5.6	4.4	1.8	1.4	1.4	.72
23	5.4	2.7	10	23	15	7.8	4.9	10	1.4	.99	1.4	.72
24	5.1	2.7	9.0	20	13	11	16	6.9	1.4	.80	6.0	.72
25	4.3	3.5	8.1	20	11	12	138	4.7	1.4	.72	2.7	.64
26	4.0	3.1	7.8	18	10	8.8	38	4.2	1.4	1.3	8.3	.64
27	3.7	2.7	7.1	14	9	8.1	17	5.6	1.4	.89	2.7	6.1
28	3.5	2.5	8.1	34	12	7.5	13	6.8	1.8	.72	1.4	3.9
29	3.8	2.5	14	58	-	6.8	42	4.2	1.3	.64	31	1.4
30	3.1	2.5	12	24	-	6.8	22	3.5	1.4	.64	15	1.3
31	2.9	-	170	32	-	6.4	-	3.4	-	.72	5.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	702.7	294	2.2	22.7	2.01	2.32
November	105.9	12	2.5	3.53	.312	.35
December	600.1	170	2.4	19.4	1.72	1.98
Calendar year 1936	6,995.68	455	.23	19.1	1.69	23.02
January	1,723	304	12	55.6	4.92	5.67
February	452	60	8	16.1	1.42	1.48
March	334.8	22	6.4	10.8	.956	1.10
April	637.7	138	4.9	21.3	1.88	2.10
May	284.7	62	3.4	9.18	.812	.94
June	72.5	5.7	1.3	2.42	.214	.24
July	92.10	21	.64	2.97	.263	.30
August	209.37	55	.40	6.75	.597	.69
September	59.91	8.1	.64	2.00	.177	.20
Water year 1936-37	5,274.78	304	.40	14.5	1.28	17.37

Rocky River near Norwood, N. C.

Location.- Water-stage recorder, lat. 35°08'40", long. 80°10'45", at Hyatts Ford, 1,000 feet below Lanes Creek and 6 miles southwest of Norwood, Stanley County.

Drainage area.- 1,370 square miles, revised.

Records available.- October 1929 to September 1937.

Extremes.- Maximum discharge during year, 42,600 second-feet Oct. 9 (gage height, 27.30 feet), from rating curve extended above 29,000 second-feet; minimum, 51 second-feet Sept. 23 (gage height, 0.28 foot).

1929-37: Maximum discharge, 52,800 second-feet Apr. 7, 1936 (gage height, about 32.0 feet, from floodmarks); minimum, 19 second-feet Oct. 28, 1931, Nov. 13, 1933.

Maximum stage known, about 35 feet in August 1908 (estimated discharge, 60,000 second-feet), from present rating curve extended above 29,000 second-feet.

Remarks.- Records good above 1,000 second-feet and fair below. Slight diurnal fluctuation during low stages.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1-9				Oct. 10 to Sept. 30	
0.8	173	9.0	9,700	0.3	55
1.0	244	11.0	12,700	.5	104
1.5	516	13.0	15,900	.7	165
2.0	900	15.0	19,300	1.0	282
3.0	1,860	17.0	22,700	1.5	565
4.0	3,000	19.0	26,300	2.0	925
5.0	4,225	21.0	30,000	2.5	1,360
7.0	6,840	23.0	33,800		

Note.- Same as preceding table above 2.6 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,900	260	200	7,960	9,640	1,880	653	1,500	220	806	326	1,640
2	2,210	235	204	8,220	5,690	2,700	612	1,100	442	301	280	680
3	633	227	239	12,800	2,880	2,020	565	925	568	216	186	423
4	396	227	546	12,000	2,140	1,500	539	818	1,530	168	196	311
5	278	231	520	4,880	1,750	1,320	1,570	760	2,810	243	182	269
6	236	248	367	8,100	1,550	1,140	9,490	871	855	580	159	406
7	199	252	3,200	7,770	1,360	997	3,790	818	412	260	149	1,310
8	13,200	204	6,870	3,920	1,320	1,030	2,080	605	497	251	1,100	879
9	37,000	208	2,090	2,820	2,940	1,400	4,580	533	965	517	533	807
10	13,200	220	1,220	2,580	9,180	1,060	3,280	477	490	278	318	498
11	3,370	208	3,560	2,190	3,980	863	1,450	434	325	273	1,490	292
12	1,860	320	5,000	1,660	2,140	781	1,270	383	378	227	1,460	260
13	1,360	1,350	2,490	1,450	1,600	716	1,700	372	306	164	2,530	220
14	1,010	866	1,450	1,320	1,500	695	2,080	980	216	538	2,070	212
15	826	458	1,340	1,220	1,550	1,070	1,700	3,400	196	884	951	162
16	8,120	341	7,740	1,360	1,270	4,400	1,860	1,770	867	446	362	136
17	14,800	282	9,020	3,040	1,060	2,020	1,240	774	1,370	335	200	124
18	4,130	252	3,160	7,590	941	1,270	826	578	1,190	446	155	121
19	1,500	248	2,000	5,280	886	1,270	702	458	840	524	127	110
20	933	239	6,130	8,320	856	1,140	646	400	1,140	200	110	99
21	724	235	3,930	10,900	5,330	1,320	902	346	761	130	94	110
22	592	235	1,800	4,900	8,050	1,090	811	306	372	127	414	94
23	489	235	1,320	2,940	3,450	863	702	287	245	118	3,260	76
24	429	231	1,080	2,240	2,020	937	1,110	298	223	110	1,940	91
25	367	231	949	2,300	1,500	3,880	18,100	346	193	110	1,020	88
26	341	341	848	13,900	1,180	2,020	19,400	296	3,060	136	1,870	88
27	316	269	789	5,450	1,020	1,180	8,680	260	2,890	616	5,480	71
28	296	235	760	5,100	1,050	941	2,280	900	429	296	2,580	73
29	282	208	794	15,100	-	886	1,860	452	239	162	6,560	248
30	335	200	1,080	6,180	-	731	2,240	311	235	139	5,180	196
31	260	-	1,830	3,270	-	674	-	265	-	380	3,330	-

Month	Second-feet-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	117,502	37,000	199	3,790	2.77	3.19
November	9,286	1,350	200	310	.226	.25
December	72,498	9,020	200	2,339	1.71	1.97
Calendar year 1936	985,682	51,500	58	2,695	1.97	*26.81
January	176,750	15,100	1,220	5,702	4.16	4.80
February	77,833	9,640	856	2,780	2.03	2.11
March	43,734	4,400	674	1,411	1.03	1.19
April	96,718	19,400	539	3,224	2.35	2.62
May	22,023	3,400	260	710	.518	.60
June	24,282	3,060	193	809	.591	.66
July	9,981	884	110	322	.235	.27
August	44,612	6,560	94	1,439	1.05	1.21
September	10,094	1,640	71	336	.245	.27
Water year 1936-37	703,293	37,000	71	1,927	1.41	19.14

*Computed on basis of revised figure for drainage area.

Little Brown Creek near Polkton, N. C.

Location.- Water-stage recorder, lat. 34°58'45", long. 80°11'20", 1 mile southwest of State convict camp on U. S. Highway 74, 1½ miles above confluence with Brown Creek, and 2 miles southeast of Polkton, Anson County.

Drainage area.- 13.5 square miles.

Records available.- March 1935 to September 1937.

Extremes.- Maximum discharge during year, 1,100 second-feet June 4 (gage height, 5.43 feet), from rating curve extended above 110 second-feet; no flow Aug. 20.
1935-37: Maximum discharge, 1,170 second-feet Mar. 26, 1936 (gage height, 5.58 feet), from rating curve extended above 110 second-feet; no flow June 4, July 11-15, Aug. 21 to Sept. 2, Sept. 19, 1936, Aug. 20, 1937.

Remarks.- Records fair except those for periods of incomplete gage-height record, Oct. 26 to Nov. 9, June 7-10, 16, 17 (computed on basis of partial gage-height record, weather records, and records for North Fork of Jones Creek near Wadesboro), and those above 150 second-feet, which are poor. Gage-height record collected in cooperation with U. S. Soil Conservation Service.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0	0	0.4	1.5	1.0	10.9	2.5	140
.1	.05	.5	2.7	1.3	16	3.0	250
.2	.23	.6	4.3	1.6	23	4.0	525
.3	.60	.8	7.5	2.0	59	5.0	900

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	0.7	0.35	50	124	41	2.9	4.9	0.09	0.42	0.10	2.4
2	1.7	.6	.50	54	28	27	2.4	3.5	.09	.32	.12	1.1
3	.42	.6	2.3	54	16	14	2.0	2.6	24	.21	.05	1.1
4	.18	.7	2.7	22	14	11	2.2	2.2	221	.16	.04	.50
5	.09	.9	1.3	32	14	9.4	38	3.3	103	.14	.02	.38
6	.05	.5	.90	137	10	7.2	52	3.8	6.2	.12	.02	10
7	.04	.7	148	57	9.7	6.1	13	1.8	2.6	.12	.14	12
8	72	.7	54	27	9.4	7.5	53	1.4	1.9	.12	.07	9.1
9	182	.6	15	59	60	6.1	106	1.0	46	.09	.04	6.5
10	39	.38	14	35	64	4.3	23	.81	42	5.0	.04	1.6
11	16	.29	100	19	18	3.7	12	.60	6.2	8.4	.03	.81
12	5.4	12	35	15	13	3.2	8.0	.55	2.4	1.0	.02	.66
13	2.2	7.8	17	13	12	3.0	6.2	.46	1.5	.32	.03	.42
14	1.3	3.3	11	12	24	2.9	4.9	2.4	9.7	7.3	.04	.32
15	1.3	1.7	38	11	14	86	40	2.4	65	.46	.03	.23
16	257	.81	208	8.7	11	43	68	.81	49	.23	.02	.18
17	79	.60	51	89	7.2	14	13	.55	7.5	.29	.02	.14
18	12	.55	18	45	6.7	13	8.4	.38	43	.14	.02	.12
19	5.4	.50	27	28	6.7	11	5.9	.29	12	.06	.01	.10
20	3.0	.46	35	85	17	12	5.3	.23	5.9	.05	2.5	.09
21	2.0	.46	15	38	129	9.9	6.7	.18	3.0	.04	4.9	.09
22	1.7	.50	10	22	36	6.1	8.5	.16	1.5	.04	28	.07
23	1.4	.42	7.8	16	15	5.1	4.3	.14	.81	.04	23	.05
24	1.2	.38	6.9	19	12	77	41	.12	.60	.03	2.0	.05
25	.90	.50	6.1	24	9.7	38	144	.12	.50	.03	3.5	.04
26	.9	1.0	5.4	99	7.0	11	56	.10	.66	.03	2.6	.04
27	1.6	.50	5.1	25	6.1	6.9	15	7.9	.60	3.6	47	.04
28	.9	.35	5.6	185	29	5.6	9.4	6.8	.46	.38	79	.04
29	.9	.29	6.1	101	-	4.3	8.4	.50	.35	.10	80	.04
30	.7	.32	5.7	30	-	3.7	6.9	.26	.50	.04	44	.03
31	.6	-	51	34	-	3.7	-	.14	-	.03	9.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	706.88	257	0.04	22.8	1.69	1.95
November	39.11	12	.29	1.30	.096	.11
December	903.75	208	.35	29.2	2.16	2.49
Calendar year 1936	8,581.91	484	0	23.4	1.73	23.64
January	1,445.7	185	8.7	46.6	3.45	3.98
February	722.5	129	6.1	25.8	1.91	1.99
March	496.7	86	2.9	16.0	1.19	1.37
April	766.4	144	2.0	25.5	1.89	2.11
May	50.40	7.9	.10	1.63	.121	.14
June	658.06	221	.09	21.9	1.62	1.81
July	29.31	8.4	.03	.945	.070	.08
August	327.16	80	.01	10.6	.785	.90
September	48.24	12	.03	1.61	.119	.13
Water year 1936-37	6,194.21	257	.01	17.0	1.26	16.86

North Fork of Jones Creek near Wadesboro, N. C.

Location.- Water-stage recorder, lat. 34°55'20", long. 80°04'05", 300 feet below county highway bridge, 3½ miles south of Wadesboro, Anson County, and 5½ miles above confluence with Jones Creek.

Drainage area.- 10.0 square miles.

Records available.- March 1935 to September 1937.

Extremes.- Maximum discharge during year, 2,290 second-feet June 4 (gage height, 6.39 feet), from rating curve extended above 55 second-feet; minimum, 1.0 second-foot Oct. 6, 7.

1935-37: Maximum discharge, that of June 4, 1937; minimum, 0.3 second-foot Aug. 26, 27, 1935.

Remarks.- Records good except those for periods when recorder clock was stopped or intakes were plugged, Dec. 7-16, Jan. 24-27, Jan. 29 to Feb. 2, Feb. 10 to May 4, June 24 to July 9, July 12-15, 18-21, Aug. 30 to Sept. 1, Sept. 19-30 (computed on basis of discharge measurements, range in stage shown on recorder chart, and records for Little Brown Creek near Polkton), and those below 5 and above 60 second-feet, which are poor. Gage-height record collected in cooperation with U. S. Soil Conservation Service.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.4	1.1	1.6	29	3.5	550
.6	3.5	2.0	73	4.0	810
.8	6.3	2.5	173	5.0	1,390
1.0	10	3.0	332	6.0	2,010
1.3	18				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.7	3.8	3.1	17	70	28	5	11	2.0	3	3.8	7
2	2.6	3.8	3.9	27	29	20	5	9	2.5	3	4.1	6.0
3	1.6	3.6	5.2	23	24	15	5	8	15	3	3.2	5.4
4	1.3	3.9	4.0	17	23	13	6	8	162	2	2.2	4.8
5	1.1	4.3	3.4	27	22	11	20	12	22	2	1.9	4.2
6	1.0	3.4	3.4	48	21	10	40	8.9	9.6	2	4.8	16
7	1.0	3.8	46	30	20	9	15	7.4	8.9	2	3.2	7.4
8	33	3.9	26	24	19	10	30	6.7	6.5	2	7.1	16
9	54	3.0	22	32	42	9	50	6.2	123	2	3.1	7.2
10	24	3.0	20	24	28	7	28	5.4	34	69	2.7	5.1
11	11	2.7	44	20	22	6	14	5.1	14	13	2.5	5.2
12	6.3	22	26	18	20	6	11	5.1	8.9	5	2.8	4.7
13	4.8	7.4	20	16	18	5	10	5.0	7.0	4	16	4.0
14	4.2	5.4	18	15	22	5	9	11	6.2	13	7.8	3.5
15	4.7	4.5	30	15	18	44	18	6.8	50	40	3.8	3.2
16	76	3.9	50	12	16	20	36	5.1	26	5.6	2.3	3.0
17	22	3.8	32	43	10	17	18	4.5	40	4.8	2.0	2.8
18	11	3.8	22	26	9	14	10	4.2	25	5	1.8	2.6
19	8.5	3.5	22	21	9	15	9	4.0	16	4	1.5	2
20	7.0	3.6	19	32	20	17	8	3.8	12	4	11	2
21	6.2	3.8	17	24	100	12	9	3.6	9.0	3	3.1	2
22	5.8	3.4	12	22	36	9	10	3.2	7.0	3.2	2.8	2
23	5.4	3.2	11	18	21	9	7	3.1	5.4	3.1	4.4	2
24	5.1	3.2	10	17	16	40	22	3.0	5	2.7	2.8	2
25	4.7	4.7	9.8	17	14	30	70	2.8	4	3.1	3.1	2
26	4.5	3.5	9.2	40	13	18	40	2.7	5	2.8	7.5	2
27	6.4	3.2	9.0	22	12	13	26	9.3	5	11	54	2
28	4.5	3.0	9.6	166	20	10	17	7.0	4	4.0	42	2
29	4.5	3.0	9.0	150	-	8	14	3.2	3	2.8	53	2
30	4.0	3.0	8.5	40	-	6	12	2.6	3	2.5	16	2
31	3.6	-	21	46	-	6	-	2.2	-	5.1	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	336.5	76	1.0	10.9	1.09	1.26
November	131.1	22	2.7	4.37	.437	.49
December	546.1	50	3.1	17.6	1.76	2.03
Calendar year 1936	5,949.2	201	.5	16.3	1.63	22.13
January	1,049	166	12	33.8	3.38	3.90
February	694	100	9	24.8	2.48	2.58
March	442	44	5	14.3	1.43	1.65
April	574	70	5	19.1	1.91	2.13
May	179.9	12	2.2	5.80	.580	.67
June	641.0	162	2	21.4	2.14	2.39
July	231.7	69	2	7.47	.747	.86
August	286.3	54	1.5	9.24	.924	1.07
September	132.1	16	2	4.40	.440	.49
Water year 1936-37	5,243.7	166	1.0	14.4	1.44	19.52

Lynches River at Effingham, S. C.

Location.- Water-stage recorder, lat. 34°03', long. 79°45', at steel highway bridge on U. S. Highway 52, 75 feet upstream from Atlantic Coast Line Railroad bridge and 1 mile south of Effingham, Florence County. Zero of gage is 58.70 feet above mean sea level (unadjusted).

Drainage area.- 1,070 square miles.

Records available.- August 1929 to September 1937.

Extremes.- Maximum discharge during year, 5,200 second-feet May 2 (gage height, 14.09 feet); minimum, 306 second-feet Aug. 7.
1929-37: Maximum discharge, 15,200 second-feet Oct. 7, 1929 (gage height, 19.25 feet); minimum, 116 second-feet July 1, 1935.
Maximum stage known, 20.0 feet Aug. 30, 1908 (discharge, 18,000 second-feet, estimated).

Remarks.- Records good. Discharge for Mar. 28-30 computed from graph drawn on basis of partial recorder record and daily staff-gage readings. Gage-height record collected in cooperation with U. S. Weather Bureau.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1-18				Oct. 19 to Sept. 30					
3.0	340	5.5	781	3.0	306	5.5	768	10.0	2,190
3.5	417	6.0	894	3.5	379	6.0	894	11.0	2,610
4.0	505	7.0	1,185	4.0	461	7.0	1,185	12.0	3,265
4.5	595	8.0	1,490	4.5	552	8.0	1,490	13.0	4,105
5.0	685	9.0	1,840	5.0	654	9.0	1,840	14.0	5,090

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	401	496	721	1,220	3,920	2,220	1,520	4,580	514	592	461	921
2	505	496	654	1,240	4,300	2,330	1,560	5,090	533	698	411	976
3	417	461	612	1,280	4,580	2,220	1,490	4,200	478	817	384	1,060
4	469	444	612	1,220	4,680	2,050	1,360	3,190	444	894	349	1,280
5	595	444	612	1,240	4,680	1,880	1,240	2,410	427	976	327	1,700
6	649	427	633	1,340	4,100	1,700	1,490	2,080	461	1,040	320	1,840
7	781	427	744	1,490	3,500	1,700	1,660	1,800	552	976	313	1,740
8	761	427	792	1,630	3,120	1,700	1,600	1,560	633	744	356	1,520
9	559	444	868	1,800	2,980	1,700	1,630	1,300	698	654	349	1,300
10	469	461	976	2,080	2,910	1,660	1,660	1,160	676	698	320	868
11	505	478	948	2,160	2,780	1,520	1,700	1,040	533	744	327	721
12	595	496	1,160	2,260	2,610	1,340	1,840	976	461	744	349	792
13	703	533	1,300	2,190	2,560	1,340	2,160	921	444	612	342	1,000
14	822	533	1,460	2,260	2,500	1,180	2,410	842	514	478	364	894
15	948	552	1,700	2,300	2,410	1,240	2,370	817	612	461	356	921
16	1,240	654	2,120	2,190	2,410	1,240	2,330	792	721	427	342	921
17	1,630	792	2,500	2,160	2,660	1,160	2,300	768	768	427	342	921
18	1,700	842	2,720	2,020	2,840	1,240	2,190	792	612	478	403	842
19	1,460	948	2,720	1,880	2,560	1,220	1,880	842	533	533	444	633
20	1,220	1,060	2,660	1,700	2,330	1,240	1,630	921	592	496	403	478
21	1,240	1,240	2,460	1,520	2,260	1,420	1,460	976	676	461	334	427
22	1,180	1,400	2,300	1,460	2,120	1,560	1,420	976	768	514	320	427
23	1,220	1,220	2,190	1,490	2,120	1,600	1,460	744	868	533	313	403
24	1,280	768	2,330	1,490	2,020	1,840	1,520	612	894	612	387	372
25	1,340	633	2,500	1,460	1,980	1,880	2,120	592	768	633	496	364
26	1,360	612	2,370	1,800	1,910	1,980	2,220	533	698	612	572	342
27	1,100	654	2,190	2,050	1,770	1,700	2,330	514	592	552	633	320
28	721	552	1,940	2,190	1,940	1,700	3,120	496	427	478	633	320
29	572	572	1,770	2,500	-	1,520	3,420	478	411	403	654	320
30	533	612	1,740	2,840	-	1,400	3,420	461	478	411	768	320
31	496	-	1,460	3,500	-	1,420	-	478	-	444	868	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	27,471	1,700	401	886	0.828	0.95
November	19,678	1,400	427	656	.613	.68
December	49,762	2,720	612	1,605	1.50	1.73
Calendar year 1936	553,739	13,600	288	1,513	1.41	19.22
January	57,960	3,500	1,220	1,870	1.75	2.02
February	80,550	4,680	1,770	2,877	2.69	2.80
March	49,900	2,330	1,160	1,610	1.50	1.73
April	58,510	3,420	1,240	1,950	1.82	2.03
May	42,941	5,090	461	1,385	1.29	1.49
June	17,786	894	411	593	.554	.62
July	19,142	1,040	403	617	.577	.67
August	13,220	868	313	426	.398	.46
September	24,943	1,840	320	831	.777	.87
Water year 1936-37	461,863	5,090	313	1,265	1.18	16.05

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Lumber River at Boardman, N. C.

Location.- Staff gage, lat. 34°26'40", long. 78°56'35", at State highway bridge, 1½ miles below Big Swamp and 1 mile below Atlantic Coast Line Railroad bridge at Boardman, Columbus County.

Drainage area.- 1,240 square miles.

Records available.- September 1929 to September 1937.

Extremes.- Maximum discharge observed during year, 5,920 second-feet Feb. 5, 6; maximum gage height observed, 8.72 feet Feb. 5; minimum discharge, 270 second-feet July 10, 14-16; minimum gage height, 1.46 feet July 14.
1929-37: Maximum discharge observed, 10,800 second-feet Apr. 13, 1936 (gage height, 10.09 feet); minimum, 132 second-feet (estimated) Oct. 12, 1930.

Remarks.- Records good.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.5	270	4.5	860
1.7	300	5.0	1,030
2.0	352	5.5	1,290
2.5	450	6.0	1,620
3.0	550	7.0	2,640
3.5	650	8.0	4,340
4.0	750	9.0	6,780

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	570	990	890	2,120	4,340	3,440	1,690	4,960	590	410	530	890
2	670	920	890	2,020	4,740	3,440	1,620	4,540	550	370	570	1,030
3	750	890	890	1,920	5,180	3,440	1,620	4,340	530	352	630	1,120
4	790	835	890	1,840	5,660	3,440	1,620	3,980	510	334	670	1,170
5	810	810	890	1,760	5,920	3,260	1,690	3,620	490	334	670	1,170
6	810	790	890	1,840	5,920	3,120	1,840	3,120	470	317	650	1,170
7	790	770	920	1,840	5,660	2,960	1,920	2,800	450	317	650	1,170
8	770	770	955	1,920	5,180	2,800	2,120	2,360	470	300	630	1,170
9	750	750	990	2,020	4,960	2,640	2,640	2,120	470	285	610	1,170
10	770	750	990	2,240	4,740	2,500	2,960	1,920	490	270	630	1,120
11	860	730	990	2,360	4,540	2,360	3,120	1,760	530	285	670	1,030
12	955	750	1,070	2,360	4,340	2,240	3,120	1,620	590	285	650	990
13	990	810	1,170	2,500	4,340	2,240	3,120	1,490	630	285	570	955
14	990	810	1,230	2,500	4,160	2,120	3,120	1,350	610	270	590	920
15	955	835	1,290	2,500	3,980	2,020	2,960	1,290	570	270	550	890
16	990	860	1,550	2,640	3,980	2,020	2,800	1,230	530	270	530	860
17	1,030	920	1,760	2,640	3,980	1,920	2,640	1,170	490	300	510	835
18	1,070	955	2,120	2,640	3,800	1,920	2,500	1,070	470	354	510	790
19	1,170	1,030	2,640	2,500	3,800	1,920	2,360	1,030	450	334	490	710
20	1,350	1,070	3,120	2,500	3,620	1,920	2,240	955	470	352	570	630
21	1,410	1,070	3,280	2,360	3,620	1,920	2,120	890	470	390	790	550
22	1,410	1,120	3,120	2,240	3,620	1,920	2,120	860	490	390	1,070	490
23	1,350	1,120	3,120	2,240	3,440	1,840	1,920	835	490	390	1,230	450
24	1,290	1,120	2,960	2,120	3,440	1,840	1,920	810	470	352	1,230	410
25	1,290	1,120	2,960	2,020	3,440	1,920	2,500	790	490	334	1,070	390
26	1,410	1,120	2,960	2,360	3,440	1,920	3,800	750	510	317	890	370
27	1,410	1,070	2,960	2,360	3,280	1,840	4,340	690	490	317	790	352
28	1,410	1,030	2,800	2,640	3,440	1,840	4,740	670	450	317	710	334
29	1,360	955	2,640	3,120	-	1,760	5,180	670	430	352	690	317
30	1,230	920	2,360	3,440	-	1,760	5,180	630	430	430	710	317
31	1,070	-	2,240	3,800	-	1,760	-	610	-	490	790	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	32,470	1,410	570	1,047	0.844	0.97
November	27,690	1,120	730	923	.744	.83
December	57,535	3,280	890	1,856	1.50	1.73
Calendar year 1936	692,190	10,800	315	1,891	1.52	20.77
January	73,560	5,800	1,760	2,366	1.91	2.20
February	120,560	5,920	5,280	4,306	3.47	3.61
March	72,060	5,440	1,760	2,325	1.87	2.16
April	81,890	5,180	1,620	2,717	2.19	2.44
May	54,920	4,960	610	1,772	1.43	1.65
June	15,080	650	430	503	.406	.45
July	10,353	490	270	334	.269	.31
August	21,850	1,230	490	704	.568	.65
September	23,770	1,170	317	792	.639	.71
Water year 1936-37	591,148	5,920	270	1,620	1.31	17.71

Black River at Kingstree, S. C.

Location.- Water-stage recorder, lat. 33°40', long. 79°50', at highway bridge at Kingstree, Williamsburg County. Zero of gage is 25.86 feet above mean sea level (unadjusted).

Drainage area.- 1,240 square miles.

Records available.- August 1929 to September 1937.

Extremes.- Maximum discharge during year, 5,440 second-feet Feb. 4 (gage height, 11.53 feet); minimum, 19 second-feet June 28.
1929-37: Maximum discharge, 9,910 second-feet Apr. 13, 1936 (gage height, 13.07 feet); minimum, 4 second-feet June 30, July 1, 4, 5, 1935.
Maximum stage known, 18.0 feet Sept. 21, 1928 (discharge, 26,300 second-feet, estimated).

Remarks.- Records good. Discharge for Oct. 1, 2, computed from graph drawn on basis of partial gage-height record and daily gage readings. Gage-height record collected in cooperation with U. S. Weather Bureau.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Feb. 3				Feb. 4 to Sept. 30			
0.9	23	5.0	472	0.7	20	5.0	472
1.1	33	6.0	655	1.0	35	6.0	658
1.3	44	7.0	898	1.3	53	7.0	898
1.6	63	8.0	1,240	1.6	74	8.0	1,240
2.0	92	9.0	1,790	2.0	106	9.0	1,790
2.5	135	10.0	2,740	2.5	152	10.0	2,740
3.0	187	11.0	4,340	3.0	204	11.0	4,340
4.0	317			4.0	324		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	439	289	1,240	3,010	2,110	1,720	1,940	182	41	226	424
2	39	399	317	1,200	3,970	2,110	1,660	3,010	167	67	215	542
3	50	361	338	1,120	4,970	2,110	1,540	3,630	157	91	193	679
4	66	324	361	1,090	5,440	2,020	1,480	3,310	138	95	193	794
5	64	296	384	1,020	5,200	1,940	1,430	2,740	124	82	204	927
6	56	275	391	987	4,750	1,860	1,600	2,400	112	74	182	987
7	51	249	391	956	4,340	1,790	1,790	2,020	108	81	147	1,050
8	55	236	407	927	3,800	1,660	2,020	1,720	106	94	124	1,090
9	69	217	423	898	3,470	1,540	2,200	1,480	100	113	142	1,020
10	98	205	439	898	3,470	1,430	2,400	1,240	98	142	198	987
11	140	193	439	927	3,160	1,330	2,620	1,090	99	204	237	956
12	187	187	472	927	3,010	1,240	2,620	956	97	304	243	1,160
13	223	187	506	956	2,870	1,160	2,510	819	89	424	210	1,050
14	236	187	542	956	2,870	1,120	2,300	723	78	524	162	927
15	223	187	598	1,020	2,870	1,090	2,200	679	64	598	133	871
16	249	187	746	1,050	3,010	1,050	2,020	618	55	618	101	746
17	317	176	927	1,120	3,310	987	1,940	579	48	542	108	700
18	361	170	1,160	1,160	3,310	987	1,790	542	45	409	142	638
19	407	160	1,430	1,200	3,010	956	1,660	472	41	318	198	579
20	455	155	1,660	1,200	2,740	956	1,480	424	45	267	249	542
21	472	155	1,860	1,200	2,620	956	1,330	379	37	204	279	489
22	489	155	1,860	1,200	2,620	956	1,240	351	35	172	324	472
23	524	155	1,790	1,160	2,400	956	1,160	330	34	193	365	472
24	579	160	1,790	1,120	2,300	956	1,120	304	31	261	365	472
25	618	165	1,790	1,120	2,200	1,050	1,160	285	28	298	318	440
26	618	176	1,720	1,120	2,110	1,240	1,200	279	24	273	255	394
27	618	187	1,660	1,200	1,940	1,430	1,240	285	22	232	198	351
28	598	211	1,600	1,380	2,020	1,540	1,330	279	20	215	172	311
29	560	236	1,480	1,720	-	1,600	1,330	267	22	237	193	267
30	524	262	1,380	1,940	-	1,660	1,480	237	24	232	261	232
31	489	-	1,280	2,400	-	1,720	-	210	-	232	337	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	9,459	618	24	305	0.246	0.28
November	8,652	439	155	222	.179	.20
December	30,430	1,860	289	982	.792	.91
Calendar year 1936	440,234	9,910	9	1,203	.970	13.18
January	36,412	2,400	898	1,175	.948	1.09
February	90,790	5,440	1,940	3,242	2.61	2.72
March	43,510	2,110	956	1,404	1.13	1.30
April	51,570	2,620	1,120	1,719	1.39	1.55
May	33,598	3,630	210	1,084	.874	1.01
June	2,230	182	20	74.3	.060	.07
July	7,637	618	41	246	.198	.23
August	6,674	365	101	215	.173	.20
September	20,569	1,160	232	686	.553	.62
Water year 1936-37	339,531	5,440	20	930	.750	10.18

Catawba River at Catawba, N. C.

Location.- Water-stage recorder, lat. 35°42'50", long. 81°04'10", just below bridge on U. S. Highway 70, a quarter of a mile above Lyle Creek, half a mile above Southern Railway bridge, and 1 mile northeast of Catawba, Catawba County.

Drainage area.- 1,540 square miles (including Lyle Creek).

Records available.- July 1896 to April 1902, November 1934 to September 1937.

Extremes.- Maximum discharge during year, 25,700 second-feet Oct. 17 (gage height, 18.49 feet), from rating curve extended above 18,000 second-feet; minimum, 124 second-feet Aug. 1 (gage height, 2.23 feet).

1896-1902, 1934-37: Maximum discharge observed, 81,500 second-feet May 22, 1901 (gage height, 29.0 feet, former site and datum), from rating curve extended above 10,000 second-feet; minimum, that of Aug. 1, 1937.

Maximum stage known, 44.1 feet July 1916 (by levels of North Carolina State Bridge Department).

Remarks.- Records good except those for periods of incomplete gage-height record, Jan. 4, 5, 7-10, 21, 24-27 (computed from graph drawn on basis of partial gage-height record and observer's notes), and those below 500 second-feet, which are fair. Records include discharge of Lyle Creek. Large diurnal fluctuation from operation of power plant upstream. Flow largely regulated by several reservoirs. Gage-height record collected in cooperation with U. S. Weather Bureau.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1-16				Oct. 17 to Sept. 30					
2.4	180	4.0	1,580	2.2	115	4.0	1,610	10.0	11,250
2.7	320	5.0	2,920	2.5	220	5.0	3,040	12.0	14,650
3.0	520	6.0	4,450	3.0	520	6.0	4,610	14.0	18,050
3.5	1,000	7.0	6,150	3.5	1,010	8.0	7,910	16.0	21,450

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,870	272	3,430	3,460	7,010	3,210	3,750	1,050	2,780	2,230	136	3,950
2	2,920	3,100	3,340	5,420	5,680	4,330	3,620	196	2,320	1,950	1,940	4,140
3	993	4,190	3,010	16,800	5,240	4,260	1,460	3,070	2,510	856	2,470	4,150
4	159	4,160	3,130	13,000	4,390	4,260	176	3,560	2,740	180	1,870	2,990
5	2,330	3,820	2,250	6,200	4,090	4,190	3,020	3,430	802	994	1,760	1,910
6	2,530	4,160	268	5,360	2,880	1,780	3,390	3,220	236	1,550	1,430	3,270
7	2,550	2,700	2,380	4,800	1,400	282	3,230	3,080	2,240	1,350	677	4,090
8	2,420	940	2,410	4,400	3,450	3,340	3,140	1,020	1,860	1,360	240	4,160
9	3,070	2,820	2,300	3,200	4,740	4,290	3,290	170	2,060	1,390	1,890	4,240
10	654	4,210	2,460	380	4,720	4,090	978	2,460	2,680	715	1,880	4,340
11	196	4,140	2,410	3,310	4,600	4,250	173	3,080	2,360	173	1,860	3,870
12	2,250	4,150	928	4,280	4,210	4,060	2,680	3,270	810	1,970	2,020	3,400
13	3,240	4,160	234	4,170	3,130	1,990	2,230	2,750	162	2,370	1,650	4,170
14	3,260	2,470	2,310	4,060	856	180	3,790	2,930	2,030	2,040	617	4,270
15	3,460	175	2,270	3,680	4,370	3,260	3,300	960	2,400	2,150	184	3,970
16	6,490	3,180	2,120	2,030	4,630	4,220	3,200	176	2,890	2,250	1,150	3,860
17	19,300	4,160	2,370	2,040	4,360	4,240	963	2,700	2,540	846	1,320	4,040
18	9,180	4,010	2,500	5,790	4,460	4,280	173	3,250	1,660	159	1,220	2,230
19	7,300	4,060	1,680	15,100	4,150	4,170	2,650	2,890	943	1,890	898	334
20	6,300	4,020	429	16,500	2,570	1,810	3,160	3,300	266	2,340	842	3,230
21	5,600	3,040	2,130	12,000	455	221	3,260	3,380	1,610	2,090	405	3,610
22	4,520	862	2,250	8,410	3,160	3,320	3,300	1,070	2,270	1,750	180	3,290
23	4,060	3,250	2,450	5,530	4,170	3,690	3,140	216	2,300	2,070	872	3,800
24	3,150	4,030	991	6,200	3,800	3,370	1,110	3,010	2,330	946	1,230	3,720
25	434	4,110	173	5,600	4,230	3,030	511	3,150	2,320	256	1,310	1,540
26	2,960	3,160	170	5,800	4,120	2,800	3,160	3,110	1,280	2,130	1,160	179
27	4,310	3,180	222	4,800	1,820	1,370	3,330	3,380	267	2,330	934	3,180
28	4,070	1,990	3,160	4,920	212	275	3,080	3,380	2,190	2,290	474	3,890
29	4,110	354	3,940	5,840	-	1,730	3,480	1,630	2,320	2,430	329	3,490
30	4,210	2,410	3,570	4,420	-	2,900	3,270	232	2,340	2,220	2,820	3,400
31	2,280	-	4,550	3,710	-	3,480	-	2,370	-	746	3,750	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	120,176	19,300	159	3,877	2.52	2.90
November	91,283	4,210	175	3,043	1.98	2.21
December	65,855	4,550	170	2,124	1.38	1.59
Calendar year 1936	981,093	19,300	136	2,681	1.74	23.68
January	191,210	16,800	380	6,168	4.01	4.62
February	102,703	7,010	212	3,668	2.38	2.48
March	92,678	4,330	180	2,990	1.94	2.24
April	76,014	3,790	173	2,534	1.65	1.84
May	71,490	3,560	170	2,306	1.50	1.73
June	55,516	2,890	162	1,851	1.20	1.34
July	48,021	2,430	159	1,549	1.01	1.16
August	39,518	3,750	136	1,275	.828	.95
September	100,713	4,340	179	3,357	2.18	2.43
Water year 1936-37	1,055,157	19,300	136	2,891	1.88	25.49

Wateree River near Camden, S. C.

Location.- Water-stage recorder, lat. 34°14'50", long. 80°39'20", at steel highway bridge, 5,000 feet upstream from Seaboard Air Line Railroad bridge, 3 miles southwest of Camden, Kershaw County, and 7 miles downstream from Wateree Dam. Zero of gage is 119.735 feet above mean sea level.

Drainage area.- 5,010 square miles.

Records available.- January 1903 to June 1910, October 1929 to September 1937.

Extremes.- Maximum discharge during year, 52,500 second-feet Jan. 4 (gage height, 27.26 feet); minimum, 484 second-feet Sept. 27 (gage height, 2.51 feet) caused by shut-down of power plant; minimum daily, 598 second-feet May 23.

1904-10: Maximum discharge, 198,000 second-feet (estimated) Aug. 26, 1908 (gage height, 39.7 feet, from records of U. S. Weather Bureau), at site 1½ miles downstream; minimum daily, 690 second-feet Oct. 21, 1907.

1929-37: Maximum discharge, 168,000 second-feet Apr. 7, 1936 (gage height, 36.63 feet); minimum, about 153 second-feet Oct. 3, 1932, and Dec. 25, 1933 (gage height, 1.49 feet); minimum daily, 202 second-feet Dec. 10, 1933.

Maximum stage known, 40.4 feet July 18, 1916, at site 1½ miles downstream, from records of U. S. Weather Bureau (discharge, 207,000 second-feet, estimated).

Remarks.- Records fair. Large diurnal fluctuation caused by operation of power plant at Wateree Reservoir (capacity, about 7,000,000,000 cubic feet). Gage-height record collected in cooperation with U. S. Weather Bureau.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.5	480	4.0	1,305	6.0	3,080	10.0	7,540	18.0	17,990	25.0	36,090
2.8	610	4.5	1,670	7.0	4,330	12.0	9,740	20.0	22,090	26.0	41,000
3.1	755	5.0	2,080	8.0	5,530	14.0	12,090	22.0	27,090	27.0	49,500
3.5	980	5.5	2,550	9.0	6,540	16.0	14,790	24.0	32,890	28.0	59,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,000	1,420	8,650	7,060	19,500	8,950	10,300	10,500	7,160	4,280	3,710	9,990
2	4,130	5,870	8,860	3,020	28,300	11,800	9,980	4,490	7,070	5,050	5,510	9,890
3	5,170	9,600	8,090	5,510	19,700	11,900	6,100	8,120	7,000	2,970	4,690	11,800
4	1,370	9,060	7,930	35,900	14,700	12,200	1,000	11,200	7,640	1,370	4,400	9,220
5	4,490	8,940	3,660	42,900	12,300	10,400	4,660	10,900	3,370	2,830	3,820	1,780
6	7,140	8,780	1,010	32,900	9,560	7,550	7,430	10,600	764	3,620	3,720	6,390
7	6,120	4,790	5,030	30,100	2,850	1,430	7,240	8,930	3,880	3,860	3,260	9,670
8	5,790	951	5,560	22,900	7,740	6,350	9,310	5,470	2,900	3,290	1,050	9,250
9	6,010	5,740	6,870	14,900	10,500	10,600	9,570	1,010	3,610	3,390	3,350	9,160
10	2,650	8,980	7,130	8,280	17,700	9,980	6,110	5,230	3,250	2,750	3,460	8,610
11	2,540	9,660	6,820	9,290	19,900	10,100	1,460	8,260	2,840	726	3,510	4,810
12	8,330	10,600	3,540	10,300	16,000	10,600	6,450	8,800	2,820	2,670	3,650	1,010
13	10,700	10,200	1,040	9,670	8,450	9,720	11,400	8,260	980	3,960	4,400	6,070
14	10,800	5,700	5,510	10,500	3,950	1,980	11,800	8,250	3,160	5,810	1,750	8,350
15	11,100	1,100	7,490	9,530	9,520	6,940	10,900	2,040	3,710	4,830	811	8,180
16	10,100	6,500	7,640	5,730	12,800	12,900	10,600	849	3,280	3,930	3,330	8,630
17	5,410	8,950	8,140	2,880	11,800	12,200	7,250	5,050	4,470	3,330	3,440	8,320
18	18,100	9,350	8,550	8,060	10,900	11,900	1,330	9,290	6,060	1,240	1,230	3,860
19	27,200	9,210	6,670	11,400	11,000	10,800	6,690	9,700	2,780	3,490	1,830	744
20	21,000	10,100	1,940	23,400	7,070	6,550	11,300	8,770	744	3,290	3,130	5,160
21	14,800	4,780	4,780	44,300	1,830	1,300	8,860	8,070	5,400	3,950	1,890	6,830
22	11,400	836	7,570	36,900	9,650	6,580	8,490	3,100	6,790	3,740	654	7,100
23	9,330	6,420	9,620	25,200	15,700	8,180	7,810	598	7,070	3,000	1,740	7,480
24	7,740	9,550	7,530	17,700	12,600	7,970	5,890	5,460	7,720	1,770	3,570	6,710
25	2,270	9,390	2,310	17,000	9,360	7,520	7,410	7,660	7,240	672	5,610	2,740
26	7,430	7,860	2,610	20,000	9,640	8,920	25,300	8,080	4,050	3,550	5,990	665
27	8,870	7,760	3,840	24,400	7,060	6,010	30,400	7,280	1,070	3,740	5,920	4,350
28	8,460	4,010	7,380	22,000	3,190	2,060	20,100	7,760	3,160	4,240	4,180	5,540
29	8,790	910	8,390	25,200	-	5,870	14,400	3,460	4,240	4,560	2,970	5,760
30	9,530	5,840	8,200	22,300	-	8,950	12,500	868	4,360	3,680	6,190	5,830
31	7,640	-	8,730	15,200	-	9,680	-	4,750	-	3,500	9,310	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	268,410	27,200	1,370	8,658	1.73	1.99
November	202,857	10,600	836	6,762	1.35	1.51
December	191,090	9,620	1,010	6,164	1.23	1.42
Calendar year 1936	3,473,566	137,000	656	9,491	1.89	25.78
January	574,430	44,300	2,880	18,530	3.70	4.27
February	323,270	28,300	1,830	11,550	2.31	2.40
March	257,890	12,900	1,300	8,319	1.66	1.91
April	292,040	30,400	1,000	9,735	1.94	2.16
May	202,805	11,200	598	6,542	1.31	1.51
June	128,588	7,720	744	4,286	.855	.95
July	103,088	5,810	672	3,325	.664	.77
August	112,075	9,310	654	3,615	.722	.83
September	193,899	11,800	665	6,463	1.29	1.44
Water year 1936-37	2,850,442	44,300	598	7,809	1.56	21.16

Santee River at Ferguson, S. C.

Location.- Water-stage recorder, lat. 33°26'15", long. 80°16'20", at Ferguson, Orangeburg County, 4 miles downstream from mouth of Eutaw Creek. Zero of gage is 42.81 feet above mean sea level.

Drainage area.- 14,800 square miles.

Records available.- December 1907 to September 1937.

Average discharge.- 29 years (1908-37), 19,140 second-feet.

Extremes.- Maximum discharge during year, 59,000 second-feet Jan. 11 (gage height, 14.19 feet); minimum, 7,750 second-feet Aug. 17 (gage height 5.47 feet).
1907-37: Maximum discharge, 368,000 second-feet July 22, 1916 (gage height, 24.5 feet), from rating curve extended above 280,000 second-feet; minimum, 2,570 second-feet Sept. 2, 1925 (gage height, -0.75 foot). Minimum stage caused by regulation or storage reservoirs upstream.

Remarks.- Records good. Discharge for Mar. 21-24, Apr. 3-9 computed from graph drawn on basis of partial recorder record and daily gage readings. No daily fluctuation, but very distinct weekly fluctuations during medium and low-water periods caused by power plants at Wateree (formerly known as Camden) Reservoir, on Wateree River (capacity, about 7,000,000,000 cubic feet), and Lake Murray, on Saluda River (capacity, about 92,000,000,000 cubic feet). Gage-height record collected in cooperation with U. S. Weather Bureau.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

5.0	7,140	8.0	11,180	12.0	20,030
5.5	7,750	9.0	12,740	13.0	27,250
6.0	8,400	10.0	14,520	14.0	53,000
7.0	9,740	11.0	16,720	15.0	83,000

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16,000	30,500	14,500	20,500	50,000	32,500	24,100	50,000	14,900	17,800	19,200	22,600
2	17,200	28,800	16,200	22,000	50,000	30,500	23,300	50,000	15,600	19,200	18,800	23,300
3	18,500	24,100	19,200	23,300	50,000	30,500	22,600	50,000	17,500	19,600	18,500	24,100
4	20,000	22,600	20,500	26,000	50,000	28,800	22,000	47,000	18,800	19,600	17,800	25,000
5	20,900	23,300	20,900	30,500	47,000	28,800	21,400	44,000	19,200	17,500	16,700	26,000
6	22,000	23,300	22,000	38,000	47,000	28,800	21,400	38,000	19,600	14,000	15,300	26,000
7	22,000	23,300	20,900	50,000	47,000	28,800	23,300	32,500	18,800	12,700	14,500	25,000
8	22,600	23,300	16,700	56,000	47,000	28,800	25,000	30,500	15,100	14,300	13,800	23,300
9	23,300	21,400	17,800	56,000	44,000	27,200	27,200	28,800	15,100	15,300	12,400	22,600
10	23,300	15,800	20,000	59,000	41,000	26,000	32,500	27,200	16,000	16,000	10,300	22,600
11	24,100	17,000	21,400	59,000	41,000	25,000	41,000	22,600	16,200	16,200	10,700	23,300
12	25,000	18,800	22,000	56,000	38,000	24,100	44,000	20,900	16,000	14,700	11,800	25,000
13	26,000	20,500	22,000	53,000	41,000	24,100	44,000	20,900	15,100	10,700	12,400	27,200
14	28,800	21,400	22,000	50,000	44,000	24,100	41,000	21,400	12,600	11,800	12,700	28,800
15	38,000	22,000	19,600	47,000	47,000	24,100	35,000	22,000	9,460	14,000	12,600	27,200
16	47,000	22,600	19,600	41,000	47,000	23,300	32,500	22,600	12,300	15,300	10,600	27,200
17	47,000	19,600	20,900	38,000	47,000	24,100	30,500	22,600	14,900	15,800	8,140	26,000
18	47,000	20,000	22,000	35,000	44,000	24,100	28,800	21,400	16,200	16,000	10,400	26,000
19	44,000	21,400	23,300	30,500	41,000	25,000	27,200	20,500	16,700	14,300	12,900	25,000
20	41,000	20,900	25,000	28,800	38,000	26,000	25,000	20,500	17,800	10,900	13,400	25,000
21	44,000	22,600	27,200	27,200	35,000	27,200	23,300	20,900	18,500	12,600	13,400	20,900
22	50,000	23,300	27,200	27,200	32,500	27,200	22,600	20,900	18,500	14,300	13,800	19,600
23	53,000	22,000	27,200	28,800	32,500	28,800	23,300	20,500	18,800	15,100	11,900	20,000
24	53,000	16,500	27,200	35,000	30,500	28,800	23,300	18,600	19,600	15,600	9,880	20,000
25	50,000	17,800	27,200	44,000	30,500	28,800	25,000	14,500	20,000	15,800	11,800	20,000
26	47,000	20,000	27,200	53,000	32,500	27,200	25,000	15,900	20,000	13,100	14,900	20,500
27	41,000	21,400	25,000	53,000	32,500	27,200	27,200	17,800	20,500	10,300	17,200	18,800
28	35,000	21,400	19,600	53,000	35,000	28,800	28,800	18,800	18,800	14,500	18,800	13,800
29	32,500	22,000	17,200	50,000	-	28,800	35,000	19,200	14,700	17,200	20,000	15,100
30	30,500	20,000	18,500	50,000	-	27,200	47,000	20,000	15,600	18,500	20,900	17,200
31	30,500	-	19,600	50,000	-	26,000	-	19,200	-	18,800	22,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,040,200	53,000	16,000	33,550	2.27	2.62
November	647,600	30,500	15,800	21,590	1.46	1.63
December	669,600	27,200	14,500	21,600	1.46	1.68
Calendar year 1936	10,693,480	242,000	7,020	29,220	1.97	26.86
January	1,290,800	59,000	20,500	41,640	2.81	3.24
February	1,162,000	50,000	30,500	41,500	2.80	2.92
March	840,600	32,500	23,300	27,120	1.83	2.11
April	872,300	47,000	21,400	29,080	1.96	2.19
May	819,900	50,000	14,500	26,450	1.79	2.06
June	502,860	20,500	9,460	16,760	1.13	1.26
July	471,500	19,600	10,300	15,210	1.03	1.19
August	447,520	22,000	8,140	14,440	.976	1.13
September	687,100	28,800	13,800	22,900	1.55	1.73
Water year 1936-37	9,451,980	59,000	8,140	25,900	1.75	23.76

Linville River at Branch, N. C.

Location.- Water-stage recorder, lat. 35°47'50", long. 81°53'20", at steel highway bridge at Branch, Burke County, a quarter of a mile above Lake James. Prior to Aug. 12, 1937, staff gage at same site and datum.

Drainage area.- 65 square miles.

Records available.- June 1922 to September 1937.

Average discharge.- 15 years, 138 second-feet.

Extremes.- Maximum discharge during year, 7,280 second-feet Oct. 16 (gage height, 7.99 feet, from graph based on gage readings), from rating curve extended above 1,500 second-feet; minimum, 28 second-feet July 19 (gage height, 1.62 feet).
1922-37: Maximum discharge, 16,800 second-feet Aug. 15, 1928 (gage height, about 12.0 feet, from floodmarks), from rating curve extended above 1,500 second-feet; minimum observed, 7 second-feet Sept. 8, 1925 (gage height, 1.28 feet).

Remarks.- Records good except those above 4,000 second-feet, which are poor. Discharge for days of rapidly changing stage prior to installation of water-stage recorder computed from graphs based on gage readings.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 19				Jan. 19 to Sept. 30			
1.8	54	3.5	915	1.6	26	2.6	295
2.0	95	4.0	1,390	1.8	52	3.0	535
2.3	186	5.0	2,490	2.0	87	3.5	900
2.6	321	6.0	3,800	2.3	167	4.0	1,370
3.0	551	7.0	5,400				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	158	108	67	551	295	126	76	152	68	44	96	492
2	88	103	77	1,090	266	118	72	139	68	45	58	256
3	86	103	91	1,420	229	126	72	131	72	36	46	196
4	75	108	84	616	203	126	72	120	78	41	46	177
5	73	130	69	460	185	128	174	115	72	39	45	152
6	69	124	69	489	178	131	229	131	79	46	44	225
7	67	116	253	374	167	120	161	120	68	52	45	212
8	142	118	158	369	192	136	148	110	68	46	46	280
9	796	116	136	266	185	136	174	92	89	45	51	237
10	353	172	121	291	242	120	131	87	79	45	49	155
11	306	118	145	222	174	115	126	87	72	63	189	152
12	248	113	148	240	171	110	120	87	62	78	203	133
13	158	124	145	266	167	110	110	126	68	55	110	118
14	113	111	139	262	167	105	110	440	49	38	85	105
15	495	95	121	262	148	115	105	212	54	38	70	94
16	5,000	91	130	311	145	108	96	167	52	38	52	89
17	1,330	86	158	271	136	103	87	142	76	33	51	83
18	584	88	130	489	131	98	87	155	68	31	52	78
19	321	80	182	910	126	101	87	185	96	31	62	76
20	266	75	172	935	131	101	87	101	65	49	49	70
21	210	73	158	635	185	98	83	123	60	41	48	68
22	182	73	148	440	229	94	83	98	46	38	56	65
23	162	71	139	404	167	89	89	113	49	39	100	63
24	148	71	130	290	167	89	85	98	49	44	79	49
25	136	67	124	290	164	96	203	85	55	44	76	57
26	124	71	124	251	139	89	203	83	57	62	74	58
27	116	69	127	237	131	87	158	78	54	55	65	60
28	121	64	158	189	136	85	133	78	52	51	55	54
29	116	76	235	380	-	83	152	78	46	45	81	58
30	111	71	271	251	-	79	181	78	49	48	512	45
31	113	-	915	280	-	83	-	72	-	65	1,060	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	12,267	5,000	67	396	6.09	7.02
November	2,884	172	64	96.1	1.48	1.65
December	5,124	915	67	165	2.54	2.93
Calendar year 1936	66,810	5,000	30	183	2.82	38.20
January	13,741	1,420	189	443	6.82	7.86
February	4,956	295	126	177	2.72	2.83
March	3,305	136	79	107	1.65	1.90
April	3,694	229	72	123	1.89	2.11
May	3,913	440	72	126	1.94	2.24
June	1,920	96	46	64.0	.985	1.10
July	1,425	78	31	46.0	.708	.82
August	3,655	1,060	44	118	1.82	2.10
September	3,957	492	45	132	2.03	2.26
Water year 1936-37	60,841	5,000	31	167	2.57	34.87

Little Sugar Creek near Charlotte, N. C.

Location.- Water-stage recorder and concrete control, lat. 35°09'15", long. 80°51'10", just above sewage-disposal plant of city of Charlotte, a quarter of a mile below mouth of Brier Creek and 5 miles south of Charlotte, Mecklenburg County. Zero of gage is 571.6 feet above mean sea level (City of Charlotte, N. C., datum).

Drainage area.- 41.4 square miles.

Records available.- July 1924 to September 1937.

Average discharge.- 13 years, 47.4 second-feet.

Extremes.- Maximum discharge during year, 4,280 second-feet Apr. 25 (gage height 11.94 feet), from rating curve extended above 2,000 second-feet; minimum, 6.7 second-feet Sept. 26 (gage height, 1.68 feet).

1924-37: Maximum discharge, 8,370 second-feet Apr. 6, 1936 (gage height, 16.2 feet, from floodmarks), from rating curve extended above 2,000 second-feet; minimum, 1.6 second-feet July 30, Aug. 1, 1925.

Remarks.- Records between 200 and 2,500 second-feet are good; and others are fair except those for periods of incomplete gage-height record, which are poor. Discharge for Oct. 2-25, Nov. 2-4, Dec. 1-4, 10-12, Jan. 11-16, Jan. 30 to Feb. 2, Feb. 15-17, Apr. 2-4, 21, 22, May 15, 16, July 3, Aug. 20-23, Sept. 16, 25 computed on basis of fragmentary gage-height record, rainfall record, and records for North Fork of Jones Creek near Wadesboro.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.7	7.5	2.4	100	3.3	295	5.0	638	7.0	1,255
1.8	13	2.6	147	3.8	349	5.5	760	8.0	1,720
1.9	20	2.8	195	4.0	426	6.0	900	9.0	2,270
2.0	30	3.0	239	4.5	528	6.5	1,060	10.0	2,890
2.2	60								

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	80	18	17	128	222	71	34	43	18	16	8.0	11
2	60	18	18	334	68	58	33	38	15	13	7.5	10
3	46	18	22	540	52	45	31	35	16	14	21	10
4	40	19	30	116	45	42	60	33	34	18	18	10
5	22	27	19	160	43	38	168	39	23	25	10	9.2
6	17	19	19	222	38	35	102	38	14	14	12	54
7	280	19	189	109	36	34	42	28	73	15	37	34
8	240	19	62	81	35	84	56	28	30	14	44	24
9	180	19	38	68	98	45	60	28	61	12	30	15
10	120	19	35	64	73	38	35	27	28	11	74	11
11	100	19	184	57	50	35	29	27	19	11	14	11
12	80	100	75	50	46	34	27	25	16	11	47	9.7
13	60	42	48	46	38	33	26	28	14	9.2	166	9.2
14	50	28	40	40	33	33	26	229	14	29	24	9.2
15	40	24	54	38	30	139	32	88	16	35	16	9.2
16	240	22	327	35	28	68	49	43	19	13	13	9.2
17	180	21	102	215	26	48	28	34	340	38	12	8.6
18	100	21	66	107	24	53	26	29	108	27	11	8.6
19	40	20	140	147	24	43	25	27	31	13	10	8.6
20	30	20	124	234	75	57	24	25	46	11	9	8.6
21	23	20	60	130	236	45	22	23	22	11	9	8.6
22	19	19	40	94	111	36	21	22	19	11	10	8.6
23	18	19	34	73	60	35	16	22	16	10	10	8.0
24	18	19	33	62	52	79	674	20	15	10	14	8.0
25	18	26	29	239	46	66	1,040	21	13	220	11	7.1
26	17	19	27	196	39	45	157	20	46	31	11	6.7
27	18	18	28	90	38	39	64	19	16	11	11	59
28	18	17	29	278	58	38	62	18	14	11	11	14
29	18	16	39	238	-	35	60	19	14	9.7	19	11
30	18	16	34	102	-	35	55	19	16	8.6	25	10
31	16	-	159	83	-	35	-	16	-	8.0	13	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,208	280	17	71.2	1.72	1.98
November	701	100	16	23.4	.565	.63
December	2,121	327	17	68.4	1.65	1.90
Calendar year 1936	34,918.8	3,580	6.6	95.4	2.30	31.38
January	4,376	540	35	141	3.41	3.93
February	1,724	236	24	61.6	1.49	1.55
March	1,521	139	33	49.1	1.19	1.37
April	3,084	1,040	16	103	2.49	2.78
May	1,111	229	16	35.8	.865	1.00
June	1,126	340	13	37.5	.906	1.01
July	690.5	220	8.0	22.3	.539	.62
August	727.5	166	7.5	23.5	.568	.65
September	421.1	59	6.7	14.0	.338	.38
Water year 1936-37	19,811.1	1,040	6.7	54.3	1.31	17.80

Broad River near Chimney Rock, N. C.

Location.- Water-stage recorder, lat. 35°25'35", long. 82°10'45", 1,000 feet below Lake Lure Dam and 3 miles east of Chimney Rock, Rutherford County.

Drainage area.- 97 square miles.

Records available.- March 1927 to September 1937, May 1907 to June 1909, at Uree, 1 1/8 miles downstream.

Average discharge.- 10 years (1927-37), 178 second-feet.

Extremes.- Maximum discharge during year, 13,700 second-feet Oct. 16 (gage height, 11.2 feet), from rating curve extended above 4,140 second-feet on basis of computations of approximate discharge over Lake Lure Dam; minimum, 1.3 second-feet Nov. 18 (gage height, 0.36 foot); minimum daily discharge, 2.8 second-feet June 13.
1907-9, 1927-37: Maximum discharge, 20,500 second-feet Aug. 15, 1928 (gage height, 15.0 feet), from computation of approximate discharge over Lake Lure Dam; minimum, 0.7 second-foot Sept. 13, 1928 (gage height, 0.26 foot); minimum daily, 0.8 second-foot Sept. 13, 14, 1928.

Remarks.- Records good between 5 and 5,000 second-feet, fair below 5 second-feet, and poor above 5,000 second-feet. Large diurnal fluctuation caused by operation of power plant at dam. Flow below 200 second-feet regulated by storage in Lake Lure.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.4	1.5	1.3	134	3.0	1,170	7.0	8,200
.6	6.8	1.6	250	4.0	2,330	8.0	9,500
.8	20	2.0	460	5.0	4,450	9.0	10,700
1.0	48	2.5	780	6.0	6,640	10.0	11,970

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	709	159	117	777	426	292	122	202	163	83	127	540
2	274	202	120	822	385	249	252	140	89	85	153	372
3	150	153	247	978	371	250	160	251	159	90	151	160
4	79	227	156	816	334	248	218	161	162	4.0	81	44
5	156	152	139	637	336	246	534	164	160	157	83	3.1
6	156	160	114	618	335	272	317	253	87	85	84	126
7	151	195	396	540	292	163	266	253	158	153	86	350
8	983	163	201	466	353	285	365	200	155	85	3.3	630
9	1,250	124	244	416	481	214	222	74	83	84	153	405
10	650	150	155	290	332	234	313	247	162	95	83	242
11	512	244	203	337	311	234	189	158	162	3.1	85	261
12	342	298	246	339	354	152	290	150	166	155	155	3.1
13	151	133	76	370	351	265	162	147	2.8	157	86	243
14	233	290	236	272	200	163	161	285	250	83	168	153
15	243	117	156	336	312	277	262	242	161	82	156	36
16	5,420	154	236	341	352	145	250	125	155	83	246	152
17	1,150	77	153	337	292	238	221	152	159	46	158	136
18	836	157	159	342	256	238	125	155	80	2.9	88	37
19	656	154	362	716	260	148	285	159	152	93	87	3.3
20	449	238	251	902	360	257	162	160	2.9	156	87	170
21	270	159	252	774	404	118	163	165	160	85	46	238
22	359	74	251	630	326	230	252	164	86	84	2.9	152
23	228	237	139	559	315	153	251	89	89	86	158	85
24	371	76	249	514	294	236	217	257	87	45	364	83
25	163	158	246	459	340	153	332	84	83	2.9	293	86
26	194	156	155	369	165	241	297	160	89	154	82	3.1
27	218	156	153	340	262	231	236	156	3.1	153	85	148
28	227	160	334	454	248	121	257	91	164	153	88	149
29	241	2.9	326	392	-	242	257	163	86	226	3.1	83
30	233	250	310	335	-	156	260	86	85	240	382	85
31	190	-	629	495	-	163	-	164	-	120	572	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	17,244	5,420	79	556	5.73	6.61
November	4,975.9	298	2.9	166	1.71	1.91
December	7,011	629	76	226	2.33	2.69
Calendar year 1936	97,869.3	5,420	2.2	267	2.75	37.51
January	15,973	978	272	515	5.31	6.12
February	9,047	481	165	323	3.33	3.47
March	6,614	292	118	213	2.20	2.54
April	7,398	534	122	247	2.55	2.84
May	5,257	285	74	170	1.75	2.02
June	3,600.8	250	2.8	120	1.24	1.38
July	3,130.9	240	2.9	101	1.04	1.20
August	4,396.3	572	2.9	142	1.46	1.68
September	5,178.6	630	3.1	173	1.78	1.99
Water year 1936-37	89,826.5	5,420	2.8	246	2.54	34.45

Broad River near Boiling Springs, N. C.

Location.- Water-stage recorder, lat. 35°12'35", long. 81°41'55", half a mile above mouth of Sandy Run Creek and 3½ miles southwest of Boiling Springs, Cleveland County.

Drainage area.- 815 square miles.

Records available.- June 1925 to September 1937.

Average discharge.- 12 years, 1,451 second-feet.

Extremes.- Maximum discharge during year, 26,000 second-feet Oct. 17 (gage height, 14.85 feet); minimum, 453 second-feet July 18 (gage height, 1.67 feet); minimum daily, 534 second-feet July 18.
1925-37: Maximum discharge, 56,800 second-feet Aug. 16, 1928 (gage height, 24.3 feet, present datum), from rating curve extended above 28,000 second-feet; minimum, 186 second-feet Sept. 21, 22, 1925; minimum daily, 232 second-feet Sept. 20, 1925.

Remarks.- Records good. Considerable diurnal fluctuation caused by operation of power plant.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Jan. 4-18

Oct. 1 to Jan. 18				Jan. 19 to Sept. 30					
2.0	615	6.0	5,700	1.7	480	5.0	4,310	10.0	13,600
2.5	1,105	7.0	7,350	2.0	750	6.0	5,780	11.0	16,000
3.0	1,640	8.0	9,200	2.5	1,250	7.0	7,410	12.0	18,500
3.5	2,220	10.0	13,600	3.0	1,800	8.0	9,200	13.0	21,100
4.0	2,820	12.0	18,500	4.0	3,000	9.0	11,300	14.0	23,800
5.0	4,150	13.0	21,100						

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,380	925	1,340	9,390	3,870	2,030	1,480	1,670	1,430	1,030	1,040	2,640
2	2,280	984	1,040	10,400	3,320	2,360	1,500	1,420	1,470	1,000	980	2,100
3	1,460	1,300	1,130	16,200	2,970	2,260	1,520	1,320	1,390	741	1,130	1,690
4	925	1,210	1,210	7,930	2,850	2,160	1,490	1,600	1,400	616	977	1,480
5	833	1,310	1,070	4,460	2,800	2,060	1,810	1,710	1,290	670	1,040	1,290
6	1,100	1,210	870	4,480	2,490	2,130	2,800	1,890	1,000	1,680	1,020	1,110
7	1,150	1,140	1,310	3,720	2,000	1,640	2,270	1,670	923	1,290	989	2,010
8	4,540	915	1,670	3,140	2,070	1,510	2,190	1,560	1,240	1,190	820	7,500
9	12,000	925	1,310	2,820	3,560	2,190	2,630	1,520	1,320	1,100	768	3,950
10	7,780	1,340	1,260	2,580	3,890	2,010	2,080	1.280	1,520	1,010	1,370	2,550
11	3,770	1,390	1,480	2,280	2,970	2,060	2,100	1,460	1,270	724	1,180	2,000
12	2,580	1,390	1,430	2,140	2,830	2,050	1,920	1,470	1,260	690	1,010	1,590
13	2,240	1,530	974	2,350	2,560	1,770	1,920	1,500	974	1,060	927	1,080
14	1,930	1,480	815	1,900	2,300	1,560	1,780	2,170	840	1,090	1,210	1,630
15	1,720	906	1,140	2,060	2,100	1,480	1,800	1,800	1,310	928	1,280	1,320
16	10,500	860	1,140	2,130	2,360	2,190	1,870	1,410	1,240	837	1,120	1,160
17	21,700	1,270	1,380	2,010	2,410	2,000	1,780	1,210	2,170	741	1,280	1,240
18	5,490	1,030	1,140	2,130	2,240	1,850	1,630	1,380	1,570	534	1,210	1,120
19	3,430	1,090	1,670	10,700	2,230	1,760	1,360	1,440	1,260	561	1,020	810
20	2,830	1,090	2,790	12,500	2,190	1,670	1,700	1,410	1,020	982	933	780
21	2,320	1,130	2,060	7,140	2,670	1,640	1,560	1,420	842	1,330	1,000	1,140
22	1,920	815	1,970	4,660	3,020	1,340	1,570	1,340	1,150	1,070	1,170	1,200
23	2,020	766	1,630	3,910	2,830	1,950	1,670	1,090	1,100	1,040	1,660	1,040
24	1,910	1,070	1,310	3,680	2,600	1,860	2,300	1,150	1,080	1,200	2,770	939
25	1,370	1,040	1,370	3,200	2,460	2,030	2,740	1,700	910	919	2,610	940
26	1,220	1,060	1,330	3,120	2,420	1,890	2,200	1,290	927	1,120	2,000	666
27	1,770	1,050	1,230	2,890	2,160	1,640	2,340	1,350	812	1,580	1,230	769
28	1,760	1,010	1,080	3,330	1,880	1,300	2,180	1,560	900	1,410	1,120	1,080
29	1,390	767	4,310	4,000	-	1,250	2,090	1,370	1,120	1,890	969	1,110
30	1,390	653	3,680	2,860	-	1,590	1,940	1,050	1,080	2,940	3,250	1,010
31	1,690	-	8,810	3,140	-	1,520	-	991	-	1,590	3,620	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	111,398	21,700	833	3,593	4.41	5.08
November	32,656	1,530	653	1,089	1.34	1.50
December	54,949	8,810	815	1,773	2.18	2.51
Calendar year 1936	796,778	21,700	511	2,177	2.67	36.33
January	147,250	16,200	1,900	4,750	5.83	6.72
February	74,050	3,890	1,880	2,645	3.25	3.38
March	56,750	2,360	1,250	1,831	2.25	2.59
April	58,220	2,800	1,360	1,941	2.38	2.66
May	45,201	2,170	991	1,458	1.79	2.06
June	35,818	2,170	812	1,194	1.47	1.64
July	34,563	2,940	534	1,115	1.37	1.58
August	42,703	3,620	768	1,378	1.69	1.95
September	48,944	7,500	666	1,631	2.00	2.23
Water year 1936-37	742,502	21,700	534	2,034	2.50	33.90

Broad River at Richtex, S. C.

Location.- Water-stage recorder, lat. 34°11', long. 81°12', 1 mile upstream from mouth of Little River at Richtex, Fairfield County. Zero of gage is 184.98 feet above mean sea level (general adjustment of 1929).

Drainage area.- 4,800 square miles.

Records available.- November 1925 to September 1937.

Extremes.- Maximum discharge during year, 72,400 second-feet Oct. 18 (gage height, 16.12 feet); minimum, 265 second-feet June 28 (gage height, 0.45 foot); minimum daily discharge, 855 second-feet Nov. 29.

1925-37: Maximum discharge, 228,000 second-feet Oct. 3, 1929 (gage height, 30.7 feet) from rating curve extended above 90,000 second-feet; minimum, about 113 second-feet Sept. 21, 1931 (gage height, 0.23 foot); minimum daily discharge, about 149 second-feet Oct. 13, 1935.

Remarks.- Records good except those for Nov. 1-7, Jan. 28-30, which were computed on basis of partial recorder record and power-plant records at Parr Shoals, and are fair. Diurnal fluctuation caused by operation of Parr Shoals hydroelectric plant 11 miles upstream.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1-8

2.0	2,900	5.0	12,200
2.5	4,220	6.0	16,000
3.0	5,650	7.0	19,800
3.5	7,100	8.0	23,750
4.0	8,680		

Oct. 9 to Sept. 30

0.9	750	3.5	7,100	8.0	24,650
1.2	1,225	4.0	8,680	10.0	35,050
1.5	1,795	5.0	12,200	12.0	46,800
2.0	2,900	6.0	16,050	14.0	58,800
2.5	4,220	7.0	20,150	16.0	71,700
3.0	5,650				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22,000	1,100	3,860	29,400	15,400	8,240	5,770	8,410	4,210	4,760	9,040	11,000
2	21,800	3,800	3,620	39,000	18,300	8,220	5,820	5,280	5,100	3,680	6,360	7,300
3	15,200	3,800	4,550	43,200	13,400	8,060	3,920	6,700	3,940	2,210	5,010	6,280
4	8,340	3,600	4,610	60,000	10,600	7,780	4,750	6,010	5,460	2,060	3,930	6,230
5	5,300	3,800	5,650	58,800	9,700	7,370	10,100	6,110	5,110	2,340	3,670	4,540
6	4,060	3,800	1,540	37,800	8,200	6,500	19,100	6,400	3,760	2,600	4,040	3,240
7	3,870	3,600	4,980	27,000	7,500	5,660	17,400	6,340	2,580	4,410	4,130	4,630
8	4,190	1,750	10,400	18,500	8,080	7,320	12,600	6,260	4,600	5,440	2,720	11,700
9	21,700	3,740	8,020	13,000	9,460	7,220	16,100	3,230	3,980	4,460	2,870	16,500
10	41,400	3,960	6,500	10,900	17,200	6,740	13,000	4,950	4,660	3,520	3,420	16,600
11	38,300	3,890	6,050	10,600	17,600	6,470	8,600	5,660	4,560	1,800	4,230	12,200
12	22,700	5,110	8,020	9,500	12,000	6,280	8,080	5,530	4,100	3,280	5,160	7,180
13	10,800	5,730	6,280	8,700	9,020	5,430	7,380	5,120	1,690	3,430	4,040	4,420
14	6,980	5,960	5,520	8,160	8,700	5,330	7,350	7,020	4,050	3,500	3,940	4,500
15	6,410	1,890	6,030	7,840	8,680	7,060	6,940	11,300	3,840	3,400	2,880	4,780
16	8,490	4,810	10,000	6,800	8,520	8,100	7,980	8,830	5,520	4,000	4,530	3,840
17	35,300	4,140	12,700	6,360	7,580	8,350	6,970	6,640	4,390	3,000	3,640	4,090
18	63,000	3,960	7,960	10,400	7,420	7,370	5,180	6,440	7,590	1,860	3,500	3,820
19	48,400	3,930	6,760	11,500	7,100	7,160	6,450	5,740	9,650	2,980	3,610	1,300
20	13,900	4,050	13,800	31,200	6,570	6,820	6,180	4,760	12,200	3,060	3,360	2,490
21	8,620	4,780	14,400	48,000	12,200	6,180	5,990	4,590	7,570	2,880	2,740	2,890
22	6,510	995	9,820	36,200	17,900	7,180	6,140	4,560	4,990	2,980	1,970	2,940
23	6,650	2,980	7,790	19,500	14,000	6,900	6,000	2,210	3,920	3,600	2,810	3,140
24	6,360	4,000	5,940	12,900	10,400	6,700	7,610	5,230	3,320	3,250	6,850	3,360
25	3,100	3,880	5,650	12,000	9,080	9,360	34,100	5,840	3,520	1,640	11,200	3,340
26	5,400	3,920	4,260	20,000	8,260	8,770	39,000	5,060	3,810	6,120	13,700	1,320
27	5,180	3,560	4,800	16,400	7,090	7,200	23,000	5,060	1,370	9,490	9,800	2,360
28	4,860	3,960	6,400	14,000	7,080	5,020	11,900	4,460	2,540	5,360	8,680	4,600
29	4,900	855	5,730	22,000	-	6,250	9,590	6,170	5,200	3,960	7,700	4,200
30	4,760	2,860	8,180	20,000	-	6,140	9,660	2,980	6,800	4,000	8,350	3,200
31	5,180	-	17,600	12,600	-	6,180	-	4,260	-	7,300	10,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	463,660	63,000	3,100	14,960	3.12	3.60
November	108,210	5,960	855	3,607	.751	.84
December	227,420	17,600	1,540	7,336	1.53	1.76
Calendar year 1936	3,783,245	145,000	855	10,340	2.15	29.32
January	682,260	60,000	6,360	22,010	4.59	5.29
February	297,040	18,300	6,570	10,610	2.21	2.30
March	217,360	9,360	5,020	7,012	1.46	1.68
April	332,660	39,000	3,920	11,090	2.31	2.58
May	177,150	11,300	2,210	5,715	1.19	1.37
June	144,030	12,200	1,370	4,801	1.00	1.12
July	116,370	9,490	1,640	3,754	.782	.90
August	168,380	13,700	1,970	5,432	1.13	1.30
September	167,990	16,600	1,300	5,600	1.17	1.30
Water year 1936-37	3,102,530	63,000	855	8,500	1.77	24.04

Second Broad River at Cliffside, N. C.

Location.- Water-stage recorder, lat. 35°14'15", long. 81°46'25", at Cliffside, Rutherford County, 2 miles above mouth.

Drainage area.- 230 square miles.

Records available.- June 1925 to September 1937.

Average discharge.- 12 years, 310 second-feet.

Extremes.- Maximum discharge during year, 4,600 second-feet Jan. 20 (gage height, 6.12 feet); minimum, 10 second-feet Aug. 3 (gage height, 0.40 foot); minimum daily discharge, 59 second-feet July 18.
1925-37: Maximum discharge, 15,000 second-feet Aug. 16, 1928 (gage height, 17.26 feet), from rating curve extended above 9,100 second-feet; minimum, 8 second-feet July 26, 1934; minimum daily discharge, 11 second-feet Oct. 4, 1931.

Remarks.- Records good except those for periods when recorder clock was stopped or pencil not recording on chart, Oct. 27, 28, Jan. 7-19, Feb. 11-19, Feb. 27 to Mar. 2, July 10-12 (computed on basis of range in stage shown on recorder chart and records for Broad River near Boiling Springs), which are poor. Large diurnal fluctuation caused by operation of Cliffside Mills, a quarter of a mile upstream.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 18 to Jan. 7, Aug. 26 to Sept. 9)

0.6	17	1.6	280	4.0	2,350
.8	36	2.0	480	5.0	3,500
1.0	76	2.5	840	6.0	4,500
1.3	168	3.0	1,260		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	930	117	166	2,700	906	400	270	284	218	209	204	418
2	289	220	171	2,450	691	348	326	309	218	193	256	258
3	190	160	160	3,950	535	376	226	360	216	152	229	203
4	207	182	198	2,620	487	356	288	278	219	90	135	145
5	247	186	131	980	512	346	512	325	164	176	173	224
6	206	179	141	991	367	310	629	380	212	255	164	280
7	218	132	440	950	388	337	466	258	270	208	144	511
8	901	165	327	800	434	401	425	229	208	189	109	986
9	2,980	172	223	700	654	378	515	268	210	197	224	693
10	2,070	169	188	600	892	320	367	338	326	120	278	342
11	728	160	222	500	650	355	385	246	208	190	196	275
12	459	186	189	480	600	309	414	277	220	195	188	264
13	403	243	206	550	500	265	337	289	131	193	197	278
14	328	226	232	440	440	311	347	489	287	175	115	224
15	332	109	187	380	380	393	352	332	235	156	152	210
16	1,820	212	197	400	420	374	315	295	233	130	206	190
17	3,320	154	189	380	440	321	267	354	692	116	206	204
18	948	148	199	400	420	310	297	241	298	59	242	116
19	490	165	346	2,950	400	354	371	267	255	168	170	174
20	297	142	777	4,100	383	275	271	249	240	167	183	242
21	262	125	500	2,160	354	337	306	271	278	159	125	188
22	275	163	356	1,010	585	355	323	182	220	171	144	189
23	210	209	302	729	657	328	302	234	206	175	418	160
24	259	147	228	706	483	333	332	387	210	293	682	179
25	149	163	244	702	451	333	782	226	178	276	471	136
26	260	160	231	622	370	319	642	224	154	506	426	100
27	218	148	222	528	400	267	431	228	208	478	148	241
28	176	103	301	634	420	311	369	388	254	283	144	206
29	136	149	874	944	-	378	394	266	192	536	246	190
30	154	186	1,030	606	-	301	337	241	204	634	912	210
31	209	-	2,010	674	-	311	-	282	-	222	1,180	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	19,571	3,320	76	631	2.74	3.16
November	4,980	243	103	166	.722	.81
December	11,187	2,010	131	361	1.57	1.81
Calendar year 1936	171,515	6,240	76	469	2.04	27.74
January	36,636	4,100	380	1,182	5.14	5.93
February	14,219	906	354	508	2.21	2.30
March	10,412	401	265	336	1.46	1.68
April	11,598	782	226	387	1.68	1.87
May	8,997	489	182	290	1.26	1.45
June	7,164	692	131	239	1.04	1.16
July	7,071	634	59	228	.991	1.14
August	8,667	1,180	109	280	1.22	1.41
September	8,036	986	100	268	1.17	1.30
Water year 1936-37	148,538	4,100	59	407	1.77	24.02

North Pacolet River at Fingerville, S. C.

Location.- Water-stage recorder, lat. 35°07', long. 81°59', at McMillin mill, about 400 feet downstream from mouth of Obed Creek, and 1 mile south of Fingerville, Spartanburg County. Zero of gage is 715.82 feet above mean sea level.

Drainage area.- 116 square miles.

Records available.- November 1929 to September 1937.

Extremes.- Maximum discharge during year, 7,290 second-feet Oct. 17 (gage height, 21.23 feet), from rating curve extended above 1,050 second-feet; minimum, 66 second-feet July 16; minimum daily, 104 second-feet July 17.
1929-37: Maximum discharge, that of Oct. 17, 1936; minimum, about 13 second-feet several times in October 1931; minimum daily, about 34 second-feet Oct. 1, 2, 1931.

Remarks.- Records fair. Diurnal fluctuation caused by operation of mills upstream. Discharge computed by use of shifting-control adjustments which were determined by 11 discharge measurements and comparison with records for Pacolet River near Fingerville, less discharge from power plant on South Pacolet River near Fingerville.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,180	155	137	1,870	672	295	217	250	167	116	308	301
2	300	153	149	1,650	520	295	202	225	161	109	217	250
3	225	151	180	2,680	436	286	202	217	160	108	252	233
4	167	143	174	1,580	373	276	225	225	212	109	214	187
5	161	194	155	828	361	267	385	248	180	180	172	174
6	147	161	139	894	327	267	527	267	153	484	155	180
7	143	155	328	748	327	258	327	*225	151	260	148	712
8	598	153	241	579	327	291	373	217	167	194	177	2,120
9	3,050	149	194	491	528	276	452	202	180	161	291	1,340
10	1,930	142	180	463	667	258	350	209	220	141	202	532
11	674	136	187	398	463	258	306	202	174	125	147	350
12	361	295	187	373	398	250	295	187	147	125	140	276
13	276	342	167	327	361	253	276	212	161	121	177	242
14	233	225	161	316	350	241	267	306	144	111	256	225
15	234	187	161	295	338	286	267	241	147	119	340	209
16	2,270	174	167	306	327	276	267	209	140	109	212	194
17	4,150	167	174	356	306	250	253	202	318	104	*160	180
18	1,040	161	161	434	306	256	236	194	218	129	*130	174
19	549	155	406	1,440	295	250	233	202	162	112	*130	161
20	361	153	550	2,060	303	265	267	194	139	135	*120	155
21	306	151	373	1,140	506	258	233	187	155	147	*170	154
22	267	147	286	686	491	233	241	180	144	154	*190	154
23	241	141	241	564	373	233	217	174	140	132	*300	145
24	225	140	225	549	327	258	338	187	132	132	*850	143
25	202	143	209	549	306	286	579	167	125	168	*700	141
26	202	140	202	463	286	250	488	238	128	138	e280	136
27	202	135	180	423	295	249	338	202	131	157	194	155
28	180	141	241	447	316	225	306	187	130	312	168	147
29	167	134	1,090	594	-	233	306	180	125	1,400	171	141
30	161	128	778	463	-	233	286	167	120	1,700	343	134
31	161	-	1,170	563	-	233	-	167	-	640	485	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	20,363	4,150	143	657	5.66	6.52
November	4,951	342	128	165	1.42	1.58
December	9,193	1,170	137	297	2.56	2.95
Calendar year 1936	125,163	4,150	89	342	2.95	40.11
January	24,529	2,680	295	791	6.82	7.86
February	10,885	672	286	389	3.35	3.49
March	8,047	295	225	260	2.24	2.58
April	9,259	579	202	309	2.66	2.97
May	6,470	306	167	209	1.80	2.08
June	4,831	318	120	161	1.39	1.55
July	8,132	1,700	104	262	2.26	2.61
August	7,799	850	120	252	2.17	2.50
September	9,645	2,120	134	322	2.78	3.10
Water year 1936-37	124,104	4,150	104	340	2.93	39.79

*Gage height faulty; discharge computed on basis of records for station on Pacolet River near Fingerville and weather records.

Pacolet River near Fingerville, S. C.

Location.- Water-stage recorder, lat. 35°07', long. 81°58', 100 feet above new county highway bridge, a quarter of a mile downstream from confluence of North and South Pacolet Rivers, and 2⅛ miles southeast of Fingerville, Spartanburg County. Zero of gage is 706.39 feet above mean sea level.

Drainage area.- 212 square miles.

Records available.- November 1929 to September 1937.

Extremes.- Maximum discharge during year, 11,300 second-feet Oct. 17 (gage height 13.63 feet); minimum, 96 second-feet July 17, minimum daily, 172 second-feet July 17. 1929-37: Maximum discharge, that of Oct. 17, 1936; minimum, about 28 second-feet Oct. 19, 1931; minimum daily, 38 second-feet Oct. 4, 1931.

Remarks.- Records good except those for period of faulty gage-height record, Mar. 30 to Apr. 19, which were computed on basis of records for North Pacolet River at Fingerville and weather records and are fair. Diurnal fluctuation caused by operation of power plant on South Pacolet River and of mills on North Pacolet River. About 3,000,000 gallons a day diverted above station for Spartanburg water supply.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Feb. 23-26, Sept. 10-30)

0.6	131	2.0	660	5.0	2,600
.8	179	2.5	925	6.0	3,400
1.0	238	3.0	1,225	8.0	5,250
1.5	428	4.0	1,880	10.0	7,310

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,470	222	258	3,190	1,000	539	340	470	286	187	386	546
2	616	272	272	2,290	763	536	320	261	258	185	455	490
3	413	272	301	4,570	675	523	320	436	241	179	404	472
4	229	269	294	2,520	595	518	300	472	276	179	283	385
5	407	279	258	1,160	519	509	500	411	262	252	293	245
6	294	258	208	1,200	494	506	700	390	226	596	314	287
7	262	212	454	1,020	394	317	600	346	222	394	265	1,070
8	303	222	362	815	500	412	600	338	289	312	246	3,560
9	3,900	216	316	735	744	399	700	269	264	283	397	2,200
10	3,310	216	301	537	981	382	600	327	327	255	392	833
11	1,000	213	308	642	706	378	380	323	284	196	346	593
12	543	381	308	612	636	374	550	301	246	247	294	342
13	513	463	212	574	602	368	500	332	243	223	287	366
14	472	350	283	555	406	295	500	490	240	179	380	342
15	472	258	265	543	585	450	440	478	216	189	402	327
16	3,540	297	286	546	574	474	380	271	227	187	357	316
17	6,010	290	294	430	546	445	380	323	388	172	269	304
18	1,190	290	283	670	546	460	300	319	313	199	204	294
19	788	283	551	1,950	523	452	360	318	232	182	196	212
20	607	248	597	3,370	532	382	423	323	208	202	187	279
21	550	219	497	1,860	574	331	452	312	279	213	237	276
22	513	213	411	998	735	374	486	293	265	224	261	272
23	400	213	366	815	612	378	382	214	262	201	406	269
24	342	210	346	660	578	459	462	312	218	182	1,880	265
25	261	232	331	788	534	517	660	297	196	235	1,470	258
26	323	210	323	710	496	442	745	349	199	207	519	204
27	323	204	230	660	546	461	578	313	201	226	418	276
28	304	206	361	687	341	294	546	298	199	424	356	269
29	287	204	1,520	842	-	355	528	301	191	1,870	225	269
30	230	235	1,770	710	-	360	523	229	189	3,020	486	262
31	276	-	2,020	620	-	360	-	287	-	946	711	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	31,648	6,010	229	1,021	4.82	5.56
November	7,657	463	204	255	1.20	1.34
December	14,566	2,020	208	470	2.22	2.56
Calendar year 1936	199,761	6,010	148	546	2.58	35.04
January	37,279	4,570	430	1,203	5.67	6.54
February	16,737	1,000	341	598	2.82	2.94
March	13,050	539	294	421	1.99	2.29
April	14,555	745	300	485	2.29	2.56
May	10,403	490	214	336	1.58	1.82
June	7,449	388	189	248	1.17	1.30
July	12,546	3,020	172	405	1.91	2.20
August	13,326	1,880	187	430	2.03	2.34
September	16,083	3,560	204	536	2.53	2.82
Water year 1936-37	195,299	6,010	172	535	2.62	34.27

South Pacolet River Reservoir near Fingerville, S. C.

Location.- Water-stage recorder, lat. 35°07', long. 81°59', at highway bridge across South Pacolet River Reservoir, 1 mile upstream from dam and 1¾ miles south of Fingerville, Spartanburg County. Zero of gage is 760 feet above mean sea level.

Drainage area.- 92 square miles.

Records available.- March 1930 to September 1937.

Extremes.- Maximum gage height during year, 17.48 feet Oct. 16; minimum, 9.72 feet Nov. 7. 1930-37: Maximum gage height, that of Oct. 16, 1936; minimum, 2.76 feet Oct. 8, 1930.

Remarks.- Records excellent. Gage heights for Nov. 20 to Jan. 12, determined from graph based on staff-gage readings. City of Spartanburg diverts about 3,000,000 gallons daily from reservoir for its water supply and also uses water for power. Elevation of crest of concrete spillway is 772 feet, with 3 feet of flashboards used to increase storage during periods of low flow. Capacity of reservoir, 117,500,000 cubic feet at gage height 15 feet.

Gage height, in feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.13	10.48	12.30	16.12	15.41	13.20	12.07	12.80	11.82	12.13	15.27	15.08
2	15.19	10.48	12.25	15.72	15.11	12.78	12.10	13.00	11.54	12.06	14.78	14.41
3	14.47	10.19	12.22	16.48	14.58	12.30	12.12	13.16	11.80	11.99	13.87	13.97
4	14.13	9.94	12.08	15.93	14.08	11.76	12.44	12.28	12.08	11.91	14.07	13.13
5	13.60	9.87	11.84	15.41	13.85	11.18	13.27	11.66	12.35	11.96	14.23	13.01
6	12.57	9.95	11.98	15.34	13.99	10.48	14.66	12.30	12.51	13.00	13.96	13.20
7	12.29	9.94	12.47	15.26	14.21	10.72	15.11	12.50	12.63	13.52	13.44	15.02
8	13.03	10.31	12.84	15.13	14.45	11.42	14.79	12.51	12.64	13.47	13.39	16.26
9	16.05	10.58	12.82	15.04	14.50	11.78	14.89	12.75	12.40	13.18	14.31	15.85
10	16.19	10.78	12.65	14.90	15.41	11.98	14.64	12.98	12.65	12.79	14.61	15.33
11	15.61	10.96	12.42	14.57	15.14	12.14	14.78	12.71	12.53	12.67	13.93	14.94
12	15.28	11.52	12.49	13.98	14.70	12.28	14.71	12.59	12.29	12.41	13.11	14.92
13	14.72	12.52	12.56	13.42	14.20	12.46	14.02	12.70	12.32	11.90	12.76	15.05
14	13.82	12.59	12.60	12.90	14.42	12.94	14.34	13.42	12.09	11.71	12.42	14.96
15	12.82	12.69	12.40	12.46	14.52	13.33	13.71	13.06	12.19	11.62	12.40	14.79
16	15.14	12.69	12.20	11.97	13.88	13.43	13.87	12.89	12.19	11.49	12.48	14.58
17	16.36	12.42	12.21	12.20	13.27	13.11	14.00	13.05	12.57	11.36	12.06	14.30
18	15.41	12.15	11.96	13.00	12.80	12.74	13.33	12.90	12.97	11.32	11.99	14.00
19	14.63	11.85	12.20	14.92	12.01	12.37	13.58	12.85	13.06	11.15	11.99	13.95
20	13.58	11.65	14.00	16.29	11.68	12.24	13.74	12.71	13.20	11.00	11.93	13.88
21	12.80	11.86	15.20	15.78	12.96	12.97	13.22	12.51	13.15	10.93	11.90	13.51
22	11.60	12.00	15.20	15.40	14.17	13.33	12.64	12.31	12.72	11.10	12:09	13.13
23	10.74	12.09	15.12	15.14	13.98	13.37	11.96	12.61	12.29	11.20	13.69	12.75
24	10.67	12.21	15.02	15.24	13.55	13.29	12.15	12.66	11.92	11.32	15.98	12.33
25	10.91	12.34	14.88	15.12	13.12	12.85	14.18	12.39	11.88	12.40	15.79	11.91
26	11.03	12.36	14.70	14.80	12.72	12.44	15.29	12.27	11.88	13.22	15.16	11.73
27	10.94	12.52	14.73	14.30	12.29	11.70	14.86	12.35	11.87	13.30	14.59	11.65
28	10.74	12.62	14.89	13.92	12.78	11.75	14.34	12.26	12.00	13.72	13.90	11.27
29	10.51	12.52	15.52	14.36	-	12.01	13.95	12.12	12.08	15.36	13.92	10.85
30	10.52	12.44	15.94	14.41	-	12.00	13.48	12.13	12.13	16.12	14.06	10.41
31	10.48	-	15.83	14.78	-	12.04	-	12.11	-	15.45	14.62	-

North Tyger River near Moore, S. C.

Location.- Water-stage recorder, lat. 34°48', long. 81°58', at Ott's Shoals, 1¼ miles upstream from mouth of Wards Creek, 2⅝ miles southeast of Moore, Spartanburg County, and 3 7/8 miles upstream from confluence of North and South Tuger Rivers. Zero of gage is 564.85 feet above mean sea level (unadjusted).

Drainage area.- 162 square miles.

Records available.- April 1934 to September 1937.

Extremes.- Maximum discharge during year, 7,160 second-feet Oct. 16 (gage height, 5.68 feet); minimum, 42 second-feet July 19; minimum daily, 61 second-feet July 18.
1934-37: Maximum discharge, 8,640 second-feet Apr. 7, 1936 (gage height, 6.15 feet); minimum, 9.2 second-feet (estimated), Dec. 29, 1935; minimum daily, 29 second-feet Dec. 29, 1935.

Remarks.- Records excellent. Diurnal fluctuation caused by operation of power plants upstream.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,020	151	186	2,400	836	328	221	268	207	179	210	272
2	1,050	188	161	1,930	660	343	244	255	207	149	158	211
3	288	162	178	4,380	457	306	205	272	344	103	160	210
4	204	167	198	3,170	404	306	202	299	399	71	312	144
5	201	186	193	1,060	383	290	365	272	431	101	210	150
6	171	188	144	936	352	258	540	266	234	211	254	174
7	142	156	256	815	346	222	469	236	237	207	177	400
8	348	186	251	608	328	326	357	209	310	181	110	1,250
9	3,390	174	278	495	512	336	426	199	236	160	199	2,190
10	2,990	146	188	428	767	312	350	221	221	157	330	838
11	1,180	136	164	401	580	284	303	241	190	98	179	374
12	485	254	178	367	401	242	293	216	157	143	169	267
13	316	340	184	345	394	220	293	272	112	153	204	237
14	251	230	191	336	300	237	244	664	185	128	136	242
15	233	199	210	306	343	352	268	509	198	130	77	186
16	3,350	199	206	295	343	388	319	282	181	115	157	158
17	4,530	173	146	320	279	312	245	255	181	86	169	154
18	1,290	165	165	381	306	295	195	245	140	61	143	132
19	543	154	340	1,220	295	283	253	194	168	81	128	115
20	358	164	540	2,660	339	262	268	194	117	145	122	164
21	299	170	450	1,560	552	246	230	207	184	126	92	169
22	250	174	306	835	585	273	258	197	210	146	162	161
23	234	174	233	566	454	288	253	210	120	104	516	122
24	206	165	192	495	381	278	384	221	110	94	1,440	125
25	213	165	204	495	361	293	755	207	141	115	1,660	138
26	221	165	200	459	312	268	635	198	128	175	767	72
27	187	165	196	397	273	204	433	198	76	186	699	149
28	166	158	215	412	336	224	322	207	222	153	384	169
29	199	122	382	728	-	248	360	171	232	109	182	146
30	190	169	1,510	526	-	253	335	144	194	118	275	109
31	141	-	1,210	484	-	244	-	190	-	164	353	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	25,646	4,530	141	827	5.10	5.88
November	5,345	340	122	178	1.10	1.23
December	9,455	1,510	144	305	1.88	2.17
Calendar year 1936	155,462	6,760	54	425	2.62	35.68
January	29,808	4,380	295	962	5.94	6.85
February	11,879	836	273	424	2.62	2.73
March	8,721	388	204	281	1.73	1.99
April	10,025	755	195	334	2.06	2.30
May	7,719	664	144	249	1.54	1.78
June	6,072	431	76	202	1.25	1.40
July	4,147	211	61	134	.827	.95
August	10,134	1,660	77	327	2.02	2.33
September	9,228	2,190	72	308	1.90	2.12
Water year 1936-37	138,179	4,530	61	379	2.34	31.73

Tyger River near Woodruff, S. C.

Location.- Water-stage recorder, lat. 34°45', long. 81°55', at Nesbitts Bridge, half a mile downstream from confluence of North and South Forks of Tyger River and 6½ miles east of Woodruff, Spartanburg County. Zero of gage is 489.69 feet above mean sea level (from partly adjusted network of levels).

Drainage area.- 351 square miles.

Records available.- October 1929 to September 1937.

Extremes.- Maximum discharge during year, 14,700 second-feet Oct. 16 (gage height, 11.48 feet); minimum, 126 second-feet Sept. 26 (gage height, 2.00 feet); minimum daily, 134 second-feet Sept. 26.

1929-37: Maximum discharge, 17,100 second-feet Apr. 6, 1936 (gage height, 13.16 feet); minimum, 50 second-feet Sept. 19, 1932 (gage height, 1.63 feet); minimum daily, 61 second-feet Sept. 19, 1932.

Maximum stage known, about 20.0 feet during flood of August 1928 (discharge not determined). Maximum stage during flood of September 1929, 14.65 feet (discharge, 19,600 second-feet).

Remarks.- Records good. Diurnal fluctuation caused by operation of power plants upstream.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,710	364	355	4,200	1,460	640	531	606	406	380	348	558
2	2,960	364	296	4,210	1,420	708	570	481	428	334	258	514
3	852	376	408	8,260	1,090	678	494	472	764	279	422	440
4	530	363	396	6,360	1,040	670	360	605	820	321	623	529
5	359	356	452	2,650	898	685	751	626	778	271	412	310
6	392	360	308	2,020	692	723	1,220	655	413	433	622	334
7	398	355	508	1,770	633	507	1,070	564	369	432	382	622
8	826	359	444	1,310	577	595	882	469	706	402	245	1,660
9	6,280	270	624	1,070	986	700	990	375	480	410	420	3,370
10	5,510	230	409	863	1,470	620	767	376	440	338	834	1,800
11	2,940	232	469	863	1,280	544	538	505	407	312	352	940
12	1,120	498	394	889	1,100	577	525	500	380	277	320	510
13	722	609	398	889	876	598	619	633	265	320	674	417
14	582	560	368	838	594	426	557	1,580	322	291	442	478
15	553	402	382	641	584	634	601	1,010	417	326	226	382
16	8,410	354	421	593	739	846	715	540	396	284	237	344
17	9,050	442	342	584	715	708	522	462	401	209	452	336
18	2,780	372	477	669	655	648	385	577	372	154	426	305
19	1,100	402	840	2,680	655	633	431	518	302	161	312	270
20	788	410	884	4,760	876	598	605	436	244	298	320	322
21	658	352	908	3,180	1,100	463	570	444	299	283	274	384
22	598	357	764	1,810	1,050	454	648	478	343	313	288	398
23	568	284	556	1,300	1,110	640	544	434	314	282	640	308
24	488	366	514	978	889	648	960	392	302	276	1,860	270
25	406	338	430	906	779	640	1,560	454	338	175	2,260	241
26	416	384	346	1,110	708	612	1,170	406	308	246	1,440	134
27	410	338	317	1,030	787	513	1,090	401	150	351	1,590	209
28	430	380	415	945	662	404	779	418	350	322	1,120	354
29	446	288	744	1,410	-	430	846	384	478	288	641	348
30	398	314	2,350	1,110	-	619	756	276	429	286	528	276
31	382	-	2,120	883	-	570	-	329	-	313	714	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	55,062	9,050	359	1,776	5.06	5.83
November	11,079	609	230	369	1.05	1.17
December	18,639	2,350	296	601	1.71	1.97
Calendar year 1936	331,176	14,600	154	905	2.58	35.08
January	60,781	8,260	584	1,961	5.59	6.44
February	25,425	1,470	577	908	2.59	2.70
March	18,731	846	404	604	1.72	1.98
April	22,056	1,560	360	735	2.09	2.33
May	16,406	1,580	276	529	1.51	1.74
June	12,421	820	150	414	1.18	1.32
July	9,347	433	154	302	.860	.99
August	19,682	2,260	226	635	1.81	2.09
September	17,363	3,370	134	579	1.65	1.84
Water year 1936-37	286,992	9,050	134	786	2.24	30.40

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South Tyger River near Reidville, S. C.

Location.- Water-stage recorder, lat. 34°52'35", long. 82°05'10", about a quarter of a mile upstream from county highway bridge, 1½ miles downstream from Berry Shoals, and 1¾ miles northeast of Reidville, Spartanburg County. Zero of gage is 628.05 feet above mean sea level, unadjusted.

Drainage area.- 106 square miles.

Records available.- April 1934 to September 1937.

Extremes.- Maximum discharge during year, 3,880 second-feet Oct. 16 (gage height, 9.68 feet); minimum, 11 second-feet June 27 (gage height, 0.73 foot), caused by shut-down of power plants upstream; minimum daily, 11 second-feet June 27, Sept. 25, 26.
1934-37: Maximum discharge, 6,080 second-feet Apr. 6, 1936 (gage height, 13.66 feet); minimum, 8.5 second-feet Oct. 28, 29, 1934 (gage height, 0.70 foot); minimum daily, 8.5 second-feet Oct. 28, 1934.

Remarks.- Records excellent. Large diurnal fluctuation caused by operation of power plants upstream.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,000	110	64	1,340	484	203	204	170	129	133	67	167
2	516	145	148	1,420	458	220	224	92	262	136	123	262
3	334	155	127	2,880	451	234	59	203	295	86	296	196
4	133	112	191	1,760	440	238	22	214	425	71	172	250
5	94	112	127	637	220	307	274	256	117	34	210	76
6	157	125	116	588	165	283	393	264	40	113	189	153
7	200	115	77	479	132	101	373	191	228	123	69	132
8	550	53	259	402	142	238	385	130	224	240	60	694
9	1,790	12	149	258	350	251	320	54	153	165	118	1,000
10	1,660	13	243	269	492	151	160	167	171	159	122	472
11	526	86	172	346	537	195	67	191	166	83	108	329
12	284	182	129	378	430	294	273	213	137	120	118	91
13	234	255	120	398	190	161	214	267	74	116	139	194
14	229	211	83	287	122	63	248	316	162	122	80	131
15	243	96	125	173	187	217	250	183	178	133	55	140
16	2,360	158	96	114	317	357	231	75	163	102	106	147
17	1,170	195	277	108	237	225	118	192	188	33	324	95
18	437	129	160	265	204	238	57	227	108	51	175	138
19	291	204	143	955	307	252	233	227	81	110	159	97
20	248	150	195	1,250	279	135	210	143	74	119	165	149
21	240	132	385	872	136	58	280	212	84	128	76	171
22	235	64	277	568	446	220	245	154	137	112	61	145
23	220	79	241	437	425	270	169	77	140	124	178	114
24	153	138	199	151	271	227	172	180	161	47	282	65
25	90	142	93	368	260	217	229	140	151	19	633	11
26	140	144	34	468	337	242	534	138	41	100	529	11
27	160	154	48	426	302	152	421	148	11	136	442	104
28	195	125	285	316	125	79	288	123	105	121	142	144
29	184	92	636	329	-	215	292	86	127	113	51	128
30	135	119	612	284	-	249	247	68	137	106	202	100
31	181	-	1,050	184	-	183	-	131	-	80	176	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	15,389	2,360	90	496	4.68	5.40
November	3,807	255	12	127	1.20	1.34
December	6,861	1,050	34	221	2.08	2.40
Calendar year 1936	102,000	3,580	12	279	2.63	35.77
January	18,710	2,880	108	604	5.70	6.57
February	8,446	537	122	302	2.85	2.97
March	6,475	357	58	209	1.97	2.27
April	7,192	534	22	240	2.26	2.52
May	5,234	318	54	169	1.59	1.83
June	4,489	425	11	150	1.42	1.58
July	3,336	240	19	108	1.02	1.18
August	5,627	633	51	182	1.72	1.98
September	5,906	1,000	11	197	1.86	2.08
Water year 1936-37	91,472	2,880	11	251	2.37	32.12

South Tyger River near Woodruff, S. C.

Location.- Water-stage recorder, lat. 34°45', long. 81°56', at Chesnee Shoals, three-eighths of a mile upstream from confluence of North and South Tyger Rivers and 5⅘ miles east of Woodruff, Spartanburg County. Zero of gage is 508.38 feet above mean sea level (unadjusted).

Drainage area.- 174 square miles.

Records available.- March 1934 to September 1937.

Extremes.- Maximum discharge during year, 8,080 second-feet Oct. 16 (gage height, 8.83 feet); minimum, 52 second-feet July 26 (gage height, 1.74 feet); minimum daily, 55 second-feet, Sept. 26.
1934-37: Maximum discharge, 9,510 second-feet Apr. 6, 1936 (gage height, 9.78 feet), from rating curve extended above 1,900 second-feet; minimum, 32 second-feet Oct. 14, 1935 (gage height, 1.59 feet); minimum daily, 33 second-feet Oct. 13, 1935.

Remarks.- Records excellent. Diurnal fluctuation caused by operation of power plants upstream.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,810	213	153	1,640	640	275	260	314	185	135	119	286
2	1,750	175	131	1,970	688	314	290	223	203	179	101	308
3	495	201	225	3,810	569	327	239	210	445	151	253	219
4	306	183	178	3,020	581	327	131	293	407	203	314	355
5	152	164	224	1,470	462	360	355	334	341	161	229	162
6	193	164	175	975	297	432	615	340	145	138	346	152
7	242	180	242	797	250	249	552	324	151	174	183	250
8	451	169	185	595	227	270	495	227	369	212	113	481
9	2,920	80	322	501	490	346	538	168	225	244	217	1,160
10	2,370	69	191	369	694	293	381	146	220	206	396	921
11	1,500	89	300	405	635	251	218	233	207	166	162	528
12	493	260	209	467	633	327	227	264	211	146	153	238
13	344	265	192	498	451	370	324	351	152	151	439	188
14	293	308	193	458	265	143	306	839	155	157	255	210
15	290	201	162	284	231	282	344	440	212	187	135	182
16	4,380	160	202	266	360	419	360	222	218	158	101	186
17	3,620	264	188	250	391	357	254	182	219	103	274	179
18	1,110	194	317	258	298	325	187	296	213	84	274	152
19	480	254	461	1,410	313	332	197	294	138	88	188	153
20	388	241	338	2,100	536	307	293	239	133	147	196	155
21	331	151	413	1,500	510	208	318	231	126	148	179	190
22	313	173	425	867	432	191	365	265	128	157	124	202
23	304	101	301	688	626	332	269	217	174	149	191	160
24	252	193	306	451	479	340	483	171	191	170	434	138
25	163	165	222	357	390	325	767	225	196	61	521	82
26	179	216	137	586	366	315	521	198	155	81	627	55
27	205	163	106	564	486	277	623	193	67	154	735	75
28	254	196	207	488	289	187	432	201	122	162	650	165
29	248	171	402	615	-	190	461	181	199	158	426	171
30	196	153	825	519	-	324	409	129	200	161	288	150
31	205	-	979	399	-	283	-	135	-	167	346	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	26,237	4,380	152	846	4.86	5.60
November	5,496	308	69	183	1.05	1.17
December	8,911	979	106	287	1.65	1.90
Calendar year 1936	161,318	7,480	62	441	2.53	34.46
January	28,577	3,810	250	922	5.30	6.11
February	12,599	694	227	450	2.59	2.70
March	9,278	432	143	299	1.72	1.98
April	11,214	767	131	374	2.15	2.40
May	8,085	839	129	261	1.50	1.73
June	6,107	445	67	204	1.17	1.30
July	4,810	244	61	155	.891	1.03
August	8,929	735	101	288	1.66	1.91
September	7,853	1,160	55	262	1.51	1.68
Water year 1936-37	138,086	4,380	55	378	2.17	29.51

Enoree River near Enoree, S. C.

Location.- Water-stage recorder, lat. 34°36', long. 81°54', half a mile upstream from Yarboroughs Bridge, three-quarters of a mile upstream from mouth of Warrior Creek, and 4 miles southeast of Enoree, Spartanburg County. Zero of gage is 447.96 feet above mean sea level (from partly adjusted network of levels).

Drainage area.- 307 square miles.

Records available.- August 1929 to September 1937.

Extremes.- Maximum discharge during year, 13,800 second-feet Oct. 16 (gage height, 7.14 feet); minimum, 64 second-feet Oct. 31; minimum daily, 103 second-feet Aug. 21. 1929-37: Maximum discharge, about 30,000 second-feet Oct. 2, 1929 (gage height, 10.5 feet); minimum, about 4 second-feet Oct. 20, 1935, caused by shut-down of power plants upstream; minimum daily discharge, 50 second-feet July 24, 1932.

Remarks.- Records good except those for Dec. 11-16, which were computed on basis of partial recorder record, rainfall records, and records for Saluda River near Pelzer and are fair. Diurnal fluctuation caused by operation of power plants upstream.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 15 to June 19, Aug. 1 to Sept. 18)

1.8	60	2.8	1,015	5.0	6,120
1.9	104	3.1	1,510	5.5	7,740
2.0	160	3.5	2,290	6.0	9,500
2.2	308	4.0	3,390	6.5	11,380
2.5	610	4.5	4,670	7.0	13,380

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,260	239	236	2,890	1,520	610	398	576	282	224	762	444
2	3,060	246	246	3,380	1,080	554	398	498	298	208	320	362
3	530	303	290	6,830	762	532	398	478	584	192	248	335
4	380	252	318	6,960	672	509	454	448	345	232	298	254
5	315	268	186	2,190	622	498	802	468	318	322	256	236
6	282	248	252	1,750	588	488	1,340	588	310	302	418	332
7	242	258	391	1,380	543	478	820	488	306	368	356	416
8	842	256	448	940	554	554	690	438	454	303	180	1,060
9	3,330	252	380	776	1,120	543	802	398	326	290	236	2,050
10	3,290	312	343	685	1,660	478	648	398	298	200	508	1,560
11	2,240	276	320	648	909	458	554	389	285	222	302	525
12	712	368	280	610	672	448	509	362	222	190	210	384
13	475	532	300	565	610	438	478	570	242	198	224	314
14	428	388	400	554	599	448	456	1,640	260	184	522	280
15	389	317	380	532	588	572	458	1,020	212	228	328	250
16	6,560	280	362	509	543	648	498	498	216	182	334	210
17	7,970	264	389	554	509	520	458	438	228	170	356	214
18	1,560	267	353	648	488	498	438	380	318	170	225	208
19	658	262	1,160	2,030	498	488	428	371	204	163	172	182
20	509	262	1,330	4,680	642	520	408	347	516	173	182	171
21	434	256	796	2,700	1,260	532	418	344	346	158	103	193
22	394	260	528	1,280	1,230	488	438	336	240	211	176	170
23	372	253	440	914	812	458	418	543	224	264	440	166
24	338	250	398	802	672	478	1,090	405	216	162	816	178
25	308	257	374	816	599	543	2,720	371	192	162	664	158
26	355	258	356	762	538	488	1,390	318	211	386	504	152
27	303	252	346	660	532	448	774	310	203	400	510	188
28	251	243	320	652	610	438	599	343	233	166	698	210
29	296	232	380	1,040	-	428	784	308	309	280	1,000	188
30	281	234	1,550	825	-	408	766	316	268	233	722	184
31	270	-	1,370	738	-	418	-	284	-	448	826	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	41,634	7,970	242	1,343	4.37	5.04
November	8,345	532	232	278	.906	1.01
December	15,222	1,550	186	491	1.60	1.84
Calendar year 1936	278,878	15,300	120	762	2.48	33.78
January	50,300	6,960	509	1,623	5.29	6.10
February	21,432	1,660	488	765	2.49	2.59
March	15,409	648	408	497	1.62	1.87
April	20,834	2,720	398	694	2.26	2.52
May	14,671	1,640	284	473	1.54	1.78
June	8,666	584	192	289	.941	1.05
July	7,391	448	158	238	.775	.89
August	12,896	1,000	103	416	1.36	1.57
September	11,574	2,050	152	386	1.26	1.41
Water year 1936-37	228,374	7,970	103	626	2.04	27.67

Saluda River near Pelzer, S. C.

Location.- Water-stage recorder, lat. 34°40', long. 82°28', half a mile downstream from mouth of Hurricane Creek and 2 miles north of Pelzer, Anderson County. Zero of gage is 727.75 feet above mean sea level (from partly adjusted network of levels).

Drainage area.- 411 square miles.

Records available.- September 1929 to September 1937.

Extremes.- Maximum discharge during year, 9,390 second-feet Jan. 3 (gage height, 8.00 feet); minimum, 52 second-feet July 15; minimum daily discharge, 361 second-feet July 15.

1929-37: Maximum discharge, 13,300 second-feet Apr. 7, 1936 (gage height, 10.26 feet); minimum, 27 second-feet Oct. 20, 1930 (gage height, about 0.82 foot); minimum daily discharge, 62 second-feet Oct. 25, 1931.

Remarks.- Records good except those for July 24-30, which were computed on basis of records for station at Chappells and weather records and are fair. Diurnal fluctuation caused by operation of power plants at Piedmont and near Greenville.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.9	41	3.1	1,680
1.0	64	3.5	2,200
1.2	125	4.0	2,890
1.4	205	4.5	3,640
1.7	361	5.0	4,440
2.0	561	6.0	6,040
2.3	805	7.0	7,690
2.7	1,203	8.0	9,390

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,400	580	462	5,010	2,270	1,420	835	1,100	618	492	806	1,210
2	2,160	545	548	6,040	1,830	1,240	884	1,080	680	498	635	966
3	873	504	536	8,710	1,520	1,190	781	933	544	370	524	874
4	605	529	504	7,010	1,450	1,120	897	904	614	508	554	874
5	548	516	504	4,130	1,380	1,140	1,030	1,070	572	572	550	674
6	536	708	520	3,030	1,280	1,040	1,780	902	604	956	670	734
7	512	556	830	2,560	1,270	1,040	1,710	935	526	1,170	480	1,070
8	1,880	606	1,060	2,180	1,250	1,190	1,440	854	681	1,150	444	2,950
9	4,680	552	802	1,920	1,810	1,140	1,480	879	604	622	588	2,000
10	6,040	581	670	1,740	2,560	1,040	1,410	804	595	467	1,030	1,520
11	3,260	504	608	1,640	2,360	994	1,270	763	690	576	446	1,030
12	1,970	720	651	1,500	1,870	986	1,060	788	496	458	463	912
13	1,210	1,180	592	1,270	1,640	952	1,060	888	610	546	1,010	781
14	956	894	662	1,290	1,430	957	1,020	1,480	686	468	2,530	734
15	843	747	592	1,290	1,500	1,170	884	1,290	671	361	2,210	652
16	1,340	699	584	1,250	1,190	1,200	954	926	770	436	1,920	608
17	2,080	540	646	1,340	1,300	1,070	902	736	660	412	1,470	571
18	2,050	647	598	1,440	1,160	992	825	735	874	430	840	555
19	1,600	510	1,250	3,060	1,220	960	874	776	739	424	764	588
20	971	481	1,980	4,060	1,290	1,040	890	742	795	436	506	480
21	972	510	1,800	3,560	2,110	1,060	838	738	593	408	576	549
22	834	583	1,270	2,650	2,370	1,000	860	551	576	454	532	462
23	788	540	979	2,120	2,280	936	862	728	508	416	814	480
24	611	508	788	1,860	1,780	968	1,140	722	510	400	808	456
25	731	564	725	1,760	1,590	1,040	2,340	610	374	420	1,700	414
26	766	446	742	1,750	1,260	1,040	1,870	613	510	480	1,240	431
27	450	510	692	1,620	1,240	993	1,480	676	534	440	930	543
28	674	507	728	1,580	1,310	965	1,290	622	582	440	874	424
29	595	490	1,350	1,730	-	933	1,260	630	701	420	898	450
30	524	496	1,910	1,630	-	908	1,360	694	570	600	1,130	472
31	508	-	2,970	1,660	-	912	-	584	-	1,060	1,450	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	47,967	6,400	508	1,547	3.76	4.34
November	17,753	1,180	446	592	1.44	1.61
December	28,553	2,970	462	921	2.24	2.58
Calendar year 1936	439,481	12,100	251	1,201	2.92	39.76
January	82,390	8,710	1,250	2,658	6.47	7.46
February	45,520	2,560	1,160	1,626	3.96	4.12
March	32,636	1,420	908	1,053	2.56	2.95
April	35,286	2,340	781	1,176	2.86	3.19
May	25,753	1,480	551	831	2.02	2.33
June	18,487	874	374	616	1.50	1.67
July	16,690	1,170	361	545	1.33	1.53
August	29,392	2,530	444	948	2.31	2.66
September	24,464	2,950	414	815	1.98	2.21
Water year 1936-37	405,091	8,710	361	1,110	2.70	36.65

Saluda River at Chappells, S. C.

Location.- Water-stage recorder, lat. 34°11', long. 81°52', 300 feet below highway bridge on State Highway 39 at Chappells, Newberry County, and 8¼ miles upstream from mouth of Little River. Zero of gage is 363.80 feet above mean sea level (unadjusted).

Drainage area.- 1,290 square miles.

Records available.- May 1927 to September 1937.

Average discharge.- 10 years, 2,304 second-feet.

Extremes.- Maximum discharge during year, 21,400 second-feet Jan. 5 (gage height, 22.03 feet); minimum, 437 second-feet July 20 (gage height, 1.91 feet); minimum daily, 606 second-feet July 19 and Sept. 20.

1927-37: Maximum discharge, 63,700 second-feet Oct. 2, 1929 (gage height, 31.5 feet), from rating curve extended above 27,000 second-feet; minimum, 184 second-feet Oct. 20, 1931 (gage height, 0.88 foot); minimum daily discharge, 222 second-feet Oct. 3, 1927.

Maximum stage known, 35.7 feet (Geological Survey and present Weather Bureau datum) Aug. 26, 1908, from U. S. Weather Bureau records.

Remarks.- Records good. Discharge for June 14, June 29 to July 3, Sept. 24-29 computed from graph drawn on basis of partial recorder record, daily gage readings, weather records, and records for station near Silverstreet. Some regulation caused by operation of Ware Shoals power plant.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,120	932	1,440	4,720	4,010	2,960	2,060	3,600	1,900	1,850	2,440	5,770
2	7,020	674	1,110	6,570	4,840	3,040	2,010	2,520	1,550	1,470	2,120	2,730
3	9,580	1,440	1,030	9,120	4,010	2,780	2,100	2,340	1,550	1,350	1,760	2,210
4	4,670	1,180	1,290	14,700	3,270	2,600	1,670	2,630	1,550	932	1,430	2,120
5	1,520	1,110	1,290	20,800	3,090	2,500	2,430	2,300	1,590	828	1,080	1,270
6	1,430	1,210	1,140	17,100	2,860	2,370	5,840	2,620	1,120	1,040	1,310	1,350
7	932	1,330	1,930	11,200	2,460	1,960	4,840	2,440	762	1,620	1,550	1,850
8	1,570	864	3,500	7,770	2,640	2,140	4,060	2,080	1,550	1,850	974	2,330
9	6,780	832	2,300	4,540	3,740	2,910	6,160	1,310	1,720	1,720	636	5,630
10	9,460	1,530	1,850	3,710	7,020	2,500	4,510	1,470	1,510	1,510	1,280	7,300
11	10,200	1,110	1,940	3,410	7,900	2,280	3,040	2,210	1,270	968	1,720	4,440
12	10,500	1,380	1,900	3,270	5,290	2,240	2,730	1,850	1,350	794	1,310	2,340
13	5,740	2,160	1,640	3,040	3,660	2,190	2,820	1,980	1,010	1,530	1,010	2,120
14	2,630	2,030	1,030	2,860	3,360	1,880	2,460	2,700	730	1,160	1,410	2,120
15	1,760	1,210	1,850	2,730	3,090	1,690	2,370	3,270	1,460	1,010	2,510	1,510
16	3,290	1,400	3,050	2,680	3,090	3,460	2,910	2,700	1,390	1,040	2,660	1,510
17	6,840	1,600	2,630	2,470	2,960	2,780	2,550	2,120	1,510	896	2,620	1,230
18	10,600	1,250	2,120	3,360	2,600	2,550	1,670	2,210	1,800	730	2,080	1,390
19	8,760	1,330	4,300	3,860	2,550	2,370	1,670	1,590	1,720	606	1,720	1,010
20	3,440	1,400	8,100	5,810	2,730	2,680	2,370	1,630	1,080	757	1,270	606
21	2,480	1,440	8,000	8,600	4,840	2,500	2,100	1,760	932	828	1,310	1,200
22	1,980	932	4,380	10,100	6,160	2,190	2,100	1,800	1,720	698	1,050	1,080
23	1,760	674	2,930	8,000	5,310	2,640	2,240	1,800	1,120	862	1,280	896
24	1,760	1,510	2,260	4,320	4,160	2,550	2,970	2,080	1,010	1,120	2,340	1,080
25	1,250	1,180	1,600	4,300	3,510	3,040	7,910	2,440	1,160	862	4,570	1,310
26	1,250	1,110	1,680	8,300	3,140	2,500	9,340	1,630	1,350	698	3,810	811
27	1,900	1,140	1,680	6,630	2,820	2,240	8,840	1,590	794	1,400	2,660	845
28	1,330	1,140	1,600	4,660	2,550	1,670	4,100	1,470	714	1,310	2,480	1,590
29	1,250	932	2,030	4,660	-	2,010	3,720	1,590	1,270	968	1,440	1,080
30	1,400	674	1,800	4,010	-	2,420	5,000	1,230	2,700	1,120	3,800	932
31	1,210	-	3,210	3,460	-	2,190	-	896	-	1,750	6,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	128,412	10,600	932	4,142	3.21	3.70
November	36,704	2,160	674	1,223	.948	1.06
December	76,610	8,100	1,030	2,471	1.92	2.21
Calendar year 1936	1,271,886	46,200	293	3,475	2.69	36.65
January	200,760	20,800	2,470	6,476	5.02	5.79
February	107,660	7,900	2,460	3,845	2.98	3.10
March	75,830	3,460	1,670	2,446	1.90	2.19
April	108,390	9,340	1,670	3,613	2.80	3.12
May	63,856	3,600	896	2,060	1.60	1.84
June	40,892	2,700	714	1,363	1.06	1.18
July	35,277	1,850	606	1,138	.882	1.02
August	63,430	6,000	636	2,046	1.59	1.83
September	61,660	7,300	606	2,055	1.59	1.77
Water year 1936-37	999,481	20,800	606	2,738	2.12	28.81

Saluda River near Silverstreet, S. C.

Location.- Water-stage recorder, lat. 34°11', long. 81°44', 200 feet upstream from new Higgins Ferry Bridge on State Highway 19. 1 mile downstream from mouth of Little River, and 2¾ miles south of Silverstreet, Newberry County. Zero of gage is 345.13 feet above mean sea level (from partly adjusted network of levels).

Drainage area.- 1,570 square miles.

Records available.- January 1927 to September 1937.

Average discharge.- 10 years, 2,677 second-feet.

Extremes.- Maximum discharge during year, 20,900 second-feet Jan. 6 (gage height, 21.98 feet); minimum, 520 second-feet July 20 (gage height, 4.21 feet); minimum daily discharge, 718 second-feet July 19, 20.

1927-37: Maximum discharge, 83,800 second-feet Oct. 3, 1929 (gage height, 33.97 feet), from rating curve extended above 19,000 second-feet on basis of discharge measurements made at Chappells and near Chapin; minimum, 248 second-feet Sept. 29, 1927 (gage height, 3.45 feet); minimum daily discharge, 274 second-feet Sept. 29, 1927.

Remarks.- Records good except those for periods of backwater from Lake Murray, Feb. 25 to Mar. 3, Mar. 10 to Apr. 5, Apr. 11-24, Apr. 28 to June 25 (computed on basis of seven discharge measurements, gage heights, and records for station at Chappells), and those for Mar. 4-9 (computed on basis of partial recorder record and records for station at Chappells), which are fair. Slight regulation from operation of power plants upstream.

Rating table, water year 1936-37, except periods of backwater from Lake Murray (gage height, in feet, and discharge, in second-feet)

4.0	440	7.0	1,975	14.0	7,300
4.5	650	8.0	2,570	16.0	9,800
5.0	885	10.0	3,895	19.0	14,500
6.0	1,425	12.0	5,410	22.0	20,870

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,170	1,070	1,310	4,940	4,560	3,400	2,200	4,400	1,900	2,270	2,570	6,470
2	6,030	740	1,340	6,360	5,410	3,400	2,200	3,000	1,800	1,640	2,510	3,520
3	7,520	1,300	1,150	8,610	4,710	3,000	2,200	2,800	1,700	1,540	1,860	2,390
4	7,330	1,370	1,480	12,000	3,680	3,000	1,900	3,000	1,700	1,200	1,590	2,390
5	1,820	1,100	1,420	18,000	3,480	2,800	3,200	2,600	1,700	1,120	1,260	1,590
6	1,590	1,320	1,320	20,100	3,210	2,600	7,080	3,000	1,400	1,100	1,340	1,420
7	1,040	1,370	2,270	15,800	2,690	2,200	7,190	2,800	1,000	1,700	1,590	1,860
8	1,410	1,090	4,480	11,000	2,880	2,200	5,010	2,400	1,500	1,980	1,340	2,140
9	7,300	935	2,950	6,330	3,750	3,000	7,760	1,800	1,900	1,920	835	5,610
10	10,800	1,460	2,210	4,040	7,190	2,800	6,560	1,700	1,700	1,700	1,070	6,760
11	10,900	1,260	2,210	3,680	8,740	2,400	3,600	2,400	1,500	1,230	1,810	6,020
12	10,800	1,380	2,630	3,540	7,190	2,400	3,200	2,000	1,500	910	1,540	3,080
13	9,350	2,510	2,030	3,210	4,260	2,400	3,200	2,000	1,300	1,540	1,150	2,450
14	3,250	2,330	1,480	2,950	3,760	2,000	2,800	3,000	950	1,420	1,340	2,330
15	2,000	1,520	1,960	2,880	3,540	1,900	2,600	3,800	1,400	1,100	2,330	1,700
16	2,850	1,540	3,620	2,820	3,400	4,200	3,400	3,200	1,700	1,150	2,820	1,640
17	6,390	1,760	3,540	2,510	3,280	3,200	2,800	2,400	1,700	1,010	2,760	1,420
18	9,170	1,420	2,630	3,820	2,820	2,800	1,900	2,400	2,000	835	2,210	1,370
19	11,200	1,420	4,560	4,340	2,820	2,600	1,800	1,900	2,000	718	1,810	1,230
20	5,890	1,540	8,740	5,670	2,950	3,000	2,600	1,800	2,200	718	1,420	785
21	2,760	1,540	9,520	7,760	5,480	3,000	2,400	1,900	1,200	935	1,260	1,030
22	2,150	1,190	6,360	9,800	7,190	2,400	2,200	2,000	2,000	740	1,480	1,260
23	1,920	785	3,400	10,100	6,460	2,800	2,400	2,200	1,400	835	1,370	935
24	1,810	1,320	2,630	6,080	5,010	2,800	3,000	2,400	1,200	1,150	2,390	1,100
25	1,340	1,420	1,980	4,530	4,000	3,800	9,660	2,800	1,400	1,010	4,520	1,320
26	1,420	1,260	1,860	9,030	3,600	2,800	12,500	1,900	1,590	885	4,710	1,040
27	1,840	1,200	1,920	10,000	3,200	2,400	12,300	1,800	1,180	1,400	2,950	960
28	1,480	1,230	1,810	6,220	2,800	1,900	7,000	1,600	985	1,480	3,680	1,760
29	1,260	1,120	2,210	6,180	-	2,000	4,200	1,700	1,340	1,010	2,090	1,370
30	1,420	785	2,030	4,780	-	2,600	6,000	1,500	2,880	1,150	4,100	1,040
31	1,320	-	3,140	4,040	-	2,400	-	1,200	-	1,880	6,330	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	138,530	11,200	1,040	4,469	2.85	3.29
November	40,285	2,510	740	1,343	.855	.95
December	90,190	9,520	1,150	2,909	1.85	2.13
Calendar year 1936	1,467,315	60,000	404	4,009	2.55	34.74
January	221,120	20,100	2,510	7,133	4.54	5.23
February	122,060	8,740	2,690	4,359	2.78	2.90
March	84,200	4,200	1,900	2,716	1.73	1.99
April	134,860	12,500	1,800	4,495	2.86	3.19
May	73,400	4,400	1,200	2,368	1.51	1.74
June	47,725	2,880	950	1,591	1.01	1.13
July	39,276	2,270	718	1,267	.807	.93
August	70,035	6,330	835	2,259	1.44	1.66
September	67,990	6,760	785	2,266	1.44	1.61
Water year 1936-37	1,129,671	20,100	718	3,095	1.97	26.75

Lake Murray near Columbia, S. C.

Location.- Water-stage recorder, lat. 34°03', long. 81°13', in intake tower, about 500 feet above dam, 10 miles upstream from mouth of Saluda River, and 11 miles northwest of Columbia, Richland County. Zero of gage is 0.62 foot below mean sea level (general adjustment of 1929).

Drainage area.- 2,400 square miles.

Records available.- August 1929 to September 1937.

Extremes.- Maximum gage height during year, 354.97 feet May 17; minimum, 331.20 feet Dec. 5.
1929-37: Maximum gage height, 361.51 feet Apr. 10, 1936; minimum, 173.2 feet Aug. 31, 1929, when impounding of water started.

Remarks.- Record excellent.

Gage height, in feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	338.0	339.6	332.5	336.4	350.0	352.0	351.9	354.4	353.4	349.1	343.0	343.8
2	337.9	339.5	332.1	336.8	350.0	352.0	351.9	354.4	353.1	348.9	343.1	343.9
3	337.9	339.1	331.7	337.5	350.0	352.0	351.9	354.6	352.9	348.7	343.0	343.8
4	338.4	338.7	331.4	338.1	350.0	352.0	352.0	354.6	352.7	348.7	343.0	343.7
5	338.6	338.4	331.2	338.8	350.0	352.0	352.0	354.7	352.5	348.7	342.9	343.8
6	338.3	338.0	331.3	340.2	350.0	352.0	352.0	354.8	352.5	348.6	342.8	343.7
7	338.0	337.8	331.5	341.5	350.0	352.0	352.0	354.8	352.5	348.4	342.8	343.5
8	337.8	337.8	331.8	342.3	350.0	352.0	352.0	354.8	352.2	348.2	342.9	343.4
9	338.1	337.8	331.9	342.8	350.0	352.0	352.2	354.8	352.0	348.0	342.9	343.4
10	338.8	337.5	331.9	343.2	350.1	352.0	352.4	354.9	351.8	347.8	342.8	343.5
11	339.5	337.2	332.0	343.4	349.9	352.0	352.5	354.8	351.6	347.7	342.7	343.8
12	340.0	336.9	332.1	343.6	349.9	352.0	352.7	354.7	351.5	347.6	342.7	343.9
13	340.3	336.8	332.3	343.7	349.9	352.0	352.8	354.6	351.5	347.4	342.6	344.0
14	340.3	336.7	332.4	343.8	349.9	352.0	352.8	354.7	351.5	347.1	342.6	343.6
15	340.1	336.8	332.4	343.9	349.9	352.0	352.9	354.7	351.2	346.8	342.7	343.2
16	340.1	336.7	332.9	344.0	350.0	352.0	353.1	354.9	351.0	346.5	342.8	342.7
17	340.5	336.4	333.3	344.3	350.0	352.0	353.2	355.0	350.8	346.3	342.7	342.3
18	340.9	336.0	333.5	344.5	350.0	352.0	353.3	354.9	350.7	346.2	342.5	341.9
19	341.4	335.6	333.8	344.8	350.0	352.0	353.4	354.8	350.6	346.2	342.3	341.8
20	341.8	335.2	334.6	345.1	350.2	352.0	353.4	354.7	350.8	345.8	342.0	341.5
21	341.8	335.0	335.2	345.4	350.6	352.0	353.4	354.6	350.9	345.5	341.9	341.1
22	341.8	335.0	335.6	345.7	351.0	352.0	353.3	354.4	350.7	345.2	342.1	340.7
23	341.7	334.9	335.7	346.2	351.3	352.0	353.3	354.4	350.4	344.8	342.1	340.2
24	341.6	334.5	335.8	346.7	351.5	352.0	353.4	354.4	350.1	344.5	342.1	339.8
25	341.6	334.1	336.0	347.0	351.6	352.0	353.6	354.4	349.8	344.4	342.2	339.4
26	341.5	333.7	336.1	347.5	351.7	352.0	353.8	354.2	349.6	344.4	342.6	339.2
27	341.1	333.4	336.3	348.0	351.8	352.0	354.0	354.1	349.6	344.1	342.9	339.1
28	340.7	333.1	336.3	348.6	352.0	352.0	354.2	353.9	349.5	343.8	343.0	338.6
29	340.3	333.1	336.2	349.2	-	352.0	354.3	353.7	349.4	343.5	343.1	338.1
30	340.0	332.9	336.2	349.5	-	351.9	354.4	353.6	349.3	343.1	343.3	337.6
31	339.6	-	336.2	349.8	-	351.9	-	353.6	-	342.9	343.5	-

Saluda River near Columbia, S. C.

Location.- Water-stage recorder, lat. 34°01', long. 81°06', a quarter of a mile upstream from site of old Saluda mill and 2 miles upstream from mouth, at Columbia, Richland County. Zero of gage is 149.53 feet above mean sea level (general adjustment of 1929).

Drainage area.- 2,450 square miles.

Records available.- August 1925 to September 1937.

Average discharge.- 12 years, 3,283 second-feet.

Extremes.- Maximum discharge during year, 23,000 second-feet Apr. 9 (gage height, 8.74 feet); minimum, 37 second-feet Oct. 5; minimum daily, 68 second-feet Oct. 4, caused by shut-down of power plant at Lake Murray.
1925-37: Maximum discharge, 67,000 second-feet Oct. 2, 1929 (gage height, 15.22 feet); minimum, 11 second-feet July 13, 1930; minimum daily, 12 second-feet July 13, 1930, due to impounding of water in Lake Murray.

Remarks.- Records good. Considerable regulation from storage and operation of power plant at Lake Murray (capacity, about 92,000,000,000 cubic feet).

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.5	32	2.0	540	5.0	6,910
.7	50	2.5	1,045	6.0	10,460
.9	76	3.0	1,760	7.0	14,430
1.1	110	3.5	2,710	8.0	19,240
1.4	184	4.0	3,840	9.0	24,600
1.7	320				

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,620	408	7,480	2,360	8,440	5,960	2,230	5,820	7,270	6,510	942	4,860
2	6,890	5,710	7,820	770	6,730	4,430	2,390	195	7,300	6,690	2,830	5,980
3	1,130	8,200	6,960	228	6,520	2,060	742	1,900	6,920	2,970	2,770	4,220
4	68	7,690	6,860	2,210	4,620	4,630	5,260	2,060	5,820	833	2,790	2,400
5	4,470	7,220	1,880	2,860	5,330	3,660	6,660	2,490	3,410	1,480	3,530	1,360
6	7,180	7,260	289	2,990	1,690	3,360	15,800	2,520	755	5,690	3,470	5,880
7	7,340	1,080	4,040	2,210	4,790	1,500	8,880	3,340	5,740	5,560	1,500	4,000
8	5,650	92	3,820	1,730	4,200	4,040	7,380	1,580	7,140	5,790	1,280	4,800
9	2,370	4,850	3,380	550	8,930	4,270	11,500	515	6,510	7,050	3,200	4,600
10	928	6,120	3,130	172	17,200	2,090	5,820	2,920	5,320	5,020	2,830	3,370
11	332	7,160	2,080	1,730	12,300	2,100	263	4,320	4,830	1,210	2,980	2,490
12	3,490	7,430	397	1,980	9,960	4,000	1,320	4,800	1,360	5,240	2,130	506
13	5,850	6,090	136	2,130	4,080	1,850	2,020	4,660	227	6,740	1,980	6,560
14	6,620	1,230	2,060	2,060	9,660	3,200	2,010	4,400	5,250	6,700	331	9,840
15	7,240	302	1,930	2,030	3,900	6,080	2,320	2,100	7,240	6,720	110	9,980
16	4,240	5,370	1,910	549	3,220	5,330	2,080	377	6,040	7,000	2,920	9,870
17	627	7,040	1,160	135	2,270	4,140	622	2,710	6,120	3,760	5,510	8,480
18	330	7,700	1,330	1,280	3,330	3,080	133	4,180	5,990	820	6,610	5,770
19	2,260	7,550	469	1,980	3,200	3,760	1,430	4,580	3,740	5,420	6,630	3,790
20	2,950	7,400	233	2,880	668	6,600	3,230	4,840	774	7,250	6,010	7,690
21	2,940	1,830	2,930	3,280	229	5,710	4,210	4,850	5,290	7,440	1,780	8,150
22	2,740	390	3,950	2,710	1,700	4,510	4,580	3,050	6,990	7,720	1,540	9,050
23	5,420	6,400	3,260	678	2,280	3,090	4,020	810	7,550	7,690	4,710	9,560
24	2,230	7,690	859	118	2,960	4,210	2,590	4,160	7,610	3,920	3,370	8,970
25	417	8,500	114	1,600	2,580	9,450	13,400	5,490	7,290	972	1,770	6,590
26	7,080	6,290	106	2,780	2,330	3,810	8,730	5,620	3,650	5,200	1,580	1,500
27	8,740	7,170	105	4,070	694	1,950	9,160	5,630	1,460	7,200	1,180	6,310
28	8,720	2,300	3,470	4,360	800	3,390	5,110	6,590	5,950	7,400	2,040	9,030
29	7,850	598	3,610	2,850	-	3,260	5,900	4,270	6,790	7,760	2,510	9,100
30	8,450	6,390	3,840	827	-	3,750	9,140	1,020	6,870	6,910	3,570	9,340
31	4,020	-	3,100	207	-	2,980	-	4,510	-	2,880	1,900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	133,192	8,740	68	4,297	1.75	2.02
November	153,460	8,500	92	5,115	2.09	2.33
December	82,508	7,620	105	2,662	1.09	1.26
Calendar year 1936	1,968,322	59,400	68	5,378	2.20	29.88
January	56,314	4,360	118	1,817	.742	.86
February	134,611	17,200	229	4,808	1.96	2.04
March	122,250	9,450	1,500	3,944	1.61	1.86
April	149,030	15,800	133	4,968	2.03	2.26
May	106,307	6,590	195	3,429	1.40	1.61
June	157,206	7,610	227	5,240	2.14	2.39
July	163,545	7,760	820	5,276	2.15	2.48
August	86,303	6,630	110	2,784	1.14	1.31
September	184,046	9,980	506	6,135	2.50	2.79
Water year 1936-37	1,528,772	17,200	68	4,188	1.71	23.21

South Fork of Edisto River near Denmark, S. C.

Location.- Water-stage recorder, lat. 33°23'35", long. 81°08'00", at bridge on State Highway 6, 200 feet downstream from Seaboard Air Line Railway bridge, 1½ miles downstream from mouth of Little River, and 4¾ miles north of Denmark, Bamberg County. Zero of gage is 165.19 feet above mean sea level (unadjusted).

Drainage area.- 720 square miles.

Records available.- August 1931 to September 1937.

Extremes.- Maximum discharge during year, 2,260 second-feet Oct. 14 (gage height, 8.03 feet); minimum, 412 second-feet Sept. 29.
1931-37: Maximum discharge, 13,500 second-feet Apr. 11, 1936 (gage height, 10.91 feet), from rating curve extended above 4,720 second-feet; minimum, 183 second-feet June 30 to July 3, 1935.

Remarks.- Records good.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1-14, Dec. 18 to Sept. 30				Oct. 15 to Dec. 17	
5.5	404	7.0	1,090	6.3	555
5.7	440	7.3	1,380	6.7	805
6.0	513	7.6	1,700	7.0	1,060
6.3	622	8.0	2,190	7.3	1,360
6.7	848			7.6	1,700
				8.0	2,190

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	581	539	695	1,180	1,590	1,280	1,140	1,700	622	848	885	1,430
2	622	539	768	1,280	1,590	1,280	1,140	1,640	581	848	885	1,430
3	668	539	885	1,280	1,640	1,230	1,090	1,480	563	781	814	1,380
4	694	539	970	1,330	1,590	1,180	1,050	1,380	602	694	694	1,380
5	668	539	970	1,280	1,480	1,140	1,090	1,380	645	668	622	1,280
6	645	539	928	1,230	1,430	1,140	1,380	1,330	751	668	563	1,230
7	622	539	928	1,280	1,380	1,140	1,590	1,230	751	668	581	1,090
8	622	555	1,020	1,330	1,380	1,140	1,640	1,140	721	622	622	885
9	721	555	1,110	1,330	1,330	1,090	1,700	1,000	721	563	602	781
10	848	555	1,200	1,330	1,480	1,050	1,640	922	721	545	602	781
11	922	555	1,310	1,330	1,590	1,000	1,640	848	814	545	581	814
12	1,140	555	13,10	1,380	1,700	1,000	1,590	814	751	545	545	814
13	1,760	630	1,260	1,380	1,640	1,000	1,480	781	751	529	581	781
14	2,190	730	1,260	1,280	1,760	962	1,430	814	668	513	694	781
15	1,940	805	1,360	1,230	1,940	1,000	1,390	885	602	485	.668	848
16	1,700	928	1,580	1,180	1,760	1,140	1,380	885	581	461	602	922
17	1,520	1,020	1,640	1,140	1,590	1,230	1,380	885	622	461	545	848
18	1,360	970	1,640	1,090	1,430	1,280	1,180	885	602	545	513	751
19	1,160	928	1,640	1,050	1,330	1,280	1,090	848	581	751	513	645
20	970	885	1,640	1,090	1,330	1,280	1,000	814	581	1,180	545	581
21	885	885	1,590	1,090	1,430	1,380	1,000	814	645	1,880	563	545
22	805	845	1,590	1,050	1,430	1,480	1,090	781	721	1,480	529	529
23	768	805	1,590	1,050	1,380	1,480	1,140	721	721	1,140	499	499
24	768	730	1,480	1,090	1,330	1,380	1,090	668	668	922	513	485
25	805	695	1,380	1,090	1,280	1,280	1,140	781	581	885	563	485
26	768	695	1,330	1,180	1,180	1,280	1,230	721	622	781	668	461
27	695	660	1,330	1,280	1,230	1,380	1,230	622	848	721	751	440
28	630	660	1,280	1,540	1,280	1,280	1,330	622	848	751	962	421
29	578	660	1,180	1,640	-	1,140	1,480	645	781	721	1,230	412
30	555	660	1,140	1,590	-	1,090	1,590	694	781	751	1,330	412
31	555	-	1,090	1,540	-	1,090	-	668	-	848	1,380	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	29,165	2,190	555	941	1.31	1.51
November	20,739	1,020	539	691	.960	1.07
December	39,094	1,640	695	1,261	1.75	2.02
Calendar year 1936	389,028	12,700	312	1,063	1.48	20.12
January	39,140	1,640	1,050	1,263	1.75	2.02
February	41,500	1,940	1,180	1,482	2.06	2.14
March	37,102	1,480	962	1,197	1.66	1.91
April	39,330	1,700	1,000	1,311	1.82	2.03
May	29,398	1,700	622	948	1.32	1.52
June	20,447	848	563	682	.947	1.06
July	23,800	1,880	461	768	1.07	1.23
August	21,645	1,380	499	698	.969	1.12
September	24,141	1,430	412	805	1.12	1.25
Water year 1936-37	365,501	2,190	412	1,001	1.39	18.88

Seneca River near Anderson, S. C.

Location.- Water-stage recorder, lat. 34°30', long. 82°50', at highway bridge, 1½ miles downstream from mouth of Deep Creek, 4 miles upstream from confluence of Seneca and Tugaloo Rivers, and 10½ miles west of Anderson, Anderson County.

Drainage area.- 1,026 square miles.

Records available.- October 1931 to September 1937.

Extremes.- Maximum discharge during year, 55,200 second-feet Oct. 1 (gage height, 20.07 feet), from rating curve extended above 18,000 second-feet; minimum, 218 second-feet July 18; minimum daily discharge, 695 second-feet July 19.
1931-37: Maximum discharge, that of Oct. 1, 1936; minimum, about 90 second-feet Nov. 18, 1934; minimum daily discharge, 371 second-feet Oct. 15, 1931.
Maximum stage known, 25 feet Aug. 17, 18, 1929 (discharge, 77,000 second-feet, estimated).

Remarks.- Records good except those above 25,000 second-feet, which are fair. Diurnal fluctuation caused by operation of power plant upstream.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38,200	1,090	1,280	15,900	5,710	3,100	2,130	2,950	1,800	1,340	2,080	2,820
2	4,870	1,330	1,260	16,200	4,030	2,830	2,060	2,540	1,640	1,220	1,410	1,940
3	2,310	1,390	1,580	27,100	3,450	2,720	2,060	2,470	1,550	1,170	1,210	1,740
4	1,730	1,360	1,650	17,700	3,170	2,640	2,060	2,340	1,550	1,260	1,530	1,740
5	1,520	1,830	1,420	6,470	3,050	2,600	3,310	2,470	1,530	1,160	1,880	1,420
6	1,420	1,620	1,310	6,360	2,850	2,540	5,510	2,890	1,410	1,810	1,680	1,450
7	1,730	1,610	2,810	5,290	2,820	2,470	3,520	2,340	1,420	1,920	1,440	2,800
8	5,400	1,490	3,130	4,480	2,890	2,820	3,230	2,190	1,610	2,000	1,110	6,700
9	19,400	1,410	2,060	4,030	4,610	2,680	4,000	2,110	1,680	1,550	1,510	4,450
10	18,700	1,380	1,800	3,590	8,260	2,470	3,060	2,000	1,600	1,380	1,940	2,540
11	6,260	1,350	1,800	3,420	4,590	2,400	2,750	1,940	1,510	1,060	1,320	1,900
12	3,500	2,590	1,940	3,330	3,730	2,340	2,610	1,940	1,420	1,050	1,590	1,740
13	2,710	3,180	1,680	3,170	3,290	2,340	2,470	2,220	1,370	1,100	2,690	1,560
14	2,340	2,060	1,620	3,030	3,310	2,340	2,340	3,630	1,650	1,050	3,730	1,490
15	2,110	1,740	1,560	2,960	3,120	3,100	2,340	2,960	1,450	1,000	3,290	1,380
16	5,840	1,520	1,600	3,060	2,910	3,240	2,340	2,200	1,420	1,020	4,840	1,300
17	7,190	1,490	1,740	3,150	2,780	2,610	2,270	1,940	1,670	1,250	1,990	1,260
18	3,650	1,460	1,550	3,770	2,690	2,540	2,050	1,940	2,120	725	1,580	1,260
19	2,780	1,400	5,770	8,690	2,680	2,540	2,130	1,870	2,210	695	1,350	1,110
20	2,320	1,410	8,030	13,100	3,520	2,680	2,130	1,870	1,580	981	1,220	1,090
21	2,080	1,360	3,740	7,600	8,920	2,610	2,060	1,800	1,380	934	1,230	1,120
22	1,940	1,320	2,610	5,020	7,920	2,470	2,200	1,870	1,340	1,390	1,290	1,100
23	1,870	1,310	2,270	4,180	4,280	2,340	2,060	1,650	1,220	2,130	1,970	1,050
24	1,790	1,310	2,060	3,730	3,590	2,400	3,650	1,610	1,200	1,840	4,390	980
25	1,740	1,310	1,940	3,840	3,260	2,890	7,830	1,660	1,180	1,050	3,740	1,100
26	1,800	1,280	1,800	4,110	3,030	2,470	5,300	1,660	1,230	1,190	1,980	954
27	1,640	1,260	1,740	3,520	2,860	2,340	3,170	1,660	1,060	1,210	1,750	980
28	1,570	1,240	1,740	3,350	3,100	2,270	2,680	1,520	1,150	1,080	1,860	1,060
29	1,550	1,190	2,920	4,140	-	2,200	3,550	2,050	1,380	1,230	1,800	1,060
30	1,510	1,250	3,880	3,520	-	2,130	4,080	1,210	1,720	2,410	2,510	1,000
31	1,690	-	7,800	3,600	-	2,130	-	1,520	-	2,250	4,050	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	153,160	38,200	1,420	4,941	4.82	5.56
November	45,540	3,180	1,090	1,518	1.48	1.65
December	78,090	8,030	1,260	2,519	2.46	2.84
Calendar year 1936	1,114,242	42,600	499	3,044	2.97	40.41
January	201,410	27,100	2,960	6,497	6.33	7.30
February	110,420	8,920	2,680	3,944	3.84	4.00
March	79,250	3,240	2,130	2,556	2.49	2.87
April	90,950	7,830	2,050	3,032	2.96	3.30
May	65,020	3,630	1,210	2,097	2.04	2.35
June	45,050	2,210	1,060	1,502	1.46	1.63
July	41,455	2,410	695	1,337	1.30	1.50
August	65,960	4,840	1,110	2,128	2.07	2.39
September	52,094	6,700	954	1,736	1.69	1.89
Water year 1936-37	1,028,399	38,200	695	2,818	2.75	37.28

Augusta Canal near Augusta, Ga.

Location.- Two water-stage recorders at upper end of canal. Upper gage, lat. 33°32'55", long. 82°02'15", is 1,000 feet below diversion dam, 1¼ miles downstream from Stevens Creek power dam, and 5 3/8 miles northwest of Augusta, Richmond County. Lower gage, lat. 33°30'50", long. 82°00'15", is 3 3/8 miles downstream from upper gage. Zero of gages is 46.58 feet by city of Augusta datum, or 149.417 feet above mean sea level (general adjustment of 1929).

Records available.- November 1930 to September 1937.

Extremes.- Maximum daily discharge during year, 3,940 second-feet Sept. 1; minimum, 298 second-feet Jan. 4.
1930-37: Maximum daily discharge, that of Sept. 1, 1937; no flow Apr. 8 to May 10, 1936.

Remarks.- Records good except those for Dec. 5-12 and Jan. 10, 11, which were computed on basis of partial recorder record and records for similar periods and are fair. Daily discharge obtained by slope method. Canal diverts water from Savannah River at dam 1 mile downstream from Stevens Creek Dam for power and water supply. Waste water from power houses returns to river by three connections above Thirteenth Street highway bridge. Water is also pumped from canal for water supply of city of Augusta, and a small amount entering Beaverdam Ditch is discharged into river about 13 miles downstream from Augusta.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,400	1,860	3,300	3,430	3,080	3,150	3,650	1,960	3,210	3,620	1,860	3,940
2	2,530	3,050	3,320	1,860	3,380	3,490	3,600	874	3,570	3,000	3,350	3,620
3	1,980	3,070	3,420	740	3,330	3,530	2,460	3,230	3,500	2,460	3,490	3,330
4	1,850	3,250	3,390	298	3,350	3,490	2,050	3,690	3,420	1,650	3,640	2,320
5	2,960	3,420	2,400	629	3,380	3,490	3,300	3,690	1,860	1,620	3,450	1,660
6	3,100	3,520	1,700	1,910	2,160	2,250	3,620	3,810	1,180	2,740	3,590	1,630
7	3,260	2,610	3,200	1,860	1,380	1,350	3,520	3,810	3,040	2,930	2,450	3,190
8	3,380	2,230	3,400	2,130	3,100	3,180	3,600	2,400	3,250	3,010	2,150	3,500
9	3,530	3,210	3,400	2,030	3,330	3,500	3,760	1,710	3,360	3,030	3,220	3,780
10	2,200	3,370	3,400	1,400	3,110	3,440	2,320	3,390	3,250	2,270	3,370	3,680
11	1,600	3,360	3,400	3,200	2,500	3,490	1,400	3,740	3,360	1,890	3,740	2,310
12	2,690	3,500	2,400	3,390	2,980	3,350	3,210	3,800	2,130	3,120	3,580	2,160
13	3,260	3,590	1,410	3,450	2,370	2,220	3,660	3,810	1,390	3,120	3,500	3,370
14	3,350	2,580	2,680	3,400	1,710	1,320	3,680	3,860	3,090	3,320	2,390	3,540
15	3,380	1,760	3,420	3,400	3,070	3,250	3,680	2,170	3,230	3,300	1,840	3,550
16	3,580	3,140	3,410	2,400	3,280	3,610	3,610	1,070	3,480	3,260	3,330	3,500
17	2,710	3,270	3,380	1,830	3,290	3,610	2,040	3,150	3,460	2,320	3,800	3,570
18	2,320	3,270	3,390	3,100	3,210	3,570	1,540	3,420	3,480	1,700	3,620	2,720
19	3,230	3,330	2,530	3,340	3,240	3,480	3,150	3,420	1,990	3,090	3,530	2,290
20	3,420	3,240	1,610	3,170	1,740	2,480	3,440	3,470	1,560	2,720	3,240	3,300
21	3,450	2,230	2,160	2,330	1,360	1,660	3,520	3,440	3,190	2,890	2,620	3,100
22	3,610	1,710	3,050	2,560	2,560	3,330	3,540	2,270	3,300	3,100	2,340	3,010
23	3,490	3,040	3,550	2,180	2,900	3,550	3,600	1,890	3,080	3,120	3,560	3,440
24	2,510	3,270	2,230	1,910	3,250	3,630	2,340	3,180	3,190	2,820	3,850	3,180
25	1,980	3,320	1,620	3,060	3,330	3,630	1,770	3,360	3,250	2,370	3,760	2,410
26	3,170	3,340	1,600	3,380	3,280	3,650	3,060	3,440	1,920	3,220	3,720	2,040
27	3,320	3,320	1,860	3,200	2,480	2,490	3,330	3,460	1,240	3,510	3,380	3,140
28	3,550	2,220	3,210	3,160	1,500	1,700	3,460	3,410	2,990	3,560	2,350	2,910
29	3,480	1,970	3,350	3,270	-	3,280	3,510	2,280	3,310	3,390	1,880	3,270
30	3,400	3,090	3,360	2,270	-	3,550	3,220	1,380	3,620	3,420	3,370	3,340
31	2,340	-	3,360	1,990	-	3,570	-	3,070	-	2,300	3,880	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	92,030	3,610	1,600	2,969		
November	88,140	3,590	1,710	2,938		
December	87,910	3,550	1,410	2,836		
Calendar year 1936	916,069	3,610	0	2,503		
January	76,277	3,450	298	2,461		
February	77,650	3,380	1,360	2,773		
March	95,290	3,650	1,320	3,074		
April	92,640	3,760	1,400	3,088		
May	91,654	3,860	874	2,957		
June	85,900	3,620	1,180	2,863		
July	87,870	3,620	1,620	2,835		
August	97,850	3,880	1,840	3,156		
September	90,800	3,940	1,630	3,027		
Water year 1936-37	1,064,011	3,940	298	2,915		

Brier Creek at Millhaven, Ga.

Location.- Staff gage, lat. 32°56'00", long. 81°39'05", at Savannah & Atlanta Railway trestle at Millhaven, Screven County, 8½ miles above Beaver Dam Creek.

Drainage area.- 656 square miles.

Records available.- April to September 1937.

Extremes.- Maximum discharge observed during period, 4,430 second-feet May 4 (gage height, 11.50 feet), from rating curve extended above 2,400 second-feet; minimum, 150 second-feet Sept. 30 (gage height, 2.14 feet).

Remarks.- Records good between 400 and 3,000 second-feet and fair beyond these limits. Gage read twice daily.

Rating table, Apr. 14 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

2.0	126	5.0	678	9.0	2,490
2.5	208	6.0	965	10.0	3,190
3.0	293	7.0	1,390	11.0	3,990
4.0	473	8.0	1,880	12.0	4,880

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	1,390	363	435	435	473
2							-	1,680	363	473	435	454
3							-	2,000	363	511	417	473
4							-	3,990	345	511	363	570
5							-	3,990	327	435	293	590
6							-	2,700	345	399	293	570
7							-	1,830	435	399	293	612
8							-	1,480	550	363	242	678
9							-	1,160	530	363	191	590
10							-	1,040	399	327	191	435
11							-	965	381	293	208	399
12							-	860	363	276	216	511
13							-	830	381	259	293	612
14							1,390	830	454	259	399	678
15							1,300	830	492	242	570	726
16							1,300	776	473	242	492	678
17							1,120	750	417	216	399	550
18							1,040	776	381	242	345	492
19							860	726	363	242	345	550
20							776	726	327	242	363	435
21							726	750	327	310	381	363
22							726	830	399	345	435	293
23							726	750	511	345	435	259
24							750	634	612	327	345	225
25							860	550	656	242	363	216
26							930	511	612	191	363	200
27							776	454	511	182	293	174
28							702	435	473	259	363	166
29							776	399	530	276	363	158
30							1,390	363	473	276	435	150
31							-	363	-	310	473	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April 14-30	16,148	1,390	702	950	1.45	0.92
May	35,368	3,990	363	1,141	1.74	2.01
June	13,156	656	327	439	.669	.75
July	9,792	511	182	316	.482	.56
August	11,032	570	191	356	.543	.63
September	13,280	726	150	443	.675	.75
Water year						

Ogeechee River near Louisville, Ga.

Location.- Staff gage, lat. 32°58', long. 82°23', at bridge on U. S. Highway 1, 1 mile below Louisville & Wadley Railroad, 2 miles south of Louisville, Jefferson County, 2 miles below Rocky Comfort Creek, and 2 miles above Big Creek.

Drainage area.- 800 square miles.

Records available.- April to September 1937.

Extremes.- Maximum discharge observed during period, 12,800 second-feet May 2 (gage height, 16.1 feet); minimum, 167 second-feet Sept. 27 (gage height, 3.34 feet).

Remarks.- Records good. Discharge for May 24-26 computed on basis of record at Scarboro. Gage read twice daily.

Rating table, Apr. 16 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 31 to July 29)

3.0	137	8.0	821	13.0	3,900
4.0	237	9.0	1,090	14.0	5,580
5.0	350	10.0	1,430	15.0	8,200
6.0	475	11.0	1,930	16.0	12,300
7.0	625	12.0	2,690		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	3,760	386	217	303	609
2							-	12,800	362	207	338	643
3							-	9,650	338	237	350	697
4							-	4,820	326	259	362	697
5							-	3,130	314	248	326	625
6							-	2,430	303	303	281	503
7							-	1,990	350	362	259	374
8							-	1,700	338	350	227	326
9							-	1,550	326	338	259	326
10							-	1,470	326	350	326	338
11							-	1,360	609	350	462	398
12							-	1,150	755	314	374	449
13							-	970	661	248	386	475
14							-	945	697	217	462	449
15							-	945	755	207	531	449
16							1,430	945	593	217	561	449
17							1,320	1,090	449	217	436	386
18							1,220	1,430	410	227	374	314
19							1,150	1,510	410	248	326	259
20							1,180	1,290	489	292	292	237
21							1,150	1,000	577	303	281	227
22							1,060	777	531	259	259	227
23							945	643	398	227	292	217
24							845	550	303	207	281	207
25							870	450	248	187	326	187
26							1,000	470	217	197	374	177
27							1,060	489	197	207	410	177
28							1,060	517	197	248	476	177
29							1,470	517	187	259	531	187
30							2,510	489	197	281	545	197
31							-	436	-	303	577	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April 16-30	18,270	2,510	845	1,218	1.52	0.85
May	61,273	12,800	436	1,977	2.47	2.85
June	12,249	755	187	408	.510	.57
July	8,086	362	187	261	.326	.38
August	11,586	577	227	374	.468	.54
September	10,983	697	177	366	.458	.51
Water year						

Ogeechee River at Scarboro, Ga.

Location.- Staff gage, lat. 32°42'40", long. 81°52'45", at county highway bridge at Scarboro, Jenkins County, 3½ miles below Sculls Creek, 6½ miles above Horse Creek, and 7⅛ miles southeast of Millen.

Drainage area.- 1,940 square miles.

Records available.- April to September 1937.

Extremes.- Maximum discharge observed during period, 12,900 second-feet May 6 (gage height, 10.71 feet); minimum, 320 second-feet Sept. 30 (gage height, 1.58 feet).

Remarks.- Records good. Discharge for June 21, 22 interpolated. Gage read twice daily.

Rating table, Apr. 14 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

1.5	300	5.0	1,090	9.0	6,620
2.0	400	6.0	1,450	10.0	9,980
3.0	600	7.0	2,140	11.0	14,350
4.0	825	8.0	4,020		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	3,580	900	640	625	1,090
2							-	4,500	850	560	900	1,370
3							-	6,320	850	520	1,000	1,500
4							-	7,220	850	480	1,090	1,550
5							-	9,600	850	540	1,090	1,550
6							-	12,900	775	580	1,030	1,500
7							-	9,980	700	640	900	1,410
8							-	8,200	700	660	825	1,330
9							-	5,500	750	725	775	1,370
10							-	4,980	800	750	725	1,410
11							-	3,800	900	775	660	1,550
12							-	3,360	875	725	620	1,410
13							-	2,960	875	700	620	1,210
14							4,500	2,580	975	640	640	1,120
15							4,740	2,420	1,180	600	725	1,060
16							4,500	2,140	1,450	580	800	1,000
17							4,020	2,270	1,500	540	925	975
18							3,580	2,140	1,550	540	925	925
19							3,160	2,270	1,550	520	950	875
20							2,960	2,030	1,370	520	975	850
21							2,580	1,860	1,250	480	975	850
22							2,420	1,710	1,140	480	950	825
23							2,140	1,650	1,030	540	925	680
24							2,030	1,710	950	580	625	560
25							2,030	1,650	925	580	850	500
26							2,030	1,600	950	540	850	480
27							2,030	1,450	950	480	925	420
28							1,940	1,290	875	500	875	380
29							1,940	1,150	775	620	825	360
30							2,580	1,030	700	660	900	320
31							-	950	-	725	1,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April 14-30	49,180	4,740	1,940	2,893	1.49	0.94
May	114,800	12,900	950	3,703	1.91	2.20
June	29,795	1,550	700	993	.512	.57
July	18,440	775	480	595	.307	.35
August	26,900	1,090	620	868	.447	.52
September	30,430	1,550	320	1,014	.523	.58
Water year						

Ogeechee River near Eden, Ga.

Location.- Staff gage, lat. 32°10', long. 81°25', at bridge on U. S. Highways 25, 80 and 280, 2 miles west of Eden, Effingham County, 2 miles above Seaboard Air Line Railway, and 3 miles above Black Creek.

Drainage area.- 2,650 square miles.

Records available.- April to September 1937.

Extremes.- Maximum discharge observed during period, 11,400 second-feet May 11 (gage height, 11.55 feet); minimum, 790 second-feet Sept. 30 (gage height, 2.22 feet).

Remarks.- Records good. Gage read twice daily.

Rating table, Apr. 27 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

2.0	730	6.0	2,340	10.0	6,500
3.0	1,065	7.0	2,870	11.0	9,250
4.0	1,450	8.0	3,580	12.0	12,950
5.0	1,870	9.0	4,700		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	3,260	2,000	1,410	1,290	3,330
2							-	3,580	1,870	1,490	1,450	3,490
3							-	3,770	1,740	1,490	1,690	3,410
4							-	3,970	1,570	1,370	1,920	3,330
5							-	4,190	1,450	1,290	2,100	3,190
6							-	4,310	1,370	1,170	2,100	3,050
7							-	4,430	1,330	1,100	1,920	2,930
8							-	5,160	1,250	1,100	1,690	2,820
9							-	7,000	1,170	1,140	1,570	2,760
10							-	9,950	1,140	1,290	1,450	2,700
11							-	11,400	1,030	1,490	1,370	2,760
12							-	9,950	1,030	1,490	1,450	2,930
13							-	8,350	1,060	1,330	1,740	3,050
14							-	6,280	1,060	1,210	2,190	3,260
15							-	5,320	1,060	1,210	2,140	3,670
16							-	4,430	1,060	1,370	1,920	3,490
17							-	3,970	1,100	1,490	1,960	3,190
18							-	3,580	1,140	1,450	2,050	2,870
19							-	3,330	1,210	1,290	1,820	2,540
20							-	3,120	1,290	1,170	1,570	2,340
21							-	2,930	1,450	1,140	1,410	2,140
22							-	2,760	1,690	1,100	1,330	2,050
23							-	2,700	1,820	1,100	1,450	2,000
24							-	2,650	1,870	995	1,490	1,870
25							-	2,600	1,820	925	1,450	1,690
26							-	2,490	1,740	925	1,450	1,490
27							2,990	2,340	1,530	995	1,370	1,330
28							2,870	2,240	1,370	995	1,370	1,140
29							2,870	2,190	1,330	1,140	1,570	960
30							3,180	2,140	1,370	1,140	2,050	820
31							-	2,140	-	1,140	2,650	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January						
February						
March						
April						
May	136,530	11,400	2,140	4,404	1.66	1.91
June	41,920	2,000	1,030	1,397	.527	.59
July	37,945	1,490	925	1,224	.462	.53
August	53,180	2,650	1,290	1,715	.647	.75
September	76,600	3,670	820	2,553	.963	1.07
Water year						

Canoochee River near Claxton, Ga.

Location.- Staff gage, lat. 32°11'05", long. 81°53'25", at bridge on State Highway 73, 2 miles northeast of Claxton, Evans County, and 10 miles above Lotts Creek.

Drainage area.- 555 square miles.

Records available.- May to September 1937.

Extremes.- Maximum discharge observed during period, 1,750 second-feet Aug. 2 (gage height, 8.50 feet); minimum, 30 second-feet June 11 (gage height, 1.67 feet).

Remarks.- Records good above 200 second-feet and fair below. Gage read twice daily.

Rating table, May 26 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

1.6	22	3.0	408	5.5	915
1.8	46	3.5	530	6.0	1,016
2.0	83	4.0	636	7.0	1,260
2.3	163	4.5	733	8.0	1,574
2.6	272	5.0	824	9.0	1,944

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	58	223	1,150	896
2								-	51	219	1,510	934
3								-	45	129	1,540	995
4								-	46	116	1,470	1,060
5								-	53	129	1,750	995
6								-	45	148	1,610	896
7								-	41	163	1,060	806
8								-	38	291	788	676
9								-	32	434	460	508
10								-	31	460	310	380
11								-	31	434	508	257
12								-	41	484	484	752
13								-	53	310	676	676
14								-	41	238	636	484
15								-	34	238	695	552
16								-	43	714	676	484
17								-	41	380	508	380
18								-	88	380	408	291
19								-	122	245	380	204
20								-	132	245	310	187
21								-	177	230	380	261
22								-	135	291	714	257
23								-	81	348	934	242
24								-	71	272	954	257
25								-	90	204	636	212
26								85	88	177	380	166
27								75	75	129	530	124
28								73	71	127	842	101
29								73	119	380	842	79
30								75	223	878	752	69
31								69	-	1,060	752	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January						
February						
March						
April						
May 26-31	450	85	69	75.0	0.135	0.03
June	2,196	223	31	73.2	.132	.15
July	10,076	1,060	116	325	.586	.68
August	24,645	1,750	310	795	1.43	1.65
September	14,181	1,060	69	473	.852	.95
Water year						

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Ocmulgee River at Macon, Ga.

Location.- Water-stage recorder, lat. 32°51', long. 83°34', at Fifth Street Bridge in Macon, Bibb County. U. S. Weather Bureau gage at same site and datum. Zero of gage is 269.38 feet above mean sea level.

Drainage area.- 2,240 square miles, revised.

Records available.- January 1893 to September 1913, October 1931 to September 1937.

Average discharge.- 24 years (1893-1911, 1931-37), 2,912 second-feet.

Extremes.- Maximum discharge during year, 37,100 second-feet Apr. 30 (gage height, 20.98 feet); minimum, 668 second-feet July 25 (gage height, 2.65 feet).
1893-1913, 1931-37: Maximum discharge, 63,700 second-feet Apr. 9, 1936 (gage height, 25.23 feet); minimum, 192 second-feet Nov. 9, 16, 23, 1931; minimum gage height, -1.0 foot Oct. 5, 1904, July 27, 1914.
Maximum stage known, occurred either in 1925 or 1929 during flood; uncertainty as to which year due to fact that gages were at different bridges, about 1 mile apart. From floodmarks at Central of Georgia Railway bridge and all available data, computed crest stage at Fifth Street Bridge was 26.10 feet on Feb. 28, 1929, and 26.02 feet on Jan. 19, 1925 (discharge, 70,000 second-feet).

Remarks.- Records fair. Discharge for May 5-11 computed from graph drawn on basis of daily gage readings. Flow partly regulated by power plant near Jackson, Ga. Gage-height record collected in cooperation with U. S. Weather Bureau.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,960	1,040	1,690	5,920	5,920	4,810	4,020	29,900	2,430	2,620	1,540	4,330
2	13,100	978	1,640	10,100	6,080	4,810	3,960	21,600	2,740	2,370	1,310	3,360
3	5,120	1,800	1,650	18,200	5,440	4,740	3,900	11,300	2,780	2,220	1,720	2,940
4	3,300	1,750	1,870	25,100	4,740	4,620	3,120	5,300	2,660	1,350	1,570	3,080
5	2,200	1,520	1,860	28,700	4,380	4,680	2,550	4,200	2,400	1,380	1,760	2,810
6	2,600	1,410	1,630	28,100	4,080	4,560	7,400	4,400	1,320	2,180	1,230	1,460
7	2,920	1,390	2,940	22,500	3,280	3,900	6,900	4,000	1,200	2,680	1,210	2,560
8	3,500	1,020	5,160	12,100	2,020	2,840	6,900	3,800	2,220	2,470	1,170	2,150
9	3,240	968	4,500	5,920	8,080	4,320	14,200	3,500	2,430	2,390	1,330	1,740
10	3,150	1,590	4,170	4,950	16,700	4,440	15,800	3,500	1,850	2,340	2,380	1,500
11	3,350	1,400	4,000	4,500	19,700	4,440	9,980	3,500	1,840	1,380	2,610	2,360
12	2,940	1,470	3,960	4,380	8,700	4,380	6,990	3,630	1,800	1,180	2,550	2,280
13	3,150	1,480	3,320	4,260	5,840	4,380	4,740	3,660	1,230	1,620	2,570	1,300
14	3,080	1,670	1,810	4,200	6,240	3,740	4,320	4,140	1,100	1,430	2,930	1,680
15	3,070	1,020	3,950	4,140	6,080	2,990	4,260	3,990	1,820	1,370	2,680	1,620
16	3,090	998	5,680	4,200	6,080	5,760	4,140	3,230	1,990	1,120	1,530	1,470
17	3,000	1,920	5,600	3,960	5,600	4,950	3,660	1,590	1,860	910	2,600	1,340
18	2,320	1,950	4,950	3,660	4,950	4,620	2,260	2,990	2,540	758	1,990	1,220
19	2,000	1,600	6,430	4,880	4,560	4,680	1,990	3,180	2,660	800	1,560	1,120
20	2,280	1,660	7,430	5,760	6,820	12,800	3,640	2,920	1,640	1,200	1,600	905
21	2,320	1,520	5,160	10,900	12,500	8,880	3,910	2,840	1,180	1,010	1,480	1,190
22	2,270	1,500	4,740	9,500	18,500	4,740	4,220	2,980	2,140	955	1,220	1,000
23	2,260	990	4,230	7,280	14,900	4,810	3,900	2,810	2,360	885	1,320	1,010
24	2,020	1,860	4,120	5,090	7,140	4,680	3,940	1,820	2,060	892	2,130	1,040
25	1,340	1,840	3,650	5,230	5,440	4,810	3,960	2,720	1,350	702	2,530	1,000
26	1,000	1,770	2,660	9,900	5,090	4,560	3,080	3,140	1,060	698	2,340	1,060
27	2,260	1,280	2,700	11,000	4,810	4,260	5,440	3,050	1,130	865	1,820	1,000
28	2,050	1,560	2,790	7,920	4,880	3,550	4,680	3,000	1,130	1,050	1,930	1,320
29	2,290	1,030	3,880	7,400	-	2,620	12,200	2,700	2,190	1,100	1,900	1,140
30	1,980	1,030	3,920	6,160	-	3,940	34,300	1,550	2,450	1,160	2,360	1,000
31	1,820	-	4,150	5,300	-	4,080	-	1,350	-	2,520	3,210	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	94,980	13,100	1,000	3,064	1.37	1.58
November	43,014	1,950	968	1,434	.640	.71
December	116,240	7,430	1,630	3,750	1.67	1.92
Calendar year 1936	1,717,557	58,100	712	4,693	2.10	28.49
January	291,210	28,700	3,660	9,394	4.19	4.83
February	208,550	19,700	2,020	7,448	3.33	3.47
March	147,390	12,800	2,620	4,755	2.12	2.44
April	194,360	34,300	1,990	6,479	2.89	3.22
May	152,290	29,900	1,350	4,913	2.19	2.52
June	57,560	2,780	1,060	1,919	.857	.96
July	45,605	2,680	698	1,471	.657	.76
August	60,080	3,210	1,170	1,938	.865	1.00
September	51,985	4,330	905	1,733	.774	.86
Water year 1936-37	1,463,264	34,300	698	4,009	1.79	24.27

Ocmulgee River at Lumber City, Ga.

Location.- Staff gage, lat. 31°55', long. 82°40', at bridge on U. S. Highway 341 at Lumber City, Telfair County, 500 feet below Southern Railway bridge, 1 mile above Little Ocmulgee River, and 12 miles above confluence with Oconee River to form Altamaha River.

Drainage area.- 5,180 square miles.

Records available.- October 1936 to September 1937. U. S. Weather Bureau has obtained gage readings since August 1908.

Extremes.- Maximum discharge observed during year, 23,600 second-feet May 11 (gage height, 14.2 feet); minimum, 2,130 second-feet Sept. 30 (gage height, 1.3 feet).
1906-37: Maximum stage known, 26.3 feet Jan. 21, 1925; minimum, -0.9 foot June 17, 1911.

Remarks.- Records fair prior to June and good thereafter. Gage-height record furnished by the U. S. Weather Bureau from daily gage readings. Three discharge measurements furnished by Corps of Engineers, U. S. Army.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.0	1,960	9.0	7,820
2.0	2,520	10.0	9,580
4.0	3,670	11.0	11,820
6.0	4,860	12.0	14,800
8.0	6,530	13.0	18,500
		14.0	22,700

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,180	3,030	2,920	6,420	12,300	12,100	14,800	7,820	4,260	2,980	3,730	4,380
2	2,240	3,090	2,800	6,100	12,900	12,900	13,500	8,460	4,320	2,860	3,960	4,260
3	2,180	3,150	2,800	5,720	12,900	14,100	12,100	8,640	4,320	2,980	3,730	4,020
4	2,240	3,090	2,750	5,250	12,600	15,500	10,400	8,640	4,140	3,260	3,380	3,910
5	2,630	2,920	2,860	5,040	12,600	15,800	9,180	8,820	3,730	3,500	3,380	3,670
6	2,980	2,630	3,090	5,040	12,900	14,800	9,380	9,580	3,730	3,610	3,260	3,910
7	3,260	2,520	3,320	5,110	12,900	13,200	10,600	10,900	3,850	3,670	2,980	3,960
8	3,440	2,630	3,440	5,250	12,600	11,600	11,600	12,600	3,960	3,670	2,920	4,020
9	3,610	2,690	3,500	5,390	12,100	9,980	11,600	16,600	4,140	3,550	2,800	4,080
10	3,850	2,690	3,550	5,550	12,100	8,640	11,300	21,400	4,020	3,550	2,800	4,020
11	4,440	2,580	3,610	6,000	12,300	7,820	11,600	23,600	3,670	3,670	2,750	3,790
12	4,860	2,520	3,730	6,890	11,800	7,400	11,800	22,700	3,320	3,910	-2,690	3,670
13	4,920	2,410	3,850	8,300	11,300	7,010	11,300	19,700	3,380	3,960	2,800	3,550
14	4,920	2,410	4,020	11,100	10,600	6,770	10,900	16,600	3,610	4,020	3,030	3,320
15	4,800	2,580	4,200	16,200	10,400	6,530	10,400	12,600	3,670	3,910	3,440	3,210
16	4,740	2,920	4,560	20,600	10,200	6,200	10,400	9,580	3,610	3,550	3,670	3,260
17	4,800	3,210	4,800	22,300	10,200	6,000	10,900	7,540	3,440	3,380	3,960	3,210
18	4,800	3,320	4,980	20,600	10,600	6,000	11,300	6,420	3,150	3,380	4,080	2,980
19	4,800	3,320	5,180	18,100	12,100	6,000	12,300	5,900	3,260	3,320	4,200	2,920
20	4,680	3,030	5,320	14,800	13,800	6,100	12,900	5,630	3,550	3,260	4,320	2,800
21	4,560	2,860	5,390	11,800	16,200	8,460	12,600	5,470	3,670	3,260	4,140	2,860
22	4,440	2,980	5,390	9,180	18,100	9,580	11,800	5,390	3,790	3,210	3,850	2,800
23	4,320	2,980	5,470	7,540	17,700	10,200	10,400	5,320	3,850	3,320	3,500	2,690
24	4,140	2,920	5,550	6,530	16,200	9,780	8,820	5,110	3,910	3,790	3,090	2,520
25	3,850	2,860	5,720	6,200	14,500	10,200	7,540	4,920	3,790	4,080	2,920	2,410
26	3,670	2,800	5,900	6,770	13,200	11,800	6,530	4,860	3,380	4,260	2,800	2,350
27	3,550	2,690	6,200	7,980	12,100	12,900	5,900	4,740	3,380	4,080	2,630	2,240
28	3,440	2,630	6,310	8,640	11,800	13,500	5,630	4,620	3,500	3,610	2,750	2,180
29	3,260	2,800	6,530	9,780	-	14,100	5,550	4,560	3,380	3,150	3,500	2,180
30	2,980	2,920	6,530	10,900	-	14,800	6,770	4,440	3,150	3,090	3,960	2,130
31	2,800	-	6,530	11,800	-	15,100	-	4,320	-	3,210	4,260	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	117,380	4,920	2,180	3,786	0.731	0.84
November	85,180	3,320	2,410	2,839	.548	.61
December	140,800	6,530	2,750	4,542	.877	1.01
Calendar year						
January	296,880	22,300	5,040	9,577	1.85	2.13
February	359,000	18,100	10,200	12,820	2.47	2.57
March	324,870	15,800	6,000	10,480	2.02	2.33
April	309,800	14,800	5,550	10,330	1.99	2.22
May	297,480	23,600	4,320	9,596	1.85	2.13
June	110,930	4,320	3,150	3,698	.714	.80
July	109,050	4,260	2,860	3,518	.679	.78
August	105,280	4,320	2,630	3,396	.656	.76
September	97,300	4,380	2,130	3,243	.626	.70
Water year 1936-37	2,353,950	23,600	2,130	6,449	1.24	16.88

Altamaha River at Doctortown, Ga.

Location.- Water-stage recorder, lat. 31°39', long. 81°50', at Atlantic Coast Line Railroad bridge at Doctortown, Wayne County, about 4⅛ miles northeast of Jesup. Zero of gage is 28.77 feet above mean sea level.

Drainage area.- 13,600 square miles, revised.

Records available.- October 1931 to September 1937.

Extremes.- Maximum discharge during year, 47,800 second-feet May 13 (gage height, 8.10 feet); minimum, 3,820 second-feet Sept. 30 (gage height, -0.07 foot).
1931-37: Maximum discharge, 178,000 second-feet Apr. 18, 1936 (gage height, 12.03 feet); minimum, 1,760 second-feet Oct. 8, 9, 14, 15, 1931 (gage height, -2.3 feet).
Maximum stage known, 14.6 feet Jan. 23, 1925 (discharge, 300,000 second-feet, revised, from rating curve extended above 180,000 second-feet).

Remarks.- Records excellent.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

-0.5	3,520	5.0	12,500
0.0	3,900	5.5	15,400
.5	4,350	6.0	19,400
1.0	4,860	6.5	24,300
2.0	6,100	7.0	30,400
3.0	7,700	8.0	46,000
4.0	9,700	8.5	55,800

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,450	5,820	5,080	19,400	27,800	36,200	33,200	15,400	9,700	6,710	7,360	8,840
2	4,260	5,560	5,200	19,400	29,100	34,700	33,200	16,100	9,480	6,710	7,700	9,260
3	4,170	5,560	5,200	18,500	30,400	36,200	31,800	17,700	9,260	6,550	8,440	9,700
4	4,080	5,560	5,200	16,900	31,800	37,700	30,400	20,300	9,040	6,550	9,040	10,400
5	4,550	5,560	5,320	16,100	33,200	39,300	29,100	22,200	8,640	7,360	9,260	10,900
6	5,820	5,440	5,440	15,400	34,700	39,300	27,800	24,300	8,060	7,880	8,840	10,900
7	7,030	5,080	5,820	14,700	34,700	37,700	25,400	26,600	7,530	8,060	8,440	10,900
8	7,880	4,750	6,400	15,400	33,200	36,200	24,300	30,400	7,360	7,700	7,700	10,400
9	8,640	4,650	7,030	15,400	33,200	33,200	24,300	36,200	7,360	7,360	7,030	9,700
10	8,840	4,650	7,530	16,100	33,200	30,400	24,300	42,600	7,530	7,360	6,710	8,840
11	8,840	4,750	7,880	16,100	33,200	27,800	25,400	46,000	7,880	7,700	6,550	8,240
12	8,640	4,650	8,640	16,900	31,800	24,300	25,400	47,800	7,880	8,060	6,550	8,060
13	9,260	4,650	9,480	17,700	30,400	22,200	26,600	47,800	7,530	8,240	6,710	8,240
14	10,400	4,550	10,200	19,400	30,400	20,300	27,800	46,000	7,360	8,440	7,190	8,640
15	11,200	4,450	10,600	21,200	30,400	18,500	27,800	42,600	7,360	8,060	7,700	8,840
16	12,100	4,650	11,200	25,400	29,100	17,700	29,100	37,700	7,700	7,700	8,440	8,440
17	13,000	5,080	11,200	33,200	29,100	16,900	29,100	31,800	7,880	7,880	9,040	7,700
18	13,500	5,820	11,400	39,300	29,100	16,100	29,100	26,600	8,240	8,240	9,480	7,190
19	14,100	6,550	11,800	42,600	31,800	15,400	27,800	22,200	8,440	7,880	9,700	6,400
20	14,700	7,030	12,100	42,600	34,700	16,100	27,800	19,400	8,240	7,030	9,480	5,960
21	15,400	6,870	12,500	39,300	39,300	16,100	27,800	17,700	8,440	6,400	9,260	5,960
22	14,700	6,400	13,500	34,700	40,900	16,900	27,600	16,100	8,640	6,250	9,040	6,100
23	13,500	5,820	14,100	30,400	42,600	18,500	26,600	15,400	8,640	6,100	9,040	5,960
24	12,100	5,560	14,700	25,400	42,600	21,200	25,400	14,100	8,640	6,100	8,440	5,690
25	10,900	5,440	14,700	22,200	42,600	24,300	23,200	13,000	8,440	6,250	7,360	5,320
26	9,700	5,320	15,400	20,300	40,900	26,600	21,200	12,100	8,060	6,870	6,550	4,970
27	8,840	5,200	16,100	19,400	39,300	26,600	19,400	11,400	7,530	7,530	6,250	4,650
28	7,880	4,970	16,900	20,300	36,200	27,800	17,700	10,900	6,870	7,700	6,250	4,260
29	7,360	4,860	17,700	21,200	-	29,100	16,100	10,600	6,710	7,360	6,710	4,080
30	6,870	4,970	18,500	23,200	-	31,800	15,400	10,400	6,870	7,190	7,360	3,900
31	6,400	-	18,500	25,400	-	33,200	-	9,920	-	7,030	8,060	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	289,110	15,400	4,080	9,326	0.686	0.79
November	160,220	7,030	4,450	5,341	.393	.44
December	335,320	18,500	5,080	10,820	.796	.92
Calendar year 1936	7,554,120	178,000	3,720	20,640	1.52	20.65
January	723,500	42,600	14,700	23,340	1.72	1.98
February	955,700	42,600	27,800	34,130	2.51	2.61
March	828,300	39,300	15,400	26,720	1.96	2.26
April	780,300	33,200	15,400	26,010	1.91	2.13
May	761,320	47,800	9,920	24,560	1.81	2.09
June	241,310	9,700	6,710	8,044	.591	.66
July	226,250	8,440	6,100	7,298	.537	.62
August	245,680	9,700	6,250	7,925	.583	.67
September	228,440	10,900	3,900	7,615	.560	.62
Water year 1936-37	5,775,450	47,800	3,900	15,820	1.16	15.79

Tobesofkee Creek near Macon, Ga.

Location.- Staff gage, lat. 32°48', long. 83°46', at bridge on U. S. Highway 80, 8 miles west of Macon, Bibb County, and about 14 miles above the mouth.

Drainage area.- 182 square miles.

Records available.- March to September 1937.

Extremes.- Maximum discharge observed during period, 3,060 second-feet Apr. 30 (gage height, 12.10 feet); minimum, 21 second-feet Sept. 28-30 (gage height, 2.46 feet).

Remarks.- Records good except those for September, which are fair. Gage read twice daily.

Rating table, Mar. 23 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Aug. 30 to Sept. 30)

2.2	17	4.0	406
2.4	31	5.0	675
2.6	50	6.0	940
2.8	77	7.0	1,232
3.0	118	8.0	1,565
3.5	266	10.0	2,275
		12.0	3,020

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	237	996	95	86	52	71
2						-	222	433	91	66	49	64
3						-	222	351	88	58	61	58
4						-	237	295	93	57	55	51
5						-	433	309	88	65	48	65
6						-	940	406	127	121	44	49
7						-	514	266	91	95	111	51
8						-	487	237	82	147	64	51
9						-	832	222	84	124	252	76
10						-	487	204	88	84	100	65
11						-	351	192	81	70	74	47
12						-	295	180	76	61	65	50
13						-	280	171	72	57	147	46
14						-	266	309	77	68	252	38
15						-	252	252	72	95	95	34
16						-	237	186	90	76	79	37
17						-	222	168	77	84	56	28
18						-	222	156	82	52	51	30
19						-	204	150	106	56	49	29
20						-	195	162	86	58	47	40
21						-	195	144	82	61	50	34
22						-	323	135	74	57	55	33
23						406	222	156	65	50	60	24
24						433	222	165	58	49	47	25
25						406	351	132	56	48	130	24
26						309	252	124	57	57	90	21
27						280	204	118	252	47	76	22
28						266	186	121	130	43	68	25
29						252	1,300	113	86	46	65	29
30						237	2,940	104	90	49	95	26
31						252	-	102	-	52	95	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 23-31	2,841	433	237	316	1.74	0.58
April	13,330	2,940	186	444	2.44	2.72
May	7,059	996	102	228	1.25	1.44
June	2,698	252	57	89.9	.494	.55
July	2,139	147	43	69.0	.379	.44
August	2,582	252	44	83.3	.458	.53
September	1,243	76	21	41.4	.227	.25
Water year						

Echeconnee Creek near Macon, Ga.

Location.- Staff gage, lat. 32°46', long. 83°51', at Marshall Mill Bridge, 13 miles southwest of Macon, Bibb County, and about 18 miles above mouth.

Drainage area.- 100 square miles.

Records available.- March to September 1937.

Extremes.- Maximum discharge observed during period, 3,240 second-feet Apr. 30 (gage height, 9.18 feet); minimum, 11 second-feet Sept. 25, 26 (gage height, 0.32 foot).

Remarks.- Records good below 2,000 second-feet and fair above. Gage read twice daily.

Rating table, Mar. 24 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

0.3	10	4.0	475
.6	20	5.0	790
1.0	38	6.0	1,240
1.5	74	7.0	1,810
2.0	124	8.0	2,440
2.5	189	9.0	3,100
3.0	266	10.0	3,800

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	161	426	38	48	31	29
2						-	142	266	36	38	28	26
3						-	136	218	36	32	25	24
4						-	148	175	48	33	32	41
5						-	233	218	38	38	26	33
6						-	870	284	48	266	23	24
7						-	361	168	36	108	108	24
8						-	266	130	32	203	88	21
9						-	550	113	33	88	74	23
10						-	321	97	54	54	102	33
11						-	233	88	41	38	44	24
12						-	203	83	33	36	32	27
13						-	175	83	30	32	92	24
14						-	168	218	27	51	136	19
15						-	148	154	32	62	51	17
16						-	148	97	83	36	36	16
17						-	136	83	48	29	31	14
18						-	118	74	102	38	26	13
19						-	113	70	88	41	23	14
20						-	108	92	51	41	21	14
21						-	102	74	38	58	20	17
22						-	148	66	33	33	23	15
23						-	118	102	28	30	33	13
24						404	130	97	26	30	25	12
25						404	203	66	25	28	70	11
26						266	136	62	27	29	41	11
27						218	102	58	382	26	30	12
28						189	92	54	113	24	33	13
29						175	680	54	66	26	41	13
30						161	2,120	48	62	38	44	13
31						175	-	44	-	28	36	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 24-31	1,992	404	161	249	2.49	0.74
April	8,569	2,120	92	286	2.86	3.19
May	3,862	426	44	125	1.25	1.44
June	1,734	382	25	57.8	.578	.64
July	1,662	266	24	53.6	.536	.62
August	1,425	136	20	46.0	.460	.53
September	590	41	11	19.7	.197	.22
Water year						

Little Ocmulgee River at Towns, Ga.

Location.- Staff gage, lat. 32°00', long. 82°45', at bridge on State Highway 34 at Towns, Telfair County, about 9 miles above mouth.

Drainage area.- 363 square miles.

Records available.- April to September 1937.

Extremes.- Maximum discharge observed during period, 882 second-feet Apr. 7, 8 (gage height, 8.90 feet); minimum, 6.0 second-feet July 17 (gage height, 2.33 feet).

Remarks.- Records poor because of doubtful gage readings. Discharge for Sept. 28-30 interpolated.

Rating table, Apr. 3 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

2.2	4.5	4.0	116
2.4	7.0	5.0	241
2.6	12.5	6.0	390
2.8	20	7.0	550
3.0	31	8.0	720
3.5	67	9.0	900

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	364	38	14	80	122
2							-	810	27	12	116	122
3							567	618	22	11	127	116
4							567	567	16	9.5	162	116
5							618	550	14	11	150	110
6							738	550	13	9.5	90	105
7							846	584	12	11	59	95
8							864	518	13	8.0	55	85
9							864	422	17	7.5	55	80
10							792	315	21	7.0	55	63
11							774	241	24	6.5	51	51
12							720	200	27	9.5	44	38
13							686	174	36	9.0	43	30
14							652	162	44	7.0	40	24
15							584	162	40	6.5	38	20
16							534	127	30	6.5	37	17
17							502	95	25	6.0	44	16
18							438	85	22	6.5	55	15
19							390	76	20	9.0	95	14
20							345	95	22	8.5	105	19
21							300	110	24	12	95	26
22							285	90	25	14	80	29
23							270	72	24	16	72	27
24							300	63	22	22	72	24
25							270	51	20	44	80	21
26							213	46	18	67	85	23
27							187	48	22	72	100	22
28							200	44	26	85	116	20
29							390	42	21	85	138	25
30							846	43	29	80	144	30
31							-	41	-	67	127	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April 3-30	14,742	864	187	526	1.45	1.51
May	7,867	864	41	254	.70	.81
June	714	44	12	23.8	.066	.07
July	739.5	85	6.0	23.9	.066	.08
August	2,610	162	37	84.2	.232	.27
September	1,505	122	14	50.2	.138	.15
Water year						

Oconee River near Greensboro, Ga.

Location.- Wire-weight gage, lat. 33°35', long. 83°16', at bridge on State Highway 12, 1 mile below Town Creek, 5 miles above Apalachee River, 5 miles west of Greensboro, Greene County, and 12 miles below Barnett Shoals Dam. Prior to Aug. 14, staff gage at same site.

Drainage area.- 1,090 square miles, revised.

Records available.- July 1903 to September 1923 and May to September 1937 in reports of Geological Survey; October 1903 to December 1931 in reports of Corps of Engineers, U. S . Army.

Average discharge.- 27 years (1903-13, 1914-31), 1,625 second-feet.

Extremes.- Maximum discharge observed during period, 3,550 second-feet June 30 (gage height, 8.76 feet); minimum, 292 second-feet Sept. 26 (gage height, 0.96 foot); minimum daily, 383 second-feet Sept. 26 (gage height, 1.28 feet).
1903-31, 1937: Maximum gage height observed, 35.4 feet Aug. 26, 1908 (discharge, 70,000 second-feet, determined from computed discharge at Barnett Shoals Dam on basis of ratio of drainage areas); minimum daily discharge, 60 second-feet Sept. 28, 1925.

Remarks.- Records good above 600 second-feet and fair below. Gage read twice daily. Flow regulated by power dam 12 miles above.

Rating table, May 14 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet).

0.9	280	2.5	745	6.0	2,160
1.2	357	3.0	918	7.0	2,640
1.5	437	4.0	1,300	8.0	3,140
2.0	583	5.0	1,710	9.0	3,650

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	990	1,840	647	1,800
2								-	1,030	1,030	813	1,500
3								-	883	848	615	954
4								-	883	779	779	779
5								-	918	990	583	679
6								-	848	1,380	615	779
7								-	990	1,340	990	848
8								-	1,420	954	813	679
9								-	990	848	583	615
10								-	990	779	1,420	711
11								-	883	679	679	615
12								-	883	679	848	583
13								-	711	647	615	553
14								2,070	848	583	583	647
15								1,630	1,460	647	523	583
16								1,340	990	553	1,070	523
17								1,340	1,460	523	1,710	465
18								1,260	1,540	493	813	493
19								1,220	1,220	493	437	493
20								1,220	1,220	553	553	437
21								1,100	1,030	465	583	493
22								1,140	813	493	779	437
23								1,140	745	465	1,340	437
24								1,220	679	493	990	437
25								1,070	679	583	813	410
26								1,100	711	1,070	954	383
27								1,140	583	745	647	410
28								1,140	779	583	679	523
29								1,070	1,840	615	1,100	465
30								954	2,890	523	2,110	465
31								990	-	954	1,630	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January						
February						
March						
April						
May 14-31	22,144	2,070	954	1,230	1.13	0.76
June	31,906	2,890	583	1,064	.976	1.09
July	23,827	1,840	465	762	.699	.81
August	27,314	2,110	437	881	.808	.93
September	19,196	1,800	383	640	.587	.65
Water year						

Oconee River at Milledgeville, Ga.

Location.- Wire-weight gage, lat. 33°05', long. 83°13', at bridge on State Highway 24 at Milledgeville, Baldwin County, 0.4 mile above Fishing Creek and 4 miles below partly-completed Furman Shoals Dam of Georgia Power Co. Zero of gage is 230.18 feet above mean sea level.

Drainage area.- 2,950 square miles, revised.

Records available.- August 1903 to December 1905, April to September 1937. May 1906 to December 1908 and October 1909 to September 1923, at Fraleys Ferry, 7 miles upstream, in reports of Geological Survey; May 1906 to December 1908 and October 1909 to December 1931, at Fraleys Ferry, in reports of Corps of Engineers, U. S. Army. U. S. Weather Bureau has obtained daily stages since July 1, 1904.

Average discharge.- 22 years (1906-8, 1909-16, 1918-31), 3,696 second-feet.

Extremes.- Maximum discharge during period, 48,900 second-feet Apr. 30 (gage height, 29.27 feet); minimum, 630 second-feet Sept. 27 (gage height, 6.60 feet).
1903-31, 1937: Maximum discharge, 77,500 second-feet Aug. 16, 1928 (gage height, 38.7 feet, present site and datum), from rating curve developed in 1937 and extended above 50,000 second-feet; minimum daily, 90 second-feet several days in August and September 1925.

Remarks.- Records good above 1,000 second-feet and fair below. Some regulation from power dams upstream. U. S. Weather Bureau gage heights used Aug. 25-29, Sept. 1. Gage read twice daily.

Rating table, Apr. 17 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

6.5	570	10.0	3,680	17.0	12,400	24.0	26,660	30.0	52,500
7.0	910	12.0	5,870	20.0	16,950	26.0	34,200		
8.0	1,740	14.0	8,330	22.0	20,900	28.0	42,600		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	30,300	1,920	3,680	2,580	4,410
2							-	17,300	2,010	2,480	2,280	3,780
3							-	12,500	1,920	1,830	1,920	3,080
4							-	6,950	1,920	1,560	1,650	2,190
5							-	5,290	1,920	1,560	1,390	1,740
6							-	6,110	1,920	3,080	1,310	1,560
7							-	5,510	1,920	3,080	2,010	1,830
8							-	4,630	2,010	2,580	2,100	2,100
9							-	3,680	2,580	2,010	2,280	2,190
10							-	3,380	2,010	1,740	2,580	1,920
11							-	3,080	1,920	1,560	2,680	1,560
12							-	2,980	1,740	1,390	2,010	1,470
13							-	4,080	1,650	1,310	1,470	1,310
14							-	7,670	1,560	1,310	1,390	1,150
15							-	5,290	1,650	1,310	1,390	1,070
16							-	3,680	2,880	1,230	1,390	990
17							4,410	2,980	3,180	1,230	2,100	910
18							3,980	2,780	2,480	1,150	1,830	875
19							3,580	2,580	2,010	1,070	1,390	875
20							3,380	2,380	2,380	1,070	1,150	875
21							3,280	2,380	2,580	1,150	990	840
22							3,580	2,190	2,190	1,150	1,310	840
23							3,580	4,300	1,650	1,070	1,560	700
24							3,380	2,780	1,470	990	2,280	700
25							4,410	2,680	1,390	990	3,280	700
26							7,190	2,280	1,390	1,230	2,100	665
27							5,870	2,580	1,310	1,830	1,830	630
28							4,080	3,180	1,310	1,740	1,650	700
29							14,600	2,380	2,010	1,390	2,010	805
30							46,400	2,100	3,080	1,230	2,780	875
31							-	2,010	-	1,560	3,680	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April 17-30	111,720	46,400	3,280	7,980	2.71	1.41
May	162,010	30,300	2,010	5,226	1.77	2.04
June	59,960	3,180	1,310	1,999	.678	.76
July	50,560	3,680	990	1,631	.553	.64
August	60,370	3,680	990	1,947	.660	.76
September	43,340	4,410	630	1,445	.490	.55
Water year						

Oconee River at Dublin, Ga.

Location.- Wire-weight gage, lat. 32°32', long. 82°54', at bridge on U. S. Highway 80 in Dublin, Laurens County. Zero of gage is 148.58 feet above mean sea level.

Drainage area.- 4,400 square miles, revised.

Records available.- 1894 to 1898 (fragmentary), February 1898 to December 1913, and October 1931 to September 1937 in reports of Geological Survey; January 1929 to December 1931 in reports of Corps of Engineers, U. S. Army. Records of stage by U. S. Weather Bureau since 1894.

Average discharge.- 20 years (1898-1912, 1931-37), 5,299 second-feet.

Extremes.- Maximum discharge observed during year, 35,200 second-feet May 4 (gage height, 23.15 feet); minimum, 1,150 second-feet Oct. 1; minimum gage height, 1.77 feet Sept. 28.

1898-1913, 1931-37: Maximum discharge, 96,700 second-feet Apr. 12-13, 1936 (gage height, 32.97 feet); minimum, 510 second-feet Oct. 11, 1935 (gage height, 0.88 foot). Maximum stage known, that of Apr. 12-13, 1936.

Remarks.- Records good. Gage read once daily. Gage-height record collected in cooperation with U. S. Weather Bureau.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,150	1,620	2,000	4,540	14,000	14,100	5,800	13,000	2,740	2,290	2,590	3,780
2	3,860	1,580	2,140	6,500	12,800	10,600	5,600	16,300	2,520	4,710	2,740	4,800
3	6,200	1,540	2,360	7,770	11,400	8,820	5,330	30,400	2,520	3,780	2,740	4,460
4	6,400	1,480	2,740	8,580	10,700	7,880	5,060	35,200	2,590	2,740	2,360	4,030
5	6,700	1,580	3,060	9,300	10,100	7,000	4,970	32,900	2,590	2,140	2,590	3,060
6	5,600	1,510	3,540	10,300	8,820	6,400	6,000	28,200	2,520	2,070	2,000	2,440
7	2,740	1,510	3,540	11,900	7,330	6,000	8,940	23,200	2,520	2,900	1,930	2,140
8	2,220	1,620	3,760	14,600	6,400	5,700	10,300	18,100	2,440	3,940	1,760	2,360
9	2,070	1,650	6,900	22,700	6,000	5,420	11,400	13,700	2,440	3,620	1,760	2,520
10	3,220	1,650	7,330	28,200	7,660	5,420	12,400	9,300	2,740	3,220	2,360	2,660
11	7,660	1,650	6,700	26,800	10,100	5,600	12,900	6,400	2,740	2,520	2,360	2,740
12	8,340	1,660	5,330	22,700	12,300	5,420	12,900	5,330	2,590	2,140	2,980	2,290
13	7,880	2,440	4,370	17,900	17,300	5,060	13,000	4,800	2,440	1,930	2,900	2,140
14	8,940	2,820	3,940	12,900	23,000	4,800	13,200	5,060	2,290	1,720	2,220	2,070
15	9,430	3,540	3,860	7,660	23,000	4,710	11,900	7,110	2,220	1,680	2,220	1,930
16	8,940	4,370	4,370	6,100	20,500	5,060	8,460	8,340	2,070	1,680	2,220	1,720
17	4,970	3,620	5,420	5,600	17,300	7,220	7,220	7,880	3,460	1,680	2,000	1,680
18	3,460	2,740	6,800	5,510	13,500	7,990	7,220	6,000	3,940	1,720	1,860	1,580
19	2,900	2,440	6,300	5,330	9,060	7,550	6,700	4,860	3,380	1,790	2,740	1,510
20	2,590	2,140	6,000	6,000	7,000	7,000	5,900	4,370	3,540	1,650	2,440	1,440
21	2,290	2,070	8,220	7,330	8,220	9,690	5,240	3,940	3,220	1,760	1,860	1,440
22	2,140	2,000	9,450	8,340	10,500	11,200	4,970	3,700	2,980	1,860	1,720	1,440
23	2,000	2,000	9,950	9,060	11,600	12,300	4,970	3,380	2,900	1,930	1,760	1,380
24	1,930	2,000	10,800	9,820	13,500	13,800	5,150	3,700	2,290	1,650	1,930	1,340
25	1,860	2,000	11,200	10,500	16,400	14,600	5,150	4,880	1,930	1,480	2,360	1,340
26	1,790	2,140	11,000	11,200	18,400	13,700	5,800	4,200	1,790	1,440	3,460	1,310
27	1,790	2,140	7,220	10,500	18,200	12,200	7,220	3,460	1,720	1,410	3,140	1,310
28	1,720	2,220	6,000	10,600	17,000	10,200	8,220	3,300	1,650	1,720	2,520	1,280
29	1,760	2,140	4,370	11,700	-	8,220	8,100	3,940	1,650	2,220	2,520	1,310
30	1,680	2,070	4,120	13,200	-	6,800	10,900	3,700	1,930	2,000	2,440	1,340
31	1,650	-	4,200	14,100	-	6,200	-	3,060	-	1,790	2,980	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	125,880	9,430	1,150	4,061	0.923	1.06
November	64,140	4,370	1,480	2,138	.486	.54
December	176,690	11,200	2,000	5,700	1.30	1.50
Calendar year 1936	3,019,490	94,900	990	8,250	1.87	25.54
January	357,240	28,200	4,540	11,520	2.62	3.02
February	362,090	23,000	6,000	12,930	2.94	3.06
March	256,660	14,600	4,710	8,279	1.88	2.17
April	240,920	13,200	4,970	8,031	1.83	2.04
May	321,730	35,200	3,060	10,380	2.36	2.72
June	76,350	3,940	1,650	2,545	.578	.64
July	69,180	4,710	1,410	2,232	.507	.58
August	73,460	3,460	1,720	2,370	.539	.62
September	64,840	4,800	1,280	2,161	.491	.55
Water year 1936-37	2,189,180	35,200	1,150	5,998	1.36	18.50

Middle Oconee River near Athens, Ga.

Location.- Water-stage recorder, lat. 33°55', long. 82°23', at Princeton Bridge on U. S. Highway 129, half a mile below Princeton Mill Dam, 1½ miles above Barber Creek, 2 miles south of Athens, Clarke County, and 6 miles above junction with Oconee River. Zero of gage is 531.30 feet above mean sea level.

Drainage area.- 404 square miles.

Records available.- April to September 1937 at present site and October 1901 to October 1902, at site 4½ miles upstream, in reports of Geological Survey; January 1929 to March 1932, at present site, in reports of Corps of Engineers, U. S. Army.

Extremes.- Maximum discharge during period, 4,490 second-feet May 1 (gage height, 18.24 feet); minimum, 151 second-feet Sept. 25 (gage height, 5.30 feet).

1901-2, 1929-32, 1937: Maximum discharge observed, 19,600 second-feet Feb. 28, 1902 (gage height, 25.5 feet, former site and datum); minimum daily discharge, 69 second-feet Sept. 30, Oct. 18, 1932.

Remarks.- Records above 250 second-feet are good; those for periods of partly-estimated gage heights, May 3-5, Aug. 13, 14, and those below 250 second-feet are fair.

Rating table, Apr. 30 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

5.0	115	10.0	1,174
5.5	177	12.0	1,834
6.0	248	14.0	2,606
6.5	332	16.0	3,470
7.0	428	18.0	4,390
8.0	650	19.0	4,870
9.0	900		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								3,750	350	674	307	722
2								1,290	369	378	256	460
3								1,060	360	332	374	341
4								952	350	297	297	332
5								926	341	467	248	323
6								1,450	369	722	422	314
7								848	400	408	344	306
8								698	436	350	248	288
9								650	378	323	297	288
10								650	378	314	264	314
11								603	332	297	297	280
12								603	350	288	264	272
13								603	306	280	248	288
14								650	400	272	233	332
15								626	390	264	423	256
16								603	452	256	1,290	204
17								603	747	218	555	177
18								580	626	211	332	177
19								568	449	211	306	170
20								557	378	211	256	170
21								535	350	211	256	164
22								524	314	211	398	164
23								491	288	204	535	160
24								449	272	226	388	155
25								428	272	289	480	151
26								513	256	343	350	156
27								428	314	264	323	161
28								369	280	218	438	170
29								350	988	204	757	184
30							3,750	341	1,150	375	797	190
31								323	-	233	900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January						
February						
March						
April						
May	23,021	3,750	323	743	1.84	2.12
June	12,645	1,150	256	422	1.04	1.16
July	9,551	722	204	308	.762	.88
August	12,883	1,290	233	416	1.03	1.19
September	7,669	722	151	256	.634	.71
Water year						

Apalachee River near Buckhead, Ga.

Location.- Staff gage, lat. 33°36', long. 83°21', at bridge on State Highway 12, 2 miles below Hard Labor Creek, 3 miles northeast of Buckhead, Morgan County, and 9 miles above junction with Oconee River.

Drainage area.- 436 square miles, revised.

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

Extremes.- Maximum discharge observed during year, 1,310 second-feet June 20 (gage height, 6.48 feet); minimum, 150 second-feet Sept. 26, 27 (gage height, 1.10 feet). 1901-8, 1937: Maximum stage observed, 25.0 feet, former datum, Mar. 1, 1902 (discharge not determined); minimum daily discharge observed, 43 second-feet Oct. 24, 1904 (gage height, 0.4 foot, former datum), caused by regulation at High Shoals Dam, 23 miles upstream.

Remarks.- Records good. Gage read twice daily.

Rating table, May 13 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

1.0	138	3.0	455
1.3	175	4.0	673
1.6	216	5.0	910
2.0	275	6.0	1,160
2.5	359	6.5	1,310

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	415	476	605	1,040
2								-	455	341	561	435
3								-	359	291	377	324
4								-	359	275	245	275
5								-	341	275	245	260
6								-	396	435	260	377
7								-	377	650	377	359
8								-	497	497	497	275
9								-	359	307	275	230
10								-	341	291	307	275
11								-	307	275	275	245
12								-	307	245	216	230
13								673	291	230	216	202
14								766	275	230	245	188
15								814	415	230	291	175
16								539	497	230	230	175
17								497	497	202	216	162
18								435	742	188	188	175
19								415	583	188	175	162
20								396	1,010	188	175	162
21								377	583	188	260	162
22								359	359	188	216	162
23								497	307	175	742	162
24								415	275	175	742	162
25								396	275	202	377	162
26								583	260	435	275	162
27								1,140	260	415	275	162
28								673	275	291	341	188
29								435	377	245	605	175
30								396	742	341	561	162
31								377	-	539	910	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January						
February						
March						
April						
May 13-31	10,183	1,140	359	536	1.23	0.87
June	12,536	1,010	260	418	.959	1.07
July	9,238	650	175	298	.683	.79
August	11,280	910	175	364	.835	.96
September	7,385	1,040	162	246	.564	.63
Water year						

Ohoopee River near Reidsville, Ga.

Location.- Staff gage, lat. 32°04', long. 82°11', at Sheppard's Bridge, half a mile below Brazells Creek, 1⅛ miles below Rocky Creek, 3⅛ miles west of Reidsville, Tattnall County, about 6 miles below Pendleton Creek, and about 14 miles above mouth. Gage is at same site used in 1907 but is set to different datum.

Drainage area.- 1,110 square miles, revised.

Records available.- June 1903 to December 1907, May to September 1937 (at new datum).

Extremes.- Maximum discharge observed during period, 2,620 second-feet June 17 (gage height, 9.09 feet); minimum, 161 second-feet June 8 (gage height, 2.34 feet).
1903-7, 1937: Maximum discharge observed, 10,400 second-feet Feb. 17, 1905 (gage height, 19.0 feet, former datum), from rating curve extended above 6,000 second-feet; minimum, 50 second-feet Oct. 29 to Nov. 2, 1904, Oct. 24-26, 1905 (gage height, 0.30 foot, former datum).

Remarks.- Records good. Gage read twice daily. Possibly some regulation during periods of low flow from gristmill a quarter of a mile above station.

Rating table, May 25 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

2.0	104	7.0	1,580
3.0	286	8.0	2.040
4.0	512	9.0	2,560
5.0	810	10.0	3,160
6.0	1,160		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	286	1,090	1,200	912
2								-	286	1,200	1,720	1,120
3								-	266	980	2,040	1,280
4								-	226	622	1,900	1,280
5								-	206	392	1,760	1,200
6								-	188	326	1,090	1,050
7								-	170	392	746	946
8								-	161	486	594	810
9								-	170	622	594	622
10								-	197	682	594	622
11								-	246	714	594	714
12								-	286	682	486	980
13								-	326	512	512	1,050
14								-	566	392	682	810
15								-	1,090	326	878	912
16								-	1,760	348	960	878
17								-	2,400	326	1,200	778
18								-	1,580	226	1,400	566
19								-	1,440	197	1,280	438
20								-	1,120	206	1,090	414
21								-	912	226	878	462
22								-	946	326	746	462
23								-	980	414	622	438
24								-	746	414	566	462
25								486	486	438	594	414
26								438	392	370	778	370
27								392	392	306	946	266
28								326	414	326	810	197
29								306	414	370	844	170
30								286	652	370	878	170
31								266	-	566	844	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January						
February						
March						
April						
May 25-31	2,500	486	266	357	0.322	0.08
June	19,304	2,400	161	643	.579	.65
July	14,847	1,200	197	479	.432	.50
August	29,846	2,040	486	963	.868	1.00
September	20,793	1,280	170	693	.624	.70
Water year						

Satilla River near Waycross, Ga.

Location.- Staff gage, lat. 31°14', long. 82°19', at Atlantic Coast Line Railroad bridge and pumping station, 3 miles northeast of Waycross, Ware County, and 16 miles above Alabama River.

Drainage area.- 1,300 square miles.

Records available.- March to September 1937.

Extremes.- Maximum discharge observed during period, 9,240 second-feet Apr. 11 (gage height, 16.2 feet); minimum, 88 second-feet June 2 (gage height, 3.24 feet).

Remarks.- Records good. Gage read twice daily. Atlantic Coast Line Railroad pumps about 2,000,000 gallons daily at gage for use in shops.

Rating table, Mar. 29 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

3.0	80	10.0	1,640
3.5	102	10.5	1,790
4.0	140	11.0	1,980
4.3	176	11.5	2,200
4.6	238	12.0	2,450
5.0	333	12.5	2,750
6.0	573	13.0	3,100
7.0	823	14.0	4,040
8.0	1,086	15.0	5,680
9.0	1,360	16.0	8,540

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	5,080	1,360	92	122	2,690	525
2						-	4,580	1,500	88	186	2,570	549
3						-	4,040	1,640	151	255	2,060	573
4						-	3,820	1,760	140	333	1,640	623
5						-	3,620	1,860	114	405	1,470	623
6						-	3,820	1,900	151	309	1,330	549
7						-	3,920	1,940	226	205	1,030	453
8						-	4,440	1,820	405	163	723	357
9						-	7,240	1,640	549	130	927	453
10						-	8,880	1,420	525	122	1,090	333
11						-	9,240	1,250	405	114	1,000	238
12						-	8,540	1,090	285	108	979	477
13						-	7,560	901	261	108	1,060	549
14						-	6,400	773	285	102	1,190	525
15						-	5,460	648	273	381	1,390	453
16						-	4,580	525	273	673	1,300	357
17						-	3,820	429	381	748	1,250	273
18						-	3,180	357	429	798	1,190	215
19						-	2,690	297	525	953	1,110	178
20						-	2,100	250	623	953	1,000	205
21						-	1,670	205	525	773	875	953
22						-	1,390	170	477	723	901	1,530
23						-	1,190	151	405	927	1,220	1,640
24						-	1,060	140	273	1,140	1,110	1,640
25						-	979	130	178	1,140	623	1,580
26						-	953	130	140	1,060	573	1,560
27						-	953	114	122	1,110	453	1,500
28						-	927	108	114	1,470	381	1,390
29					7,240	953	114	108	1,730	381	1,140	
30					6,400	1,250	122	122	1,980	477	798	
31					5,680	-	97	-	2,200	549	-	

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April	114,335	9,240	927	3,811	2.93	3.27
May	24,841	1,940	97	801	.616	.71
June	8,645	623	88	288	.222	.25
July	21,451	2,200	102	692	.532	.61
August	34,742	2,690	381	1,121	.862	.99
September	22,239	1,640	178	741	.570	.64
Water year						

Satilla River at Atkinson, Ga.

Location.- Water-stage recorder, lat. 31°13', long. 81°52', at bridge on U. S. Highway 84, about 400 feet downstream from Atlantic Coast Line Railroad bridge and 1 mile west of Atkinson, Brantley County.

Drainage area.- 2,880 square miles, revised.

Records available.- October 1931 to September 1937.

Extremes.- Maximum discharge during year, 13,300 second-feet Apr. 14 (gage height, 16.27 feet); minimum, 105 second-feet Dec. 1 (gage height, 3.35 feet).
1931-37: Maximum discharge observed, 15,200 second-feet Feb. 18, 1933 (gage height, 16.96 feet); minimum, 4.5 second-feet Nov. 19, 20, 1931 (gage height, 1.9 feet).

Remarks.- Records good.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Dec. 26 to Feb. 5)

3.3	99	9.0	1,920
3.5	124	10.0	2,560
4.0	204	11.0	3,360
5.0	415	12.0	4,400
6.0	685	13.0	5,720
7.0	1,010	14.0	7,540
8.0	1,420	15.0	9,840
		16.0	12,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	167	324	109	1,130	1,170	6,940	12,800	2,160	379	940	3,100	2,630
2	156	292	111	1,010	1,420	6,940	12,200	2,280	357	1,130	3,540	2,630
3	150	269	112	940	1,620	6,940	11,400	2,560	368	1,470	3,950	2,700
4	153	247	116	870	2,040	6,940	10,600	2,940	324	1,720	4,280	2,700
5	156	228	130	835	2,490	6,940	10,100	3,270	357	1,720	4,640	2,630
6	152	209	148	775	3,020	6,740	9,600	3,540	415	1,470	4,900	2,560
7	146	197	169	760	3,540	6,560	9,360	3,640	428	1,210	5,160	2,560
8	150	188	181	730	4,060	6,200	9,120	3,740	379	1,010	5,160	2,560
9	152	179	188	715	4,400	5,720	9,120	3,740	346	975	5,030	2,560
10	172	169	193	700	4,640	5,030	9,840	3,740	346	940	4,770	2,350
11	233	159	200	685	4,770	4,400	10,600	3,740	390	835	4,900	2,040
12	379	158	220	670	4,520	3,740	11,400	3,740	440	700	4,770	1,920
13	670	155	243	655	4,280	3,180	12,500	3,640	465	552	5,300	1,920
14	1,010	152	292	640	4,060	2,630	13,100	3,360	478	452	6,200	1,820
15	1,420	148	428	625	4,060	2,220	13,100	2,940	490	490	7,540	1,670
16	1,920	144	610	610	4,060	1,870	12,500	2,490	478	805	8,420	1,570
17	2,490	141	870	595	4,170	1,620	11,400	2,100	465	1,170	8,880	1,520
18	2,860	140	1,290	580	4,400	1,420	10,600	1,720	502	1,570	8,880	1,370
19	2,860	135	1,720	565	4,640	1,250	9,600	1,370	528	1,920	8,420	1,170
20	2,560	131	2,160	565	4,900	1,250	8,640	1,090	552	2,220	7,540	1,010
21	2,220	127	2,420	552	5,300	1,620	7,760	870	625	2,420	6,740	1,170
22	1,870	124	2,630	528	5,880	2,040	6,740	745	745	2,560	5,720	1,420
23	1,570	120	2,630	515	6,200	2,350	5,880	670	870	2,780	4,640	1,870
24	1,210	118	2,490	490	6,380	2,860	4,900	775	870	2,940	3,640	2,630
25	940	116	2,350	465	6,380	3,640	4,170	685	805	2,860	3,020	3,640
26	760	114	2,220	478	6,560	4,770	3,450	565	670	2,700	2,630	4,400
27	625	111	2,040	515	6,740	6,040	2,780	540	540	2,560	2,490	4,640
28	540	109	1,820	580	6,940	7,540	2,280	540	452	2,490	2,700	4,400
29	465	107	1,620	685	-	9,360	2,040	610	440	2,490	2,630	3,950
30	402	106	1,420	775	-	11,900	2,040	528	685	2,560	2,560	3,540
31	357	-	1,250	940	-	12,800	-	428	-	2,700	2,560	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	28,915	2,860	146	933	0.324	0.37
November	4,917	324	106	164	.057	.06
December	32,380	2,630	109	1,045	.363	.42
Calendar year 1936	675,659	8,770	106	1,846	.641	8.74
January	21,178	1,130	465	683	.237	.27
February	122,640	6,940	1,170	4,380	1.52	1.58
March	153,450	12,800	1,250	4,950	1.72	1.98
April	259,620	13,100	2,040	8,654	3.00	3.35
May	64,756	3,740	428	2,089	.725	.84
June	15,189	870	324	506	.176	.20
July	52,359	2,940	452	1,689	.586	.68
August	154,710	8,880	2,490	4,991	1.73	1.99
September	73,450	4,640	1,010	2,448	.850	.95
Water year 1936-37	983,564	13,100	106	2,695	.936	12.69

St. Marys River near Macclenny, Fla.

Location.- Staff gage, lat. 30°21'35", long. 82°04'55", in sec. 2, T. 2 S., R. 22 E., at Stokes Bridge, 1 mile below junction of North and South Prongs, and 6 miles northeast of Macclenny. Zero of gage is 40.00 feet above mean sea level.

Drainage area.- 859 square miles. Watershed in Okeefenokee Swamp indeterminate.

Records available.- October 1926 to September 1937.

Average discharge.- 11 years, 641 second-feet.

Extremes.- Maximum discharge observed during year, 6,030 second-feet Sept. 24 (gage height, 14.95 feet); minimum observed, 26 second-feet Oct. 5 (gage height, 0.55 foot). 1926-37: Maximum discharge, 20,000 second-feet, revised, Sept. 20, 1928 (gage height, 21.9 feet. from floodmarks), from rating curve extended above 12,000 second-feet; minimum discharge observed, 12 second-feet May 22, 1932; minimum gage height observed, 0.04 foot June 4, 5, 1927.

Remarks.- Records good except those for days of rapidly changing stage, which are fair. Gage read once daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.5	24	6.0	726
1.0	52	7.0	928
2.0	132	9.0	1,460
3.0	244	11.0	2,200
4.0	367	13.0	3,620
5.0	548	15.0	6,030

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	132	43	194	670	1,790	842	616	65	55	1,460	688
2	29	127	46	163	599	1,550	822	616	62	52	1,460	745
3	29	103	65	172	548	1,340	745	634	58	52	1,520	670
4	28	95	65	172	481	1,140	652	616	55	55	1,250	670
5	26	87	58	172	433	972	928	599	55	55	1,230	842
6	38	79	58	162	417	842	1,520	565	58	55	842	842
7	38	79	55	162	357	745	1,860	497	72	49	822	842
8	46	72	55	152	327	670	1,860	433	68	46	688	842
9	55	72	55	152	284	582	2,020	387	62	43	582	802
10	117	72	58	152	357	531	2,460	342	55	40	497	764
11	565	72	58	142	582	465	2,400	284	55	40	548	688
12	928	68	65	132	707	417	2,300	244	72	38	548	670
13	802	68	79	132	670	372	2,200	218	83	46	514	707
14	616	68	83	127	1,040	327	1,650	194	79	55	565	822
15	531	65	103	122	1,370	298	1,340	183	72	49	548	1,250
16	670	62	433	122	1,400	298	1,200	162	65	40	802	972
17	1,170	58	531	122	1,230	298	972	132	65	46	906	842
18	1,310	58	497	112	1,040	284	822	132	65	87	862	764
19	972	58	417	103	906	270	726	132	65	103	764	707
20	745	52	372	103	783	244	514	127	65	142	745	634
21	616	52	342	95	745	244	448	99	83	194	707	2,520
22	548	52	327	95	1,980	218	387	87	91	206	906	5,770
23	548	49	298	87	3,520	206	357	79	87	342	972	5,640
24	449	49	298	87	3,820	194	342	79	87	726	822	6,030
25	372	46	270	87	3,420	183	327	83	83	842	652	5,770
26	357	46	270	99	2,840	284	312	132	79	802	531	5,250
27	284	46	244	183	2,460	481	357	122	76	726	433	4,380
28	244	46	231	497	2,060	842	327	95	65	707	402	3,620
29	218	46	218	652	-	906	298	87	58	802	565	3,420
30	183	46	206	822	-	802	357	79	58	1,200	582	3,150
31	152	-	194	783	-	764	-	72	-	1,340	599	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	12,714	1,310	26	410	0.477	0.55
November	2,025	132	46	67.5	.079	.09
December	6,094	531	43	197	.229	.26
Calendar year 1936	99,658	1,540	25	272	.317	4.33
January	6,377	822	87	206	.240	.28
February	35,046	3,820	284	1,252	1.46	1.52
March	18,559	1,790	183	599	.697	.80
April	31,346	2,460	298	1,045	1.22	1.36
May	8,127	634	72	262	.305	.35
June	2,063	91	55	68.8	.080	.09
July	9,035	1,340	38	291	.339	.39
August	24,324	1,520	402	785	.914	1.05
September	61,313	6,030	634	2,044	2.38	2.66
Water year 1936-37	217,023	6,030	26	595	.693	9.40

St. Johns River near Christmas, Fla.

Location.- Water-stage recorder, lat. 28°33', long. 80°57', in sec. 29 or 32, T. 22 S., R. 34 E., at bridge on State Highway 22, about 5 miles east of Christmas. Zero of gage is 1.68 feet above mean sea level.

Drainage area.- 1,320 square miles.

Records available.- December 1933 to September 1937.

Extremes.- Maximum discharge during year, 1,420 second-feet Sept. 30 (gage height, 6.51 feet); minimum, 201 second-feet July 12 (gage height, 3.97 feet).
1933-37: Maximum discharge, 4,800 second-feet June 20, 1934 (gage height, 8.9 feet, from floodmarks); minimum, 29 second-feet June 4, 1935 (gage height, 1.35 feet).
Flood of September 1926 reached a stage of 10.8 feet (discharge, 10,000 second-feet, from rating curve extended above 4,500 second-feet).

Remarks.- Records good October to April and fair thereafter.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	725	1,020	1,100	810	528	596	497	392	320	228	267	221
2	700	975	1,100	810	528	596	497	404	310	228	284	221
3	700	975	1,100	810	512	578	482	404	301	228	310	221
4	700	940	1,100	780	512	578	482	404	301	228	329	221
5	700	975	1,100	780	497	561	512	404	292	221	339	228
6	725	1,060	1,060	780	482	561	512	404	301	214	339	228
7	725	1,140	1,060	780	468	544	528	404	310	214	339	228
8	725	1,180	1,060	752	468	544	528	404	320	214	339	236
9	725	1,180	1,020	752	454	528	528	392	320	214	329	251
10	752	1,230	1,020	725	497	512	528	392	320	208	320	267
11	840	1,280	1,020	725	528	512	512	381	320	208	320	275
12	905	1,280	1,020	725	544	497	497	370	320	208	310	301
13	940	1,280	975	725	561	497	482	381	320	214	310	329
14	1,020	1,280	975	700	578	482	482	392	310	214	301	349
15	1,060	1,320	975	700	578	482	454	404	301	208	292	360
16	1,140	1,280	975	675	578	468	454	416	292	214	310	360
17	1,140	1,280	940	675	561	468	441	404	284	214	320	360
18	1,140	1,280	940	675	561	454	428	404	275	221	320	360
19	1,100	1,280	940	654	561	454	428	404	275	221	310	370
20	1,100	1,280	940	654	561	441	416	392	275	228	310	404
21	1,100	1,230	905	654	596	441	404	392	267	221	301	416
22	1,100	1,230	905	634	634	428	404	392	267	221	292	454
23	1,100	1,230	905	634	634	428	404	381	267	221	275	512
24	1,100	1,230	905	615	634	428	416	381	259	214	267	561
25	1,060	1,180	872	596	634	416	404	370	259	214	251	615
26	1,060	1,180	872	596	615	416	404	370	251	214	236	654
27	1,060	1,140	872	578	615	441	416	360	243	221	228	700
28	1,060	1,140	872	561	615	454	404	349	236	228	214	725
29	1,060	1,140	840	561	-	454	404	349	228	236	208	810
30	1,020	1,140	840	544	-	454	392	339	228	236	208	1,140
31	1,020	-	840	544	-	497	-	329	-	243	221	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	29,302	1,140	700	945	0.716	0.83
November	35,355	1,320	940	1,178	.892	1.00
December	30,048	1,100	840	969	.734	.85
Calendar year 1936	551,033	4,030	596	1,506	1.14	15.54
January	21,204	810	544	684	.518	.60
February	15,534	634	454	555	.420	.44
March	15,210	596	416	491	.372	.43
April	13,740	522	392	458	.347	.39
May	11,964	416	329	386	.292	.34
June	8,572	320	228	286	.217	.24
July	6,816	243	208	220	.167	.19
August	8,999	339	208	290	.220	.25
September	12,377	1,140	221	413	.313	.35
Water year 1936-37	209,121	1,320	208	573	.434	5.91

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St. Johns River near De Land, Fla.

Location.- Slope station with two gages in T. 17 S., R. 29 E.; upstream water-stage recorder at Hawkinsville landing, 1 mile above Crows Bluff Bridge; downstream water-stage recorder 3½ miles below this bridge, at St. Francis landing. Zeros of gages are 1.106 feet and 0.716 foot, respectively, below mean sea level. An auxiliary recorder is operated at Crows Bluff Bridge, lat. 29°01', long. 81°23', 5 miles west of De Land, and this is the point of determination of the drainage area and the place where discharge measurements are made.
Drainage area.- 2,830 square miles.
Records available.- January 1934 to September 1937.
Extremes.- Maximum daily discharge during year, 3,300 second-feet Oct. 24; minimum daily, 370 second-feet Jan. 27.
1934-37: Maximum daily discharge, 10,600 second-feet July 4-6, 1934; minimum daily, about 30 second-feet Feb. 1, 1935 (strong upstream wind).
Maximum stage known, 6.8 feet in 1910 (discharge not determined).
Remarks.- Records above 2,000 second-feet are good, those below 500 and 2,000 second-feet are fair, and those below 500 second-feet are poor. Those for the following periods, when one or both recorders were not operating, were rated and determined as indicated: Oct. 16-19, Sept. 5, 6, good, computed by interpolating slope relation; Dec. 24 to Jan. 12, fair, computed by using auxiliary-recorder graph at bridge and interpolating slope relation; July 14-28, poor, computed by studying range in stage indicated on recorder charts, comparing gage-height graph with graphs of tributary streams, and interpolating slope relation. Discharge determined graphically by use of three-dimensional diagram of discharge and stages at each end of reach. This diagram is defined by many discharge measurements.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,170	2,620	2,800	2,360	1,260	1,960	1,600	600	830	1,130	940	1,660
2	1,980	2,680	2,520	2,460	860	1,920	1,660	470	870	1,040	1,070	1,480
3	1,880	2,700	2,370	2,480	1,060	2,090	1,620	550	950	1,100	1,160	1,500
4	1,820	2,770	2,260	2,480	1,730	2,160	1,880	520	1,140	1,040	1,080	1,490
5	1,350	2,740	2,110	2,490	1,260	2,260	1,980	880	1,320	960	1,210	1,600
6	1,310	2,710	2,180	2,480	1,800	2,320	1,860	1,200	1,360	900	1,240	1,780
7	1,460	2,480	2,380	2,490	1,580	2,260	1,680	1,550	1,180	850	1,390	1,840
8	1,700	2,400	2,290	2,600	1,730	2,140	1,860	1,500	1,220	880	1,500	1,900
9	2,140	2,480	1,520	2,700	1,800	1,850	1,640	1,400	1,120	800	1,540	1,760
10	2,360	2,570	1,660	2,360	1,590	1,760	1,820	1,900	1,110	740	1,580	1,440
11	2,500	2,530	1,890	2,500	740	1,700	1,880	1,780	1,000	680	1,610	1,540
12	2,500	2,620	1,920	2,340	1,040	1,610	1,860	1,690	1,050	710	1,760	1,820
13	2,540	2,460	1,740	2,060	820	1,680	1,880	1,480	980	730	1,940	1,770
14	2,600	2,480	1,700	1,950	1,030	1,500	1,900	1,310	950	970	1,920	1,660
15	2,580	2,610	1,630	1,920	1,220	1,360	1,800	1,410	950	980	1,820	1,760
16	2,780	2,450	1,760	1,720	1,510	1,020	1,860	1,460	1,160	1,030	1,620	2,020
17	2,840	2,660	1,800	1,840	1,540	1,200	1,950	1,500	1,210	1,030	1,370	2,240
18	2,960	2,780	2,100	1,690	2,150	1,200	1,900	1,620	1,260	850	1,300	2,150
19	3,020	2,860	2,470	2,000	2,290	1,440	1,920	1,780	1,210	860	1,310	2,000
20	3,100	2,740	2,460	2,200	2,160	1,470	1,910	1,820	1,300	1,020	1,410	2,120
21	3,220	2,860	2,670	2,360	2,160	1,480	1,940	1,670	1,260	860	1,400	2,000
22	3,260	2,800	2,640	2,240	1,760	1,260	1,800	1,570	1,320	1,020	1,360	1,540
23	3,260	3,010	2,460	2,310	2,100	940	1,690	1,530	1,410	1,040	1,480	1,200
24	3,300	3,110	2,550	2,280	2,270	940	1,700	1,760	1,240	820	1,420	1,120
25	3,190	3,190	2,530	2,140	2,260	890	1,970	1,600	980	840	1,380	910
26	2,980	3,110	2,620	1,860	1,980	860	1,540	1,500	800	920	1,300	740
27	2,920	3,020	2,520	370	2,060	740	1,650	1,410	860	1,310	1,220	950
28	2,830	3,050	2,560	460	2,120	540	1,760	1,500	860	870	1,160	890
29	2,500	3,050	2,580	550	-	830	1,910	1,400	1,000	800	1,080	550
30	2,490	3,070	2,520	880	-	950	1,150	1,250	1,020	800	1,340	530
31	2,500	-	2,440	950	-	1,110	-	1,000	-	900	1,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	77,140	3,300	1,310	2,488	0.879	1.01
November	82,610	3,190	2,400	2,754	.973	1.09
December	69,650	2,800	1,520	2,247	.794	.92
Calendar year 1936	1,138,830	5,950	870	3,112	1.10	14.97
January	61,720	2,700	370	1,991	.704	.81
February	45,680	2,290	740	1,631	.576	.60
March	45,460	2,320	540	1,466	.518	.60
April	53,570	1,980	1,150	1,786	.631	.70
May	42,610	1,900	470	1,375	.486	.56
June	32,920	1,410	800	1,097	.388	.43
July	28,480	1,310	680	919	.325	.37
August	43,410	1,940	940	1,400	.495	.57
September	45,960	2,240	530	1,532	.541	.60
Water year 1936-37	629,210	3,300	370	1,724	.609	8.26

Econlockhatchee River near Chuluota, Fla.

Location.- Staff gage, lat. 81°07', long. 28°41', in sec. 9 or 10, T. 21 S., R. 32 E., at highway bridge, 3 miles northeast of Chuluota. Zero of gage is 2.135 feet above mean sea level.

Drainage area.- 296 square miles.

Records available.- November 1935 to September 1937.

Extremes.- Maximum discharge observed, 1.760 second-feet Oct. 15 (gage height, 10.55 feet); minimum, 16 second-feet June 29, 30; minimum gage height, 0.85 foot July 15. 1935-37: Maximum discharge observed, that of Oct. 15, 1936; minimum, 15 second-feet May 11, 1936; minimum gage height, that of July 15, 1937.
Maximum stage known, 16.7 feet in 1928 (discharge not determined).

Remarks.- Records fair. Gage read once daily.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	183	127	50	60	34	136	154	145	25	19	34	226
2	278	111	56	63	36	136	183	97	21	19	34	304
3	346	97	66	66	36	127	183	111	20	20	43	390
4	422	91	68	63	36	119	193	136	20	20	43	422
5	472	85	66	60	36	111	183	183	19	20	43	406
6	489	85	63	56	34	97	193	239	18	20	46	390
7	438	136	60	53	34	85	193	360	18	23	40	438
8	375	145	56	50	32	85	204	360	22	20	50	472
9	332	163	56	50	32	73	204	304	60	19	66	422
10	332	173	53	50	46	66	239	239	63	18	73	390
11	438	183	50	50	79	66	226	193	56	18	70	332
12	632	183	48	43	127	58	226	154	46	17	73	291
13	1,260	163	48	46	145	56	204	127	40	17	85	278
14	1,580	163	48	43	145	53	163	111	34	17	111	265
15	1,760	154	50	43	145	50	127	127	32	16	136	239
16	1,620	145	50	40	136	48	111	136	28	18	204	204
17	1,520	127	56	40	136	46	97	193	25	18	304	154
18	1,360	119	63	40	127	40	85	193	26	18	406	127
19	1,060	111	68	40	127	40	73	173	22	18	455	85
20	898	97	66	40	111	38	70	154	21	18	438	71
21	751	91	68	40	97	36	68	119	21	20	390	85
22	670	79	60	38	111	38	63	97	22	21	318	79
23	406	79	60	34	127	36	58	85	22	21	278	111
24	346	73	60	34	145	34	97	73	22	21	252	127
25	278	70	63	32	145	34	111	63	21	28	252	111
26	239	68	68	32	145	43	97	56	20	23	226	103
27	226	63	66	32	145	48	111	48	18	22	183	111
28	204	58	66	34	136	68	163	43	17	24	183	97
29	183	56	63	34	-	73	183	36	16	26	127	91
30	154	53	63	34	-	73	145	30	16	30	97	173
31	145	-	60	34	-	103	-	28	-	32	183	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	19,397	1,760	145	626	2.11	2.43
November	3,348	183	53	112	.378	.42
December	1,838	68	48	59.3	.200	.23
Calendar year 1936	103,188	1,760	15	282	.953	12.96
January	1,374	66	32	44.3	.150	.17
February	2,685	145	32	95.9	.324	.34
March	2,116	136	34	68.3	.231	.27
April	4,407	239	58	147	.497	.55
May	4,413	360	28	142	.480	.55
June	811	63	16	27.0	.091	.10
July	641	32	16	20.7	.070	.08
August	5,243	455	34	169	.571	.66
September	6,994	472	71	233	.787	.88
Water year 1936-37	53,267	1,760	16	146	.493	6.68

Wekiva River near Sanford, Fla.

Location.- Staff gage, lat. 28°48', long. 81°25', on line between secs. 21 and 28, T. 19 S., R. 29 E., at highway bridge, 9 miles west of Sanford.

Records available.- October 1935 to September 1937. October 1931 to September 1935 (discharge measurements only).

Extremes.- Maximum discharge observed during year, 642 second-feet Oct. 12; maximum gage height observed, 4.16 feet Oct. 11-14; minimum discharge observed, 145 second-feet Aug. 29; minimum gage height observed, 3.26 feet Aug. 29, Sept. 17-19.
1935-37: Maximum discharge observed, 912 second-feet June 5, 1936 (gage height, 4.36 feet), from rating curve extended above 550 second-feet; minimum observed, that of Aug. 29, 1937; minimum gage height observed, 3.02 feet Dec. 11, 12, 1935.

Remarks.- Records fair. Gage read twice daily.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	269	205	221	253	253	264	426	221	178	232	399	313
2	275	199	242	253	302	264	399	226	172	215	507	318
3	253	199	253	253	291	248	372	269	172	210	588	345
4	248	199	242	253	275	237	372	318	172	205	561	345
5	226	205	242	253	259	232	372	318	167	199	453	275
6	226	221	242	248	242	232	372	291	183	194	399	253
7	221	237	242	248	226	221	372	264	194	199	345	248
8	248	242	232	248	215	221	372	237	188	215	345	226
9	399	242	232	248	210	215	372	221	188	215	345	226
10	507	242	237	248	275	215	345	210	178	199	372	226
11	588	232	237	242	372	215	313	199	178	194	345	221
12	642	242	237	242	372	215	296	194	188	178	318	221
13	615	242	237	237	399	215	264	199	210	178	280	242
14	615	242	237	232	480	215	253	237	199	178	248	226
15	588	242	286	232	453	215	232	269	178	178	226	221
16	561	232	307	232	426	242	232	275	178	199	210	210
17	534	221	307	226	399	237	221	264	172	199	194	194
18	480	221	296	226	345	237	215	253	172	210	178	194
19	426	221	286	226	318	237	205	232	183	210	183	199
20	372	221	275	221	280	232	199	215	188	205	172	226
21	345	215	264	221	291	237	199	205	188	199	172	221
22	296	215	264	221	345	232	194	199	188	210	188	259
23	264	215	259	215	345	226	188	199	205	194	183	264
24	248	215	275	215	318	221	253	199	188	275	178	291
25	232	215	269	215	302	215	259	199	183	253	172	345
26	232	215	269	210	280	221	264	194	178	248	161	318
27	226	215	269	302	264	313	259	194	178	248	151	318
28	226	215	264	318	259	318	242	194	172	232	151	318
29	221	210	264	313	-	345	221	194	183	237	145	345
30	221	210	264	296	-	345	226	183	221	318	172	480
31	215	-	253	286	-	399	-	178	-	318	275	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	11,019	642	215	355		
November	6,647	242	199	222		
December	8,004	307	221	258		
Calendar year 1936	106,946	912	156	292		
January	7,633	318	210	246		
February	8,796	480	210	314		
March	7,681	399	215	248		
April	8,509	426	188	284		
May	7,050	318	178	227		
June	5,522	221	167	184		
July	6,744	318	178	218		
August	8,616	588	145	278		
September	8,088	480	194	270		
Water year 1936-37	94,309	642	145	258		

Blue Spring near Orange City, Fla.

Location.- Lat. 28°56', long. 81°21', in sec. 7, T. 18 S., R. 30 E., about 2½ miles west of Orange City.

Records available.- March 1932 to September 1937 (discharge measurements only).

Extremes.- Maximum discharge measured during year, 170 second-feet Dec. 2; minimum, 152 second-feet May 12.

1932-37: Maximum discharge measured, 188 second-feet Dec. 5, 1932; minimum, 62.7 second-feet Nov. 6, 1935, uncertain owing to adverse measuring conditions and abnormal amount of backwater from St. Johns River.

Remarks.- Measurements are made about monthly in the spring run above junction with St. Johns River, a quarter of a mile below spring.

Discharge measurements, in second-feet, water year October 1936 to September 1937

Oct. 6	166	Feb. 11	168	June 4	161
Nov. 3	161	Mar. 9	166	July 27	164
Dec. 2	170	Apr. 15	160	Sept. 8	165
Jan. 13	164	May 12	152		

Oklawaha River near Ocala, Fla.

Location.- Water-stage recorder, lat. 29°11', long. 82°00', in sec. 15, T. 15 S., R. 23 E., at county highway bridge known as Sharpes Ferry, 2 miles upstream from Silver River and 9 miles east of Ocala. Zero of gage is 36.24 feet above mean sea level.

Records available.- February 1930 to September 1937.

Extremes.- Maximum discharge during year, 1,720 second-feet Aug. 31 (gage height, 4.58 feet); minimum, 251 second-feet July 23, 24; minimum gage height, 0.64 foot July 23. 1930-37: Maximum discharge, 1,810 second-feet June 15, 1934; maximum gage height, 5.52 feet Sept. 6, 1933; minimum discharge, 48 second-feet June 4, 1933; minimum gage height, -1.76 feet Aug. 2, 1931.

Remarks.- Records good. No appreciable effect this year from regulation by power plant at Moss Bluff, 12 miles upstream.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	372	470	402	408	366	453	507	372	335	275	415	1,380
2	378	453	408	408	366	453	507	366	335	280	437	1,230
3	372	453	408	408	361	437	507	378	330	280	488	1,160
4	366	453	408	402	361	422	527	415	330	285	488	1,090
5	366	453	402	402	361	422	693	422	335	280	507	1,090
6	366	437	395	395	356	415	730	422	345	280	507	1,030
7	372	437	402	395	356	402	693	415	350	275	507	970
8	383	422	402	395	356	395	693	402	340	270	507	970
9	470	422	402	389	356	389	693	389	335	266	507	914
10	527	422	395	402	361	378	659	378	330	266	527	862
11	548	422	395	402	366	361	626	366	330	266	548	862
12	659	422	402	408	356	356	571	361	325	280	548	814
13	659	437	402	415	395	350	548	356	320	270	548	814
14	659	437	395	422	437	356	527	422	325	280	527	770
15	659	437	415	422	453	356	507	527	325	290	527	770
16	659	437	437	415	453	361	488	548	320	275	548	730
17	659	437	437	408	437	361	470	548	310	270	527	693
18	659	422	437	402	422	361	453	527	310	275	527	693
19	626	422	437	402	408	356	437	488	315	270	507	693
20	597	422	437	395	402	361	422	470	320	270	488	693
21	571	422	422	389	408	356	422	437	305	261	488	693
22	548	422	422	389	453	356	408	408	300	256	488	693
23	548	422	422	383	470	350	408	389	305	251	488	693
24	527	415	415	378	470	350	422	378	295	251	470	659
25	527	415	408	372	453	356	415	372	290	256	453	659
26	527	415	408	372	453	356	408	366	275	261	453	626
27	507	415	415	383	453	389	395	356	270	275	453	626
28	507	408	408	383	453	415	389	350	270	295	488	626
29	488	402	408	372	-	395	378	350	270	315	507	626
30	488	402	408	372	-	402	383	345	275	356	693	659
31	470	-	408	372	-	470	-	340	-	389	1,630	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	16,064	659	366	518		
November	12,855	470	402	428		
December	12,762	437	395	412		
Calendar year 1936	180,039	862	290	492		
January	12,260	422	372	395		
February	11,342	470	358	405		
March	11,940	470	350	385		
April	15,286	730	378	510		
May	12,663	548	340	408		
June	9,420	350	270	314		
July	8,669	389	251	280		
August	16,796	1,630	415	542		
September	24,788	1,380	626	826		
Water year 1936-37	164,845	1,630	251	452		

Oklawaha River near Connor, Fla.

Location.- Water-stage recorder, lat. 29°13', long. 81°59', in sec. 3, T. 15 S., R. 23 E., at bridge on Ocala-Daytona highway, a quarter of a mile downstream from mouth of Silver River and 8 miles east of Ocala. Zero of gage is 31.80 feet above mean sea level.

Records available.- February 1930 to September 1937.

Extremes.- Maximum discharge during year, 2,590 second-feet Aug. 31 (gage height, 7.58 feet); minimum discharge, 1,020 second-feet July 23 (gage height, 4.85 feet).
1930-37: Maximum discharge, 3,700 second-feet Sept. 6, 1933 (gage height, 9.14 feet); minimum, 631 second-feet Feb. 1, 1933 (gage height, 2.88).

Remarks.- Records good. Those for Oct. 19-23, Jan. 4-8, Apr. 4-10, Aug. 8-14 computed from gage-height graph drawn on basis of graph for station near Ocala. Slight regulation this year from operation of power plant at Moss Bluff.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,200	1,300	1,220	1,220	1,080	1,220	1,320	1,260	1,180	1,060	1,260	2,280
2	1,200	1,300	1,240	1,200	1,080	1,220	1,320	1,240	1,160	1,080	1,280	2,140
3	1,180	1,300	1,220	1,200	1,080	1,200	1,300	1,260	1,160	1,080	1,340	2,070
4	1,180	1,300	1,240	1,200	1,080	1,200	1,320	1,320	1,160	1,080	1,320	2,000
5	1,180	1,300	1,220	1,180	1,080	1,180	1,560	1,340	1,180	1,060	1,320	2,000
6	1,180	1,280	1,220	1,180	1,080	1,180	1,620	1,320	1,200	1,060	1,320	1,960
7	1,200	1,280	1,240	1,180	1,060	1,180	1,620	1,300	1,200	1,060	1,320	1,960
8	1,220	1,280	1,240	1,180	1,060	1,180	1,590	1,280	1,180	1,040	1,300	1,930
9	1,320	1,280	1,220	1,160	1,060	1,180	1,540	1,260	1,160	1,040	1,300	1,900
10	1,360	1,280	1,220	1,180	1,080	1,160	1,510	1,240	1,160	1,040	1,320	1,860
11	1,510	1,280	1,220	1,160	1,080	1,160	1,460	1,220	1,150	1,040	1,340	1,860
12	1,560	1,280	1,220	1,160	1,060	1,150	1,410	1,220	1,150	1,080	1,340	1,830
13	1,510	1,280	1,220	1,160	1,150	1,150	1,380	1,200	1,130	1,060	1,340	1,830
14	1,480	1,280	1,220	1,160	1,180	1,150	1,360	1,280	1,150	1,100	1,320	1,800
15	1,480	1,280	1,240	1,160	1,200	1,150	1,340	1,360	1,150	1,130	1,320	1,770
16	1,480	1,260	1,260	1,150	1,200	1,160	1,320	1,380	1,130	1,080	1,320	1,740
17	1,480	1,260	1,260	1,150	1,180	1,160	1,320	1,380	1,130	1,060	1,300	1,710
18	1,460	1,240	1,260	1,150	1,160	1,160	1,300	1,380	1,130	1,080	1,280	1,710
19	1,460	1,240	1,260	1,150	1,150	1,160	1,280	1,360	1,130	1,060	1,280	1,710
20	1,440	1,240	1,260	1,130	1,150	1,160	1,260	1,340	1,150	1,060	1,260	1,710
21	1,440	1,240	1,240	1,130	1,180	1,150	1,260	1,320	1,130	1,040	1,260	1,710
22	1,410	1,240	1,240	1,130	1,240	1,150	1,260	1,300	1,130	1,030	1,280	1,680
23	1,410	1,240	1,240	1,110	1,240	1,130	1,260	1,280	1,130	1,040	1,260	1,680
24	1,380	1,240	1,220	1,110	1,240	1,130	1,280	1,260	1,110	1,030	1,260	1,650
25	1,380	1,240	1,220	1,110	1,240	1,130	1,280	1,240	1,110	1,030	1,240	1,650
26	1,360	1,240	1,220	1,100	1,220	1,110	1,280	1,240	1,080	1,040	1,240	1,620
27	1,360	1,220	1,220	1,110	1,200	1,180	1,260	1,220	1,060	1,060	1,240	1,620
28	1,360	1,220	1,220	1,110	1,220	1,200	1,260	1,220	1,060	1,080	1,300	1,590
29	1,340	1,200	1,220	1,100	-	1,180	1,260	1,200	1,080	1,110	1,340	1,590
30	1,320	1,200	1,220	1,100	-	1,180	1,260	1,200	1,060	1,180	1,570	1,680
31	1,320	-	1,220	1,080	-	1,280	-	1,180	-	1,240	2,510	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	42,160	1,560	1,180	1,360		
November	37,820	1,300	1,200	1,261		
December	38,180	1,260	1,220	1,232		
Calendar year 1936	495,550	1,770	1,130	1,354		
January	35,600	1,220	1,080	1,148		
February	32,030	1,240	1,060	1,144		
March	36,280	1,280	1,110	1,170		
April	40,790	1,620	1,260	1,360		
May	39,600	1,380	1,180	1,277		
June	34,090	1,200	1,060	1,136		
July	33,220	1,240	1,030	1,072		
August	41,680	2,510	1,240	1,345		
September	54,240	2,280	1,590	1,808		
Water year 1936-37	465,690	2,510	1,030	1,276		

Oklawaha River near Orange Springs, Fla.

Location.- Staff gage, lat. 29°30'15", long. 81°54'45", in sec. 20, T. 11 S., R. 24 E., at Jordans Ferry and mouth of Orange Creek, 2¾ miles east of Orange Springs. Prior to Oct. 1, 1936, gage was a quarter of a mile downstream at same datum. Zero of gage is 5.36 feet above mean sea level.

Records available.- February 1930 to September 1937.

Extremes.- Maximum discharge observed during year, 4,120 second-feet Sept. 5 (gage height, 8.70 feet); minimum, 1,100 second-feet July 13 (gage height, 4.27 feet). 1930-37: Maximum discharge, 9,760 second-feet Sept. 3, 1933 (gage height, 12.00 feet, 11.60 on former gage, from floodmarks); minimum observed, 741 second-feet on several days during January to June 1933; minimum gage height observed, 2.46 feet (2.40 on former gage) Feb. 2, 1933.

Remarks.- Records good. Gage read twice daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

4.2	1,080	6.5	2,200
4.4	1,140	7.0	2,580
4.6	1,200	7.5	2,980
4.8	1,270	8.0	3,430
5.0	1,350	8.5	3,920
5.5	1,570	9.0	4,450
6.0	1,870		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,330	1,570	1,390	1,410	1,370	1,660	1,690	1,540	1,310	1,310	1,350	2,540
2	1,350	1,540	1,430	1,410	1,350	1,630	1,720	1,540	1,290	1,290	1,370	3,620
3	1,330	1,520	1,450	1,410	1,330	1,600	1,720	1,570	1,290	1,270	1,430	4,120
4	1,330	1,500	1,430	1,410	1,310	1,540	1,750	1,600	1,270	1,230	1,470	4,020
5	1,310	1,500	1,430	1,390	1,310	1,520	1,930	1,600	1,290	1,180	1,500	3,620
6	1,310	1,500	1,430	1,390	1,290	1,500	2,240	1,570	1,310	1,170	1,520	3,340
7	1,310	1,500	1,410	1,390	1,270	1,470	2,900	1,540	1,310	1,140	1,500	3,070
8	1,310	1,500	1,410	1,390	1,250	1,450	3,430	1,520	1,290	1,140	1,470	2,900
9	1,410	1,500	1,390	1,390	1,270	1,430	3,520	1,520	1,290	1,140	1,470	2,740
10	1,500	1,470	1,390	1,370	1,270	1,410	3,430	1,500	1,290	1,140	1,450	2,540
11	1,690	1,470	1,390	1,370	1,250	1,390	3,160	1,470	1,310	1,110	1,500	2,460
12	2,020	1,470	1,410	1,370	1,430	1,370	2,900	1,450	1,330	1,110	1,600	2,380
13	2,270	1,470	1,410	1,350	1,630	1,350	2,660	1,450	1,310	1,110	1,750	2,420
14	2,500	1,470	1,410	1,350	1,990	1,330	2,420	1,450	1,290	1,110	1,840	2,340
15	2,620	1,450	1,500	1,350	1,890	1,330	2,240	1,470	1,270	1,110	1,930	2,270
16	2,580	1,430	1,540	1,330	1,660	1,350	2,100	1,470	1,230	1,120	1,930	2,240
17	2,460	1,430	1,540	1,330	1,630	1,350	1,960	1,470	1,270	1,120	1,840	2,160
18	2,300	1,430	1,520	1,330	1,600	1,350	1,870	1,470	1,310	1,120	1,750	2,130
19	2,160	1,410	1,520	1,310	1,570	1,330	1,780	1,470	1,270	1,170	1,660	2,100
20	2,060	1,410	1,520	1,310	1,630	1,310	1,720	1,470	1,250	1,180	1,570	2,100
21	1,960	1,410	1,500	1,310	1,750	1,290	1,690	1,470	1,230	1,170	1,540	2,130
22	1,900	1,410	1,500	1,290	1,750	1,270	1,630	1,450	1,250	1,160	1,500	2,130
23	1,840	1,390	1,470	1,290	1,720	1,270	1,570	1,470	1,250	1,160	1,470	2,130
24	1,780	1,370	1,470	1,290	1,720	1,250	1,570	1,470	1,230	1,140	1,450	2,100
25	1,750	1,370	1,470	1,270	1,660	1,250	1,600	1,470	1,220	1,140	1,430	2,020
26	1,720	1,370	1,470	1,290	1,630	1,270	1,630	1,450	1,180	1,170	1,410	1,990
27	1,690	1,370	1,450	1,370	1,630	1,410	1,630	1,410	1,170	1,180	1,410	1,960
28	1,660	1,350	1,430	1,410	1,760	1,470	1,600	1,390	1,160	1,270	1,410	1,930
29	1,630	1,350	1,430	1,430	-	1,500	1,540	1,370	1,160	1,310	1,390	1,900
30	1,630	1,350	1,430	1,430	-	1,500	1,540	1,370	1,180	1,330	1,520	2,020
31	1,600	-	1,410	1,390	-	1,600	-	1,330	-	1,330	2,060	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	55,310	2,620	1,310	1,784		
November	43,280	1,570	1,350	1,443		
December	44,950	1,540	1,390	1,450		
Calendar year 1936	665,050	3,770	1,310	1,817		
January	42,130	1,430	1,270	1,359		
February	42,420	1,760	1,250	1,515		
March	43,750	1,660	1,250	1,411		
April	63,140	3,520	1,540	2,105		
May	45,790	1,600	1,330	1,477		
June	37,810	1,330	1,160	1,260		
July	36,630	1,330	1,110	1,182		
August	48,490	2,060	1,350	1,564		
September	75,420	4,120	1,900	2,514		
Water year 1936-37	579,120	4,120	1,110	1,587		

North Fork of Black Creek near Middleburg, Fla.

Location.- Staff gage, lat. 30°07'10", long. 81°54'35", in sec. 28, T. 4 S., R. 24 E., about 4 miles northwest of Middleburg.

Drainage area.- 207 square miles.

Records available.- November 1931 to September 1937.

Extremes.- Maximum discharge observed during year, 2,220 second-feet Feb. 22 (gage height, 15.18 feet); minimum, 5.8 second-feet July 10, 14, 15 (gage height, 0.36 foot). 1931-37: Maximum discharge, 6,720 second-feet Sept. 6, 1933 (gage height, 19.35 feet, from floodmarks); minimum, 3.6 second-feet June 8, 1935 (gage height, 0.26 foot). Maximum stage known, 25.3 feet in June 1919, from information given by old resident (discharge, 18,000 second-feet, from rating curve extended above 3,200 second-feet).

Remarks.- Records good. Gage read twice daily.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	44	25	38	303	122	292	188	10.3	9.0	178	218
2	42	45	44	37	228	105	218	168	10.0	9.2	140	208
3	59	35	52	36	178	97	158	158	9.8	8.2	140	198
4	52	31	45	36	140	85	131	178	9.8	8.6	113	140
5	56	28	44	36	113	77	431	158	10.3	8.8	93	105
6	66	32	43	34	113	70	647	113	11.2	8.4	93	85
7	62	36	39	36	101	62	671	89	12.1	7.2	131	66
8	59	39	38	39	93	56	503	77	15	6.8	131	56
9	93	38	44	42	85	48	551	66	12.7	6.2	122	45
10	149	37	42	44	93	45	695	52	12.1	5.8	113	48
11	383	37	42	45	188	42	563	41	17	6.8	158	48
12	746	42	44	43	208	37	314	33	24	6.4	140	41
13	695	52	48	41	270	36	188	27	48	6.2	149	48
14	303	48	48	45	515	33	131	28	43	5.8	122	70
15	325	42	105	48	683	33	101	34	31	6.0	101	66
16	1,270	36	228	43	539	34	81	39	22	10.3	113	97
17	1,600	31	208	39	314	41	70	34	16	11.8	93	89
18	993	30	178	36	198	36	59	32	12.7	18	62	66
19	455	28	158	34	131	34	52	31	10.6	44	48	56
20	248	29	122	32	113	31	45	27	9.8	52	39	52
21	158	28	93	30	467	30	40	21	9.4	52	48	563
22	122	26	73	28	1,510	28	37	19	9.4	66	131	1,160
23	97	24	62	27	1,490	26	34	17	9.0	89	158	1,150
24	77	24	56	27	876	26	33	15	8.6	113	97	695
25	66	24	48	28	455	33	62	15	8.0	178	70	431
26	59	24	48	105	270	73	105	14	7.8	140	52	270
27	52	22	45	479	178	188	105	13	7.4	122	42	198
28	52	22	41	1,070	131	270	77	13	6.6	101	34	188
29	48	21	39	915	-	238	59	13	6.4	168	45	140
30	48	22	39	647	-	168	105	12.7	7.6	270	140	270
31	48	-	39	431	-	259	-	11.8	-	228	198	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	8,498	1,600	15	274	1.32	1.52
November	977	52	21	32.6	.157	.18
December	2,180	228	25	70.3	.340	.39
Calendar year 1936	39,063.5	1,600	9.6	107	.517	7.03
January	4,571	1,070	27	147	.710	.82
February	9,983	1,510	85	357	1.72	1.79
March	2,463	270	26	79.5	.384	.44
April	6,558	695	33	219	1.06	1.18
May	1,737.5	188	11.8	56.0	.271	.31
June	427.6	48	6.4	14.3	.069	.08
July	1,772.5	270	5.8	57.2	.276	.32
August	3,294	198	34	106	.512	.59
September	6,867	1,160	41	229	1.11	1.24
Water year 1936-37	49,328	1,600	5.8	135	.652	8.86

Lake Okeechobee at St. Lucie Canal, Fla.

Location.- Staff gage, lat. 26°59', long. 80°37', in sec. 22, T. 40 S., R. 37 E., on east shore of Lake Okeechobee, at entrance to St. Lucie Canal, 8 miles north of Canal Point. Zero of gage is at mean sea level, Punta Rassa datum.

Records available.- October 1931 to September 1937 in reports of Geological Survey; 1915 to 1931 in reports or in files of Everglades Drainage District.

Extremes.- Maximum stage observed during year, 16.85 feet Apr. 7; minimum, 15.10 feet Sept. 23.
1931-37: Maximum stage observed, 21.5 feet, Punta Rassa datum, Sept. 4, 1933; minimum stage observed, 11.7 feet, Punta Rassa datum, May 17, 1932.

Remarks.- Abrupt changes in stage frequently caused by wind. Gage-height record furnished by Okeechobee Flood Control District. Gage read once daily.

Elevation, in feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.05	15.70	15.95	15.90	16.15	16.00	15.90	16.20	15.75	16.00	15.95	15.50
2	16.10	15.70	15.90	15.95	16.00	15.90	15.95	16.20	15.80	16.15	15.95	15.50
3	16.05	15.75	15.90	15.95	16.05	15.90	15.95	16.30	15.80	16.10	15.90	15.50
4	16.10	15.65	15.90	15.95	16.00	15.85	15.90	16.30	15.85	16.10	15.95	15.55
5	16.05	15.70	15.90	15.90	16.10	15.95	16.10	16.30	15.75	16.10	15.95	15.55
6	16.00	15.70	15.90	15.90	16.10	15.95	16.20	16.30	15.70	16.10	15.95	15.55
7	15.90	15.80	15.95	15.85	16.00	15.95	16.85	16.30	15.75	16.10	15.85	15.50
8	16.00	15.85	15.90	15.85	16.00	15.95	16.40	16.25	15.70	16.05	15.85	15.50
9	16.00	15.85	15.90	15.80	15.95	15.95	16.50	16.30	15.75	16.00	15.90	15.55
10	16.05	15.95	15.95	15.90	16.00	16.00	16.35	16.20	15.70	16.05	15.85	15.45
11	16.20	15.95	15.90	15.90	16.20	15.90	16.35	16.20	15.75	16.05	15.80	15.45
12	16.05	16.00	15.95	15.90	15.75	15.95	16.25	16.10	15.70	16.05	15.75	15.45
13	16.05	16.05	16.00	15.90	16.00	15.75	16.25	16.05	15.80	16.10	15.70	15.50
14	16.05	16.10	15.90	15.90	16.20	15.75	16.25	16.10	15.70	16.10	15.80	15.45
15	16.05	16.00	15.90	15.85	16.10	15.75	16.30	16.20	15.70	16.00	15.74	15.45
16	16.10	15.95	15.90	15.95	16.20	15.90	16.40	16.15	15.70	16.00	15.80	15.40
17	16.10	15.95	16.05	15.95	16.00	15.80	16.25	16.15	15.60	15.90	15.70	15.40
18	16.05	15.95	16.00	15.90	16.05	15.80	16.30	16.10	15.60	15.95	15.70	15.40
19	16.00	15.90	15.90	15.90	16.00	15.80	16.30	16.10	15.65	15.95	15.65	15.40
20	15.90	16.00	16.00	15.85	16.00	15.80	16.28	16.10	15.70	15.90	15.60	15.40
21	15.90	16.00	15.90	15.85	16.20	15.75	16.30	16.00	15.70	15.90	15.56	15.40
22	15.95	15.90	15.90	15.85	16.10	15.70	16.35	16.00	15.75	15.90	15.50	15.40
23	15.95	15.90	15.90	15.85	16.00	15.70	16.30	16.00	15.80	15.80	15.55	15.10
24	15.95	15.95	15.75	15.85	16.00	15.75	16.30	16.00	15.65	15.80	15.60	15.15
25	15.95	16.00	15.90	15.85	16.05	15.90	16.30	15.95	15.50	15.70	15.60	15.25
26	16.00	15.90	15.90	15.85	15.90	15.80	16.20	15.90	15.60	15.85	15.55	15.30
27	15.95	15.95	15.95	15.90	15.95	16.00	16.20	15.80	15.65	15.85	15.50	15.30
28	15.95	15.95	16.00	16.15	16.20	15.90	16.15	15.90	15.70	15.90	15.50	15.25
29	15.90	15.95	15.95	16.20	-	15.90	16.15	15.90	15.65	15.90	15.50	15.35
30	15.80	15.90	15.95	16.00	-	15.60	16.15	15.85	15.65	16.00	15.50	15.50
31	15.70	-	15.95	16.00	-	16.10	-	15.70	-	15.90	15.50	-

Kissimmee River below Lake Kissimmee, Fla.

Location.- Water-stage recorder, lat. 27°46', long. 81°11', in sec. 24, T. 31 S., R. 31 E., 3 miles below Vero Bridge on State Highway 30 and 3 miles below Lake Kissimmee. Zero of gage is 1.14 feet below mean sea level (unadjusted). Auxiliary staff gage at highway bridge.

Drainage area.- 1,850 square miles.

Records available.- October 1933 to September 1937. January 1930 to September 1933, at highway bridge (gage heights only).

Extremes.- Maximum discharge during year, 1,590 second-feet Oct. 16-19, 28; maximum gage height, 53.41 feet Oct. 17; minimum daily discharge, 486 second-feet Aug. 11; minimum gage height, 49.53 feet Aug. 9.
1933-37: Maximum discharge, 7,150 second-feet June 24, 1934 (gage height, 56.26 feet); no flow Sept. 3, 4, 1935 owing to hurricane blowing upstream.

Remarks.- Records good. Recorder not operating May 5-25; gage heights obtained from gage at bridge. Gage-height record at bridge and 13 discharge measurements furnished by Okeechobee Flood Control District.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

49.5	460	52.0	970
50.0	525	52.5	1,160
50.5	596	53.0	1,370
51.0	691	53.5	1,650
51.5	810		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,370	1,420	1,120	900	760	810	691	760	650	538	512	580
2	1,370	1,420	1,120	900	785	810	691	760	650	551	512	580
3	1,420	1,370	1,120	900	760	785	691	760	631	565	512	596
4	1,420	1,370	1,120	900	713	760	713	760	613	565	512	613
5	1,420	1,370	1,120	900	760	760	713	760	613	551	499	631
6	1,420	1,370	1,080	870	736	760	736	760	613	551	499	650
7	1,370	1,370	1,080	870	713	760	785	760	631	565	499	631
8	1,370	1,370	1,080	870	691	760	760	760	613	580	499	650
9	1,370	1,370	1,080	840	691	760	810	760	613	580	499	650
10	1,420	1,370	1,080	870	736	760	810	760	613	565	499	650
11	1,420	1,370	1,040	840	810	760	810	736	613	565	486	631
12	1,470	1,320	1,040	840	765	760	810	736	613	565	499	631
13	1,470	1,370	1,040	840	760	736	785	736	613	565	499	650
14	1,530	1,370	1,040	840	785	736	785	785	613	551	499	650
15	1,530	1,370	1,000	840	785	736	785	785	613	551	512	631
16	1,590	1,370	1,040	840	785	760	785	785	596	551	512	631
17	1,590	1,320	1,040	810	785	736	785	785	580	538	512	631
18	1,590	1,280	1,000	765	785	713	785	760	580	538	512	650
19	1,590	1,280	970	785	760	713	760	736	580	538	499	631
20	1,530	1,280	1,040	785	760	691	760	736	580	538	499	631
21	1,530	1,240	1,000	785	760	713	736	713	580	525	512	631
22	1,530	1,280	1,000	785	760	691	760	713	580	525	538	650
23	1,530	1,240	970	760	760	691	760	691	580	525	538	650
24	1,530	1,200	970	760	760	691	785	691	580	525	538	650
25	1,530	1,200	970	760	760	691	785	691	580	525	538	650
26	1,530	1,200	970	760	785	691	810	691	565	525	538	650
27	1,530	1,200	935	760	760	713	785	691	565	512	538	650
28	1,590	1,200	935	785	785	713	760	670	565	512	538	650
29	1,530	1,160	935	785	-	691	760	670	551	499	551	650
30	1,530	1,160	935	760	-	670	785	670	525	499	551	670
31	1,470	-	935	760	-	736	-	670	-	512	565	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	46,090	1,590	1,370	1,487	0.804	0.93
November	39,210	1,420	1,160	1,307	.706	.79
December	31,805	1,120	935	1,026	.555	.64
Calendar year 1936	438,921	1,860	613	1,199	.648	8.83
January	25,485	900	760	822	.444	.51
February	21,275	810	691	760	.411	.43
March	22,757	810	670	734	.397	.46
April	22,976	810	691	766	.414	.46
May	22,741	785	670	734	.397	.46
June	17,892	650	525	596	.322	.36
July	16,795	580	499	542	.293	.34
August	16,016	565	486	517	.279	.32
September	19,099	670	580	637	.344	.38
Water year 1936-37	302,141	1,590	486	828	.448	6.08

Kissimmee River near Okeechobee, Fla.

Location.- Staff gage, lat. 27°14', long. 80°59', in sec. 24, T. 37 S., R. 33 E., at bridge on State Highway 8, about 10 miles west of Okeechobee. Zero of gage is at mean sea level, Okeechobee Flood Control District datum, and 1.33 feet below mean sea level, U. S. Coast and Geodetic Survey datum.

Drainage area.- 3,260 square miles.

Records available.- October 1930 to September 1937.

Extremes.- Maximum discharge observed during year, 2,560 second-feet Oct. 23 (gage height, 25.26 feet); minimum observed, 930 second-feet June 6, July 24, 25, Aug. 12-21; minimum gage height observed, 21.30 feet Aug. 19.

1930-37: Maximum discharge, 15,600 second-feet Sept. 9, 1933 (gage height, 29.33 feet, from graph based on gage readings); minimum observed, 231 second-feet May 18, 1932; minimum gage height observed, 17.78 feet June 18, 1935.

Flood of August 1928, resulting from hurricane, reached a peak stage of 30.3 feet (discharge, 20,000 second-feet, from rating curve extended above 14,000 second-feet).

Remarks.- Records good except those for September, which are fair. Gage-height record and results of 13 discharge measurements furnished by Okeechobee Flood Control District. Gage read twice daily.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,230	2,330	1,830	1,610	1,360	1,300	1,300	1,160	986	986	964	1,050
2	2,230	2,330	1,830	1,610	1,360	1,300	1,300	1,160	964	986	986	1,030
3	2,140	2,230	1,830	1,610	1,330	1,300	1,300	1,160	942	1,010	986	1,030
4	2,140	2,230	1,770	1,610	1,330	1,300	1,300	1,140	942	1,030	986	1,050
5	2,140	2,230	1,770	1,570	1,360	1,300	1,330	1,140	942	1,030	986	1,070
6	2,140	2,230	1,770	1,570	1,360	1,300	1,390	1,140	920	1,030	964	1,070
7	2,140	2,230	1,770	1,570	1,360	1,300	1,450	1,120	942	1,030	964	1,070
8	2,140	2,230	1,770	1,570	1,330	1,280	1,490	1,120	964	1,050	942	1,050
9	2,140	2,230	1,770	1,530	1,330	1,280	1,570	1,120	964	1,050	942	1,050
10	2,140	2,140	1,770	1,530	1,330	1,280	1,660	1,100	964	1,030	942	1,050
11	2,140	2,230	1,770	1,490	1,330	1,280	1,660	1,100	986	1,030	942	1,050
12	2,230	2,230	1,770	1,490	1,330	1,280	1,710	1,100	986	1,030	920	1,030
13	2,230	2,330	1,770	1,490	1,360	1,280	1,660	1,100	986	1,030	920	1,030
14	2,230	2,330	1,770	1,450	1,360	1,250	1,570	1,100	986	1,030	920	1,030
15	2,230	2,230	1,770	1,450	1,360	1,250	1,530	1,100	986	1,030	920	1,010
16	2,330	2,230	1,770	1,450	1,360	1,250	1,490	1,100	986	1,030	920	1,010
17	2,330	2,230	1,770	1,450	1,360	1,230	1,450	1,070	964	1,030	920	1,010
18	2,330	2,140	1,770	1,420	1,360	1,230	1,420	1,070	986	1,010	920	986
19	2,330	2,140	1,770	1,420	1,360	1,230	1,390	1,070	1,010	1,010	920	1,030
20	2,440	2,060	1,770	1,420	1,360	1,210	1,360	1,070	1,010	986	920	1,010
21	2,440	2,060	1,770	1,420	1,360	1,210	1,330	1,050	1,030	964	920	986
22	2,440	2,060	1,710	1,390	1,360	1,210	1,300	1,050	1,030	964	942	986
23	2,440	1,980	1,710	1,390	1,360	1,250	1,300	1,050	1,030	942	942	986
24	2,440	1,980	1,710	1,360	1,330	1,300	1,280	1,050	1,030	920	964	1,010
25	2,440	1,900	1,710	1,360	1,330	1,280	1,250	1,030	1,010	920	942	1,030
26	2,440	1,900	1,710	1,360	1,330	1,250	1,250	1,030	986	986	942	1,050
27	2,440	1,900	1,660	1,360	1,300	1,250	1,230	1,030	986	1,010	986	1,100
28	2,440	1,980	1,660	1,360	1,330	1,230	1,210	1,010	964	1,010	1,010	1,120
29	2,440	1,900	1,660	1,360	-	1,230	1,210	1,010	942	1,010	1,050	1,160
30	2,440	1,830	1,660	1,360	-	1,250	1,180	986	964	986	1,050	1,210
31	2,440	-	1,660	1,360	-	1,300	-	986	-	986	1,050	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	71,240	2,440	2,140	2,298	0.705	0.81
November	64,050	2,330	1,830	2,135	.655	.73
December	54,200	1,830	1,660	1,748	.536	.62
Calendar year 1936	709,380	3,270	1,180	1,938	.594	8.10
January	45,390	1,610	1,360	1,464	.449	.52
February	37,690	1,360	1,300	1,346	.413	.43
March	39,190	1,300	1,210	1,264	.388	.45
April	41,870	1,710	1,180	1,396	.428	.48
May	33,522	1,160	986	1,081	.332	.38
June	29,388	1,030	920	980	.301	.34
July	31,146	1,050	920	1,005	.308	.36
August	29,682	1,050	920	957	.294	.34
September	31,354	1,210	986	1,045	.321	.36
Water year 1936-37	508,744	2,440	920	1,394	.428	5.82

Istokpoga Canal near Cornwell, Fla.

Location.- Water-stage recorder, lat. 27°24', long. 81°09', in sec. 30, T. 35 S., R. 32 E., at highway bridge, a quarter of a mile east of Seaborad Air Line Railway bridge, 1½ miles upstream from junction with Kissimmee River, and 3 miles northwest of Cornwell. Zero of gage is 29.71 feet above mean sea level.

Drainage area.- 660 square miles.

Records available.- March 1934 to September 1937.

Extremes.- Maximum discharge during year, 885 second-feet Oct. 21 (gage height, 6.60 feet); minimum, 241 second-feet June 4-6; minimum gage height, 4.61 feet Aug. 25.
1934-37: Maximum discharge, 899 second-feet Mar. 17, 18, 1936; maximum gage height 8.59 feet June 21, 1934; minimum discharge, 18 second-feet June 4, 1935 (gage height, 2.56 feet).
Maximum stage known, 10.1 feet in September 1933 (discharge not determined).

Remarks.- Records good except those for June to August, which are fair. Results of 13 discharge measurements furnished by Okeechobee Flood Control District.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	719	764	596	491	379	392	392	368	256	315	306	296
2	719	764	596	476	368	379	392	356	248	346	306	296
3	742	742	596	476	368	379	379	356	248	368	306	306
4	742	742	578	460	368	379	379	356	241	356	315	315
5	764	742	578	460	379	379	404	356	241	346	315	325
6	788	742	578	446	368	379	446	346	241	335	306	325
7	788	742	578	446	368	379	431	346	248	325	306	315
8	788	742	578	446	368	379	431	346	248	325	296	315
9	788	742	578	446	368	379	431	346	248	325	296	315
10	788	742	559	431	379	379	431	335	248	315	296	306
11	788	742	578	431	392	379	418	335	256	315	296	306
12	811	719	578	431	404	379	418	325	279	315	306	306
13	811	742	578	431	404	379	418	325	279	306	306	306
14	811	719	578	431	418	392	418	325	288	306	306	306
15	836	719	578	431	418	392	404	325	296	296	306	306
16	836	719	578	431	418	392	418	325	296	288	306	296
17	860	698	559	431	418	392	418	315	306	288	296	296
18	860	676	559	418	418	392	404	315	306	288	306	296
19	860	676	559	418	418	379	404	306	315	279	296	288
20	860	676	559	418	418	379	404	306	335	279	296	288
21	860	656	542	404	418	379	404	296	346	279	296	288
22	860	656	542	404	418	379	404	296	346	279	296	288
23	860	635	542	404	418	392	404	288	356	279	296	288
24	860	635	524	392	404	392	404	288	346	279	296	288
25	836	635	524	392	404	392	404	279	346	279	296	288
26	836	616	524	392	392	379	392	279	335	296	296	288
27	836	616	524	392	379	379	392	271	335	306	306	296
28	811	616	508	392	392	379	379	271	325	306	296	296
29	811	616	508	392	-	368	368	263	315	315	296	296
30	788	596	508	392	-	368	368	263	315	315	296	315
31	788	-	491	379	-	404	-	256	-	315	296	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	25,105	860	719	810	1.23	1.42
November	20,827	764	596	694	1.05	1.17
December	17,256	596	491	557	.844	.97
Calendar year 1936	225,292	899	369	616	.933	12.66
January	13,184	491	379	425	.644	.74
February	11,064	418	368	395	.598	.62
March	11,869	404	368	383	.580	.67
April	12,159	446	368	405	.614	.68
May	9,763	368	256	315	.477	.55
June	8,788	356	241	293	.444	.50
July	9,564	368	279	309	.468	.54
August	9,334	315	296	301	.456	.53
September	9,039	325	288	301	.456	.51
Water year 1936-37	157,952	860	241	433	.656	8.90

St. Lucie Canal at Lock 1, at Lake Okeechobee, Fla.

Location.- Slope station, lat. 26°59', long. 80°36'; upper gage is water-stage recorder at Florida East Coast Railway Co. bridge in sec. 23, T. 40 S., R. 37 E., two-thirds of a mile below Lock 1, at Lake Okeechobee; lower gage is water-stage recorder at highway bridge in sec. 4, T. 40 S., R. 39 E., 1½ miles east of Indiantown, 11 miles below Lock 1, and 14 miles above Lock 2. Zero of gage is at mean sea level, Punta Rassa datum.

Records available.- April 1931 to September 1937.

Extremes.- Maximum daily discharge during year, 4,660 second-feet Oct. 11; minimum daily, 20 second-feet (estimated leakage through Lock 1) Jan. 28, Apr. 26, and June 22.
1931-37: Maximum daily discharge, 5,020 second-feet Mar. 17, 1936; minimum daily, 20-50 second-feet (estimated leakage and small spillage), at times in each year.

Remarks.- Records good above 3,000 second-feet, fair between 1,000 and 3,000 second-feet, and poor below 1,000 second-feet. Results of 13 discharge measurements furnished by Okeechobee Flood Control District. Discharge determined graphically by use of three-dimensional diagram of discharge and stages of each end of reach. This diagram is defined by numerous discharge measurements.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,580	4,410	150	290	935	465	440	75	105	40	*45	†1,880
2	4,540	4,410	55	100	690	675	150	1,210	100	950	*1,760	†385
3	4,480	4,400	75	25	680	1,060	150	1,150	85	1,240	*3,110	†1,410
4	4,460	4,410	135	90	295	145	200	250	105	1,410	*3,080	†3,000
5	*4,480	4,360	215	170	420	60	165	80	200	1,440	*3,000	†3,260
6	*4,540	4,280	210	155	775	65	105	90	155	1,490	*2,320	†3,180
7	*4,560	3,360	105	445	1,060	50	70	615	120	1,500	*2,410	3,160
8	4,570	3,000	145	195	765	25	45	975	125	1,780	*270	3,160
9	4,580	1,940	105	100	1,750	100	460	1,010	110	1,320	*360	3,190
10	4,610	880	135	100	1,440	180	255	260	100	745	*285	3,140
11	4,660	1,470	35	95	315	95	240	305	60	500	*1,040	3,180
12	4,590	1,740	25	70	775	155	210	310	100	645	2,580	†3,240
13	4,600	650	65	85	125	170	1,780	210	780	1,260	3,300	†3,190
14	4,540	140	100	130	40	140	2,300	175	1,600	1,770	3,100	†2,400
15	4,480	105	45	100	395	25	2,400	210	1,140	1,760	1,880	†1,540
16	4,630	150	40	95	530	60	2,400	290	735	1,740	765	†3,050
17	4,630	205	70	90	1,130	110	200	390	1,195	1,740	1,260	†3,470
18	4,600	195	70	70	955	70	25	370	170	1,740	2,580	†3,110
19	4,560	200	40	75	160	760	65	165	120	1,700	2,940	†2,940
20	4,480	580	95	70	285	1,400	1,300	95	105	1,680	2,900	†2,970
21	4,560	105	95	50	190	1,700	495	260	50	1,280	2,860	2,940
22	4,560	130	110	75	150	1,740	235	185	20	170	2,870	2,870
23	4,540	170	130	70	150	460	1,200	260	50	240	2,850	2,820
24	4,520	75	340	80	85	110	1,160	255	185	125	1,300	2,820
25	4,500	55	245	25	75	660	50	310	155	*300	300	2,860
26	4,570	135	640	30	130	1,600	20	345	150	*50	1,150	†2,880
27	4,550	105	870	40	520	460	70	255	40	*170	2,590	†2,910
28	4,580	145	970	20	315	115	105	180	40	*80	3,000	†2,160
29	4,540	180	1,700	850	-	150	70	145	40	*95	†3,210	†995
30	4,490	180	755	1,760	-	870	25	165	50	*610	†3,410	†145
31	4,410	-	60	1,790	-	475	-	335	-	*195	†3,360	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	140,990	4,660	4,410	4,548		
November	42,165	4,410	55	1,406		
December	7,830	1,700	25	253		
Calendar year 1936	1,135,765	5,020	25	3,103		
January	7,340	1,790	20	237		
February	15,135	1,750	40	541		
March	14,150	1,740	25	456		
April	16,390	2,400	20	546		
May	10,930	1,210	75	353		
June	7,990	1,600	20	266		
July	29,765	1,780	40	960		
August	65,885	3,410	45	2,125		
September	78,255	3,470	145	2,608		
Water year 1936-37	436,825	4,660	20	1,197		

*Upper recorder inoperative. Stage record obtained from graph based on Lock 1 readings and comparison with lower recorder record.
†Lower recorder inoperative. Gage height graph drawn from range in stage indicated by recorder and by comparison with upper recorder record.

Fisheating Creek at Palmdale, Fla.

Location.- Staff gage, lat. 26°56', long. 81°19', in sec. 3, T. 41 S., R. 30 E., at highway bridge, 1 mile south of Palmdale. Zero of gage is 27.19 feet above mean sea level.

Drainage area.- 305 square miles.

Records available.- April 1931 to September 1937.

Extremes.- Maximum discharge observed during year, 3,010 second-feet July 1 (gage height, 6.98 feet); minimum observed, 0.6 second-foot June 9; minimum gage height observed, 1.60 feet June 7, 9, 10.
1931-37: Maximum discharge, 6,460 second-feet Sept. 6, 1933 (gage height, 8.60 feet); no flow at times in each year.

Remarks.- Records rated poor because of shifting control, although probably fair much of the time. Gage read twice daily Oct. 1 to Feb. 9; once daily thereafter except on Oct. 2, when gage was not read and mean gage height taken from graph based on readings for Oct. 1, 3. Gage-height record and 14 measurements furnished by Okeechobee Flood Control District.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	540	220	86	32	39	49	46	7.9	2.7	3,010	625	465
2	780	202	86	30	32	44	44	6.8	2.5	2,570	540	1,230
3	930	185	80	30	28	39	49	19	2.4	2,240	465	1,230
4	855	158	77	28	26	36	59	24	2.4	1,930	398	930
5	780	150	74	26	28	34	80	22	2.1	1,630	285	855
6	930	150	68	24	28	34	220	20	1.2	1,330	220	725
7	930	142	62	23	26	32	220	28	.7	930	185	625
8	930	142	56	21	26	28	202	56	.8	725	142	1,130
9	930	142	52	19	28	25	285	74	.6	580	125	1,130
10	930	136	46	18	30	21	398	94	.7	540	116	855
11	1,030	136	44	15	46	17	365	104	1.2	365	104	625
12	1,330	130	36	13	49	13	310	100	1.2	310	97	540
13	1,230	130	36	12	54	9.8	260	94	1.4	240	97	500
14	1,230	130	36	10	52	8.2	220	83	3.4	398	94	430
15	1,030	130	39	9.0	52	7.2	185	71	4.8	338	90	365
16	930	125	44	7.7	54	6.4	150	59	4.8	285	90	338
17	780	120	46	7.2	65	5.9	136	44	4.8	260	100	365
18	725	120	46	6.7	71	5.6	112	34	5.3	220	112	285
19	670	116	46	6.4	80	5.2	97	23	7.7	172	116	260
20	625	112	49	6.3	80	4.8	80	14	39	136	112	310
21	580	108	49	6.0	83	4.5	62	8.5	49	112	94	260
22	500	108	46	5.7	83	4.1	56	6.7	46	112	97	240
23	465	108	46	5.4	77	4.7	44	5.6	65	338	94	220
24	430	112	44	5.3	71	4.4	36	4.8	100	365	90	240
25	365	112	44	5.2	68	4.1	30	4.1	94	398	94	285
26	338	108	42	5.0	59	4.0	25	3.6	77	430	150	260
27	310	104	39	4.9	54	4.3	20	3.0	59	398	125	285
28	310	100	39	94	49	4.4	16	2.6	54	310	185	310
29	285	97	36	80	-	4.3	14	1.9	52	240	185	338
30	260	94	34	62	-	5.1	10	1.8	202	260	185	338
31	240	-	34	52	-	44	-	2.4	-	670	240	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	22,198	1,330	240	716	2.35	2.71
November	3,927	220	94	131	.430	.48
December	1,562	86	34	50.4	.165	.19
Calendar year 1936	133,539.5	5,800	0	365	1.20	16.28
January	669.8	94	4.9	21.6	.071	.08
February	1,438	83	26	51.4	.169	.18
March	513.0	49	4.0	16.5	.054	.06
April	383.1	398	10	12.8	.042	.05
May	1,022.7	104	1.8	33.0	.108	.12
June	887.7	202	.6	29.6	.097	.11
July	21,842	3,010	112	705	2.31	2.66
August	5,652	625	90	182	.597	.69
September	15,969	1,230	220	532	1.74	1.94
Water year 1936-37	76,064.3	3,010	.6	208	.682	9.27

Twelvemile Creek near Fort Myers, Fla.

Location.- Staff gage, lat. 26°40', long. 81°43', in sec. 5, T. 44 S., R. 26 E., about 1½ miles southeast of Buckingham and 8 miles northeast of Fort Myers. Zero of gage is 1.71 feet above mean sea level.

Drainage area.- 83.4 square miles.

Records available.- November 1935 to September 1937.

Extremes.- 1936: Maximum discharge during period November 1935 to September 1937, 5,300 second-feet June 15 (gage height, 13.40 feet, from high-water mark); minimum, 0.01 second-foot several days in April and May.
1937: Maximum discharge observed during year, 850 second-feet July 3 (gage height, 7.70 feet); minimum, 0.01 second-foot Dec. 7, 8 (gage height, 0.30 foot).

Remarks.- Records prior to November 1936 and those below 5 second-feet are poor; those after November 1936 and above 5 second-feet are fair. Gage read once daily except during periods of high water after April 1937, when it was read twice daily.

Rating table, November 1935 to September 1937 (gage height, in feet, and discharge, in second-feet.

0.5	0.1	3.0	53	6.0	510	11.0	1,660
1.0	7.0	3.5	80	7.0	710	12.0	2,500
1.5	17	4.0	135	8.0	910	13.0	4,500
2.0	28	4.5	210	9.0	1,160	13.5	5,500
2.5	39	5.0	310	10.0	1,410		

Discharge, in second-feet, 1935-37

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	*2.8	*16			-	*590	*32	11
2				-	*2.2	11			-	*410	17	10
3				-	*1.9	6.8			-	250	15	9.4
4				-	1.7	6.2			-	*80	13	6.7
5				-	1.7	5.3			-	46	15	39
6				-	1.9	4.6			-	39	*28	135
7				-	3.3	3.3			-	35	53	74
8				-	*5.3	2.9			-	34	53	43
9				-	63	16			-	39	45	37
10				-	*200	16			-	*670	38	31
11				0.5	*100	14			-	*450	32	30
12				6.3	63	11			-	*310	26	30
13				6.3	*150	8.8			28	*210	22	34
14				5.6	*100	8.6			590	850	20	84
15				2.6	63	10			3,300	370	22	35
16				2.2	*49	9.0			4,900	310	21	30
17				1.7	*46	6.0			2,700	195	21	21
18				.9	*43	5.0			1,510	*126	21	38
19				.9	*41	*4.4			1,160	58	19	29
20				3.3	*39	*3.9			935	*45	29	21
21				3.3	*37	*3.4			810	32	56	17
22				3.3	46	2.9			*710	24	165	17
23				16	80	2.2			*610	19	*136	15
24				16	58	1.7			*510	13	107	13
25				13	40	1.2			830	13	*76	12
26				11	24	.7			1,180	17	46	12
27				8.2	24	.5			935	26	24	15
28				4.3	22	.2			790	34	19	17
29				*3.9	*19	.1			*710	96	13	15
30				*3.6	-	.1			*790	165	17	14
31				*3.3	-	.1			-	*63	13	-

*Discharge interpolated or estimated on basis of gage readings and weather records.
Note.- Discharge less than 0.1 second-foot on days for which no discharge is given.

Discharge, in second-feet, of Twelvemile Creek near Fort Myers, Fla., 1935-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	1.7					28	-	-	390	63	590
2	32	.7					21	-	-	830	87	470
3	35	.6					11	-	-	850	107	350
4	28	.5					6.7	0.9	-	590	60	410
5	19	19					.1	38	-	410	43	202
6	15	7.8					28	80	-	135	38	195
7	15	3.6					43	120	-	120	32	158
8	18	1.4					43	87	-	92	51	92
9	22	.3					46	51	-	63	46	71
10	*49	.3					39	53	-	74	51	51
11	107	.3					46	53	9.0	68	63	39
12	120	1.4					21	30	7.4	43	96	40
13	135	20					15	*22	5.6	35	142	41
14	150	*8.0					10	18	5.3	30	158	36
15	180	1.3					*7.0	*10	3.3	26	102	31
16	*165	.5					*5.3	3.3	2.6	21	790	38
17	*80	.1					3.6	2.6	2.2	17	810	36
18	68	-					1.4	1.7	1.9	11	710	25
19	63	-					.4	1.2	1.7	7.0	470	22
20	49	-					.1	.6	8.2	6.2	470	18
21	36	-					-	.1	*19	5.3	390	15
22	24	-					-	-	*30	3.6	240	12
23	24	-					-	-	*80	1.9	172	11
24	19	-					10	-	390	.7	92	10
25	17	-					21	-	610	.7	63	9.4
26	13	-					1.7	-	410	45	77	14
27	11	-					.3	-	180	172	102	11
28	7.4	-					.2	-	43	84	142	10
29	5.6	-					.1	-	39	87	107	9.0
30	1.9	-					-	-	68	92	107	5.5
31	.9	-				37	-	-	-	77	250	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November 13-30, 1935	0.90	-	-	0.05	0.00060	0.0004
December	1.55	-	-	.05	.00060	.0007
Calendar year						
January 1936	116.7	16	-	3.76	.045	.05
February	1,327.8	200	1.7	45.8	.549	.59
March	181.9	16	.1	5.87	.070	.08
April	1.20	-	.01	.04	.00048	.0005
May	.62	-	.01	.02	.00024	.0003
June	22,998.36	4,900	-	767	9.20	10.26
July	5,619	850	13	181	2.17	2.50
August	1,214	165	13	39.2	.470	.54
September	895.1	135	6.7	29.8	.357	.40
Water year						
October 1936	1,544.8	180	.9	49.8	.597	.69
November	67.96	20	-	2.27	.027	.03
December	1.36	-	-	.044	.00053	.0006
Calendar year 1936	33,968.80	4,900	.01	92.8	1.11	15.14
January 1937	.68	-	-	.022	.00026	.0003
February	.80	-	-	.029	.00035	.0004
March	37.72	37	-	1.22	.015	.02
April	409.12	46	-	13.6	.163	.18
May	572.88	120	-	18.5	.222	.26
June	1,916.41	610	-	63.9	.766	.85
July	4,487.4	850	.7	145	1.74	2.01
August	6,131	810	32	198	2.37	2.73
September	3,021.9	590	5.5	101	1.21	1.35
Water year 1936-37	18,192.06	850	.01	49.8	.597	8.12

*Discharge interpolated or estimated on basis of gage readings and weather records.

Note.- Discharge less than 0.1 second-foot on days for which no discharge is given.

107571 O—38——12

Peace Creek at Zolfo Springs, Fla.

Location.- Water-stage recorder, lat. 27°30', long. 81°48', in sec. 22, T. 34 S., R. 25 E., at bridge on U. S. Highway 17, 0.8 mile north of Zolfo Springs.

Drainage area.- 785 square miles.

Records available.- September 1933 to September 1937.

Extremes.- Maximum discharge during year, 3,440 second-feet July 3 (gage height, 9.89 feet); minimum, 135 second-feet Jan. 27 (gage height, 0.71 foot).
1933-37: Maximum discharge, 26,300 second-feet Sept. 6, 1933 (gage height, 20.05 feet); minimum, 67 second-feet Apr. 18-21, 1935; minimum gage height, 0.55 foot June 5, 1935.

Remarks.- Records excellent except those for July 26 to Aug. 5, which were computed on basis of record for station at Arcadia and from graph based on several daily gage readings and are good.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-11)

0.7	133	5.0	1,150
1.0	163	6.0	1,520
1.5	273	7.0	1,960
2.0	374	8.0	2,440
2.5	485	9.0	2,950
3.0	601	10.0	3,500
4.0	856		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	912	312	190	209	200	884	1,780	542	216	2,650	996	1,400
2	884	292	193	205	183	828	1,290	516	205	2,900	912	1,400
3	1,060	282	195	204	168	697	1,030	1,420	193	3,340	856	1,260
4	1,150	264	193	202	175	625	1,880	1,290	186	3,060	800	1,120
5	940	254	193	197	347	577	2,290	1,030	186	2,360	746	1,400
6	856	254	190	186	307	531	3,000	968	183	1,630	697	1,220
7	772	282	186	183	245	474	3,390	1,150	197	1,150	673	940
8	697	282	161	180	213	417	3,220	940	222	968	625	772
9	649	273	173	174	192	374	2,790	800	229	800	554	697
10	746	264	169	174	432	353	2,640	673	232	673	566	697
11	1,160	254	171	173	1,060	322	2,440	589	234	566	673	649
12	2,360	297	171	168	996	302	1,960	520	498	508	721	577
13	2,690	536	173	169	772	282	1,520	493	1,100	589	828	542
14	2,260	406	180	169	697	264	1,160	1,470	538	554	856	496
15	1,780	364	232	163	649	254	996	1,960	374	439	828	439
16	1,520	332	282	158	577	236	856	1,400	292	417	856	395
17	1,260	302	264	149	508	231	746	968	291	428	940	374
18	1,030	282	236	147	439	223	649	772	508	428	856	364
19	884	273	227	151	384	216	589	649	417	428	772	364
20	746	254	231	149	353	211	520	531	491	395	673	353
21	697	236	225	144	353	204	474	450	746	364	601	342
22	649	227	218	141	520	195	428	395	542	332	589	342
23	577	220	214	143	542	186	395	342	589	312	554	417
24	531	209	214	141	485	192	543	322	625	302	531	364
25	485	205	214	141	462	211	884	312	496	322	508	322
26	439	204	223	141	462	200	656	302	384	450	508	332
27	406	198	232	143	439	206	828	282	322	554	508	384
28	384	193	231	206	578	273	746	264	282	649	508	312
29	364	192	227	273	-	282	697	254	264	828	485	282
30	353	193	218	245	-	378	625	236	450	1,220	491	322
31	322	-	213	216	-	1,650	-	231	-	1,290	1,260	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	29,563	2,690	322	954	1.22	1.41
November	8,136	536	192	271	.345	.38
December	6,459	282	169	208	.265	.31
Calendar year 1936	279,660	4,680	148	764	.973	13.26
January	5,444	273	141	176	.224	.26
February	12,738	1,060	168	455	.580	.60
March	12,278	1,650	186	396	.504	.58
April	41,242	3,390	395	1,375	1.75	1.95
May	22,071	1,960	231	712	.907	1.05
June	11,492	1,100	183	383	.488	.54
July	30,906	3,340	302	997	1.27	1.46
August	21,971	1,260	485	709	.903	1.04
September	18,878	1,400	282	629	.801	.89
Water year 1936-37	221,178	3,390	141	606	.772	10.47

Peace Creek at Arcadia, Fla.

Location.- Water-stage recorder, lat. 81°52', long. 27°12', in sec. 26, T. 37 S., R. 24 E., at bridge on State Highway 18, half a mile west of Arcadia. Zero of gage is 8.25 feet above mean sea level.

Drainage area.- 1,330 square miles.

Records available.- April 1931 to September 1937.

Extremes.- Maximum discharge during year, 5,130 second-feet Apr. 9, (gage height, 9.20 feet); minimum, 146 second-feet Jan. 26, 27 (gage height, 0.20 foot).
1931-37: Maximum discharge, 36,200 second-feet Sept. 9, 1933 (gage height, 17.67 feet); minimum, 56 second-feet May 13-17, 1932; minimum gage height, -0.21 foot Mar. 31, 1935.
Maximum stage known, 18.3 feet in 1912, from information furnished by county engineer, (discharge, 43,000 second-feet, from rating curve extended above 30,000 second-feet).

Remarks.- Records excellent except those for September, which are good.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Aug. 1-31 and Sept. 9-30)

0.2	146	5.0	1,990
0.5	206	6.0	2,510
1.0	333	7.0	3,040
1.5	500	8.0	3,720
2.0	704	9.0	4,880
3.0	1,120	10.0	6,200
4.0	1,540		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,630	539	253	258	271	935	2,090	725	236	704	2,090	2,780
2	1,500	493	243	253	241	1,250	2,190	642	227	2,280	1,670	2,990
3	1,670	456	241	246	218	1,170	2,040	767	213	3,720	1,380	2,830
4	1,940	426	241	243	213	1,040	2,400	1,500	202	4,390	1,210	2,620
5	1,940	398	236	239	276	956	2,780	1,710	193	4,510	1,120	2,560
6	1,750	392	229	231	426	872	3,200	1,540	188	4,150	1,040	3,200
7	1,670	405	227	222	422	738	4,040	1,460	186	3,260	935	3,040
8	1,630	415	220	213	345	704	4,760	1,590	193	2,560	872	2,820
9	1,590	409	215	206	302	621	5,130	1,380	239	2,040	809	2,090
10	1,540	392	206	202	578	539	5,000	1,120	248	1,750	809	1,750
11	1,670	373	202	195	1,250	500	4,510	956	241	1,420	830	1,630
12	2,400	369	199	191	1,590	449	3,820	788	241	1,170	998	1,460
13	2,620	481	199	186	1,630	409	3,200	683	476	1,060	1,120	1,290
14	3.200	788	199	184	1,500	376	2,620	851	1,060	1,080	1,210	1,170
15	3,200	725	241	184	1,380	348	2,040	1,540	704	998	1,170	1,040
16	2,880	642	292	178	1,290	322	1,670	1,890	642	830	1,170	914
17	2.510	580	339	172	1,120	300	1,420	1,710	348	746	1,330	830
18	2,190	520	322	166	998	287	1,210	1,290	351	683	1,460	767
19	1,940	463	297	162	872	274	1,060	977	520	621	1,380	704
20	1,710	426	295	162	767	261	914	767	500	580	1,250	662
21	1,540	389	295	160	663	246	809	621	621	520	1,120	600
22	1,380	360	295	155	704	234	725	520	893	474	1,120	560
23	1,250	336	289	151	851	229	662	453	767	429	1,060	560
24	1.120	319	287	150	851	276	600	405	851	395	914	621
25	998	305	284	150	788	269	746	360	935	389	830	560
26	893	292	279	150	725	253	1,040	345	788	463	1,020	520
27	830	282	282	153	683	239	1,040	322	621	830	1,420	998
28	746	269	289	162	683	231	977	300	500	977	1,800	1,540
29	683	261	284	208	-	271	893	282	429	1,080	1,380	1,330
30	642	253	282	300	-	373	809	269	422	1,420	1,120	1,170
31	580	-	269	308	-	1,330	-	248	-	1,990	1,990	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	51,842	3,200	580	1,672	1.26	1.45
November	12,758	788	253	425	.320	.36
December	8,031	339	199	259	.195	.22
Calendar year 1936	489,128	9,920	163	1,336	1.00	13.67
January	6,140	308	150	198	.149	.17
February	21,657	1,630	213	773	.581	.60
March	16,352	1,330	229	527	.396	.46
April	64,395	5,130	600	2,146	1.61	1.80
May	28,011	1,890	248	904	.680	.78
June	14,035	1,060	186	468	.352	.39
July	47,519	4,510	389	1,533	1.15	1.33
August	37,627	2,090	809	1,214	.913	1.05
September	45,406	3,200	520	1,514	1.14	1.27
Water year 1936-37	353,773	5,130	150	969	.729	9.88

Kissengen Spring near Bartow, Fla.

Location.- Lat. 27°51', long. 81°49', in sec. 28, T. 30 S., R. 25 E., about 4½ miles southeast of Bartow.

Records available.- 1917 and 1929-31 (single discharge measurement in each year), March 1932 to September 1937 (discharge measurements).

Extremes.- Maximum discharge measured during year, 33.0 second-feet Oct. 6; minimum, 21.6 second-feet Apr. 6.
1932-37: Maximum discharge measured, 43.6 second-feet Oct. 11, 1933; minimum, 19.2 second-feet June 11, 1932.

Remarks.- Discharge measurements made about monthly from footbridge at outlet of pool.

Discharge measurements, in second-feet, water year October 1936 to September 1937

Oct. 6	33.0
Nov. 3	23.8
Dec. 10	22.9
Jan. 5	22.0
Feb. 5	22.4
Mar. 1	25.9
Apr. 6	21.6
Apr. 6	23.7
May 4	27.7
June 8	26.2
July 15	25.5
Sept.17	25.6

Miakka River near Sarasota, Fla.

Location.- Staff gage, lat. 27°14', long. 82°19', in sec. 28, T. 37 S., R. 20 E., at bridge on State Highway 220, 2 miles below Atlantic Coast Line Railroad bridge and about 14 miles southeast of Sarasota.

Drainage area.- 200 square miles.

Records available.- August 1936 to September 1937.

Extremes.- Maximum discharge observed during period, 1,340 second-feet Apr. 9, 10; maximum gage height observed, 7.66 feet Oct. 16, 17; minimum discharge observed, 6.4 second-feet Jan. 27 and Feb. 2; minimum gage height observed, 2.18 feet Feb. 4.

Remarks.- Records good except those for April, which may be poor due to uncertainty of shifts used in shifting-control method. Discharge for days of missing gage heights, Dec. 13, July 4, 5, 26, 1936 Aug. 1, 21, 1937, computed from graph drawn on basis of preceding and subsequent gage readings. Gage read once daily. Gage height record furnished by Branch of Recreational Planning and State Cooperation, National Park Service.

Rating tables for Aug. 19, 1936 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

(Shifting-control method used Feb. 1-19 and Mar. 29 to Apr. 24)

Aug. 19 to Apr. 9				Apr. 10 to Sept. 30			
2.0	3.0	5.5	167	3.5	31	6.0	415
2.5	10.5	6.0	278	4.0	50	6.5	590
3.0	20	6.5	475	4.5	82	7.0	790
3.5	30	7.0	740	5.0	145	7.5	1,040
4.0	46	7.5	1,040	5.5	265	8.0	1,340
5.0	108	8.0	1,340				

Discharge, in second-feet, 1936

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1	-	228	11	-	525	21	550	575
2	-	217	12	-	525	22	525	525
3	-	217	13	-	425	23	475	475
4	-	217	14	-	630	24	450	450
5	-	217	15	-	800	25	402	425
6	-	278	16	-	800	26	360	360
7	-	360	17	-	770	27	340	380
8	-	402	18	-	712	28	293	425
9	-	475	19	550	712	29	278	500
10	-	500	20	575	658	30	265	525
						31	252	-

Discharge, in second-feet October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	630	252	52	27	6.9	60	65	82	95	113	485	940
2	658	217	50	27	6.4	60	112	74	86	145	485	1,040
3	658	196	48	26	6.8	58	206	70	78	213	490	1,040
4	602	186	46	26	7.0	58	265	67	70	310	555	1,100
5	602	167	46	24	8.7	55	475	78	61	385	520	1,100
6	575	152	40	23	9.2	55	685	120	64	385	520	1,100
7	550	146	39	22	10	52	980	189	58	355	485	1,100
8	525	139	38	21	11	50	1,220	252	55	325	450	1,100
9	525	127	38	20	12	50	1,340	265	50	325	415	990
10	475	122	36	19	18	48	1,340	265	48	310	415	990
11	500	117	36	18	23	46	1,160	265	48	280	415	840
12	575	108	39	18	26	42	1,040	252	50	265	450	790
13	740	108	34	16	29	40	890	238	50	252	520	790
14	630	108	30	16	36	38	750	238	52	238	555	710
15	1,040	108	30	14	44	34	670	226	58	238	555	670
16	1,160	104	30	14	50	33	590	238	67	238	555	630
17	1,160	99	30	13	60	32	520	238	74	252	555	555
18	1,100	99	29	12	60	29	450	238	82	252	555	520
19	980	91	29	12	60	28	400	226	90	280	520	485
20	920	91	29	11	58	26	340	213	106	265	520	450
21	800	88	30	10	58	24	295	201	120	265	485	415
22	740	91	30	9.8	68	23	238	189	145	238	485	400
23	575	84	30	9.0	65	22	189	178	166	226	485	370
24	500	77	30	8.6	65	20	145	166	189	213	485	340
25	475	71	30	7.8	65	18	136	145	189	178	450	325
26	450	71	30	7.5	65	17	127	127	178	201	450	295
27	425	68	30	6.4	62	16	113	127	156	213	520	265
28	360	65	29	7.5	62	15	100	120	145	265	520	252
29	324	60	28	8.6	-	14	95	113	127	325	555	238
30	293	55	28	7.8	-	33	86	113	113	450	590	213
31	252	-	27	7.4	-	48	-	100	-	520	840	-

Discharge in second-feet, of Miakka River near Sarasota, Fla., 1936-37--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
August 19-31, 1936	5,315	575	252	409	2.04	0.99
September	14,308	800	217	477	2.38	2.66
Water year						
October 1936	19,799	1,160	252	639	3.20	3.69
November	3,467	252	55	116	.580	.65
December	1,071	52	27	34.5	.172	.20
Calendar year						
January 1937	469.4	27	6.4	15.1	.076	.09
February	1,052	68	6.4	37.6	.188	.20
March	1,144	60	14	36.9	.184	.21
April	15,022	1,340	65	501	2.50	2.79
May	5,413	265	67	175	.875	1.01
June	2,870	189	48	95.7	.478	.53
July	8,520	520	113	275	1.38	1.59
August	15,885	840	415	512	2.56	2.95
September	20,053	1,100	213	668	3.34	3.73
Water year 1936-37	94,765.4	1,340	6.4	260	1.30	17.64

Alafia River at Lithia, Fla.

Location.- Staff gage, lat. 27°52', long. 82°12', in sec. 16, T. 30 S., R. 21 E., at Marvinia Bridge, 1 mile northwest of Lithia. Zero of gage is 9.71 feet above mean sea level (unadjusted).

Drainage area.- 336 square miles.

Records available.- January 1933 to September 1937.

Extremes.- Maximum discharge observed during year, 1,920 second-feet Oct. 12 (gage height, 10.40 feet); minimum observed, 50 second-feet June 3, 4 (gage height, 0.84 foot).

1933-37: Maximum discharge, 25,000 second-feet Sept. 7, 1933, (gage height, 25.6 feet, from floodmarks), from rating curve extended above 12,000 second-feet; minimum, 13 second-feet June 5, 6, 10, 1935 (gage height, 0.31 foot).

Remarks.- Records good. Gage read once daily.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	770	108	90	101	67	865	808	144	60	88	734	1,560
2	808	101	103	99	64	680	770	144	55	220	734	1,240
3	734	101	99	96	62	543	752	424	50	322	680	827
4	509	98	99	96	62	390	922	492	50	305	680	645
5	441	91	95	95	108	322	1,180	458	60	271	458	789
6	390	91	91	91	106	220	1,620	424	70	237	543	827
7	322	95	88	88	103	212	1,710	407	152	220	509	628
8	288	98	91	85	93	194	1,710	288	271	212	390	390
9	611	104	93	82	84	194	1,490	254	271	186	356	322
10	662	101	98	79	492	160	1,180	220	203	160	356	271
11	980	98	98	76	698	152	1,020	169	178	144	808	254
12	1,920	101	93	78	526	144	827	144	373	115	698	407
13	1,470	220	93	78	492	144	594	135	339	169	752	509
14	1,120	220	90	74	441	144	509	126	305	288	734	390
15	960	203	99	74	322	135	339	194	203	322	698	305
16	827	186	118	74	288	126	305	194	178	271	789	237
17	680	169	126	76	237	135	271	194	160	212	827	212
18	475	152	126	76	203	113	237	178	169	186	752	305
19	390	144	118	74	169	110	212	152	178	169	716	288
20	288	126	126	70	152	106	186	118	160	160	509	237
21	288	116	135	69	254	98	169	115	178	144	475	220
22	254	113	126	72	734	95	152	101	169	126	424	237
23	212	99	118	88	526	91	152	88	169	186	390	305
24	203	93	118	85	407	152	884	88	203	169	407	271
25	178	93	116	72	339	126	560	85	169	178	356	203
26	152	96	115	67	271	106	424	79	160	322	322	186
27	152	93	118	60	220	116	322	70	126	339	288	322
28	135	90	115	57	390	144	271	63	104	322	390	305
29	135	87	110	56	-	144	194	60	85	734	662	271
30	126	88	104	72	-	151	186	66	82	680	560	237
31	118	-	103	72	-	808	-	69	-	827	1,430	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	16,598	1,920	118	535	1.59	1.83
November	3,575	220	87	119	.354	.40
December	3,312	135	88	107	.318	.37
Calendar year 1936	121,962	2,420	25	333	.991	13.49
January	2,432	101	56	78.5	.234	.27
February	7,910	734	62	282	.839	.87
March	7,120	865	91	230	.685	.79
April	19,956	1,710	152	665	1.98	2.21
May	5,743	492	60	185	.551	.64
June	4,930	373	50	164	.488	.54
July	8,284	827	88	267	.795	.92
August	18,427	1,430	288	594	1.77	2.04
September	13,200	1,560	186	440	1.31	1.46
Water year 1936-37	111,487	1,920	50	305	.908	12.34

Hillsboro River near Harney, Fla.

Location.- Staff gage, lat. 28°03', long. 82°22', on line between secs. 12 and 13, T. 28 S., R. 19 E., at Fowler Street Bridge, 2½ miles north of Harney and 4 miles west of Thonotosassa. Zero of gage is 19.14 feet above mean sea level.

Drainage area.- 525 square miles.

Records available.- October 1933 to September 1937.

Extremes.- Maximum discharge observed during year, 1,960 second-feet Sept. 3, 4, (gage height, 6.12 feet); minimum observed, 72 second-feet June 7 (gage height, 2.10 feet).
1933-37: Maximum discharge, 11,700 second-feet June 20, 1934 (gage height, 13.42 feet, from observed readings on crest); minimum observed, 60 second-feet Apr. 5, 1935; minimum gage height observed, 1.75 feet May 7, 19, June 5, 1935.
Maximum stage known, 15.53 feet Sept. 9, 1933 prior to failure of Tampa Power Dam, from floodmarks (discharge, 16,400 second-feet, from discharge measurement near crest).

Remarks.- Records good except those below 100 second-feet, which are fair. Gage read twice daily.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	238	255	126	169	100	895	380	220	88	272	1,400	1,280
2	238	238	126	166	96	895	440	220	78	342	1,750	1,750
3	238	220	120	160	96	945	540	255	76	440	1,750	1,960
4	238	220	113	160	100	945	695	255	76	560	1,750	1,960
5	220	205	113	160	122	895	795	272	76	745	1,680	1,990
6	220	184	111	155	117	845	945	325	76	795	1,470	1,820
7	220	178	107	150	120	745	1,160	500	76	745	1,340	1,750
8	220	166	100	148	117	695	1,470	650	86	650	1,220	1,680
9	255	160	100	145	113	605	1,680	745	86	560	1,110	1,470
10	272	155	100	145	238	560	1,750	745	98	440	1,060	1,400
11	342	152	98	142	255	520	1,820	695	92	400	1,000	1,280
12	460	166	100	138	272	480	1,820	690	100	342	1,160	1,220
13	650	190	102	131	325	440	1,750	605	109	360	1,540	1,160
14	795	205	98	131	440	400	1,610	605	113	400	1,750	1,110
15	945	220	131	128	480	342	1,470	605	113	460	1,680	1,060
16	1,000	255	148	126	480	342	1,280	605	113	360	1,680	945
17	1,000	290	155	124	480	325	1,160	605	113	308	1,610	845
18	1,060	308	166	122	520	290	1,000	605	113	272	1,400	795
19	1,000	325	184	117	500	272	895	605	113	238	1,280	745
20	945	308	205	117	440	255	795	560	122	205	1,220	695
21	895	272	205	113	500	238	650	500	122	190	1,060	650
22	795	255	220	113	540	220	560	420	122	175	1,000	650
23	745	220	220	109	650	205	500	342	126	169	945	650
24	650	205	205	109	745	238	440	290	135	152	945	605
25	560	190	205	109	895	220	380	238	140	142	895	560
26	520	175	205	107	945	220	342	220	135	148	895	520
27	460	163	205	105	895	238	308	175	126	158	795	480
28	400	152	190	102	945	238	272	148	115	190	745	440
29	342	142	184	105	-	220	255	131	111	342	695	400
30	325	133	178	105	-	255	238	115	220	695	650	380
31	308	-	175	105	-	342	-	105	-	945	895	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	16,556	1,060	220	534	1.02	1.18
November	6,307	325	133	210	.400	.45
December	4,695	220	98	151	.288	.33
Calendar year 1936	175,017	3,530	62	478	.910	12.42
January	4,016	169	102	130	.248	.29
February	11,526	945	96	412	.785	.82
March	14,325	945	205	462	.880	1.01
April	27,400	1,920	238	913	1.74	1.94
May	13,051	745	105	421	.802	.92
June	3,269	220	76	109	.208	.23
July	12,200	945	142	394	.750	.86
August	38,370	1,750	650	1,238	2.36	2.72
September	32,150	1,960	380	1,072	2.04	2.28
Water year 1936-37	183,865	1,960	76	504	.960	13.03

Crystal Springs near Zephyrhills, Fla.

Location.- Staff gage, lat. 28°11', long. 82°10', in sec. 35, T. 26 S., R. 21 E., 1⅛ miles west of Crystal Springs and 3⅛ miles south of Zephyrhills.

Records available.- 1933 (miscellaneous discharge measurements), October 1934 to September 1937 (discharge measurements).

Extremes.- Maximum discharge measured during year, 121 second-feet Sept. 17; minimum, 67.2 second-feet Feb. 4.
1934-37: Maximum discharge measured, that of Sept. 17, 1937; minimum, 54.9 second-feet July 10, 1935.

Remarks.- Discharge measurements made of river flow above springs and below springs, the difference in discharge being spring flow.

Discharge measurements, in second-feet, water year October 1936 to September 1937

Date	Below springs	Above springs	Difference or spring flow
Oct. 5	89.6	13.4	76.2
Nov. 2	90.8	9.69	81.1
Dec. 9	77.4	4.69	72.7
Jan. 4	77.6	4.63	73.0
Feb. 4	70.2	3.0	67.2
June 7	77.4	3.06	74.3
July 16	82.7	6.0	76.7
Sept.17	187	66.1	121

WEEKIWACHEE RIVER BASIN

Weekiwachee Spring near Brooksville, Fla.

Location.- Lat. 28°31', long. 82°34', in sec. 2, T. 23 S., R. 17 E., at head of Weekiwachee River, about 12 miles southwest of Brooksville.

Records available.- 1917 and 1929-30 (single discharge measurement in each year), February 1931 to September 1937 (discharge measurements).

Extremes.- Maximum discharge measured during year, 173 second-feet Sept. 14; minimum, 139 second-feet June 12.
1931-37: Maximum discharge measured, 231 second-feet May 6, 1931; minimum, 106 second-feet Feb. 14, 1933.

Remarks.- Discharge measurements fair; made about monthly from boat at outlet of pool.

Discharge measurements, in second-feet, water year October 1936 to September 1937

Oct. 11	170
Nov. 9	172
Dec. 16	150
Jan. 11	145
Feb. 9	142
Mar. 8	148
Apr. 10	158
May 8	155
June 12	139
July 16	150
Sept.14	173

Withlacoochee River at Trilby, Fla.

Location.- Staff gage, lat. 28°29', long. 82°12', in sec. 22, T. 23 S., R. 21 E., at highway bridge 1 mile north of Trilby.

Drainage area.- 780 square miles.

Records available.- August 1928 to February 1929, February 1930 to September 1937.

Extremes.- Maximum discharge observed during year, 1,760 second-feet Sept. 3 (gage height, 11.55 feet); minimum discharge observed, 48 second-feet June 27-29; minimum gage height, 0.60 foot June 29.

1928-29, 1930-37: Maximum discharge, 8,840 second-feet June 21, 1934 (gage height, 20.5 feet, observed at crest); minimum observed, 11 second-feet Apr. 29, May 14-17, 22-24, 1932 (gage height, -0.48 foot).

Maximum stage known, that of June 21, 1934.

Remarks.- Records good. Gage read once daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Nov. 20 to Dec. 28, June 21 to July 29)

0.6	48	3.0	247	8.0	875
0.8	58	4.0	354	9.0	1,050
1.0	69	5.0	468	10.0	1,280
1.5	101	6.0	590	11.0	1,570
2.0	147	7.0	725	12.0	1,900

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	207	528	217	90	56	207	177	321	167	58	616	1,090
2	207	516	207	90	56	227	177	310	137	84	616	1,690
3	197	492	197	87	53	237	177	332	127	87	603	1,760
4	187	468	187	84	53	247	197	343	114	90	590	1,720
5	187	432	177	84	53	257	247	376	109	90	577	1,690
6	177	387	177	81	50	267	288	387	101	84	590	1,600
7	177	365	157	78	50	277	343	409	101	78	616	1,480
8	187	332	147	78	53	277	398	398	98	72	603	1,390
9	227	310	147	75	56	277	420	398	90	72	629	1,280
10	257	288	127	75	58	288	456	409	84	63	655	1,180
11	310	277	127	72	60	288	504	409	81	60	860	1,110
12	332	257	118	72	63	267	540	420	75	58	935	1,050
13	354	237	118	69	66	267	577	444	69	56	905	990
14	376	227	127	69	72	257	616	456	63	58	875	970
15	409	217	137	69	75	247	629	456	63	58	830	920
16	420	217	137	66	75	237	655	468	58	56	800	890
17	444	207	137	66	72	227	669	468	58	56	755	860
18	468	207	127	63	69	217	655	456	63	56	740	815
19	492	207	127	63	66	207	655	444	58	63	683	815
20	516	207	127	63	87	207	629	420	60	69	655	785
21	540	227	118	60	127	197	590	398	63	72	655	770
22	564	227	118	60	147	187	564	376	66	127	655	740
23	590	247	114	60	157	167	540	365	63	118	655	711
24	603	247	109	58	167	157	516	332	58	147	642	697
25	616	257	105	58	167	137	492	299	56	207	629	669
26	616	257	101	58	167	127	480	277	50	227	616	616
27	603	247	101	58	177	137	432	257	48	217	616	577
28	603	237	101	58	197	137	409	227	48	227	603	564
29	590	237	101	58	-	137	376	217	48	227	577	528
30	577	227	98	56	-	147	343	197	50	409	669	516
31	552	-	94	56	-	167	-	177	-	564	860	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	12,585	616	177	406	0.521	0.60
November	8,788	528	207	293	.376	.42
December	4,182	217	94	135	.173	.20
Calendar year 1936	144,861	1,360	49	396	.508	6.93
January	2,134	90	56	68.8	.088	.10
February	2,549	197	50	91.0	.117	.12
March	6,679	288	127	215	.276	.32
April	13,751	669	177	458	.587	.65
May	11,246	468	177	363	.465	.54
June	2,326	167	48	77.5	.099	.11
July	3,910	564	56	126	.162	.19
August	21,310	935	577	687	.881	1.02
September	30,473	1,760	516	1,016	1.30	1.45
Water year 1936-37	119,933	1,760	48	329	.422	5.72

Withlacoochee River near Holder, Fla.

Location.- Water-stage recorder, lat. 28°59'15", long. 82°20'50", in sec. 19, T. 17 S., R. 20 E., at Stokes Ferry Bridge, 4½ miles northeast of Holder. Zero of gage is 27.59 feet above mean sea level.

Drainage area.- 1,660 square miles.

Records available.- August 1928 to February 1929, August 1931 to September 1937.

Extremes.- Maximum discharge during year, 3,090 second-feet Aug. 31 (gage height, 8.46 feet); minimum, 457 second-feet July 15-17; minimum gage height, 1.64 feet July 16. 1928-29, 1931-37: Maximum discharge, 6,740 second-feet July 8-13, 1934; maximum gage height, 11.63 feet July 9, 10, 1934; minimum discharge, 144 second-feet Feb.1, 1933; minimum gage height, -0.37 foot May 14, 1932.

Remarks.- Records excellent except those for October and those for July to September, which are good.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	741	882	688	636	550	662	970	911	768	662	611	2,780
2	768	882	714	662	574	636	940	911	741	768	624	2,660
3	741	882	714	662	562	636	911	940	714	768	636	2,500
4	741	882	714	662	562	624	911	940	688	714	662	2,390
5	741	882	714	662	550	624	1,060	940	662	688	688	2,290
6	741	882	714	662	538	611	1,090	940	688	662	688	2,240
7	714	882	741	636	536	611	1,150	911	714	636	688	2,150
8	714	882	741	624	526	624	1,120	911	741	611	714	2,100
9	796	911	741	624	538	624	1,150	911	768	586	796	2,100
10	824	911	741	611	550	611	1,090	882	768	550	853	2,150
11	1,030	911	741	611	526	624	1,060	882	796	526	940	2,150
12	1,120	911	741	611	526	624	1,030	853	853	526	1,000	2,150
13	1,150	940	714	611	611	636	970	824	796	502	1,060	2,200
14	1,150	940	688	611	636	636	940	853	768	480	1,180	2,200
15	1,150	940	768	611	636	636	911	940	741	468	1,300	2,150
16	1,120	911	796	598	624	662	911	911	714	457	1,370	2,150
17	1,120	882	796	586	598	636	882	911	688	468	1,400	2,150
18	1,090	882	768	598	586	636	853	882	688	480	1,470	2,150
19	1,060	882	741	598	586	636	853	853	636	502	1,500	2,150
20	1,030	853	741	574	598	662	853	853	636	514	1,570	2,240
21	1,030	824	741	574	662	662	853	824	662	538	1,610	2,290
22	1,000	824	714	574	714	662	853	796	662	550	1,610	2,290
23	970	796	688	574	688	636	853	796	662	562	1,610	2,290
24	970	796	662	562	688	714	853	796	624	550	1,610	2,290
26	940	768	662	550	662	741	853	768	598	574	1,570	2,240
26	940	741	662	538	636	714	853	768	586	636	1,570	2,240
27	911	741	636	624	636	853	853	768	586	662	1,610	2,200
28	911	714	662	636	662	853	853	768	598	688	1,640	2,150
29	882	688	636	611	-	853	853	796	586	688	1,710	2,100
30	882	688	636	574	-	853	911	796	624	636	1,900	2,100
31	882	-	636	562	-	970	-	796	-	611	2,960	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	28,859	1,150	714	931	0.561	0.65
November	25,510	940	688	850	.512	.57
December	22,051	796	636	711	.428	.49
Calendar year 1936	462,125	2,800	636	1,263	.761	10.33
January	18,829	662	538	607	.366	.42
February	16,763	714	526	599	.361	.38
March	21,162	970	611	683	.411	.47
April	28,243	1,150	853	941	.567	.63
May	26,631	940	768	859	.517	.60
June	20,756	853	586	692	.417	.47
July	18,263	768	457	589	.355	.41
August	39,150	2,960	611	1,263	.761	.88
September	67,240	2,780	2,100	2,241	1.35	1.51
Water year 1936-37	333,457	2,960	457	914	.551	7.48

Blue Springs near Dunnellon, Fla.

Location.- Lat. 29°06'15", long. 82°26'05", in sec. 12, T. 16 S., R. 18 E., 4 miles northeast of Dunnellon.

Records available.- 1907, 1917, and 1929-30 (single discharge measurement in each year), February 1931 to September 1937 (discharge measurements).

Extremes.- Maximum discharge measured during year, 866 second-feet Oct. 2; minimum, 655 second-feet Dec. 16.
1931-37: Maximum discharge measured, 927 second-feet Nov. 9, 1936; minimum, 487 second-feet Oct. 3, 1932.

Remarks.- Discharge measurements made about monthly at highway bridge 5 miles below springs. Measured discharge is nearly entire flow from spring, as surface run-off is negligible except after heavy rains.

Discharge measurements, in second-feet, water year October 1936 to September 1937

Oct. 2	866
Nov. 10	733
Dec. 16	655
Jan. 11	680
Feb. 12	663
Mar. 11	670
Apr. 15	692
May 10	692
June 3	668
July 3	674
Aug. 17	663
Sept.11	829

Suwannee River at Fargo, Ga.

Location.- Staff gage, lat. 30°41', long. 82°34', at Southern Railway bridge at Fargo, Clinch County, 4 miles above Suwanoochee Creek and 12 miles below Mixons Ferry dam site. Zero of gage is 92.90 feet above mean sea level.

Drainage area.- About 925 square miles, revised.

Records available.- January 1921 to September 1923 (gage heights only), January 1927 to December 1931, April to September 1937.

Extremes.- Maximum discharge observed during period, 6,390 second-feet Apr. 20 (gage height, 13.1 feet); minimum, 170 second-feet July 14 (gage height, 1.60 feet). 1921-23, 1927-31, 1937: Maximum discharge observed, 12,700 second-feet Oct. 3, 1929 (gage height, 18.6 feet); no flow Dec. 5-8, 1931.

Remarks.- Records good. Twice-daily gage readings furnished by Superior Pine Products Co.

Rating table, Apr. 20 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

1.0	110	7.0	950	11.0	3,570
2.0	210	7.5	1,110	11.5	4,160
3.0	320	8.0	1,300	12.0	4,800
4.0	440	8.5	1,535	12.5	5,490
5.0	570	9.0	1,820	13.0	6,230
5.5	641	9.5	2,165	14.0	7,830
6.0	720	10.0	2,570		
6.5	822	10.5	3,040		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	2,570	210	380	671	1,080
2							-	2,480	190	380	703	1,110
3							-	2,480	190	392	671	1,140
4							-	2,400	190	380	626	1,220
5							-	2,400	190	344	584	1,260
6							-	2,320	232	332	544	1,300
7							-	2,240	276	309	518	1,300
8							-	2,090	265	287	479	1,300
9							-	2,020	243	265	544	1,390
10							-	1,950	221	243	598	1,390
11							-	1,820	210	221	626	1,390
12							-	1,640	243	200	612	1,340
13							-	1,480	287	180	656	1,300
14							-	1,300	276	170	758	1,220
15							-	1,140	265	180	896	1,140
16							-	980	254	210	1,010	1,110
17							-	846	243	232	1,110	1,040
18							-	758	232	254	1,180	1,010
19							-	671	243	356	1,220	950
20							6,390	598	309	518	1,300	980
21							5,930	544	380	641	1,300	1,700
22							5,350	479	428	720	1,300	2,240
23							4,800	416	440	822	1,340	2,750
24							4,410	380	428	822	1,300	3,040
25							3,920	344	404	778	1,220	3,240
26							3,680	320	380	687	1,140	3,350
27							3,350	309	356	598	1,080	3,350
28							3,040	287	332	531	1,010	3,350
29							2,840	265	309	518	980	3,240
30							2,750	254	332	544	980	3,240
31							-	232	-	598	1,040	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April 20-30	46,460	6,390	2,750	4,224	4.57	1.87
May	38,013	2,570	232	1,226	1.33	1.53
June	8,558	440	190	285	.308	.34
July	13,092	822	170	422	.456	.53
August	27,996	1,340	479	903	.976	1.13
September	53,470	3,350	950	1,782	1.93	2.15
Water year						

Suwannee River at White Springs, Fla.

Location.- Water-stage recorder, lat. 30°20', long. 82°45', in sec. 7, T. 2 S., R. 16 E., at bridge on U. S. Highway 41 about 1 mile southeast of White Springs. Zero of gage is 48.54 feet above mean sea level.

Drainage area.- About 1,990 square miles (watershed in Okeefenokee Swamp is indeterminate).

Records available.- May 1906 to December 1908, February 1927 to September 1937.

Average discharge.- 12 years, 1,780 second-feet.

Extremes.- Maximum discharge during year, 11,100 second-feet Apr. 17, 18; maximum gage height, 29.54 feet Apr. 18; minimum discharge, 31 second-feet Oct. 6 (gage height, 1.72 feet).

1906-8, 1927-37: Maximum discharge, 20,600 second-feet Sept. 30, Oct. 1, 1928 (gage height, 33.9 feet, former site and datum, 35.0 feet, present site and datum); minimum discharge, 4.8 second-feet Nov. 15, 1931: minimum gage height, 1.17 feet, June 27, 1935.

Maximum stage known, that of Sept. 30 and Oct. 1, 1928.

Remarks.- Records excellent except those for periods when recorder was not working, Oct. 31 to Nov. 17, Nov. 23 to Dec. 6, July 20 to Aug. 19, which were computed from gage-height graph drawn on basis of records for stations at Luraville, Fla. and Fargo, Ga., and are good.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.7	29	4.0	402	12.0	2,970	22.0	6,700
2.0	55	5.0	653	14.0	3,710	24.0	7,600
2.5	115	6.0	930	16.0	4,450	26.0	8,600
3.0	193	8.0	1,540	18.0	5,190	28.0	9,900
3.5	288	10.0	2,240	20.0	5,930	30.0	11,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	245	63	512	499	3,010	3,040	5,190	426	536	2,240	3,380
2	40	236	63	499	466	2,930	3,190	4,710	402	549	2,350	3,190
3	36	224	62	486	462	2,860	3,520	4,300	354	614	2,380	2,860
4	34	214	61	466	450	2,820	3,640	3,970	331	818	2,350	2,640
5	32	205	60	474	438	2,780	4,260	3,670	320	790	2,200	2,490
6	34	196	59	462	426	2,750	4,640	3,450	331	694	2,020	2,350
7	35	188	57	450	414	2,710	4,890	3,230	354	627	1,810	2,240
8	35	179	57	438	402	2,640	5,230	3,040	390	562	1,610	2,130
9	35	169	57	438	402	2,560	5,690	2,860	378	499	1,470	2,020
10	54	159	57	426	575	2,490	6,300	2,670	366	438	1,470	1,990
11	113	151	59	426	707	2,420	6,790	2,460	366	390	1,510	1,950
12	145	142	68	414	734	2,310	7,650	2,240	402	342	1,540	1,880
13	139	134	74	402	846	2,200	8,500	2,060	402	309	1,640	1,840
14	156	127	74	402	1,160	2,060	9,480	1,840	462	298	1,780	1,810
15	240	115	360	390	1,220	1,950	10,300	1,670	486	288	1,990	1,740
16	874	107	694	390	1,250	1,840	10,900	1,510	450	378	2,170	1,670
17	846	98	640	378	1,190	1,710	11,100	1,340	450	601	2,280	1,610
18	762	92	666	390	1,160	1,610	11,100	1,220	486	694	2,280	1,540
19	601	86	653	402	1,100	1,470	11,000	1,100	562	790	2,240	1,470
20	499	82	640	402	1,130	1,410	10,800	988	614	1,190	2,170	1,570
21	450	78	627	378	2,180	1,310	10,500	874	627	1,540	2,200	5,130
22	426	74	614	378	4,040	1,280	9,980	790	666	1,840	2,200	5,780
23	402	67	601	354	4,120	1,250	9,410	694	680	1,990	2,100	5,670
24	390	62	588	354	3,640	1,280	8,720	640	666	2,020	1,990	5,670
25	366	57	575	342	3,380	1,470	8,200	601	627	1,990	1,950	5,710
26	354	52	562	342	3,270	1,780	7,600	549	575	1,950	1,950	5,710
27	331	51	549	366	3,160	2,240	6,970	536	536	1,950	1,840	5,710
28	309	52	536	402	3,080	2,560	6,340	536	486	1,920	1,810	5,710
29	288	61	536	462	-	2,560	5,860	524	450	1,880	1,990	5,630
30	278	63	524	486	-	2,600	5,630	486	450	1,950	2,020	5,600
31	257	-	524	486	-	2,820	-	450	-	2,100	2,780	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	8,602	874	32	277	0.139	0.16
November	3,766	245	51	126	.063	.07
December	10,760	694	57	347	.174	.20
Calendar year 1936	294,134	4,480	32	804	.404	5.48
January	13,017	512	342	420	.211	.24
February	41,921	4,120	402	1,497	.752	.79
March	67,680	3,010	1,250	2,183	1.10	1.27
April	221,430	11,100	3,040	7,381	3.71	4.14
May	60,198	5,190	450	1,942	.976	1.13
June	14,095	680	320	470	.236	.26
July	32,537	2,100	288	1,050	.528	.61
August	62,330	2,780	1,470	2,011	1.01	1.16
September	98,690	5,780	1,470	3,290	1.65	1.84
Water year 1936-37	635,026	11,100	32	1,740	.874	11.86

Suwannee River at Ellaville, Fla.

Location.- Water-stage recorder, lat. 30°23', long. 83°10', in sec. 24, T. 1 S., R. 11 E., 200 feet above Seaboard Airline Railway bridge, 200 feet below mouth of Withlacoochee River at Ellaville, and a quarter of a mile above bridge on U. S. Highway 90. Zero of gage is 27.70 feet above mean sea level.

Drainage area.- 6,580 square miles.

Records available.- January 1927 to September 1937.

Average discharge.- 10 years, 6,918 second-feet.

Extremes.- Maximum discharge during year, 25,200 second-feet Apr. 17 (gage height, 23.66 feet); minimum, 1,600 second-feet Dec. 9 (gage height, 2.62 feet).
1927-37: Maximum discharge, 73,000 second-feet Aug. 20, 1928 (gage height, 37.1 feet); minimum, 1,000 second-feet June 30, 1935 (gage height, 2.05 feet).
Maximum stage known, that of Aug. 20, 1928.

Remarks.- Records excellent, except those for periods when recorder was not working, Feb. 17 to Mar. 12, Mar. 26 to Apr. 10, which were computed from gage height graph drawn on basis of records for stations at Branford and at Luraville and are good.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.6	1,600	6.0	5,520	11.0	10,000	18.0	17,800
3.0	2,080	7.0	6,430	12.0	11,000	20.0	20,000
3.5	2,680	8.0	7,330	13.0	12,000	22.0	22,900
4.0	3,280	9.0	8,230	14.0	13,200	24.0	25,700
5.0	4,480	10.0	9,130	16.0	15,600		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,900	2,740	1,720	3,760	4,240	12,000	14,000	15,700	4,360	3,280	7,060	6,520
2	1,840	2,680	1,720	3,760	4,700	12,200	14,900	15,600	4,240	3,400	7,240	6,970
3	1,840	2,620	1,720	3,640	5,220	12,400	15,500	15,500	4,120	3,280	7,510	7,060
4	1,780	2,560	1,720	3,520	5,800	12,500	15,800	15,400	4,000	3,280	7,690	6,970
5	1,780	2,500	1,720	3,520	6,250	12,400	16,000	15,200	3,880	3,280	7,690	6,790
6	1,780	2,440	1,720	3,400	6,700	12,000	16,400	15,000	3,880	3,280	7,600	6,700
7	1,780	2,380	1,720	3,280	6,970	11,500	16,800	14,800	3,760	3,160	7,420	6,880
8	1,780	2,320	1,660	3,280	7,150	11,000	17,300	14,400	3,760	3,100	7,060	6,700
9	1,780	2,320	1,660	3,160	7,060	10,500	17,800	14,000	3,760	3,040	6,700	6,520
10	1,900	2,260	1,660	3,160	6,880	10,000	18,300	13,600	3,640	2,980	6,340	6,430
11	2,440	2,200	1,660	3,160	7,150	9,670	19,300	12,800	3,520	2,920	6,250	6,430
12	3,640	2,140	1,660	3,160	7,510	9,220	20,700	12,000	3,520	2,920	6,160	6,340
13	3,640	2,140	1,660	3,160	7,780	8,860	22,400	11,300	3,400	2,980	6,070	6,070
14	3,520	2,080	1,720	3,100	8,050	8,500	23,600	10,600	3,400	2,860	6,250	5,980
15	3,280	2,080	1,960	3,040	8,410	8,230	24,500	10,000	3,400	2,860	6,340	5,800
16	3,400	2,020	2,800	2,980	8,770	7,870	25,100	9,490	3,400	2,920	6,520	5,620
17	3,880	1,960	3,520	2,980	9,040	7,510	25,100	8,950	3,280	3,040	6,700	5,420
18	3,980	1,900	3,760	2,980	9,220	7,240	25,000	8,500	3,280	3,400	6,790	5,320
19	3,880	1,900	3,760	2,980	9,490	6,880	24,500	7,960	3,280	3,880	6,790	5,220
20	3,880	1,900	3,880	2,920	9,400	6,610	23,900	7,510	3,400	4,480	6,790	5,220
21	3,760	1,840	4,000	2,860	10,000	6,520	22,900	7,060	3,400	5,020	6,610	6,430
22	3,640	1,840	4,000	2,860	10,500	6,790	21,800	6,610	3,400	5,420	6,610	8,860
23	3,520	1,780	4,000	2,800	10,800	7,330	20,700	6,250	3,280	5,620	6,430	10,100
24	3,280	1,780	4,000	2,740	11,000	8,050	19,600	5,980	3,280	5,800	6,250	11,100
25	3,160	1,780	4,000	2,740	11,100	8,770	18,800	5,710	3,280	5,890	6,070	11,800
26	3,040	1,780	4,000	2,740	11,200	9,400	18,300	5,520	3,160	5,890	5,890	12,200
27	3,040	1,720	4,000	2,740	11,500	10,000	17,800	5,320	3,160	5,800	5,620	12,100
28	2,980	1,720	4,000	2,800	11,700	10,600	17,200	5,120	3,100	6,070	5,520	11,900
29	2,920	1,720	3,880	2,980	-	11,700	16,600	4,920	3,040	6,340	5,520	11,600
30	2,860	1,720	3,880	3,280	-	12,500	15,800	4,700	3,040	6,610	5,520	11,100
31	2,800	-	3,760	3,760	-	13,200	-	4,480	-	6,970	5,890	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	88,600	3,880	1,780	2,858	0.434	0.50
November	62,820	2,740	1,720	2,094	.318	.35
December	86,920	4,000	1,660	2,804	.426	.49
Calendar year 1936	1,849,560	14,500	1,660	5,053	.768	10.12
January	97,240	3,760	2,740	3,137	.477	.55
February	235,590	11,700	4,240	8,342	1.27	1.32
March	301,950	13,200	6,520	9,740	1.48	1.71
April	586,400	25,100	14,000	19,550	2.97	3.31
May	309,980	15,700	4,480	9,999	1.52	1.75
June	105,420	4,360	3,040	3,514	.534	.60
July	129,770	6,970	2,860	4,186	.636	.73
August	202,900	7,690	5,520	6,545	.995	1.15
September	232,150	12,200	5,220	7,738	1.18	1.32
Water year 1936-37	2,437,740	25,100	1,660	6,679	1.02	13.78

Suwannee River at Luraville, Fla.

Location.- Staff gage, lat. 30°06', long. 83°10', in sec. 30, T. 4 S., R. 12 E., at highway bridge, 1 mile south of Luraville and 3 miles above Grants Ferry Shoals. A large spring discharges into river 500 feet above bridge on left bank. Zero of gage is 16.49 feet above mean sea level.

Drainage area.- 6,900 square miles.

Records available.- February 1927 to December 1937 (discontinued).

Average discharge.- 10 years, 7,135 second-feet.

Extremes.- Maximum discharge observed during year 23,300 second-feet Apr. 19 (gage height, 19.70 feet); minimum observed, 2,010 second-feet Nov. 28-30 and Dec. 2-14; minimum gage height observed, 2.16 feet Dec. 9, 10, 11-14.
1927-37: Maximum discharge, 66,000 second-feet Aug. 24, 1928 (gage height, 33.7 feet, observed reading at crest), from rating curve extended above 33,000 second-feet; minimum observed, 1,290 second-feet June 25-28, 30, July 1, 2, 1935; minimum gage height observed, 1.43 feet July 1, 1935.
Maximum stage known, that of Aug. 24, 1928.

Remarks.- Records good. Gage read once daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.0	1,830	12.0	12,700
3.0	2,730	14.0	15,300
4.0	3,700	16.0	18,100
6.0	5,700	18.0	20,900
8.0	7,900	20.0	23,700
10.0	10,300		

Daily discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,280	3,100	2,100	4,000	3,900	11,500	13,700	17,300	5,600	3,700	6,800	6,140
2	2,190	3,100	2,010	4,000	4,200	11,700	14,500	17,000	5,400	3,900	7,020	6,580
3	2,190	3,000	2,010	4,000	4,600	12,000	15,000	16,800	5,300	3,900	7,240	6,910
4	2,100	2,910	2,010	3,900	5,000	12,000	15,600	16,700	5,100	3,900	7,460	7,020
5	2,100	2,820	2,010	3,900	5,400	12,200	15,900	16,600	5,000	3,900	7,570	7,020
6	2,100	2,820	2,010	3,800	5,910	12,200	16,100	16,400	5,000	3,900	7,570	7,020
7	2,100	2,730	2,010	3,700	6,250	11,900	16,400	16,100	4,900	3,800	7,570	7,020
8	2,100	2,730	2,010	3,600	6,470	11,600	16,700	15,900	4,800	3,800	7,460	7,020
9	2,100	2,640	2,010	3,500	6,580	11,300	17,000	15,600	4,700	3,700	7,130	6,910
10	2,190	2,640	2,010	3,500	6,580	11,000	17,500	15,200	4,700	3,600	6,800	6,800
11	2,370	2,550	2,010	3,500	6,690	10,500	18,100	14,800	4,600	3,600	6,470	6,690
12	2,910	2,550	2,010	3,500	6,910	10,200	18,900	14,300	4,500	3,500	6,470	6,690
13	3,800	2,460	2,010	3,400	7,240	9,820	19,800	13,500	4,400	3,500	6,360	6,580
14	3,900	2,460	2,010	3,400	7,460	9,580	20,900	12,800	4,400	3,500	6,360	6,360
15	3,900	2,460	2,280	3,300	7,680	9,220	21,700	12,200	4,300	3,400	6,470	6,250
16	3,700	2,370	2,370	3,300	8,020	8,740	22,300	11,700	4,300	3,400	6,580	6,030
17	3,800	2,370	3,100	3,300	8,260	8,620	22,900	11,100	4,200	3,400	6,690	5,920
18	4,100	2,280	3,600	3,300	8,620	8,020	23,100	10,500	4,100	3,500	6,800	5,700
19	4,100	2,280	3,800	3,200	8,980	7,570	23,300	9,580	4,100	3,700	6,910	5,600
20	4,100	2,190	3,900	3,200	8,980	7,460	23,100	9,460	4,100	4,200	6,910	5,600
21	4,100	2,190	4,000	3,200	9,460	7,240	23,000	8,860	4,100	4,700	6,910	5,600
22	4,100	2,190	4,100	3,100	9,580	7,130	22,600	8,380	4,100	5,100	6,800	7,020
23	4,000	2,190	4,100	3,100	10,300	7,350	22,000	7,900	4,100	5,400	6,690	8,740
24	3,900	2,100	4,200	3,100	10,800	7,680	21,300	7,570	4,000	5,600	6,580	9,820
25	3,600	2,100	4,200	3,100	11,000	7,790	20,800	7,130	4,000	5,700	6,470	10,700
26	3,500	2,100	4,200	3,000	11,000	8,860	20,100	6,690	3,900	5,810	6,360	11,400
27	3,400	2,100	4,200	3,000	11,000	9,820	19,500	6,470	3,900	5,810	6,030	11,600
28	3,300	2,010	4,200	3,000	11,300	10,500	18,900	6,250	3,800	5,810	5,920	11,700
29	3,300	2,010	4,100	3,000	-	11,300	18,400	6,250	3,800	6,140	5,700	11,700
30	3,200	2,010	4,100	3,200	-	12,000	17,800	6,030	3,700	6,360	5,810	11,500
31	3,200	-	4,100	3,600	-	12,700	-	5,700	-	6,580	5,920	-

Discharge, in second-feet October to December 1937

Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.
1	11,300	5,920	5,400	11	11,100	4,500	4,600	21	8,860	5,500	4,100
2	11,000	5,700	5,300	12	10,900	4,600	4,600	22	8,620	5,600	4,100
3	11,000	5,600	5,300	13	10,800	4,500	4,500	23	8,260	5,700	4,100
4	11,100	5,400	5,200	14	10,500	4,600	4,500	24	8,020	5,700	4,100
5	11,300	5,400	5,100	15	10,300	4,700	4,400	25	7,680	5,700	4,200
6	11,300	5,100	5,000	16	10,100	4,700	4,400	26	7,350	5,700	4,300
7	11,300	5,000	4,900	17	9,940	4,800	4,300	27	7,130	5,600	4,400
8	11,300	4,900	4,800	18	9,700	4,900	4,300	28	6,800	5,600	4,400
9	11,300	4,700	4,700	19	9,460	5,100	4,200	29	6,580	5,500	4,500
10	11,300	4,600	4,700	20	9,220	5,300	4,200	30	6,250	5,400	4,500
								31	6,140	-	4,600

Discharge, in second-feet, of Suwannee River at Luraville, Fla., 1936-37

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	97,630	4,100	2,100	3,149	0.456	0.53
November	73,460	3,100	2,010	2,449	.355	.40
December	92,780	4,200	2,010	2,993	.434	.50
Calendar year 1936	1,929,850	13,900	2,010	5,273	.764	10.42
January 1937	105,700	4,000	3,000	3,410	.494	.57
February	218,070	11,300	3,900	7,788	1.13	1.18
March	309,500	12,700	7,130	9,984	1.45	1.67
April	576,900	23,300	13,700	19,230	2.79	3.11
May	360,770	17,300	5,700	11,640	1.69	1.95
June	132,900	5,600	3,700	4,430	.642	.72
July	136,810	6,580	3,400	4,413	.640	.74
August	207,350	7,570	5,700	6,704	.972	1.12
September	229,640	11,700	5,600	7,655	1.11	1.24
Water year 1936-37	2,541,990	23,300	2,010	6,964	1.01	13.73
October 1937	295,910	11,300	6,140	9,545	1.38	1.59
November	156,080	5,920	4,500	5,201	.754	.84
December	141,700	5,400	4,100	4,571	.662	.76
Calendar year 1937	2,871,780	23,300	3,000	7,868	1.14	15.42

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Suwannee River at Branford, Fla.

Location.- Wire-weight gage, lat. 29°57', long. 82°56', in sec. 17 or 20, T. 6 S., R. 14 E., on highway bridge in Branford. Zero of gage is 4.45 feet above mean sea level (unadjusted).

Drainage area.- 7,090 square miles.

Records available.- July 1931 to September 1937.

Extremes.- Maximum discharge observed during year, 22,700 second-feet Apr. 19-21; maximum gage height observed, 21.65 feet Apr. 20; minimum discharge observed, 2,470 second-feet Dec. 10 (gage height, 3.93 feet).

1931-37: Maximum discharge observed, 24,100 second-feet Mar. 1, 1933 (gage height, 21.96 feet); minimum observed, 1,760 second-feet on many days in December 1931 and January 1932; minimum gage height, 2.34 feet June 7, 1935.

Maximum stage known, 32.0 feet about Aug. 26, 1928, from floodmarks (discharge, 65,000 second-feet, from comparison of run-off with measured crest flow at station at Ellaville).

Remarks.- Records good. Gage read once daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

3.5	2,250	10.0	6,900
4.0	2,520	12.0	8,800
5.0	3,140	14.0	10,900
6.0	3,810	16.0	13,400
7.0	4,530	18.0	16,200
8.0	5,290	20.0	19,700
9.0	6,090	22.0	23,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,880	3,740	2,700	4,300	4,160	11,300	12,800	17,700	6,900	4,530	6,900	6,570
2	2,820	3,670	2,640	4,230	4,460	11,500	13,400	17,400	6,730	4,680	6,990	6,900
3	2,760	3,670	2,640	4,230	4,760	11,600	13,900	17,200	6,650	4,760	7,170	7,260
4	2,760	3,530	2,640	4,160	5,130	11,700	14,500	17,000	6,410	4,760	7,350	7,710
5	2,700	3,460	2,580	4,090	5,450	11,900	14,800	16,700	6,250	4,680	7,530	7,900
6	2,700	3,400	2,580	4,020	5,770	11,900	15,200	16,500	6,170	4,680	7,620	8,000
7	2,640	3,340	2,520	3,950	6,010	11,700	15,400	16,400	6,090	4,680	7,710	8,000
8	2,700	3,270	2,520	3,950	6,250	11,500	15,900	16,200	6,010	4,600	7,710	8,000
9	2,760	3,270	2,520	3,880	6,410	11,300	16,200	15,900	5,930	4,530	7,530	7,800
10	2,820	3,200	2,470	3,810	6,490	11,000	16,700	15,800	5,850	4,460	7,350	7,710
11	3,010	3,140	2,580	3,810	6,490	10,700	17,200	15,300	5,770	4,380	7,170	7,620
12	3,340	3,140	2,520	3,740	6,650	10,500	18,100	14,900	5,690	4,380	7,080	7,530
13	3,880	3,080	2,520	3,740	6,900	10,200	19,000	14,500	5,530	4,300	6,900	7,440
14	4,090	3,010	2,520	3,740	7,170	9,910	20,100	13,800	5,530	4,300	6,810	7,260
15	4,090	3,010	2,760	3,740	7,350	9,600	20,800	13,300	5,450	4,230	6,810	7,080
16	4,160	2,940	2,820	3,670	7,620	9,300	21,300	12,600	5,290	4,160	6,900	6,900
17	4,160	2,940	3,340	3,600	7,800	9,000	22,100	12,100	5,290	4,160	6,990	6,810
18	4,380	2,880	3,670	3,670	8,100	8,800	22,300	11,600	5,290	4,160	7,080	6,650
19	4,460	2,880	3,950	3,600	8,400	8,500	22,700	11,100	5,210	4,090	7,170	6,570
20	4,530	2,820	5,090	3,530	8,600	8,200	22,700	10,700	5,210	4,380	7,170	6,570
21	4,530	2,700	4,160	3,530	8,400	8,000	22,700	10,100	5,130	4,530	7,260	6,570
22	4,530	2,700	4,230	3,460	9,200	7,710	22,500	9,600	5,130	4,380	7,170	6,490
23	4,530	2,760	4,230	3,460	9,600	7,900	21,900	9,300	5,060	4,900	7,170	8,200
24	4,380	2,760	4,300	3,400	9,910	8,200	21,500	8,900	5,060	5,060	7,080	8,900
25	4,230	2,760	4,300	3,400	10,500	8,600	21,000	8,600	4,980	5,290	6,900	9,700
26	4,090	2,700	4,380	3,460	10,700	9,100	20,400	8,200	4,900	5,530	6,730	10,500
27	4,090	2,700	4,380	3,400	10,800	9,000	19,900	8,000	4,830	6,170	6,650	10,900
28	3,950	2,640	4,380	3,400	10,900	10,100	19,300	7,800	4,830	6,250	6,410	11,300
29	3,950	2,640	4,380	3,460	-	10,700	18,800	7,620	4,760	6,330	6,410	11,300
30	3,810	2,640	4,380	3,600	-	11,300	18,100	7,350	4,680	6,490	6,330	11,300
31	3,810	-	4,300	3,880	-	12,000	-	7,080	-	6,550	6,570	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	113,540	4,530	2,640	3,663	0.517	0.60
November	91,390	3,740	2,640	3,046	.430	.48
December	105,000	4,380	2,470	3,387	.478	.55
Calendar year 1936	2,141,900	14,200	2,470	5,852	.825	11.24
January	115,910	4,300	3,400	3,739	.527	.61
February	209,980	10,900	4,160	7,499	1.06	1.10
March	312,720	12,000	7,710	10,090	1.42	1.64
April	561,200	22,700	12,800	18,710	2.64	2.94
May	389,250	17,700	7,080	12,560	1.77	2.04
June	166,610	6,900	4,680	5,554	.783	.87
July	150,780	6,650	4,090	4,864	.686	.77
August	218,620	7,710	6,330	7,052	.995	1.15
September	241,440	11,300	6,490	8,048	1.14	1.27
Water year 1936-37	2,671,440	22,700	2,470	7,319	1.03	14.02

Suwannee River near Bell, Fla.

Location.- Water-stage recorder, lat. 29°48', long. 82°55', in sec. 17, T. 8 S., R. 14 E., at Rock Bluff Ferry, 4½ miles northwest of Bell and 10 miles below mouth of Santa Fe River. Zero of gage is 2.75 feet above mean sea level.

Drainage area.- 9,260 square miles.

Records available.- June 1932 to September 1937.

Extremes.- Maximum discharge during year, 24,800 second-feet Apr. 20-23; maximum gage height, 15.53 feet Apr. 22; minimum, 4,170 second-feet Dec. 9, 10, 13, 14; minimum gage height, 2.71 feet Dec. 14.

1932-37: Maximum discharge, that of Apr. 20-23, 1937; maximum gage height, that of Apr. 22, 1937; minimum discharge, 2,950 second-feet June 26, 28, 1935 (gage height, 1.25 feet).

Flood of 1928, with crest about Aug. 28, reached a stage of 25.9 feet, from flood-marks (discharge, 70,000 second-feet revised, from comparison of run-off with measured crest flow at station at Ellaville and addition of Santa Fe River inflow).

Remarks.- Records excellent above 7,000 second-feet and good below.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.5	3,990	6.0	7,650	12.0	16,000
3.0	4,440	7.0	8,850	13.0	17,900
3.5	4,940	8.0	10,200	14.0	20,300
4.0	5,440	9.0	11,500	15.0	23,200
4.5	5,990	10.0	12,900	16.0	26,500
5.0	6,540	11.0	14,400		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,840	5,680	4,540	6,320	6,210	14,200	14,600	21,200	9,760	6,870	9,110	9,240
2	4,740	5,880	4,540	6,210	6,430	14,400	15,200	20,600	9,630	6,980	9,370	9,630
3	4,640	5,770	4,540	6,210	6,760	14,400	15,700	20,300	9,370	6,980	9,500	10,200
4	4,540	5,660	4,440	6,100	7,090	14,600	16,400	20,100	9,110	6,980	9,760	10,800
5	4,540	5,440	4,260	5,990	7,420	14,700	16,700	19,800	8,980	6,870	9,690	11,200
6	4,540	5,340	4,260	5,990	7,650	14,700	17,300	19,800	8,850	6,870	10,200	11,400
7	4,540	5,240	4,350	5,880	8,010	14,700	17,500	19,600	8,610	6,870	10,200	11,400
8	4,640	5,240	4,260	5,770	8,370	14,600	17,900	19,300	8,610	6,760	10,200	11,400
9	4,740	5,240	4,260	5,770	8,610	14,400	18,400	19,100	8,370	6,760	10,200	11,200
10	4,940	5,240	4,260	5,770	8,850	14,100	18,900	18,900	8,370	6,650	9,890	11,100
11	5,240	5,040	4,260	5,660	8,730	13,800	19,300	18,400	8,250	6,540	9,760	10,800
12	5,340	5,040	4,350	5,660	8,730	13,600	19,800	17,900	8,130	6,540	9,630	10,700
13	5,660	5,040	4,260	5,660	9,110	13,400	20,600	17,500	8,010	6,430	9,500	10,500
14	6,100	4,940	4,260	5,660	9,370	13,000	21,500	17,100	8,010	6,430	9,370	10,300
15	6,320	4,940	4,540	5,660	9,630	12,800	22,300	16,500	7,890	6,320	9,240	10,000
16	6,320	4,840	4,640	5,550	9,890	12,500	22,900	16,000	7,770	6,320	9,240	9,890
17	6,430	4,740	4,940	5,440	10,200	12,100	23,500	15,500	7,650	6,320	9,370	9,760
18	6,540	4,740	5,340	5,550	10,400	11,800	24,200	14,900	7,650	6,320	9,500	9,630
19	6,650	4,740	5,770	5,440	10,700	11,500	24,500	14,400	7,650	6,540	9,630	9,500
20	6,760	4,640	5,880	5,440	11,100	11,200	24,500	14,000	7,530	6,760	9,760	9,370
21	6,870	4,640	5,880	5,340	11,500	10,900	24,800	13,400	7,530	7,090	9,760	9,370
22	6,870	4,640	6,100	5,340	11,800	10,700	24,800	12,900	7,530	7,420	9,630	9,630
23	6,870	4,640	6,100	5,340	12,100	10,500	24,500	12,500	7,420	7,650	9,630	10,400
24	6,760	4,540	6,100	5,340	12,600	10,700	24,500	12,100	7,310	7,890	9,500	11,200
25	6,650	4,640	6,210	5,340	13,000	11,100	24,200	11,600	7,200	8,130	9,370	12,100
26	6,430	4,640	6,210	5,340	13,500	11,500	23,900	11,400	7,200	8,250	9,240	12,800
27	6,320	4,540	6,320	5,340	13,600	11,900	23,200	10,900	7,090	8,370	9,110	13,400
28	6,210	4,440	6,430	5,240	14,100	12,300	22,600	10,700	7,090	8,490	8,850	13,800
29	6,100	4,440	6,430	5,240	-	12,800	22,000	10,500	7,090	8,610	8,730	14,000
30	5,990	4,440	6,320	5,440	-	13,400	21,800	10,300	6,980	8,730	8,730	14,100
31	5,880	-	6,320	5,770	-	14,000	-	10,000	-	8,980	8,980	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	179,010	6,870	4,540	5,775	0.624	0.72
November	149,130	5,880	4,440	4,971	.537	.60
December	160,370	6,430	4,260	5,173	.559	.64
Calendar year 1936	2,899,990	16,200	4,260	7,923	.856	11.65
January	174,800	6,320	5,240	5,639	.609	.70
February	275,460	14,100	6,210	9,838	1.06	1.10
March	400,300	14,700	10,500	12,910	1.39	1.60
April	628,000	24,800	14,600	20,930	2.26	2.52
May	487,200	21,200	10,000	15,720	1.70	1.96
June	240,640	9,760	6,980	8,021	.866	.97
July	222,720	8,980	6,320	7,185	.776	.89
August	294,850	10,200	8,730	9,511	1.03	1.19
September	328,820	14,100	9,240	10,960	1.18	1.32
Water year 1936-37	3,541,300	24,800	4,260	9,702	1.05	14.21

Alapaha River near Alapaha, Ga.

Location.- Staff gage, lat. 31°23', long. 83°10', at bridge on State Highway 50, 2 miles east of Alapaha, Berrien County, and 6 miles above Willacoochee River.

Drainage area.- 644 square miles.

Records available.- April to September 1937.

Extremes.- Maximum discharge observed during period, 1,050 second-feet July 31 (gage height, 10.02 feet); minimum, 23 second-feet June 18 (gage height, 0.42 foot).

Remarks.- Records fair. Discharge for period of doubtful gage heights, May 17-30, computed on basis of one discharge measurement and records for Alapaha River at Statenville and Satilla River near Waycross and at Atkinson. Gage read twice daily.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Apr. 26 to July 29		July 30 to Sept. 30	
0.4	23	2.0	60
.7	32	2.5	92
1.0	42	3.0	128
1.5	63	4.0	212
2.0	88	6.0	440
3.0	151	8.0	730
4.0	229	10.0	1,050
6.0	445		
8.0	730		
10.0	1,050		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	858	46	137	954	730
2							-	858	44	137	874	874
3							-	986	44	124	762	922
4							-	1,020	44	124	730	890
5							-	1,020	44	204	666	858
6							-	1,020	46	247	621	762
7							-	1,030	42	212	563	698
8							-	1,020	38	172	466	549
9							-	970	36	204	340	440
10							-	906	36	348	316	340
11							-	746	36	535	241	251
12							-	621	34	591	176	194
13							-	591	32	651	152	160
14							-	535	29	563	221	128
15							-	419	28	606	212	99
16							-	305	26	746	168	78
17							-	240	24	730	144	63
18							-	200	32	730	231	78
19							-	160	100	698	261	69
20							-	130	196	666	221	212
21							-	100	188	606	352	376
22							-	88	151	535	376	241
23							-	75	118	535	414	176
24							-	62	100	666	414	241
25							-	54	94	698	388	251
26							577	52	106	842	352	212
27							577	48	100	938	272	160
28							778	46	88	1,000	203	113
29							810	45	124	1,050	203	78
30							906	45	144	1,050	588	64
31							-	48	-	986	621	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April 26-30	3,648	906	577	730	1.13	0.21
May	14,298	1,030	45	461	.716	.83
June	2,170	196	24	72.3	.112	.12
July	17,331	1,050	124	559	.868	1.00
August	12,302	954	144	397	.616	.71
September	10,289	922	63	343	.533	.59
Water year						

Alapaha River at Statenville, Ga.

Location.- Staff gage, lat. 30°40', long. 83°01', at bridge on State Highway 94, a quarter of a mile west of Statenville, Echols County.

Drainage area.- 1,400 square miles, revised.

Records available.- January to June 1921, December 1931 to September 1937.

Extremes.- Maximum discharge observed during water year 1935-36, 4,900 second-feet Feb. 19 (gage height, 18.5 feet); minimum, 33 second-feet Nov. 20.
Maximum discharge observed during water year 1936-37, 6,560 second-feet Apr. 14 (gage height, 22.84 feet); minimum, 55 second-feet Oct. 9.
1921, 1931-37: Maximum discharge observed, that of Apr. 14, 1937; minimum, 17 second-feet Dec. 21, 28-31, 1931.
Maximum stage known, 28.5 feet Apr. 30 or May 1, 1928 (discharge not determined, previously published figure believed in error).

Remarks.- Records good except those below 500 second-feet, which are fair. Gage read twice daily.

Rating table, water years 1935-37 (gage height, in feet, and discharge, in second-feet) (Shifting-control method used Oct. 1, 1935 to Feb. 10, 1936, Aug. 17 to Nov. 5, 1936)

1.3	28
1.6	63
2.0	123
2.5	215
3.0	320
4.0	544
6.0	1,030
9.0	1,840
12.0	2,720
15.0	3,680
19.0	5,080
23.0	6,640

Discharge, in second-feet, 1935-37

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	980	78	88	215	2,090	3,990	1,450	2,600	364	140	544	544
2	805	76	83	235	2,090	3,580	1,510	2,510	320	132	1,450	498
3	660	76	77	320	2,090	3,170	1,560	2,630	277	107	2,180	408
4	590	76	73	320	2,060	2,780	1,870	2,540	277	92	2,360	364
5	544	73	74	364	2,240	2,480	1,920	2,180	266	92	1,980	298
6	475	70	76	364	2,360	2,330	2,010	1,870	298	92	1,840	277
7	408	70	78	430	3,170	2,180	2,180	1,450	298	86	1,810	266
8	364	70	86	475	3,490	2,120	2,450	1,260	298	83	1,760	256
9	342	70	92	498	3,550	2,120	2,720	1,130	277	80	1,560	215
10	320	67	92	590	3,710	2,180	2,910	1,000	320	77	1,400	195
11	296	67	100	732	3,650	2,180	3,200	880	266	74	1,420	186
12	277	67	92	780	3,580	2,180	3,230	732	235	69	1,510	176
13	266	92	115	855	3,620	1,670	3,230	590	225	69	1,840	186
14	256	140	115	955	3,950	2,010	3,170	544	215	86	2,210	186
15	246	115	115	1,130	4,190	1,900	3,140	475	215	92	2,690	186
16	235	54	123	1,290	4,500	1,810	3,170	430	215	86	2,720	167
17	225	40	115	1,400	4,720	1,780	3,590	408	195	92	2,690	158
18	186	37	123	1,510	4,860	1,670	3,710	386	186	140	2,420	140
19	176	35	115	1,620	4,900	1,640	4,120	386	176	140	1,900	132
20	158	33	115	1,760	4,720	1,620	4,360	364	567	149	1,590	123
21	158	37	107	1,900	4,540	1,620	4,500	364	590	195	1,530	123
22	140	43	132	2,010	4,580	1,450	4,430	342	544	195	1,590	107
23	140	62	167	2,060	4,580	1,450	4,190	320	430	186	1,620	107
24	140	76	186	2,040	4,610	1,480	3,820	277	342	176	1,700	107
25	132	78	186	2,010	4,650	1,480	3,300	256	298	195	1,640	90
26	107	73	176	1,900	4,650	1,480	2,690	235	215	176	1,510	83
27	92	70	176	1,920	4,680	1,450	2,510	225	195	167	1,340	77
28	89	76	176	1,900	4,650	1,420	2,510	225	186	132	1,080	74
29	86	92	186	1,900	4,430	1,420	2,600	320	167	123	905	71
30	77	88	195	1,900	-	1,400	2,600	452	149	92	780	74
31	77	-	205	2,040	-	1,450	-	430	-	115	636	-

Discharge, in second-feet, of Alapaha River at Statenville, Ga., 1935-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71	498	100	1,080	1,420	3,460	5,610	2,060	298	235	2,330	955
2	73	452	107	1,060	1,670	3,620	5,460	1,950	266	205	2,510	756
3	63	408	100	1,030	1,980	3,710	5,190	2,060	246	235	2,750	905
4	73	342	100	980	2,270	3,680	4,860	2,180	215	521	2,820	955
5	69	298	92	905	2,600	3,490	4,500	2,210	205	475	2,600	1,030
6	63	277	90	805	2,690	3,230	5,840	2,240	205	408	2,270	1,080
7	59	266	88	732	2,750	3,010	6,120	2,360	205	386	1,950	1,190
8	58	246	83	708	3,040	2,820	5,760	2,360	235	430	1,620	1,240
9	55	235	84	684	2,910	2,600	5,840	2,360	195	430	1,530	1,450
10	62	215	92	684	2,720	2,390	6,040	2,270	176	386	1,510	1,700
11	1,730	195	86	684	3,260	2,210	6,160	2,150	176	364	1,290	1,590
12	980	186	76	684	3,170	2,010	6,280	2,060	186	320	1,110	1,290
13	521	176	132	684	3,170	1,810	6,440	2,010	176	342	1,340	1,290
14	408	167	195	660	3,200	1,640	6,560	1,900	195	408	1,290	1,290
15	320	158	613	636	3,100	1,530	6,520	1,810	176	521	1,240	1,030
16	408	140	880	660	3,040	1,420	6,320	1,510	167	636	1,030	830
17	342	132	780	636	3,040	1,290	5,920	1,240	158	830	980	613
18	567	132	780	636	3,040	1,260	5,500	1,030	176	1,030	1,000	498
19	732	123	805	613	3,040	1,190	5,120	855	277	1,190	780	430
20	955	123	805	590	2,940	1,130	4,650	708	215	1,320	756	430
21	1,060	115	780	567	2,940	1,620	4,020	613	186	1,370	732	1,510
22	1,110	115	780	544	3,420	2,240	3,330	544	176	1,400	805	2,060
23	544	107	780	544	3,360	2,720	2,720	544	215	1,450	780	2,180
24	498	115	805	521	3,170	3,360	2,300	544	235	1,340	732	2,040
25	521	115	880	498	3,170	3,490	2,010	544	298	1,160	708	1,870
26	544	107	930	498	2,850	3,490	1,840	544	277	780	660	1,320
27	590	100	980	475	2,850	3,820	1,640	475	266	1,730	805	1,060
28	590	92	1,000	567	3,300	4,430	1,530	386	235	1,840	805	880
29	590	89	1,080	805	-	4,900	1,340	364	225	2,040	780	732
30	567	92	1,080	1,030	-	5,310	1,640	320	266	2,240	880	636
31	544	-	1,080	1,240	-	5,570	-	298	-	2,210	1,210	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1935	9,019	980	77	291	0.208	0.24
November	2,101	140	33	70.0	.050	.06
December	3,839	205	73	124	.089	.10
Calendar year 1935	166,698	3,440	32	457	.326	4.45
January 1936	37,423	2,060	215	1,207	.862	.99
February	110,910	4,900	2,060	3,824	2.73	2.94
March	61,690	3,990	1,400	1,990	1.42	1.64
April	88,450	4,500	1,450	2,948	2.11	2.35
May	27,811	2,630	225	897	.641	.74
June	8,606	590	149	287	.205	.23
July	3,730	195	69	120	.086	.10
August	52,205	2,720	544	1,684	1.20	1.38
September	5,874	544	71	196	.140	.16
Water year 1935-36	411,658	4,900	33	1,125	.804	10.93
October 1936	14,767	1,730	55	476	.340	.39
November	5,816	498	89	194	.139	.16
December	16,263	1,080	76	525	.375	.43
Calendar year 1936	433,545	4,900	55	1,185	.846	11.51
January 1937	22,440	1,240	475	724	.517	.60
February	80,110	3,420	1,420	2,861	2.04	2.12
March	88,450	5,570	1,130	2,853	2.04	2.35
April	137,060	6,560	1,340	4,569	3.26	3.64
May	42,499	2,360	298	1,371	.979	1.13
June	8,527	298	158	218	.156	.17
July	28,232	2,240	205	911	.651	.75
August	41,603	2,820	660	1,342	.959	1.11
September	34,640	2,180	430	1,155	.825	.92
Water year 1936-37	518,407	6,560	55	1,420	1.01	13.77

Note.- Records for water year 1935-36 supersede those published in Water-Supply Paper 802.

Withlacoochee River near Pinetta, Fla.

Location.- Chain gage, lat. 30°36', long. 83°16', in sec. 6, T. 2 N., R. 11 E., on highway bridge, a quarter of a mile west of Bellville and 5 miles east of Pinetta.

Drainage area.- 2,220 square miles.

Records available.- December 1931 to September 1937.

Extremes.- Maximum discharge during year, 14,900 second-feet Apr. 14 (gage height, 28.32 feet, from observed crest reading verified by floodmarks); minimum observed, 144 second-feet Oct. 3 (gage height, 6.80 feet).

1931-37: Maximum discharge, that of Apr. 14, 1937; minimum observed, 94 second-feet Nov. 26, Dec. 2, 3, 1934 and Jan. 2, 1935 (gage height, 6.50 feet).

Maximum stage known, 36.75 feet in August 1928, from floodmarks (discharge, 35,000 second-feet, computed on basis of records for station near Blue Springs, Ga.).

Remarks.- Records good. Gage record for missing period, Oct. 4-6, computed from precipitation record and by comparison with Suwannee River at Ellaville, Fla. Gage read to hundredths once a day.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 15-29, May 18 to July 21, Aug. 9-14, Aug. 25 to Sept. 2, and Sept. 8-20)

6.8	144	9.0	1,240	14.0	4,690	24.0	11,300
7.0	191	10.0	1,930	16.0	6,060	26.0	12,800
7.5	361	11.0	2,620	18.0	7,390	28.0	14,600
8.0	599	12.0	3,310	20.0	8,700	29.0	15,600
8.5	899	13.0	4,000	22.0	10,000		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	205	302	178	964	2,480	6,260	10,900	3,030	428	626	1,520	1,100
2	178	302	191	834	3,030	6,460	10,700	3,590	428	769	1,450	1,100
3	159	302	205	802	3,660	6,400	10,100	4,480	428	626	1,520	1,240
4	148	283	205	769	4,480	5,860	9,350	5,100	428	499	1,650	1,790
5	144	266	191	739	4,830	5,310	8,500	5,720	428	428	1,520	1,650
6	165	249	191	739	4,900	4,210	7,980	5,450	499	405	1,380	1,520
7	234	249	191	709	4,830	3,240	7,520	5,240	475	361	1,240	1,240
8	234	234	191	709	4,280	2,900	7,260	5,100	475	321	1,170	964
9	341	234	205	739	3,860	2,550	6,930	5,040	475	302	964	802
10	341	219	205	739	3,310	2,280	7,590	4,140	475	341	709	802
11	834	219	219	739	3,860	2,140	10,200	3,380	499	361	626	739
12	1,100	205	234	739	4,070	1,930	12,600	2,550	499	405	682	626
13	1,030	205	266	739	4,140	1,720	14,600	1,930	475	428	802	626
14	1,030	205	321	682	4,690	1,650	14,700	1,520	428	451	964	574
15	1,030	205	654	654	4,900	1,650	13,400	1,380	405	451	1,170	524
16	1,100	191	1,450	626	5,450	1,380	11,600	1,310	383	475	1,240	383
17	1,100	191	1,520	682	5,920	1,310	10,300	1,170	361	574	1,450	234
18	1,170	191	1,580	654	6,190	1,170	8,700	1,100	405	739	1,580	249
19	1,170	178	1,720	626	6,660	1,170	7,320	964	451	1,030	1,580	266
20	1,170	178	1,790	626	6,530	1,170	5,720	834	428	1,030	1,450	682
21	1,170	178	1,790	599	5,860	1,380	3,590	769	428	1,170	1,450	3,170
22	1,030	178	1,790	574	5,100	2,210	2,480	654	383	1,170	1,310	3,930
23	899	165	1,720	549	4,830	2,900	2,000	626	361	1,240	1,240	4,410
24	709	165	1,580	549	4,620	3,720	1,790	654	361	1,240	1,170	5,790
25	524	165	1,520	524	4,620	5,040	2,000	599	341	1,310	1,030	6,190
26	499	178	1,450	549	4,760	6,260	2,550	574	321	1,240	899	5,860
27	451	178	1,450	654	5,310	6,860	2,690	524	302	1,310	769	5,170
28	405	165	1,380	802	5,860	7,320	2,550	524	302	1,380	709	4,340
29	383	165	1,240	1,030	-	7,790	2,620	499	302	1,450	769	2,830
30	341	165	1,170	1,450	-	9,220	2,620	475	475	1,380	739	2,340
31	321	-	1,100	2,000	-	10,300	-	475	-	1,380	834	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	19,615	1,170	144	633	0.285	0.33
November	6,310	302	165	210	.095	.11
December	27,897	1,790	178	900	.405	.47
Calendar year 1936	647,121	8,240	144	1,768	.796	10.85
January	23,790	2,000	524	767	.345	.40
February	133,030	6,660	2,480	4,751	2.14	2.23
March	123,760	10,300	1,170	3,992	1.80	2.08
April	220,860	14,700	1,790	7,362	3.32	3.70
May	69,401	5,720	475	2,239	1.01	1.16
June	12,499	499	302	415	.187	.21
July	24,892	1,450	302	803	.362	.42
August	35,586	1,650	626	1,148	.517	.60
September	61,141	6,190	234	2,038	.918	1.02
Water year 1936-37	758,731	14,700	144	2,079	.936	12.73

Santa Fe River at Worthington, Fla.

Location.- Staff gage, lat. 29°55', long. 82°28', in sec. 32, T. 8 S., R. 19 E., at bridge on State Highway 49, a quarter of a mile south of Worthington and 1 mile revised, below mouth of New River. Zero of gage is 42.91 feet above mean sea level.

Records available.- November 1931 to September 1937.

Extremes.- Maximum discharge during year 8,780 second-feet Sept. 1 (gage height, 21.36 feet, from crest marked by observer); minimum observed, 5.7 second-feet Oct. 6, 7 (gage height, 7.29 feet).
1931-37: Maximum discharge, 17,500 second-feet June 17, 1934 (gage height, 24.83 feet, from floodmarks); minimum observed, 1.3 second-feet May 17, June 1, 1932; minimum gage height observed, 7.03 feet June 15, 1935.

Remarks.- Records good. Gage read once daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

7.2	4.2	10.0	220	17.0	1,850
7.4	8.0	11.0	333	18.0	2,840
7.6	14	12.0	455	19.0	4,200
7.8	23	13.0	595	20.0	5,940
8.0	36	14.0	772	21.0	7,900
8.5	71	15.0	1,000	22.0	10,200
9.0	115	16.0	1,310		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	135	43	57	1,230	1,130	493	264	43	18	493	†7,900
2	7.0	125	60	57	1,100	1,000	521	*264	37	17	507	†6,510
3	6.7	105	57	54	1,000	878	507	264	43	18	453	†3,680
4	6.3	87	57	57	831	752	*595	284	44	*16	405	2,170
5	5.9	83	57	57	751	661	811	264	42	16	381	1,600
6	5.7	79	49	57	595	611	1,160	242	*50	12	381	1,310
7	5.7	71	49	54	565	*535	1,780	220	79	12	381	1,160
8	7.2	71	43	50	479	479	1,990	198	64	12	333	900
9	14	68	43	49	453	429	2,080	178	50	11	264	697
10	29	64	44	49	493	381	2,370	145	43	11	209	565
11	381	64	45	50	466	357	2,260	130	40	12	*198	507
12	580	64	46	49	507	321	1,850	115	92	11	*209	453
13	493	64	43	46	535	264	1,490	100	*75	11	*231	417
14	453	64	46	64	627	264	1,230	155	64	10	242	507
15	429	60	115	79	975	253	1,050	135	50	10	231	627
16	453	57	198	96	1,160	242	853	115	43	11	231	611
17	479	46	176	*92	1,080	220	697	105	36	11	220	595
18	507	43	155	71	1,130	209	565	96	29	*16	176	535
19	535	41	145	71	1,130	198	479	92	30	22	155	345
20	521	41	125	64	1,160	*176	405	79	*30	71	145	507
21	507	39	105	60	1,190	165	357	75	32	71	135	595
22	479	32	96	57	1,850	155	309	71	28	60	*145	661
23	453	35	87	54	2,840	145	286	*68	25	155	155	1,440
24	429	35	79	60	4,600	135	264	64	22	309	155	1,540
25	357	32	79	71	4,130	145	253	60	20	357	145	1,490
26	309	31	71	96	1,990	165	242	57	18	393	130	*1,350
27	242	29	68	405	1,660	264	220	54	*16	345	120	1,080
28	198	28	64	791	1,310	333	209	50	13	321	165	697
29	176	29	64	1,490	-	455	198	48	14	253	†248	595
30	155	32	60	1,490	-	466	253	*50	16	231	†393	661
31	135	-	60	1,310	-	493	-	54	-	333	†1,720	-

Month	Second-feet-days	Maximum	Minimum	Mean
October	8,385.7	580	5.7	270
November	1,754	135	28	58.5
December	2,429	198	43	78.4
Calendar year 1936	76,998.9	1,780	5.1	211
January	7,107	1,490	46	229
February	35,837	4,600	455	1,280
March	12,275	1,130	135	396
April	23,707	2,370	198	857
May	4,074	264	48	131
June	1,188	92	13	39.6
July	3,156	393	10	102
August	9,350	1,720	120	302
September	41,705	7,900	345	1,390
Water year 1936-37	152,947.7	7,900	5.7	419

*Gage not read; discharge determined from graph based on reading for preceding and for following day.
†Discharge computed from graph constructed on basis of once-daily gage readings.

Santa Fe River near High Springs, Fla.

Location.- Water-stage recorder, lat. 29°51', long. 82°37', in sec. 29, T. 7 S., R. 17 E., at bridge on State Highway 5A, 150 feet upstream from Atlantic Coast Line Railroad bridge and 2 miles northwest of High Springs. Zero of gage is 25.78 feet above mean sea level.

Records available.- January 1931 to September 1937.

Extremes.- Maximum discharge during year, 3,330 second-feet Sept. 4, 5; maximum gage height, 7.00 feet Sept. 4; minimum discharge, 253 second-feet Oct. 4, 5; minimum gage height, 1.62 feet Jan. 24, 25.
1931-37: Maximum discharge, 11,800 second-feet June 18, 1934 (gage height, 14.90 feet); minimum, 71 second-feet about June 27, 1935 (gage height, 0.46 foot).

Remarks.- Records good.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	257	626	316	344	1,100	2,520	874	928	524	391	577	1,280
2	257	601	308	348	1,180	2,220	901	956	519	386	656	2,340
3	257	577	308	344	1,180	2,040	958	956	519	382	743	3,000
4	253	562	292	332	1,150	1,920	1,010	956	510	382	821	3,330
5	253	538	292	324	1,100	1,800	1,070	956	500	382	848	3,200
6	257	519	304	324	1,040	1,680	1,180	928	491	374	848	2,940
7	257	514	308	320	983	1,560	1,380	901	486	369	821	2,640
8	257	505	292	320	956	1,470	1,740	901	491	365	795	2,340
9	257	496	288	316	901	1,350	2,040	848	491	353	769	2,100
10	277	477	292	312	874	1,260	2,220	848	481	344	743	1,920
11	304	463	296	312	821	1,180	2,400	795	477	344	743	1,740
12	353	463	292	312	848	1,120	2,520	769	472	344	692	1,620
13	510	444	280	308	928	1,070	2,460	769	472	340	666	1,440
14	666	435	288	304	983	1,010	2,340	743	486	336	646	1,320
15	692	426	316	308	1,040	956	2,220	717	496	340	661	1,290
16	717	391	320	312	1,180	901	2,100	717	486	336	692	1,290
17	743	391	340	320	1,260	848	1,920	692	472	332	717	1,290
18	769	391	357	320	1,350	848	1,740	692	467	336	743	1,240
19	901	378	382	304	1,380	795	1,620	692	454	344	743	1,210
20	1,010	374	378	296	1,380	769	1,500	666	449	348	717	1,150
21	1,040	369	391	296	1,440	743	1,380	641	449	353	692	1,150
22	1,040	348	391	292	1,500	717	1,290	626	449	361	661	1,120
23	1,010	332	391	284	1,980	692	1,210	611	444	374	626	1,180
24	983	332	386	269	2,340	692	1,150	606	435	386	596	1,350
25	956	336	382	269	2,580	661	1,120	596	417	444	577	1,620
26	928	324	378	288	2,760	651	1,070	577	417	500	553	1,740
27	848	304	369	304	2,760	566	1,010	567	417	529	548	1,800
28	795	296	365	361	2,640	892	983	577	413	553	533	1,740
29	743	304	361	486	-	743	956	572	422	567	529	1,680
30	692	304	357	717	-	795	928	548	404	567	562	1,620
31	656	-	348	956	-	848	-	533	-	567	743	-

Month	Second-foot-days	Maximum	Minimum	Mean
October	18,938	1,040	253	611
November	12,820	626	296	427
December	10,368	391	280	334
Calendar year 1936	217,528	1,490	253	594
January	10,902	956	269	352
February	39,634	2,760	821	1,416
March	35,217	2,520	651	1,138
April	45,288	2,520	874	1,510
May	22,884	956	533	738
June	14,010	524	404	467
July	12,329	567	332	398
August	21,261	848	529	686
September	53,680	3,330	1,120	1,789
Water year 1936-37	297,331	3,330	253	815

Santa Fe River near Fort White, Fla.

Location.- Water-stage recorder, lat. 29°51', long. 82°42', in sec. 28, T. 7 S., R. 16 E., 2 miles upstream from county highway bridge on road between Williford and Fort White and 4 miles south of Fort White. Zero of gage is 21.28 feet above mean sea level.

Records available.- October 1927 to January 1930, June 1932 to September 1937.

Extremes.- Maximum discharge during year, 3,620 second-feet Sept. 4-6; maximum gage height, 4.43 feet Sept. 5; minimum discharge, 1,020 second-feet Oct. 3-5, Jan. 24, 25; minimum gage height, 0.98 foot Jan. 24, 25.
1927-30, 1932-37: Maximum discharge, 11,400 second-feet June 20, 1934 (gage height, 11.04 feet); minimum, 670 second-feet June 4, 5, 1932; minimum gage height, 0.58 foot June 26-28, July 5, 1935.

Remarks.- Records excellent except those for April, which were affected by backwater from Suwannee River, and are good.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,030	1,400	1,070	1,070	1,620	3,180	1,660	1,990	1,360	1,220	1,360	1,770
2	1,030	1,360	1,070	1,070	1,700	2,950	1,700	1,990	1,330	1,220	1,400	2,510
3	1,020	1,330	1,070	1,070	1,730	2,810	1,730	1,990	1,330	1,220	1,470	3,100
4	1,020	1,330	1,070	1,070	1,730	2,660	1,770	1,990	1,330	1,220	1,510	3,550
5	1,020	1,290	1,070	1,070	1,730	2,580	1,880	1,920	1,330	1,180	1,550	3,620
6	1,030	1,290	1,070	1,070	1,700	2,510	1,990	1,920	1,330	1,180	1,550	3,550
7	1,030	1,250	1,070	1,070	1,660	2,360	2,140	1,880	1,290	1,180	1,550	3,320
8	1,030	1,250	1,070	1,070	1,620	2,290	2,440	1,880	1,290	1,180	1,550	3,100
9	1,030	1,250	1,030	1,030	1,580	2,140	2,730	1,840	1,290	1,180	1,550	2,880
10	1,070	1,220	1,070	1,030	1,580	2,070	2,950	1,770	1,290	1,180	1,550	2,730
11	1,100	1,220	1,070	1,030	1,550	1,990	3,100	1,730	1,290	1,180	1,510	2,510
12	1,140	1,220	1,030	1,030	1,550	1,920	3,250	1,700	1,290	1,180	1,510	2,360
13	1,250	1,180	1,030	1,030	1,580	1,840	3,250	1,660	1,290	1,180	1,470	2,210
14	1,400	1,180	1,030	1,030	1,660	1,810	3,180	1,620	1,290	1,180	1,470	2,140
15	1,440	1,180	1,070	1,030	1,700	1,770	3,030	1,580	1,290	1,180	1,470	2,070
16	1,470	1,140	1,070	1,030	1,770	1,700	2,880	1,580	1,290	1,180	1,510	2,070
17	1,470	1,140	1,070	1,030	1,840	1,660	2,730	1,550	1,250	1,180	1,550	2,070
18	1,510	1,140	1,100	1,030	1,920	1,620	2,580	1,550	1,250	1,140	1,550	2,070
19	1,580	1,140	1,100	1,030	1,990	1,620	2,440	1,510	1,250	1,180	1,550	1,990
20	1,700	1,140	1,100	1,030	1,990	1,580	2,290	1,510	1,250	1,180	1,550	1,990
21	1,730	1,140	1,100	1,030	2,070	1,550	2,140	1,470	1,250	1,180	1,510	1,990
22	1,730	1,100	1,140	1,030	2,140	1,510	2,140	1,470	1,250	1,180	1,470	1,990
23	1,730	1,100	1,100	1,030	2,360	1,510	2,140	1,440	1,250	1,180	1,470	1,990
24	1,700	1,100	1,100	1,020	2,730	1,510	2,140	1,440	1,250	1,220	1,440	2,070
25	1,660	1,100	1,100	1,020	3,030	1,510	2,140	1,440	1,250	1,250	1,440	2,290
26	1,620	1,070	1,100	1,070	3,180	1,470	2,070	1,400	1,220	1,290	1,400	2,440
27	1,580	1,070	1,100	1,070	3,320	1,510	2,070	1,400	1,220	1,330	1,400	2,510
28	1,550	1,070	1,100	1,100	3,250	1,510	2,070	1,400	1,220	1,330	1,400	2,510
29	1,510	1,070	1,100	1,180	-	1,550	2,070	1,400	1,220	1,360	1,400	2,510
30	1,470	1,070	1,100	1,360	-	1,580	2,070	1,360	1,220	1,360	1,400	2,440
31	1,440	-	1,100	1,510	-	1,660	-	1,360	-	1,330	1,550	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	42,090	1,730	1,020	1,358		
November	35,540	1,400	1,070	1,185		
December	33,470	1,140	1,030	1,080		
Calendar year 1936	476,900	2,070	1,020	1,303		
January	33,340	1,510	1,020	1,075		
February	56,280	3,320	1,550	2,010		
March	59,930	3,180	1,470	1,933		
April	70,770	3,250	1,660	2,359		
May	50,740	1,990	1,360	1,637		
June	38,260	1,360	1,220	1,275		
July	37,730	1,360	1,140	1,217		
August	46,060	1,550	1,360	1,486		
September	74,350	3,620	1,770	2,478		
Water year 1936-37	578,560	3,620	1,020	1,585		

Ichatucknee Springs near Hildreth, Fla.

Location.- Lat. 29°58', long. 82°47', in sec. 23, T. 6 S., R. 15 E., at bridge on State Highway 5A 1 mile east of Hildreth and about 2 miles above junction with Santa Fe River.

Records available.- Discharge measurements from January 1931 to September 1937. Single measurements only during 1917, 1929-30.

Extremes.- Maximum discharge measured during year, 407 second-feet May 20; minimum, 308 second-feet Dec. 21.
1931-37: Maximum discharge measured, 428 second-feet Mar. 14, 1931; minimum, 243 second-feet Aug. 20, 1935.

Remarks.- Discharge measurements made about monthly at highway bridge about 4 miles below head of springs.

Discharge measurements, in second-feet, water year October 1936 to September 1937

Oct. 13	320
Nov. 17	327
Dec. 21	308
Jan. 19	326
Feb. 9	323
Apr. 23	399
May 20	407
June 22	366
July 20	379
Aug. 20	374
Sept.24	344

Ochlockonee River near Havana, Fla.

Location.- Wire-weight gage, lat. 30°33', long. 84°19', in sec. 24, T. 2 N., R. 2 W., at bridge on State Highway 1, three-quarters of a mile above Georgia, Florida & Alabama Railway bridge and 5 miles southeast of Havana.

Drainage area.- 1,020 square miles.

Records available.- December 1928 to September 1937.

Extremes.- Maximum discharge during year, 10,100 second-feet Sept. 24 (gage height, 28.42 feet, from floodmarks and observer's reading on crest); minimum observed, 150 second-feet Nov. 24-26, 28; minimum gage height, 12.69 feet Nov. 28.

1928-37: Maximum discharge, 15,300 second-feet, revised from Mar. 19, 1929, (gage height, 30.3 feet), from rating curve extended above 10,000 second-feet; minimum, 24 second-feet Nov. 14, 15, 17, 1933; minimum gage height, 11.51 feet Oct. 31, Nov. 2, 3, 1934.

Maximum stage known, 31.7 feet Aug. 17 or 18, 1928, from floodmarks on concrete bridge. (discharge, 19,500 second-feet, from rating curve extended above 10,000 second-feet).

Remarks.- Records good. Gage read once daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

12.7	150	22.0	2,600
13.0	195	24.0	3,700
14.0	352	26.0	5,600
16.0	770	28.0	9,100
18.0	1,270	29.0	11,500
20.0	1,850		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	195	255	165	556	1,990	4,020	6,200	1,470	225	370	985	3,340
2	255	255	195	598	2,160	3,400	5,270	1,700	240	352	1,060	4,610
3	472	225	225	682	2,280	2,700	4,500	2,320	225	370	1,300	5,160
4	410	225	271	640	2,320	2,160	3,640	2,600	225	390	1,220	4,500
5	287	225	303	577	2,160	1,820	3,340	3,100	240	335	1,170	3,780
6	255	225	352	535	1,790	1,610	2,950	3,400	640	255	960	2,600
7	240	210	390	514	1,440	1,440	2,950	3,520	793	240	661	1,440
8	225	210	390	493	1,220	1,300	3,100	3,400	704	225	472	960
9	271	210	370	493	1,090	1,220	3,700	2,900	619	195	390	770
10	410	210	370	493	1,670	1,140	4,020	2,160	514	195	410	704
11	1,520	195	410	493	2,200	1,060	4,500	1,550	410	180	430	640
12	1,820	195	430	493	2,560	985	5,050	1,170	430	165	493	556
13	2,060	195	410	472	3,000	935	5,490	1,040	430	240	911	514
14	2,280	195	390	430	3,400	863	5,490	863	472	704	1,110	451
15	2,200	180	472	410	3,700	816	4,940	793	661	1,300	1,240	430
16	1,920	195	682	390	3,860	816	4,020	748	726	1,470	1,300	410
17	1,580	180	985	390	3,700	770	3,050	704	640	1,110	1,330	370
18	1,270	180	1,190	370	3,340	748	2,160	640	493	682	1,270	352
19	985	165	1,300	370	2,800	726	1,790	598	390	561	1,140	390
20	839	165	1,330	370	2,200	726	1,550	514	352	911	1,010	577
21	704	165	1,300	370	1,920	816	1,350	451	390	1,110	863	1,730
22	619	165	1,240	352	2,060	1,090	1,220	410	472	1,220	1,090	2,320
23	556	165	1,110	352	2,280	1,610	1,090	370	410	1,110	839	4,340
24	514	150	960	352	2,700	2,160	1,010	390	335	863	726	9,820
25	430	150	863	370	3,220	3,050	1,110	493	319	887	556	9,580
26	390	150	793	451	3,780	4,340	1,220	390	303	1,110	535	7,500
27	370	165	726	619	4,180	5,160	1,640	352	255	1,380	390	6,050
28	335	150	682	887	4,340	4,850	1,820	303	271	1,550	514	4,830
29	319	180	640	1,270	-	4,500	1,790	287	303	1,820	514	3,780
30	287	165	619	1,550	-	5,050	1,610	271	472	1,220	661	2,520
31	271	-	598	1,790	-	6,350	-	255	-	935	1,060	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	24,289	2,280	195	784	0.769	0.89
November	5,700	255	150	190	.186	.21
December	20,161	1,330	165	650	.637	.73
Calendar year 1936	414,042	6,280	59	1,131	1.11	15.13
January	18,132	1,790	352	585	.574	.55
February	73,360	4,340	1,090	2,620	2.57	2.68
March	68,211	6,350	726	2,200	2.16	2.49
April	91,570	6,200	1,010	3,052	2.99	3.34
May	39,162	3,520	255	1,263	1.24	1.43
June	12,959	793	225	432	.424	.47
July	23,255	1,550	165	750	.736	.85
August	26,610	1,330	390	858	.841	.97
September	85,024	9,820	352	2,834	2.78	3.10
Water year 1936-37	488,433	9,820	150	1,338	1.31	17.82

Ochlockonee River near Bloxham, Fla.

Location.- Water-stage recorder, lat. 30°23', long. 84°39', in sec. 29, T 1 S., R. 4 W., 1,000 feet below dam and 1 mile west of Bloxham.

Drainage area.- 1,660 square miles.

Records available.- June 1926 to September 1937.

Average discharge.- 11 years, 1,598 second-feet.

Extremes.- Maximum discharge during year, 16,700 second-feet Sept. 2 (gage height, 19.92 feet); minimum, 33 second-feet Nov. 23 (gage height, -1.26 feet); minimum daily, 106 second-feet Nov. 8.

1926-37: Maximum discharge, 19,900 second-feet Aug. 19, 1928 (gage height, 21.4 feet) from rating curve extended above 10,000 second-feet; no flow Sept. 21, 22, 1929 and several days in 1931.

Remarks.- Records fair except those for periods when recorder was not operating, of which those for Oct. 12-15, Nov. 2-4, July 5-10, Aug. 2-7, Sept. 20-24 were computed from hourly readings of tailwater gage at power plant, and those for Dec. 16 to Jan. 4 were computed from output of power plant and discharge-relationship curve, all of which are poor. Flow regulated by operation of power plant 1,000 feet above gage.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	908	154	791	1,140	2,410	4,050	5,750	3,380	882	1,310	900	12,100
2	276	272	977	1,080	2,480	4,000	8,080	3,030	1,330	1,930	1,250	16,100
3	985	849	910	620	2,380	3,960	5,770	3,440	820	1,320	1,280	11,600
4	308	555	896	1,380	2,480	3,920	5,520	3,740	809	407	1,300	5,440
5	426	358	892	1,230	2,560	3,690	5,240	3,740	1,160	398	1,400	4,920
6	730	589	152	1,070	2,520	3,640	4,950	3,780	1,770	1,100	1,930	5,360
7	762	337	936	1,090	2,420	2,820	4,320	3,920	3,170	1,100	1,730	4,250
8	955	106	1,180	1,040	1,900	3,200	4,210	3,960	2,800	1,060	760	4,050
9	1,110	359	1,000	1,000	2,260	2,580	5,880	4,000	2,730	1,080	1,980	3,780
10	2,150	884	1,080	508	3,420	1,910	5,820	3,960	2,280	1,050	1,940	1,890
11	5,280	307	1,140	850	2,820	1,310	6,430	3,820	2,420	684	1,670	1,960
12	4,210	676	562	832	3,420	1,480	6,430	3,640	2,310	1,020	1,260	2,340
13	3,230	789	122	962	3,460	1,700	6,230	3,420	2,080	1,050	1,300	2,210
14	3,290	635	1,210	983	3,510	864	6,120	3,380	2,020	1,070	1,010	2,250
15	3,300	134	1,810	1,050	3,640	1,420	5,790	2,750	1,790	1,200	832	2,120
16	3,380	235	1,920	1,200	4,500	1,720	5,420	697	1,840	1,170	1,710	1,940
17	3,240	636	1,940	393	3,740	1,320	4,600	1,260	1,870	1,160	1,620	1,890
18	3,240	596	1,910	697	3,780	1,230	3,920	1,360	1,670	1,150	1,740	1,960
19	2,500	558	1,900	544	3,780	1,230	3,740	1,180	1,010	1,280	1,900	2,110
20	1,300	397	1,100	399	4,390	1,160	3,560	944	332	1,720	1,970	1,980
21	1,200	203	1,880	718	4,150	1,010	3,420	1,070	1,620	1,820	1,690	2,290
22	1,180	260	2,010	560	4,050	1,840	2,930	956	1,990	1,820	1,180	2,530
23	1,190	191	1,970	664	3,870	2,010	2,470	1,200	1,580	1,980	2,210	2,810
24	956	163	1,850	1,270	3,780	2,240	1,160	960	1,680	1,670	2,380	3,820
25	850	611	810	1,160	3,820	3,280	2,100	882	1,400	532	2,250	8,730
26	328	122	1,080	1,250	3,820	3,820	3,380	780	1,420	1,850	2,240	9,150
27	715	223	1,050	1,210	4,020	6,070	3,010	745	689	2,440	2,200	8,280
28	616	720	1,070	1,750	5,600	7,880	3,030	807	1,050	2,330	1,970	5,940
29	410	224	810	2,120	-	5,820	2,950	644	1,200	2,240	820	5,270
30	386	652	960	2,600	-	4,850	3,380	740	1,200	1,950	1,920	4,550
31	251	-	1,400	2,150	-	6,410	-	1,020	-	1,380	2,700	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	50,202	5,280	251	1,620	0.976	1.13
November	12,795	884	106	426	.257	.29
December	37,318	2,010	122	1,204	.725	.84
Calendar year 1936	629,691	6,390	87	1,720	1.04	14.14
January	33,520	2,600	393	1,081	.651	.75
February	94,980	5,600	1,900	3,392	2.04	2.12
March	92,434	7,880	864	2,982	1.80	2.08
April	135,610	8,080	1,160	4,520	2.72	3.04
May	69,205	4,000	644	2,232	1.34	1.54
June	48,922	3,170	332	1,631	.983	1.10
July	42,271	2,440	398	1,364	.822	.95
August	51,042	2,700	760	1,647	.992	1.14
September	143,620	16,100	1,890	4,787	2.88	3.21
Water year 1936-37	811,919	16,100	106	2,224	1.34	18.19

Chattahoochee River near Gainesville, Ga.

Location.- Staff gage, lat. 34°20', long. 83°52', at Shallow Ford Bridge, half a mile below State Highway 53, 4 miles below Little River, 4½ miles northwest of Gainesville, Hall County, and 5 miles above Chestatee River.

Drainage area.- 573 square miles.

Records available.- April to September 1937. June 1901 to December 1903, at site 3 miles upstream.

Extremes.- Maximum discharge observed during period, 11,100 second-feet Apr. 29 (gage height, 11.0 feet), from rating curve extended above 4,000 second-feet; minimum observed, 530 second-feet Aug. 20 (gage height, 2.03 feet).
1901-03, 1937: Maximum gage height observed, 28.4 feet Dec. 29, 1901, former site and datum; minimum discharge, 350 second-feet July 2, 1902 (gage height, 2.0 feet, former site and datum).

Remarks.- Records fair. Possibly some regulation from small dams above station. Gage read twice daily.

Rating table, Apr. 28 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

2.0	530	5.0	1,950	9.0	7,100
2.5	680	6.0	2,700	10.0	9,100
3.0	870	7.0	3,800	11.0	11,100
4.0	1,360	8.0	5,300		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	1,820	1,150	790	715	1,520
2							-	1,700	1,000	715	615	1,100
3							-	1,640	1,050	715	615	960
4							-	1,580	1,000	715	645	870
5							-	1,950	1,000	1,000	645	960
6							-	1,760	960	830	645	870
7							-	1,520	915	1,000	615	645
8							-	1,470	1,000	1,360	750	790
9							-	1,420	960	830	615	790
10							-	1,420	960	750	1,250	790
11							-	1,360	960	750	870	790
12							-	1,300	870	715	830	750
13							-	1,360	870	680	645	715
14							-	1,360	870	680	615	715
15							-	1,250	870	645	645	715
16							-	1,200	1,200	645	645	680
17							-	1,200	1,000	615	585	680
18							-	1,150	1,050	615	585	645
19							-	1,200	960	615	555	645
20							-	1,200	915	615	530	645
21							-	1,150	830	615	645	615
22							-	1,150	790	585	555	615
23							-	1,150	750	585	1,150	615
24							-	1,100	750	680	1,950	585
25							-	1,100	750	645	1,820	555
26							-	1,150	750	680	1,000	585
27							-	1,100	750	585	1,000	585
28							1,360	1,100	715	615	1,100	585
29							6,020	1,050	870	585	960	585
30							3,100	1,050	870	960	2,090	585
31							-	1,050	-	645	2,160	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January						
February						
March						
April						
May	41,010	1,950	1,050	1,323	2.31	2.66
June	27,385	1,200	715	913	1.59	1.77
July	22,460	1,360	585	725	1.27	1.46
August	26,045	2,160	530	905	1.58	1.82
September	22,185	1,520	555	740	1.29	1.44
Water year						

Chattahoochee River at West Point, Ga.

Location.- Water-stage recorder, lat. 32°53', long. 85°11', just below Oseligee Creek and 1 mile upstream from West Point, Troup County. Zero of gage is 550.23 feet above mean sea level (datum of Corps of Engineers, U. S. Army).

Drainage area.- 3,550 square miles.

Records available.- January 1912 to September 1937. July 1896 to December 1910, at site three-quarters of a mile downstream.

Average discharge.- 39 years (1896-1910, 1912-37), 5,882 second-feet.

Extremes.- Maximum discharge during year, 49,900 second-feet Jan. 6 (gage height, 18.42 feet); minimum, 1,740 second-feet Sept. 27 (gage height, 2.69 feet).
1896-1910, 1912-37: Maximum discharge, 134,000 second-feet Dec. 10, 1919 (gage height, 30.0 feet); minimum, 224 second-feet Sept. 12, 1925 (gage height, 1.64 feet).

Remarks.- Records good except those for periods of missing gage heights, Oct. 5-8, which were computed on basis of gage heights at U. S. Weather Bureau gage 1 mile downstream and are fair. Slight diurnal fluctuation caused by power plants upstream.

Rating table, water year 1936-37 (gage height, in feet and discharge, in second-feet)

3.0	1,600	7.0	8,300	11.0	18,500
4.0	3,100	8.0	10,400	13.0	25,000
5.0	4,700	9.0	12,800	15.0	32,500
6.0	6,400	10.0	15,500	17.0	42,000
				19.0	53,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20,000	2,280	2,200	17,600	9,960	7,300	5,040	31,300	3,980	5,890	2,800	5,720
2	16,700	2,200	2,500	21,800	9,100	6,940	5,040	26,400	4,060	4,380	3,660	7,500
3	17,900	2,200	3,100	31,300	8,700	6,400	4,870	15,400	4,700	3,100	2,880	6,400
4	11,600	2,120	3,660	38,500	7,500	6,060	4,700	9,300	4,220	2,650	3,340	4,220
5	4,380	2,120	3,340	41,000	6,760	5,890	6,390	9,520	3,740	2,800	2,720	3,500
6	4,540	2,200	3,100	48,700	6,400	5,720	14,700	13,300	3,740	5,040	3,260	3,900
7	10,400	2,120	7,300	41,500	6,060	5,550	12,300	11,300	3,500	5,380	4,220	4,060
8	8,300	2,200	10,800	17,200	6,060	6,400	16,300	8,700	3,340	4,060	4,060	3,660
9	7,900	2,280	7,700	11,100	9,380	6,580	31,300	6,760	3,260	3,740	3,740	3,660
10	10,400	2,280	6,230	9,300	17,300	6,060	25,000	6,060	3,020	4,060	4,380	4,380
11	8,100	2,200	4,380	8,300	17,000	5,720	15,800	5,720	3,020	4,060	5,720	4,220
12	6,230	2,280	3,900	7,500	14,900	5,380	9,300	5,550	2,880	3,020	3,740	3,100
13	4,870	2,880	3,580	6,940	8,900	5,210	7,300	5,380	3,020	2,720	11,900	2,800
14	3,900	3,260	3,420	6,580	7,700	5,210	6,760	5,380	3,100	2,420	9,300	2,580
15	3,420	3,180	3,900	6,580	7,120	6,400	6,400	5,380	3,260	2,350	4,380	2,420
16	3,260	2,800	6,760	6,760	6,580	6,940	6,400	5,040	3,660	2,500	3,980	2,350
17	3,180	2,420	6,940	6,760	6,230	6,400	6,060	4,870	3,500	2,280	3,660	2,200
18	3,180	2,280	5,210	7,900	5,890	6,230	5,720	4,540	4,220	2,720	2,800	2,200
19	3,500	2,200	16,900	16,300	5,720	6,760	5,380	4,380	4,540	5,210	2,580	2,120
20	3,180	2,280	27,400	27,800	9,370	17,000	5,210	4,380	4,220	5,550	2,420	2,120
21	2,880	2,200	20,900	25,000	20,000	14,700	5,040	7,700	3,660	3,260	2,200	2,050
22	2,720	2,120	14,900	19,700	22,600	9,100	5,210	7,550	3,340	2,580	2,580	1,980
23	2,650	2,120	8,300	12,500	18,500	7,500	5,380	6,760	2,880	2,350	3,260	1,980
24	2,720	2,200	5,720	9,520	12,300	6,760	5,720	5,550	2,580	2,350	4,700	1,870
25	2,720	2,350	4,870	10,400	8,900	6,760	7,120	4,540	2,500	2,280	6,060	1,860
26	2,880	2,420	4,540	13,300	7,700	6,230	8,300	4,220	2,420	2,350	5,380	1,810
27	2,650	2,280	4,220	10,600	6,940	6,060	8,900	4,220	2,350	2,580	6,760	1,810
28	2,580	2,200	4,540	9,300	7,120	5,890	6,400	4,380	2,350	2,800	5,550	1,840
29	2,420	2,050	5,890	8,500	-	5,550	12,200	4,220	2,420	2,500	6,400	1,860
30	2,420	2,050	5,720	8,100	-	5,380	30,100	4,060	4,060	2,200	5,040	1,900
31	2,280	-	9,300	8,300	-	5,210	-	4,060	-	2,420	4,540	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	183,860	20,000	2,280	5,931	1.67	1.92
November	69,770	3,260	2,050	2,326	.655	.73
December	221,220	27,400	2,200	7,136	2.01	2.32
Calendar year 1936	2,950,170	70,600	1,420	8,061	2.27	30.91
January	514,640	48,700	6,580	16,600	4.68	5.40
February	280,690	22,600	5,720	10,020	2.82	2.94
March	213,290	17,000	5,210	6,880	1.94	2.24
April	294,340	31,300	4,700	9,811	2.76	3.08
May	245,920	31,300	4,060	7,933	2.23	2.57
June	101,540	4,700	2,350	3,385	.954	1.06
July	101,600	5,890	2,200	3,277	.923	1.06
August	138,010	11,900	2,200	4,452	1.25	1.44
September	92,070	7,500	1,810	3,069	.865	.97
Water year 1936-37	2,456,950	48,700	1,810	6,731	1.90	25.73

Chattahoochee River at Columbus, Ga.

Location.- Water-stage recorder, lat. 32°27'45", long. 84°59'45", at Central of Georgia Railroad bridge in Columbus, Muscogee County, half a mile below Eagle and Phenix Dam and 1¼ miles below City Mills Dam. Zero of gage is 185.25 feet above mean sea level.

Drainage area.- 4,670 square miles.

Records available.- August 1929 to September 1937. December 1912, at site 800 feet upstream.

Extremes.- Maximum discharge during year, 55,000 second-feet Jan. 6 (gage height, 30.5 feet); minimum daily, 980 second-feet Nov. 22.

1912, 1929-37: Maximum discharge, 84,700 second-feet Apr. 9, 1936 (gage height, 38.24 feet); minimum, 294 second-feet Oct. 23, Nov. 14, 1931 (gage height, 0.06 foot); minimum daily, 480 second-feet Oct. 31, 1931.

Maximum stage known, 53.2 feet, present datum, Mar. 15, 1929 (discharge not determined).

Remarks.- Records above 2,500 second-feet are good; those below 2,500 second-feet and those for periods of missing gage heights are fair.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 6						Jan. 7 to Sept. 30					
1.0	980	4.0	3,700	14.0	18,700	1.0	1,650	4.0	4,200	16.0	22,300
1.5	1,330	5.0	4,840	17.0	24,000	1.5	1,950	6.0	6,700	20.0	29,600
2.0	1,730	7.0	7,440	20.0	29,600	2.0	2,300	8.0	9,500	24.0	37,900
2.5	2,180	9.0	10,400	24.0	37,900	2.5	2,700	10.0	12,500	28.0	47,800
3.0	2,660	11.0	13,600	28.0	47,800	3.0	3,150	13.0	17,300	30.0	53,500
				31.0	56,600						

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13,000	1,640	3,370	20,800	13,800	9,080	7,680	42,600	6,980	5,920	1,950	7,260
2	19,200	2,960	3,480	23,500	11,200	10,100	7,540	29,600	6,980	5,790	3,260	6,980
3	16,800	3,920	3,700	33,400	12,000	9,220	7,540	20,300	6,840	6,570	4,200	6,840
4	16,700	3,920	3,920	38,100	10,100	9,220	6,180	13,500	6,980	3,320	4,200	6,980
5	6,880	3,480	3,920	42,100	9,220	8,240	10,300	13,500	6,840	3,330	4,200	7,260
6	6,740	2,660	1,820	52,000	8,800	†8,000	19,500	16,300	4,120	3,870	4,320	6,980
7	8,140	2,180	6,570	45,900	7,540	†7,600	18,400	16,300	3,510	4,320	4,200	4,920
8	10,400	1,260	8,000	29,200	8,940	†7,500	17,100	12,200	3,650	5,920	2,500	4,440
9	9,160	2,270	6,740	15,500	14,100	†8,500	35,300	9,080	3,350	7,540	3,290	4,440
10	11,500	2,660	6,480	11,900	24,100	†7,800	31,000	8,660	3,450	6,440	4,440	6,310
11	11,000	2,660	6,480	10,200	20,200	†7,600	21,200	8,100	4,440	3,630	4,320	5,160
12	7,440	2,660	6,610	10,200	20,300	†7,300	15,400	7,680	2,880	3,550	5,160	3,040
13	6,880	2,660	6,220	9,800	12,800	†6,900	9,080	7,400	2,230	4,090	5,790	3,440
14	6,740	2,090	6,610	8,940	8,380	6,440	9,220	8,240	3,350	3,450	11,200	3,870
15	6,740	1,410	9,040	8,660	11,200	10,200	8,940	8,660	4,440	3,650	8,520	3,450
16	7,300	2,360	9,190	8,940	9,080	8,660	9,800	7,120	4,320	3,760	7,960	3,350
17	6,480	3,810	7,440	9,080	8,520	9,500	8,380	7,260	4,440	2,700	6,440	3,060
18	5,080	3,920	7,020	9,360	8,240	8,800	7,960	7,260	6,440	2,380	5,920	2,020
19	5,830	3,480	11,800	22,200	7,960	9,220	7,960	7,120	6,700	3,620	5,660	1,770
20	6,220	2,610	27,500	31,600	11,900	40,200	7,680	7,120	4,050	6,440	5,160	2,740
21	5,960	1,820	26,900	30,200	28,100	37,300	7,540	7,120	3,580	7,260	3,610	2,880
22	5,830	980	19,400	20,000	27,000	18,400	8,240	7,120	4,320	6,570	2,230	2,880
23	4,250	2,180	11,000	13,600	22,700	10,700	7,680	6,700	5,530	5,400	3,330	2,880
24	4,030	3,160	7,720	10,400	18,100	11,300	8,100	6,700	5,400	4,680	4,560	2,790
25	2,630	3,370	6,480	15,200	11,000	10,400	11,600	6,840	4,680	2,420	6,570	2,230
26	3,370	3,920	6,090	17,500	11,400	9,080	10,700	6,840	3,250	3,220	6,700	1,600
27	4,030	3,810	5,570	16,300	9,220	8,940	10,700	6,980	2,230	4,320	6,840	2,430
28	3,810	2,510	6,220	14,100	11,400	8,240	9,950	6,980	3,350	4,200	6,700	2,700
29	3,920	1,650	7,020	11,900	-	8,520	13,200	6,840	4,320	4,200	6,180	2,620
30	3,920	2,610	6,880	12,500	-	7,960	40,600	6,570	4,320	4,090	6,840	2,620
31	*2,310	-	8,740	10,400	-	7,680	-	6,700	-	2,790	6,700	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	232,290	19,200	2,310	7,493	1.60	1.84
November	80,620	3,920	980	2,687	.575	.64
December	257,930	27,500	1,820	8,320	1.78	2.05
Calendar year 1936	3,703,260	80,800	980	10,120	2.17	29.49
January	613,480	52,000	8,660	19,790	4.24	4.89
February	377,300	28,100	7,540	13,480	2.89	3.01
March	338,600	40,200	6,440	10,920	2.34	2.70
April	394,470	40,600	6,180	13,150	2.82	3.15
May	333,390	42,600	6,570	10,750	2.30	2.65
June	136,970	6,980	2,230	4,566	.978	1.09
July	139,440	7,540	2,380	4,498	.963	1.11
August	162,950	11,200	1,950	5,256	1.13	1.30
September	119,940	7,260	1,600	3,998	.856	.96
Water year 1936-37	3,187,380	52,000	980	8,733	1.87	25.39

*Recorder not operating; discharge computed from graph drawn on basis of gage-height record of U. S. Weather Bureau at Eufaula, Ala.

†No gage-height record; discharge computed on basis of records for stations at West Point and Columbia.

Chattahoochee River at Columbia, Ala.

Location.- Water-stage recorder, lat. 31°17', long. 85°07', in T. 4 N., R. 29 E., at bridge on State Highway 52, a quarter of a mile below Central of Georgia Railway bridge and half a mile east of Columbia.

Drainage area.- 8,040 square miles.

Records available.- July 1928 to September 1937.

Extremes.- Maximum discharge during year, 57,200 second-feet Mar. 22 (gage height, 34.80 feet); minimum, 2,580 second-feet Nov. 24 (gage height, 4.10 feet).
1928-37: Maximum discharge, 203,000 second-feet Mar. 18, 1929 (gage height, 56.05 feet); minimum, 1,220 second-feet Oct. 26, 1931 (gage height, 1.79 feet).

Remarks.- Records good. Discharge for days of faulty gage height records, Oct. 16, 17, May 1, 22, 23, computed from graph based on partial record and once-daily gage readings by observer. For regulation see station description for Columbus, Ga.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 - 9		Oct. 10 to Sept. 30					
10.2	9,300	4.3	2,760	12.0	11,860	26.5	37,400
14.0	15,000	4.9	3,300	13.6	14,260	28.5	41,700
17.0	19,600	6.8	5,200	16.0	18,100	30.0	45,000
19.0	23,200	7.8	6,300	19.0	23,200	32.0	49,700
21.0	26,800	8.8	7,500	22.0	28,600	33.5	53,600
		10.0	9,060	24.0	32,400	34.4	56,100

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,360	5,200	4,100	11,300	16,300	16,800	12,000	38,700	7,890	6,300	5,200	14,400
2	12,400	4,000	4,500	21,000	19,500	17,000	11,600	53,100	8,150	6,190	4,500	16,500
3	20,100	3,700	6,080	27,900	18,400	14,700	11,300	51,500	8,540	6,900	3,800	14,600
4	18,700	4,700	8,020	33,800	16,800	13,800	11,200	39,800	8,150	7,140	4,400	12,200
5	19,500	5,200	8,670	40,400	14,700	13,200	15,500	27,000	8,150	7,380	5,200	10,300
6	13,400	5,310	7,020	44,100	13,700	12,200	40,200	20,800	8,540	5,640	5,200	11,300
7	11,000	4,800	6,540	50,400	12,500	12,000	46,100	22,000	8,640	8,420	5,310	10,600
8	21,000	4,300	7,400	55,000	11,400	11,400	38,900	21,800	5,710	6,540	5,200	8,800
9	26,800	3,800	12,900	50,700	15,800	11,200	33,400	18,400	5,310	7,260	5,200	7,020
10	21,800	3,210	12,000	33,000	30,600	12,800	40,200	14,400	5,000	8,800	4,800	6,540
11	20,300	3,700	10,000	19,500	37,700	11,900	44,800	12,200	4,800	9,200	7,380	6,780
12	19,000	4,100	9,200	15,400	34,200	11,000	37,000	11,600	5,100	7,380	7,020	8,280
13	13,400	4,200	8,930	14,100	27,900	10,700	26,100	10,700	5,640	6,000	6,540	6,780
14	10,300	4,400	8,800	13,200	23,400	10,300	18,400	10,200	4,700	5,100	9,060	5,100
15	9,340	4,300	10,900	12,500	19,900	10,000	14,000	10,300	3,900	5,530	11,300	5,200
16	9,200	3,800	19,300	12,200	15,400	12,300	14,400	11,200	4,900	5,000	12,900	5,200
17	9,480	3,030	21,800	12,000	14,100	14,400	14,000	10,300	5,970	4,900	9,760	4,900
18	10,200	3,600	17,300	12,200	12,800	12,600	14,000	9,620	6,190	4,900	8,280	4,800
19	8,670	5,000	13,500	12,300	11,900	12,200	12,200	9,340	7,630	4,500	7,500	4,600
20	7,500	5,100	15,200	20,400	11,900	16,800	11,700	9,200	9,900	4,800	7,140	4,000
21	7,890	4,800	26,600	35,400	21,200	42,600	11,300	9,080	8,280	6,540	6,660	3,600
22	7,890	4,100	32,800	37,700	37,700	56,100	11,700	9,200	5,530	9,060	6,080	3,900
23	7,760	3,500	27,900	32,000	41,900	48,400	12,200	9,760	5,200	8,930	5,200	4,300
24	7,260	2,760	20,600	22,000	37,400	28,800	12,500	10,200	5,860	8,150	4,100	4,200
25	6,080	3,800	13,100	16,300	28,100	21,700	12,900	9,340	6,540	6,780	5,000	4,200
26	5,640	5,310	10,700	27,500	20,600	22,900	14,700	8,930	7,140	5,750	6,660	4,000
27	4,400	5,750	9,480	32,000	15,900	17,100	15,500	8,670	6,080	4,200	8,280	3,120
28	5,100	5,860	9,200	27,200	16,300	15,700	15,500	8,540	4,800	4,400	8,540	2,940
29	5,530	5,420	8,670	22,900	-	13,500	13,800	8,410	4,300	5,310	9,060	3,400
30	5,310	4,500	9,480	22,500	-	13,100	15,300	8,280	5,860	5,310	9,060	3,900
31	5,420	-	9,900	20,000	-	12,900	-	8,150	-	5,640	9,340	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	359,730	26,800	4,400	11,600	1.44	1.66
November	131,250	5,860	2,760	4,375	.544	.61
December	390,590	32,800	4,100	12,600	1.57	1.81
Calendar year 1936	5,877,740	101,000	2,200	16,060	2.00	27.17
January	806,900	55,000	11,300	26,030	3.24	3.74
February	594,000	41,900	11,400	21,210	2.64	2.75
March	550,100	56,100	10,000	17,750	2.21	2.55
April	602,400	46,100	11,200	20,080	2.50	2.79
May	510,700	53,100	8,150	16,470	2.05	2.36
June	192,300	9,900	3,900	6,410	.797	.89
July	194,950	9,200	4,200	6,289	.782	.90
August	213,670	12,900	3,800	6,893	.857	.99
September	205,460	16,500	2,940	6,849	.852	.95
Water year 1936-37	4,752,050	56,100	2,760	13,020	1.62	22.00

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Apalachicola River near River Junction, Fla.

Location.- Water-stage recorder, lat. 30°45', long. 84°51', in sec. 5, T. 3 N., R. 6 W., at Louisville & Nashville Railroad bridge 1 mile below confluence of Flint and Chattahoochee Rivers and 1½ miles west of River Junction. Zero of gage is 44.90 feet above mean sea level.

Drainage area.- 17,100 square miles.

Records available.- December 1928 to September 1937.

Extremes.- Maximum discharge during year, 74,500 second-feet Apr. 12 (gage height, 19.20 feet); minimum, 10,100 second-feet Nov. 25 (gage height, 1.22 feet).
1928-37: Maximum discharge, 293,000 second-feet Mar. 20, 1929 (gage height, 34.70 feet), from rating curve extended above 200,000 second-feet; minimum, 5,120 second-feet Nov. 5, 11, 1931; minimum gage height, -1.70 feet Nov. 5, 1931.
Maximum stage known, that of Mar. 20, 1929.

Remarks.- Records good.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-31, May 28 to Sept. 30)

1.0	9,700	6.0	20,900	11.0	34,600	16.0	54,000
2.0	11,600	7.0	23,500	12.0	37,700	17.0	59,500
3.0	13,800	8.0	26,200	13.0	41,000	18.0	66,000
4.0	16,000	9.0	28,900	14.0	44,600	19.0	73,000
5.0	18,400	10.0	31,700	15.0	49,000	20.0	80,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11,100	13,300	12,300	24,000	39,400	41,000	39,400	35,800	19,600	14,600	14,400	25,400
2	15,600	13,300	12,300	25,700	38,000	41,000	36,800	50,000	19,400	15,600	13,800	29,500
3	19,400	11,900	13,300	32,900	39,000	39,700	34,300	60,200	19,600	16,000	12,500	29,500
4	24,000	11,500	14,200	38,000	38,000	37,700	32,600	66,000	19,600	16,000	11,500	27,600
5	24,800	12,500	15,800	40,000	36,500	36,200	31,700	64,000	19,400	16,000	12,300	25,700
6	25,700	12,900	16,500	48,600	34,600	34,300	40,300	56,200	19,900	15,600	12,900	24,300
7	21,400	12,900	16,200	53,000	32,900	32,300	54,000	51,000	20,900	15,800	12,900	24,800
8	22,700	12,300	15,800	57,300	31,100	31,100	62,100	49,500	19,600	14,900	12,500	23,200
9	31,100	11,600	18,400	60,800	30,000	29,700	66,000	48,100	17,000	16,700	12,100	20,900
10	34,900	11,100	22,700	61,400	35,500	29,200	68,100	44,600	16,200	17,900	12,700	18,400
11	33,400	10,300	22,500	52,500	43,800	29,500	71,600	41,000	15,600	19,600	12,900	17,400
12	32,300	11,300	21,700	43,100	48,600	28,400	74,500	37,700	15,600	19,600	14,200	18,200
13	30,900	11,900	21,200	38,400	49,000	27,600	70,200	34,600	15,600	17,900	14,200	18,900
14	26,700	11,900	21,200	35,800	47,700	25,700	60,800	32,000	15,100	15,300	15,100	19,600
15	23,000	12,100	21,900	34,300	43,800	24,800	52,000	30,300	13,500	14,900	18,400	15,600
16	21,400	12,100	24,600	33,400	39,700	24,600	46,400	28,600	12,900	14,600	21,700	16,000
17	20,600	12,300	30,600	32,900	38,000	26,500	43,100	27,300	14,000	14,200	22,500	15,300
18	20,400	12,300	31,700	32,000	36,200	27,600	41,400	24,600	15,100	13,800	20,400	14,200
19	20,200	12,500	30,000	30,600	34,300	27,000	39,400	24,300	15,100	13,300	19,200	13,800
20	18,400	13,100	28,100	30,000	33,200	27,600	36,600	24,300	16,500	14,600	18,400	13,800
21	17,400	13,300	31,700	37,100	34,000	35,800	34,600	24,300	18,200	14,600	17,700	12,700
22	17,400	12,700	40,000	44,600	42,800	50,000	32,900	24,000	17,400	14,900	16,700	11,900
23	17,200	11,600	45,400	46,800	52,000	59,500	31,400	22,700	16,000	17,900	15,100	12,100
24	17,000	10,700	41,000	45,400	56,200	61,400	31,400	22,200	15,300	19,400	12,900	12,300
25	16,200	10,300	36,200	37,700	56,200	54,600	31,700	22,200	15,800	18,900	12,100	12,300
26	14,900	11,300	31,400	34,900	52,000	51,000	31,700	21,900	15,800	17,700	13,500	12,100
27	14,200	12,700	28,900	40,700	45,900	49,500	32,900	21,400	16,000	15,800	14,900	11,600
28	13,100	13,100	27,300	43,800	42,400	46,400	33,200	20,900	14,400	13,800	15,800	10,900
29	13,800	13,300	26,700	42,800	-	44,200	33,200	20,900	12,900	13,300	17,000	10,500
30	13,800	12,700	25,700	41,400	-	42,400	32,000	20,400	12,900	13,300	17,200	10,500
31	13,300	-	25,100	40,700	-	41,400	-	19,900	-	14,000	18,600	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	646,300	34,900	11,100	20,850	1.22	1.41
November	364,800	13,300	10,300	12,160	.711	.79
December	768,400	43,400	12,300	24,790	1.45	1.67
Calendar year 1936	11,336,300	144,000	9,700	30,970	1.81	24.66
January	1,258,600	61,400	24,000	40,600	2.37	2.73
February	1,160,800	56,200	30,000	41,100	2.40	2.50
March	1,157,700	61,400	24,600	37,350	2.18	2.51
April	1,326,500	74,500	31,400	44,220	2.59	2.89
May	1,070,900	66,000	19,900	34,550	2.02	2.33
June	494,900	20,900	12,900	16,500	.965	1.08
July	488,500	19,600	13,300	15,760	.922	1.06
August	476,100	22,500	11,500	15,360	.898	1.04
September	529,000	29,500	10,600	17,630	1.03	1.15
Water year 1936-37	9,732,500	74,500	10,300	26,660	1.56	21.16

Sweetwater Creek near Austell, Ga.

Location.- Staff gage, lat. 33°46', long. 84°37', at Blair Bridge, 3 miles southeast of Austell, Cobb County, and about 5½ miles above mouth.

Drainage area.- 246 square miles.

Records available.- March to September 1937. May 1904 to December 1905 and November to December 1913, at site 2½ miles above.

Extremes.- Maximum discharge observed during period, 5,360 second-feet May 1 (gage height, 14.05 feet); minimum observed, 84 second-feet Sept. 25, 26 (gage height, 0.81 foot).

1904-5, 1913, 1937: Maximum discharge observed, 5,960 second-feet July 12, 1905 (gage height, 16.7 feet, former site and datum), from rating curve extended above 1,800 second-feet; minimum, 30 second-feet Oct. 30, 1904 (gage height, 0.50 foot, former site and datum), caused by regulation.

Remarks.- Records good. Gage read twice daily.

Rating table, Mar. 24 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

0.8	83	6.0	1,630
1.0	113	8.0	2,350
1.5	217	9.0	2,730
2.0	347	10.0	3,180
3.0	650	12.0	4,240
4.0	930	14.0	5,360

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	306	4,800	465	682	113	650
2						-	292	2,350	319	254	97	528
3						-	292	874	405	194	141	286
4						-	292	778	319	172	97	229
5						-	778	1,230	292	229	97	194
6						-	1,740	1,910	266	405	279	319
7						-	1,300	1,260	217	376	254	206
8						-	1,980	650	206	333	254	151
9						-	2,850	495	194	254	279	810
10						-	2,430	405	172	254	206	495
11						-	842	376	206	333	306	229
12						-	557	217	194	194	906	183
13						-	465	206	162	141	495	151
14						-	435	206	194	122	333	131
15						-	405	194	292	113	306	113
16						-	405	292	292	105	162	113
17						-	376	266	435	172	131	113
18						-	347	254	405	495	113	122
19						-	333	241	266	241	105	113
20						-	319	254	279	183	96	105
21						-	319	266	306	151	87	97
22						-	376	435	194	131	93	97
23						-	347	495	151	122	526	94
24						435	405	333	131	113	906	86
25						435	906	254	122	105	842	86
26						405	810	279	122	113	1,160	86
27						362	435	266	131	279	1,430	89
28						347	333	254	131	194	1,460	93
29						319	2,580	217	1,430	113	557	94
30						319	4,630	206	1,530	105	333	90
31						319	-	194	-	105	333	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 24-31	2,941	435	319	368	1.50	0.45
April	27,885	4,630	292	930	3.78	4.22
May	20,457	4,800	194	660	2.68	3.09
June	9,828	1,530	122	328	1.33	1.48
July	6,785	682	105	219	.890	1.03
August	12,497	1,460	87	403	1.64	1.89
September	6,131	810	86	204	.829	.92
Water year						

Flint River near Griffin, Ga.

Location.- Staff gage, lat. 33°14', long. 84°26', at bridge on State Highway 16, 1¼ miles below Shoal Creek, 5½ miles above Line Creek, and 10 miles west of Griffin, Spalding County.

Drainage area.- 272 square miles.

Records available.- March to September 1937.

Extremes.- Maximum discharge observed during period, 2,980 second-feet May 1 (gage height, 8.38 feet); minimum observed, 79 second-feet Aug. 3; minimum gage height observed, 0.40 foot Sept. 25.

Flood of Mar. 14 or 15, 1929, reached a stage of 14.9 feet, from high-water mark located by observer; (discharge not determined).

Remarks.- Records good. Gage read twice daily.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	348	2,860	348	286	93	316
2						-	332	2,300	364	332	85	364
3						-	300	1,230	272	258	79	380
4						-	300	785	234	129	82	348
5						-	416	670	180	129	85	785
6						-	1,180	695	162	380	89	416
7						-	1,040	620	153	332	98	171
8						-	1,180	570	145	258	109	137
9						-	1,920	570	137	222	145	190
10						-	1,920	398	129	145	258	171
11						-	1,680	300	122	122	286	145
12						-	1,000	272	115	109	180	210
13						332	670	246	109	103	300	145
14						332	510	300	109	93	1,180	122
15						452	434	316	109	89	815	103
16						595	398	286	109	85	364	98
17						550	364	258	122	82	316	93
18						530	348	222	162	82	162	93
19						510	332	200	180	85	122	93
20						920	300	200	162	89	109	89
21						960	286	190	153	93	103	89
22						815	348	171	129	93	103	85
23						785	332	222	109	85	153	85
24						670	364	210	98	82	210	85
25						570	510	246	93	82	300	82
26						490	570	300	93	85	332	82
27						434	820	258	103	85	364	82
28						416	785	222	98	89	222	85
29						364	1,040	190	180	89	272	83
30						332	2,820	180	272	82	452	85
31						348	-	162	-	98	380	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 13-31	10,405	960	332	548	2.01	1.42
April	22,447	2,820	286	748	2.75	3.07
May	15,649	2,860	162	505	1.86	2.14
June	4,751	364	93	158	.581	.65
July	4,373	380	82	141	.518	.60
August	7,848	1,180	79	253	.930	1.07
September	5,314	785	82	177	.651	.73
Water year						

Flint River near Culloden, Ga.

Location.- Staff gage, lat. 32°43', long. 84°13', at bridge on U. S. Highway 19, 4 miles above Auchumpkee Creek, 5 miles below Swift Creek, and 13 miles southwest of Culloden, Monroe County.

Drainage area.- 1,890 square miles (revised).

Records available.- July 1928 to December 1931 and March to September 1937. July 1911 to May 1923, at site 2½ miles downstream.

Average discharge.- 14 years (1911-22, 1928-31), 2,706 second-feet.

Extremes.- Maximum discharge observed during period, 22,200 second-feet Mar. 20 (gage height, 19.1 feet); minimum observed, 460 second-feet Sept. 28, 29 (gage height, 1.88 feet).

1911-23, 1928-31, 1937: Maximum discharge observed, 92,000 second-feet Mar. 15, 1929 (gage height, 38.40 feet); minimum observed, 92 second-feet Oct. 4, 6, 7, 1931 (gage height, 0.94 foot).

Remarks.- Records good except those for periods of missing gage height, Apr. 7-9 and Aug. 1-8, which were computed on basis of records for Griffin and Montezuma and are fair. Gage read twice daily through July and once daily thereafter.

Rating table, Mar. 18 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

1.8	415	3.0	1,020	5.0	2,340	9.0	6,050	16.0	15,930
2.0	505	3.5	1,310	6.0	3,140	10.0	7,150	18.0	19,800
2.3	650	4.0	1,610	7.0	4,040	12.0	9,700	20.0	24,400
2.7	855	4.5	1,960	8.0	5,000	14.0	12,600		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	2,500	15,800	1,190	1,370	660	1,960
2						-	2,340	11,700	1,750	1,190	640	1,960
3						-	2,340	7,510	1,550	1,020	600	1,490
4						-	2,180	5,300	1,550	2,500	560	1,130
5						-	2,740	3,770	1,370	2,900	560	1,610
6						-	7,390	4,040	1,190	2,580	580	1,750
7						-	9,000	4,040	1,130	2,260	620	1,750
8						-	10,100	3,410	1,130	1,680	800	1,960
9						-	10,100	2,820	1,080	1,370	1,130	2,180
10						-	9,840	2,500	965	1,250	3,590	3,410
11						-	8,480	2,180	910	1,080	2,580	2,740
12						-	6,270	1,960	910	855	1,550	2,180
13						-	4,500	1,890	800	750	1,020	1,610
14						-	3,320	2,420	965	750	2,900	1,310
15						-	2,820	2,340	855	650	4,600	750
16						-	2,820	2,100	1,130	625	2,500	650
17						-	2,580	1,890	1,370	600	1,430	625
18						3,140	2,340	1,680	3,320	575	1,130	600
19						3,060	2,260	1,550	2,420	1,370	910	550
20						21,800	2,100	1,820	1,820	2,340	700	550
21						16,800	2,100	1,490	1,430	1,550	505	528
22						7,870	2,820	1,490	1,080	965	700	505
23						5,400	2,340	1,820	910	800	650	505
24						4,400	2,420	1,820	800	750	700	505
25						4,220	3,500	1,610	750	650	1,020	482
26						3,680	3,410	1,490	750	600	800	460
27						3,140	4,800	1,820	1,130	575	910	460
28						2,980	4,800	2,340	965	575	1,020	460
29						2,660	7,150	1,680	910	550	1,490	460
30						2,580	17,000	1,490	910	550	2,420	460
31						2,500	-	1,370	-	625	1,960	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 18-31	64,230	21,800	2,500	6,016	3.18	1.65
April	146,360	17,000	2,100	4,879	2.58	2.88
May	99,140	15,800	1,370	3,198	1.69	1.95
June	37,040	3,320	750	1,235	.653	.73
July	35,905	2,900	550	1,158	.613	.71
August	41,235	4,600	505	1,330	.704	.81
September	35,590	3,410	460	1,186	.628	.70
Water year						

Flint River at Montezuma, Ga.

Location.- Wire-weight gage, lat. 32°18', long. 84°03', at bridge on State Highways 26 and 49, half a mile below Buck Creek and 1 mile west of Montezuma, Macon County. Zero of gage is 257.4 feet above mean sea level.

Drainage area.- 2,900 square miles, revised.

Records available.- July 1930 to June 1933 and October 1934 to September 1937. January 1905 to December 1909 and January 1911 to December 1912, at site 1½ miles upstream.

Extremes.- Maximum discharge observed during year, 20,900 second-feet Mar. 23 (gage height, 17.34 feet); minimum observed, 1,020 second-feet Sept. 25 (gage height, 1.77 feet).

1930-33, 1934-37: Maximum discharge observed, 51,000 second-feet Apr. 12, 1936 (gage height, 22.85 feet); minimum observed, 455 second-feet Oct. 21, 28, 1931; minimum gage height observed, 0.26 foot Oct. 22, 1935.

Maximum stage known, 27.4 feet Mar. 17, 1929 (discharge not determined).

Remarks.- Records fair. Gage read twice daily. Some regulation by power plants upstream. Records collected by Crisp County Power Commission, under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Rating table, Oct. 6, 1936 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

1.5	900	5.0	2,770	12.0	9,700	16.0	17,200
2.0	1,100	6.0	3,520	13.0	11,120	17.0	20,000
3.0	1,570	8.0	5,230	14.0	12,900	18.0	23,500
4.0	2,120	10.0	7,300	15.0	14,900		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,610	1,570	1,780	4,420	9,280	6,970	4,780	8,260	2,300	2,630	1,620	3,120
2	4,040	1,620	1,840	5,410	8,020	6,200	4,600	12,700	2,180	2,360	1,890	3,760
3	5,360	1,520	2,000	6,530	7,190	6,000	4,330	16,300	2,360	2,060	1,840	3,520
4	6,620	1,420	2,360	7,190	6,860	5,500	4,160	14,900	2,560	1,890	1,780	2,420
5	7,980	1,470	2,770	8,020	6,530	5,050	4,240	12,200	2,180	1,840	1,570	2,120
6	8,620	1,570	2,980	9,830	6,000	4,690	6,000	10,400	2,240	2,560	1,520	2,240
7	5,700	1,320	3,050	12,500	5,320	4,420	7,300	8,740	2,240	3,760	1,470	2,360
8	3,760	1,470	3,840	15,800	4,960	4,330	8,140	7,660	2,000	4,160	1,570	2,490
9	4,510	1,620	5,500	19,100	4,780	4,160	9,460	6,750	1,940	3,680	1,780	2,300
10	4,870	1,470	6,640	18,500	5,500	4,160	9,830	5,700	1,940	2,630	2,060	2,490
11	5,600	1,470	7,190	15,600	7,080	4,000	10,400	4,510	1,890	2,360	3,280	3,600
12	5,500	1,780	6,640	12,200	10,400	3,840	11,100	4,000	1,720	2,120	4,160	3,360
13	5,050	2,060	5,320	9,580	13,100	3,600	11,100	3,520	1,780	1,840	3,760	2,840
14	4,780	2,180	4,240	7,420	11,800	3,760	10,200	3,360	1,890	1,670	3,520	2,180
15	4,000	2,180	3,840	5,800	10,200	3,760	8,740	3,440	1,670	1,620	3,440	1,780
16	3,120	2,180	4,780	5,050	8,740	4,080	6,750	3,920	1,720	1,670	4,330	1,620
17	2,700	2,000	6,310	4,690	7,190	4,960	5,320	3,760	2,060	1,570	4,330	1,470
18	3,120	1,780	7,420	4,690	5,800	5,320	4,870	3,200	2,420	1,620	3,050	1,420
19	2,980	1,720	8,380	4,690	4,960	5,230	4,600	2,980	2,980	1,670	2,240	1,370
20	2,420	1,720	8,500	4,780	4,690	6,200	4,080	2,770	4,000	2,360	1,890	1,470
21	2,180	1,570	8,260	5,600	5,800	9,460	3,840	2,840	3,600	3,050	1,520	1,320
22	2,000	1,620	8,740	6,530	7,300	13,900	3,760	2,630	2,630	3,050	1,520	1,280
23	1,890	1,570	9,960	7,660	8,740	20,900	4,080	2,700	2,180	2,360	1,670	1,240
24	1,670	1,570	10,500	8,980	10,800	16,700	4,330	2,770	1,890	1,940	1,570	1,190
25	1,780	1,620	9,960	9,340	11,600	12,700	4,420	2,910	1,720	1,780	1,570	1,140
26	1,890	1,840	8,620	8,860	10,500	10,200	4,780	2,700	1,470	1,670	1,840	1,190
27	1,780	2,120	5,900	8,140	9,460	8,620	5,050	2,560	1,620	1,420	1,780	1,280
28	1,720	2,060	4,160	8,980	8,020	7,190	4,870	2,560	2,000	1,370	1,840	1,190
29	1,720	1,940	3,600	10,500	-	6,100	4,690	3,050	2,420	1,470	1,940	1,190
30	1,670	1,780	3,360	10,700	-	5,320	6,530	2,980	3,200	1,470	2,360	1,140
31	1,470	-	3,760	9,830	-	5,050	-	2,630	-	1,370	2,840	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	112,110	8,620	1,470	3,616	1.25	1.44
November	51,810	2,180	1,320	1,727	.596	.66
December	172,200	10,500	1,780	5,555	1.92	2.21
Calendar year 1936	2,032,301	51,000	830	5,553	1.91	26.06
January	276,920	19,100	4,420	8,933	3.08	3.55
February	220,560	13,100	4,690	7,877	2.72	2.83
March	212,370	20,900	3,600	6,851	2.36	2.72
April	186,350	11,100	3,760	6,212	2.14	2.39
May	169,400	16,300	2,560	5,465	1.88	2.17
June	66,800	4,000	1,470	2,227	.768	.86
July	67,020	4,160	1,370	2,162	.746	.86
August	71,550	4,330	1,470	2,308	.796	.92
September	60,090	3,760	1,140	2,003	.691	.77
Water year 1936-37	1,667,180	20,900	1,140	4,568	1.58	21.38

Flint River at Oakfield, Ga.

Location.- Water-stage recorder, lat. 31°46', long. 83°59', at Georgia Southwestern & Gulf Railroad bridge 1 mile southwest of Oakfield, Worth County.

Drainage area.- 3,860 square miles, revised.

Records available.- January 1930 to June 1933, October 1934 to September 1937.

Extremes.- Maximum discharge during year, 18,700 second-feet Jan. 11 (gage height, 15.50 feet); minimum, 980 second-feet Sept. 27 (gage height, 2.10 feet).
1930-33, 1934-37: Maximum discharge, 50,900 second-feet Apr. 15, 1936 (gage height, 27.2 feet), from rating curve extended above 17,000 second-feet on basis of crest discharge at stations upstream and downstream; minimum, 320 second-feet July 14, 1930 (gage height, 0.98 foot).
Maximum stage known, 35.1 feet Jan. 20, 1925, from flood marks.

Remarks.- Records good. Regulation from power plant at Crisp County Power Commission's dam, 8 miles upstream. Records collected by Crisp County Power Commission, under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Rating table, Oct. 4, 1936, to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

2.0	900	6.0	4,900	12.0	13,200
3.0	1,750	8.0	7,400	14.0	16,300
4.0	2,750	10.0	10,200	16.0	19,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,690	1,480	2,500	4,460	11,700	11,600	7,680	6,680	2,850	4,790	1,340	3,470
2	1,640	1,900	2,500	5,020	11,600	9,920	5,500	10,100	2,350	3,360	1,480	3,470
3	3,850	2,050	2,950	6,100	11,000	9,220	6,100	10,200	3,050	2,950	2,560	3,580
4	5,380	2,050	3,910	6,880	10,200	7,820	4,900	11,100	3,150	2,850	3,150	3,470
5	5,140	2,050	3,800	6,880	9,360	7,140	5,500	12,800	4,680	1,620	1,700	3,150
6	6,750	2,050	3,250	7,540	8,520	6,750	8,380	13,800	2,950	4,070	1,660	3,360
7	8,380	1,950	4,750	8,100	7,680	6,230	10,200	14,000	2,850	6,360	1,900	2,750
8	9,220	1,480	6,480	8,520	7,270	5,620	10,200	13,600	2,150	5,140	3,050	2,000
9	7,500	2,630	5,260	10,500	7,010	5,260	11,200	13,200	2,550	5,140	2,350	2,800
10	6,270	2,750	7,400	14,800	7,540	5,140	11,400	10,500	4,350	5,380	1,800	3,580
11	8,940	2,100	6,880	14,800	8,380	5,260	12,600	7,820	2,500	4,240	2,550	3,580
12	6,280	2,250	7,400	15,000	9,640	5,500	11,100	6,490	2,000	3,150	3,690	2,950
13	5,500	3,080	7,960	15,800	10,100	4,900	11,700	5,860	1,390	2,750	5,140	3,840
14	4,790	3,690	6,320	15,300	11,700	4,240	12,000	3,580	1,660	2,650	5,140	4,650
15	4,900	3,360	5,980	14,200	11,700	4,570	12,000	2,650	2,050	2,750	4,790	3,150
16	5.020	4,350	6,100	12,400	12,000	4,680	11,800	2,000	2,050	1,800	4,350	2,650
17	4,410	3,050	6,100	9,980	11,800	4,790	11,400	5,040	2,050	1,700	4,350	2,500
18	3,800	2,450	6,880	8,520	11,000	5,140	8,800	4,440	2,200	1,340	5,140	1,900
19	3,580	2,950	8,240	7,400	9,640	5,860	7,140	4,900	3,470	1,260	4,570	1,340
20	3,470	2,400	9,080	6,620	8,240	6,360	6,020	4,900	3,580	2,480	3,050	1,300
21	3,470	2,300	8,390	5,860	7,540	7,540	4,240	2,100	4,680	4,540	1,850	1,700
22	3,050	1,700	6,970	5,380	7,820	9,500	5,600	2,050	3,150	7,010	1,300	1,750
23	2,750	2,100	10,000	6,100	8,660	11,000	5,860	2,950	3,800	6,230	2,180	1,700
24	2,450	2,350	10,000	6,620	9,220	12,800	5,260	3,580	2,550	5,020	2,750	1,480
25	1,440	2,400	11,100	7,540	9,920	15,000	4,570	2,750	2,250	4,130	2,660	1,220
26	1,800	2,250	11,100	9,880	11,000	16,800	5,380	3,690	1,620	2,850	1,900	1,060
27	2,770	2,250	11,600	9,800	11,700	16,800	7,140	3,150	1,260	1,750	2,750	1,180
28	2,050	2,400	9,270	9,780	13,200	15,800	5,860	2,950	1,890	1,750	2,000	1,570
29	2,100	3,250	7,170	10,200	-	14,400	5,160	3,050	3,080	2,550	3,050	1,620
30	2,400	3,250	5,500	11,100	-	10,600	5,980	2,950	4,240	3,360	3,360	1,620
31	2,750	-	4,350	13,000	-	9,500	-	3,910	-	2,950	3,360	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	133,540	9,220	1,440	4,308	1.12	1.29
November	74,320	4,350	1,480	2,477	.642	.72
December	209,190	11,600	2,500	6,748	1.75	2.02
Calendar year 1936	2,493,120	48,200	935	6,812	1.76	24.02
January	294,080	15,800	4,460	9,486	2.46	2.84
February	275,140	13,200	7,010	9,826	2.55	2.66
March	265,740	16,800	4,240	8,572	2.22	2.56
April	240,670	12,600	4,240	8,022	2.08	2.32
May	196,790	14,000	2,000	6,348	1.64	1.89
June	82,400	4,680	1,260	2,747	.712	.79
July	107,920	7,010	1,260	3,481	.902	1.04
August	90,910	5,140	1,300	2,933	.760	.88
September	74,390	4,650	1,060	2,480	.642	.72
Water year 1936-37	2,045,090	16,800	1,060	5,603	1.45	19.73

Flint River at Albany, Ga.

Location.- Water-stage recorder, lat. 31°36', long. 84°09', at Georgia Northern Railway bridge in Albany, Dougherty County. Zero of gage is 150.00 feet above mean sea level (general adjustment of 1927).

Drainage area.- 5,230 square miles, revised.

Records available.- September 1929 to September 1937. February 1897 to January 1902 (gage heights only) and February 1902 to June 1921, at site 700 feet downstream.

Average discharge.- 26 years (1902-20, 1929-37), 6,488 second-feet.

Extremes.- Maximum discharge during year, 20,800 second-feet Mar. 27 (gage height, 16.0 feet); minimum, 585 second-feet June 27 (gage height, 1.80 feet); minimum daily, 640 second-feet June 27.

1897-1921, 1929-37: Maximum gage height, 32.4 feet, former site and datum (U. S. Weather Bureau gage), Mar. 25, 1897 (discharge not determined); minimum discharge, 58 second-feet Nov. 18, 1933 (gage height, 0.44 foot); minimum daily discharge, 327 second-feet Aug. 24, 1930.

Maximum stage known, 37.84 feet, present datum, Jan. 21, 1925 (discharge, 92,000 second-feet).

Remarks.- Records good. Discharge for Oct. 1-4 computed on basis of records at Oakfield and Bainbridge. Flow regulated by power plants upstream.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.5	425	4.0	2,290	10.0	12,200
2.0	695	5.0	3,610	12.0	15,200
2.5	1,000	6.0	5,230	14.0	18,000
3.0	1,350	8.0	8,890	16.0	20,600

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,500	2,230	4,080	5,410	16,300	16,000	11,900	9,070	3,900	4,450	2,120	5,240
2	2,400	2,490	3,670	6,710	14,900	13,900	9,240	11,700	3,700	4,260	2,320	4,990
3	5,000	2,750	3,320	8,020	14,500	13,000	8,350	13,600	3,170	3,920	2,560	4,760
4	6,000	2,700	5,580	8,900	13,600	11,700	7,990	14,500	3,320	3,360	3,900	4,770
5	5,630	2,680	4,630	8,960	12,700	10,100	7,810	16,300	5,650	2,220	2,960	4,740
6	7,480	2,620	4,970	9,100	11,600	9,580	12,400	16,700	3,640	3,380	2,480	4,070
7	8,780	2,240	6,120	10,400	10,600	8,520	16,600	17,000	3,820	7,550	1,650	4,520
8	10,500	2,210	8,880	10,600	9,750	8,620	17,600	16,900	2,990	7,400	3,520	3,060
9	10,500	1,760	6,800	11,700	9,410	7,700	18,300	16,500	3,180	6,600	3,270	2,840
10	7,900	2,810	9,600	15,100	10,100	7,400	18,100	14,600	4,340	7,360	2,500	3,920
11	11,900	3,370	9,040	18,100	11,700	8,340	18,100	10,300	3,760	6,140	2,800	4,600
12	10,600	2,820	9,650	16,700	14,300	6,060	17,400	8,530	2,580	4,000	3,800	3,760
13	8,470	2,760	9,720	17,400	14,900	5,020	16,000	8,350	1,660	4,000	6,320	3,400
14	7,280	3,400	8,150	17,600	15,200	6,620	16,000	6,860	2,250	3,740	6,360	5,700
15	7,870	3,960	8,700	16,900	15,800	4,890	15,800	4,380	2,550	3,680	6,810	4,300
16	5,970	6,520	8,040	15,600	15,100	6,900	15,300	2,480	2,770	3,770	7,880	3,050
17	6,640	4,200	8,780	12,200	14,900	6,750	14,500	3,610	2,880	3,140	5,890	2,970
18	4,420	3,770	9,430	9,920	14,300	6,780	13,100	6,000	2,290	1,900	7,090	2,770
19	5,060	3,640	12,000	9,580	13,100	7,390	10,600	5,330	3,420	1,730	7,260	1,370
20	4,720	3,450	13,000	8,710	11,600	9,580	9,920	7,930	3,960	2,960	4,500	1,550
21	4,550	2,840	12,400	7,990	11,100	10,300	7,620	3,930	6,040	4,280	4,000	2,450
22	4,550	2,310	9,580	7,240	11,900	13,400	7,430	2,640	4,490	6,840	719	2,260
23	4,230	2,660	13,700	7,240	13,100	15,500	7,830	2,910	5,200	7,520	1,960	2,270
24	3,940	3,020	12,700	7,810	13,900	17,000	6,540	4,280	3,960	6,840	3,670	2,300
25	3,620	3,010	13,400	8,530	14,300	18,800	7,520	4,440	3,260	5,460	2,910	2,000
26	3,260	2,830	13,000	10,900	14,800	20,100	6,890	3,880	2,910	4,000	2,360	1,020
27	3,920	3,300	15,900	12,800	15,200	20,800	9,560	4,360	640	3,080	3,500	1,980
28	2,710	2,800	11,900	13,000	16,000	19,800	8,940	3,870	2,650	2,120	3,060	2,080
29	2,010	3,660	9,310	14,000	-	18,800	8,670	3,810	2,920	2,780	3,960	2,300
30	2,220	4,100	6,350	15,100	-	16,200	9,300	3,760	4,910	3,780	5,450	2,360
31	3,920	-	5,380	16,300	-	15,300	-	3,800	-	4,000	4,460	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	178,550	11,900	2,010	5,760	1.10	1.27
November	92,910	6,520	1,760	3,097	.592	.66
December	275,780	13,900	3,320	8,896	1.70	1.96
Calendar year 1936	3,274,692	51,800	652	8,947	1.71	23.28
January	358,520	18,100	5,410	11,670	2.21	2.55
February	374,660	16,300	9,410	13,380	2.56	2.67
March	358,550	20,500	4,890	11,570	2.21	2.55
April	353,310	18,300	6,540	11,780	2.25	2.51
May	252,320	17,000	2,480	8,139	1.56	1.80
June	102,840	6,040	640	3,428	.655	.73
July	138,260	8,840	1,730	4,460	.853	.98
August	122,039	7,880	719	3,937	.753	.87
September	97,400	5,700	1,020	3,247	.621	.69
Water year 1936-37	2,705,139	20,500	640	7,411	1.42	19.24

Flint River at Bainbridge, Ga.

Location.- Water-stage recorder, lat. 30°55', long. 84°34', at Decatur County Memorial Bridge on U. S. Highway 84, in Bainbridge, Decatur County. Zero of gage is 58.06 feet above mean sea level.

Drainage area.- 7,350 square miles, revised.

Records available.- January 1908 to December 1913 and December 1928 to September 1937.

Extremes.- Maximum discharge during year, 25,000 second-feet Apr. 10, 11 (gage height, 21.8 feet); minimum, 3,450 second-feet Nov. 10; minimum gage height 5.82 feet Sept. 28.

1908-13, 1928-37: Maximum discharge, 83,200 second-feet Mar. 21, 1929 (gage height, 37.73 feet); minimum, 2,300 second-feet Dec. 7, 1931 (gage height, 3.80 feet).

Maximum stage known, 40.9 feet, present datum, Jan. 24, 1925 (discharge, 101,000 second-feet).

Remarks.- Records fair. Some regulation by power plants upstream.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,300	5,200	5,500	9,530	16,900	17,800	17,200	13,000	6,560	6,120	6,120	7,360
2	4,400	4,700	5,700	9,400	17,000	18,000	15,500	14,600	6,670	6,340	5,400	7,720
3	4,200	4,200	5,800	9,530	16,400	16,900	13,600	16,900	6,670	6,340	4,800	7,840
4	4,300	4,400	5,400	10,400	16,100	16,000	12,600	18,300	6,230	6,010	4,900	7,960
5	6,670	4,400	6,340	11,000	15,500	14,900	12,000	18,800	6,120	5,700	5,600	7,720
6	6,560	4,400	7,000	11,100	14,800	13,700	13,000	19,300	7,360	5,000	5,500	7,840
7	7,600	4,200	7,000	11,200	13,800	13,000	17,200	19,900	6,780	5,000	4,900	7,360
8	8,680	4,100	7,480	12,000	13,000	12,100	20,800	19,900	6,670	7,720	4,400	7,360
9	9,790	4,100	9,160	12,400	12,300	11,900	23,400	19,700	6,340	8,440	4,900	6,560
10	10,400	3,630	8,920	13,100	12,100	11,200	24,800	19,400	6,120	8,080	5,300	5,900
11	9,660	3,900	9,920	14,900	12,600	10,800	24,800	18,000	6,560	8,680	4,900	6,450
12	11,100	4,800	10,300	16,900	13,800	11,200	24,200	15,200	6,560	8,200	4,800	6,780
13	9,920	4,400	10,300	16,700	16,100	9,920	23,400	13,300	5,700	6,890	5,600	6,670
14	10,300	4,700	10,700	17,200	17,400	8,680	21,900	12,400	4,900	6,560	6,890	6,010
15	9,790	4,700	10,400	17,500	17,400	9,530	20,800	11,400	4,800	6,340	7,480	6,120
16	9,660	5,400	10,300	17,400	17,200	8,680	20,100	9,660	5,100	6,230	6,780	7,000
17	8,560	6,560	9,920	16,700	16,900	9,160	19,400	7,840	5,200	6,120	6,120	5,900
18	8,320	6,120	10,600	14,900	16,600	9,400	18,500	7,720	5,300	5,700	6,560	5,600
19	7,240	5,500	11,400	12,800	16,100	9,400	17,200	9,280	4,900	5,100	6,340	5,400
20	7,240	5,500	12,800	12,100	15,200	9,920	15,400	9,040	5,300	4,300	6,450	5,000
21	7,000	5,300	13,800	11,500	14,600	11,100	14,300	9,920	6,010	4,900	7,600	4,200
22	6,780	4,900	14,200	10,800	14,600	12,300	12,700	7,960	7,120	6,120	7,120	4,900
23	6,560	4,600	13,000	10,300	15,400	14,400	12,100	6,780	6,780	8,560	5,100	4,900
24	6,340	4,300	14,200	10,000	16,600	16,400	12,100	6,450	6,560	8,920	4,600	4,900
25	6,120	4,800	14,200	10,300	17,500	18,200	11,100	7,360	6,340	8,800	5,900	4,800
26	5,800	4,800	14,600	10,700	17,800	19,900	11,600	7,600	5,700	8,080	6,010	4,600
27	5,500	4,700	14,600	11,700	17,700	21,100	11,200	7,120	5,300	7,000	5,500	4,100
28	5,700	4,800	14,800	13,300	17,700	21,900	12,300	7,360	4,100	6,230	5,900	3,900
29	5,200	4,800	14,000	14,000	-	21,700	12,100	7,000	4,200	5,300	6,120	4,300
30	4,600	5,100	12,300	15,000	-	21,100	11,400	6,780	5,000	5,300	6,450	4,300
31	4,400	-	10,600	16,100	-	19,500	-	6,670	-	5,800	7,480	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	222,690	11,100	4,200	7,184	0.977	1.13
November	143,010	6,560	3,630	4,767	.649	.72
December	325,940	14,800	5,400	10,490	1.43	1.65
Calendar year 1936	4,115,010	51,300	3,100	11,240	1.53	20.84
January	400,460	17,500	9,400	12,920	1.76	2.03
February	439,100	17,800	12,100	15,680	2.13	2.22
March	439,790	21,900	8,680	14,190	1.93	2.22
April	496,700	24,800	11,100	16,560	2.25	2.51
May	374,840	19,900	6,450	12,090	1.64	1.89
June	176,950	7,360	4,100	5,898	.802	.89
July	203,880	8,920	4,300	6,577	.895	1.03
August	181,520	7,600	4,400	5,855	.797	.92
September	179,450	7,960	3,900	5,982	.814	.91
Water year 1936-37	3,583,630	24,800	3,630	9,818	1.34	18.12

Mosquito Creek at Chattahoochee, Fla.

Location.- Water-stage recorder, lat. 30°43', long. 84°49', in sec. 34, T. 3 N., R. 6 W., at Chattahoochee, 500 feet upstream from bridge on U. S. Highway 90 and 600 feet downstream from pumping plant and dam.

Drainage area.- 187 square miles.

Records available.- March 1936 to September 1937.

Extremes.- Maximum discharge during year, 1,310 second-feet Sept. 1 (gage height, 11.54 feet), from rating curve extended above 500 second-feet; minimum, 0.3 second-foot Oct. 7, 8 (gage height, 0.88 foot).
1936-37: Maximum discharge, that of Sept. 1, 1937; minimum, that of Oct. 7, 8, 1936; minimum gage height, 0.88 foot Sept. 22, Oct. 7, 8, 1936.

Remarks.- Records fair above 40 second-feet and poor below. Marked diurnal regulation from pumping plant 600 feet upstream. Amount of water diverted at dam for supply of Florida State Hospital is not measured, but is estimated at one million gallons a day. It is believed that a serious loss of water from reservoir by seepage underground accounts for low run-off from this drainage area.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.9	0.4	1.6	12	3.5	122	7.0	520
1.0	1.0	1.8	19	4.0	160	8.0	680
1.1	1.8	2.0	28	4.5	208	9.0	850
1.2	3.1	2.5	56	5.0	260	10.0	1,030
1.4	6.8	3.0	87	6.0	380	11.0	1,210

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	0.6	16	0.9	50	62	108	101	94	160	108	1,160
2	47	.6	26	27	50	80	77	238	53	84	56	616
3	38	19	41	27	47	50	71	344	53	56	50	408
4	38	9.5	59	41	14	41	122	320	24	17	50	272
5	41	41	68	21	3.0	19	198	198	71	44	36	178
6	33	41	41	28	23	53	284	136	101	38	29	143
7	.4	.9	41	38	44	33	160	108	143	17	38	115
8	10	.4	41	23	56	36	218	90	94	41	11	101
9	38	19	41	2.7	62	47	492	84	77	38	26	80
10	115	28	41	20	94	41	356	84	56	1.8	38	77
11	198	1.6	41	36	115	23	188	74	44	32	38	77
12	248	13	38	28	108	44	122	65	21	53	38	77
13	101	14	19	29	71	44	94	90	47	65	41	74
14	56	10	18	30	74	12	87	80	47	77	68	59
15	47	20	50	3.8	59	41	80	77	33	44	90	47
16	44	15	108	17	50	44	68	101	8.7	19	122	44
17	41	21	101	30	47	36	84	84	21	33	84	41
18	38	14	56	28	22	2.8	71	74	47	11	41	56
19	38	1.3	65	36	11	23	74	53	24	38	33	50
20	38	8.7	56	33	47	71	77	38	18	19	21	108
21	38	9.5	50	14	101	94	59	33	47	38	21	238
22	38	13	27	33	151	77	56	23	47	38	26	248
23	41	23	27	20	160	47	53	68	5.6	13	53	122
24	.6	15	28	21	84	50	56	65	22	36	65	94
25	.6	5.4	28	33	77	115	151	26	36	59	74	84
26	16	1.5	20	80	77	160	208	20	4.6	41	44	71
27	38	24	24	80	50	238	160	44	7.0	32	56	56
28	1.2	41	24	84	50	218	90	38	27	28	44	59
29	18	7.5	24	84	-	136	80	26	122	28	44	53
30	33	19	26	84	-	87	84	19	332	65	74	44
31	26	-	44	50	-	77	-	77	-	198	272	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,467.6	248	0.4	47.3	0.253	0.29
November	437.5	41	.4	14.6	.078	.09
December	1,289	108	16	41.6	.222	.26
Calendar year						
January	1,082.4	84	.9	34.9	.187	.22
February	1,797	160	3.0	64.2	.343	.36
March	2,101.8	238	2.8	67.8	.363	.42
April	4,028	492	53	134	.717	.80
May	2,878	344	19	92.8	.496	.57
June	1,726.9	332	4.6	57.6	.308	.34
July	1,463.8	198	1.8	47.2	.252	.29
August	1,791	272	11	57.8	.309	.36
September	4,852	1,160	41	162	.866	.97
Water year 1936-37	24,915.0	1,160	.4	68.3	.365	4.97

Econfina Creek near Bennett, Fla.

Location.- Staff gage, lat. 30°27', long. 85°33', in sec. 20, T. 1 S., R. 13 W., at county highway bridge, 1.5 miles southwest of Bennett.

Drainage area.- 150 square miles (including inflow from several springs).

Records available.- November 1935 to September 1937.

Extremes.- Maximum discharge observed during year, 2,950 second-feet Sept. 2 (gage height, 11.00 feet), from rating curve extended above 1,100 second-feet; minimum discharge, 444 second-feet on many days in October, November, January, February, March, and August; minimum gage height, 5.16 feet Jan. 16.

1935-37: Maximum discharge observed, that of Sept. 2, 1937; minimum, 380 second-feet Nov. 11, 12, 23-26, 1935, June 26 to July 5, July 7, 8, 1936; minimum gage height, 4.68 feet Dec. 21, 1935.

Maximum stage known, 15.0 feet, from floodmarks (discharge not determined), date uncertain, but probably in March 1929.

Remarks.- Records good. Gage read once daily. Inclusion in discharge of large ground-water inflow results in excessive rate of run-off square mile as based on surface-drainage area.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-11)

5.0	418	7.0	752	9.0	1,360
5.5	486	7.5	874	9.5	1,600
6.0	562	8.0	1,020	10.0	1,930
6.5	648	8.5	1,180	10.5	2,350
				11.0	2,950

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	562	486	500	515	500	530	546	630	458	515	612	1,240
2	562	486	578	500	486	515	530	822	472	578	546	2,950
3	486	486	578	500	486	500	515	990	458	578	500	1,800
4	472	486	648	486	472	486	562	874	458	578	472	1,140
5	458	472	612	472	458	472	822	752	458	515	458	930
6	444	472	546	472	444	458	848	668	546	500	458	930
7	472	472	515	472	444	458	752	612	730	515	458	930
8	472	472	530	472	444	486	630	595	798	486	444	874
9	578	472	530	458	458	472	798	562	730	472	444	798
10	798	472	486	458	630	458	960	530	562	546	486	730
11	1,020	458	486	458	648	458	798	530	515	530	486	730
12	1,080	458	472	458	578	458	630	515	515	486	500	730
13	774	472	472	444	500	444	578	515	515	486	500	688
14	612	472	472	458	500	444	546	530	500	595	500	630
15	578	472	595	444	472	458	546	546	500	612	515	612
16	562	458	730	444	472	458	546	530	486	562	530	595
17	562	458	708	444	444	444	530	515	486	500	515	578
18	546	458	578	444	444	444	515	500	472	472	500	578
19	530	458	562	444	444	444	515	500	562	515	472	595
20	515	458	668	458	486	444	515	486	752	500	458	752
21	515	458	612	458	668	546	515	500	648	486	458	730
22	515	444	546	444	752	530	515	515	546	500	530	668
23	515	444	515	444	730	486	515	530	515	486	546	612
24	515	444	486	444	612	458	500	530	486	500	500	595
25	500	500	486	444	595	648	612	500	472	486	630	578
26	500	486	472	578	578	752	822	486	472	472	530	562
27	486	472	486	612	530	930	930	486	472	472	578	546
28	486	458	486	562	530	848	668	472	500	486	530	546
29	486	458	486	562	-	730	578	472	612	486	515	530
30	486	458	472	562	-	595	562	472	612	515	515	530
31	486	-	486	530	-	562	-	458	-	530	500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	17,573	1,080	444	566	3.77	4.35
November	14,020	500	444	467	3.11	3.47
December	16,799	730	472	542	3.61	4.16
Calendar year 1936	187,953	1,310	380	514	3.43	46.59
January	14,941	612	444	482	3.21	3.70
February	14,805	752	444	529	3.53	3.68
March	16,416	930	444	530	3.53	4.07
April	18,899	960	500	630	4.20	4.69
May	17,623	990	458	568	3.79	4.37
June	16,308	798	458	544	3.63	4.05
July	15,960	612	472	515	3.43	3.95
August	15,686	830	444	506	3.37	3.88
September	24,707	2,950	530	824	5.49	6.12
Water year 1936-37	203,737	2,950	444	558	3.72	50.49

Choctawatchee River near Newton, Ala.

Location.- Wire-weight gage, lat. 31°21', long. 85°37', in T. 4 N., R. 24 E., at bridge on U. S. Highway 231, 1,500 feet above mouth of Hurricane Creek, 0.8 mile north of Newton, and a mile below Atlantic Coast Line Railroad bridge.

Drainage area.- 693 square miles.

Records available.- May 1935 to September 1937. June 1906 to August 1908 and October 1911 to August 1912, at site 260 feet upstream. November 1921 to September 1927 at site 800 feet upstream.

Extremes.- Maximum discharge during water year 1935-36, 25,800 second-feet, revised, Jan. 20 (gage height, 29.5 feet, from graph based on gage readings); minimum observed, 57 second-feet June 22 (gage height, 1.51 feet), result of temporary regulation; minimum daily, 82 second-feet July 4.

Maximum discharge during water year 1936-37, 16,200 second-feet Sept. 2 (gage height, 26.4 feet, from graph based on gage readings); minimum observed, 52 second-feet June 4 (gage height, 1.40 feet), result of temporary regulation; minimum daily, 104 second-feet June 4.

1906-8, 1911-12, 1921-27, 1935-37: Maximum discharge, that of Jan. 20, 1936; minimum observed, that of June 4, 1937; minimum daily, 74 second-feet Sept. 11, 1925.

Maximum stage known, about 45 feet, present datum, Mar. 15, 1929 (discharge not determined).

Remarks.- Records good except those for days of backwater effect, Jan. 1, 2, 1936, and those below 200 second-feet after Jan. 20, 1936, which are fair. Gage read twice daily or oftener; gage-height graphs drawn for periods of rapidly changing stage. Some regulation by small gristmills upstream.

Discharge, in second-feet, 1935-37

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	193	220	377	1,120	1,480	1,590	1,530	790	279	104	6,540	374
2	156	193	343	3,960	1,480	1,480	2,170	730	261	98	7,330	335
3	168	180	295	7,430	1,770	1,360	1,860	630	261	98	4,980	279
4	145	180	264	7,010	3,210	1,300	1,770	630	227	82	2,860	279
5	145	156	264	4,410	4,280	1,360	1,710	585	212	104	1,710	384
6	117	168	249	6,080	4,500	1,190	1,880	518	184	127	1,420	394
7	117	168	264	7,170	4,930	1,190	1,770	455	171	147	1,130	414
8	126	206	295	4,770	4,060	1,130	1,770	374	127	159	900	455
9	126	206	564	4,000	3,210	1,130	1,710	227	562	147	730	171
10	117	234	611	3,360	2,460	1,070	5,350	394	562	127	562	434
11	117	249	564	2,760	2,110	1,070	6,970	354	394	111	1,410	630
12	135	279	564	2,400	1,940	1,010	4,440	354	374	119	1,480	497
13	109	587	659	2,060	3,090	1,010	2,920	335	354	227	1,190	730
14	117	708	659	1,800	4,770	900	2,400	316	297	476	1,190	1,190
15	126	564	659	1,800	5,400	960	1,770	335	279	434	1,300	630
16	126	433	587	1,650	4,610	960	1,530	316	244	354	1,130	518
17	117	377	541	1,650	4,220	1,420	1,360	316	227	316	960	455
18	117	327	518	2,060	2,980	1,300	1,240	316	197	730	1,010	394
19	126	279	433	8,500	2,170	1,240	1,130	354	171	630	840	354
20	117	279	377	19,400	2,060	1,190	1,010	476	147	840	630	316
21	117	264	343	13,500	2,000	1,130	960	518	127	900	540	279
22	126	249	234	5,120	2,060	1,070	840	414	87	900	540	261
23	126	234	126	2,860	1,880	960	840	374	137	730	1,190	281
24	117	234	135	2,350	1,710	900	960	335	127	585	1,300	212
25	117	220	206	2,000	1,650	900	960	297	119	518	960	147
26	117	220	343	1,820	1,530	900	1,010	279	127	414	680	227
27	109	234	343	1,820	1,650	840	1,010	261	119	394	562	212
28	109	311	343	1,710	1,710	1,420	960	316	119	297	455	212
29	126	395	587	1,530	1,650	1,480	900	244	111	197	374	261
30	135	433	968	1,530	-	1,300	840	92	104	212	414	497
31	206	-	968	1,480	-	1,190	-	147	-	2,390	374	-

Discharge, in second-feet, of Choctawhatchee River near Newton, Ala., 1935-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	790	244	630	730	1,130	1,190	960	1,910	316	900	455	11,800
2	730	227	680	790	1,010	1,190	900	2,010	279	630	414	12,800
3	840	227	840	840	840	1,130	790	2,980	279	434	476	8,160
4	630	227	840	840	790	1,010	840	2,400	104	394	336	4,000
5	585	227	840	730	730	900	2,940	1,940	227	374	261	3,580
6	540	244	790	840	680	980	9,640	1,710	630	960	227	3,040
7	414	244	840	840	630	900	9,990	1,680	840	1,010	227	2,400
8	414	244	1,010	790	586	900	5,450	1,380	840	1,010	227	1,940
9	562	244	900	790	1,940	840	4,060	1,190	730	840	297	1,770
10	900	261	730	680	2,860	790	2,520	1,010	630	1,010	279	1,530
11	840	261	680	630	2,230	790	2,000	960	455	1,010	680	1,380
12	730	261	630	630	2,000	790	1,880	790	394	730	1,490	2,000
13	630	261	562	585	1,890	730	1,650	730	374	562	1,360	1,650
14	518	261	585	585	1,420	730	1,420	680	354	414	1,940	1,300
15	455	279	1,240	586	1,300	840	1,240	680	394	374	1,770	1,010
16	454	244	1,530	790	1,070	900	1,240	630	414	374	1,240	960
17	414	261	1,420	790	840	840	1,130	585	316	354	900	960
18	414	244	1,300	730	790	790	1,130	540	335	354	680	840
19	374	244	1,300	730	790	730	1,190	497	1,170	354	455	790
20	354	244	1,190	840	1,060	2,630	1,130	476	1,190	730	414	790
21	335	244	1,010	840	4,720	2,580	960	434	540	840	455	730
22	297	244	840	790	3,380	2,290	1,240	476	414	1,010	585	730
23	297	244	730	730	2,690	2,000	1,850	680	335	790	840	680
24	297	261	630	680	2,230	1,820	2,690	1,010	261	730	730	585
25	297	354	630	900	1,820	2,000	2,750	730	227	730	585	540
26	297	414	585	1,710	1,420	2,000	2,060	540	212	680	518	518
27	297	414	562	1,420	1,130	1,650	1,650	497	297	414	585	497
28	261	394	562	1,420	1,130	1,130	1,240	434	414	354	730	497
29	261	374	562	1,190	-	1,300	1,130	394	1,040	434	730	478
30	261	394	562	1,070	-	1,190	1,070	336	2,100	374	840	455
31	261	-	585	1,070	-	1,130	-	336	-	455	1,570	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1935	4,022	298	100	130	0.188	0.22
November	8,787	708	186	293	.425	.47
December	13,683	968	126	441	.636	.73
Calendar year						
January 1936	189,100	19,400	1,190	4,155	8.01	6.93
February	80,570	5,400	1,480	2,778	4.01	4.32
March	35,980	1,880	840	1,160	1.67	1.92
April	84,890	5,970	840	1,980	8.63	2.93
May	12,082	790	92	390	.563	.65
June	8,777	562	87	286	.386	.36
July	12,987	2,390	88	418	.603	.70
August	46,691	7,330	374	1,506	2.17	2.50
September	11,772	1,190	147	392	.566	.65
Water year 1935-36	418,991	19,400	88	1,189	1.64	22.36
October 1936	14,780	900	261	476	0.686	0.79
November	8,886	414	227	276	.398	.44
December	25,795	1,530	362	832	1.20	1.38
Calendar year 1936	439,300	19,400	82	1,204	1.74	23.55
January 1937	26,585	1,710	585	858	1.24	1.43
February	42,505	4,720	585	1,518	2.19	2.28
March	38,810	2,630	730	1,245	1.80	2.08
April	68,740	9,990	790	2,291	3.31	3.69
May	51,535	2,980	336	1,011	1.46	1.68
June	18,111	2,100	104	537	.775	.86
July	19,689	1,010	354	635	.913	1.05
August	22,995	1,940	227	719	1.04	1.20
September	88,218	12,800	488	2,274	3.28	3.66
Water year 1936-37	382,836	12,800	104	1,049	1.51	20.54

Note.- Revised records for 1935-36 supersede those published in Water-Supply Paper 802.

Choctawhatchee River at Caryville, Fla.

Location.- Water-stage recorder, lat. 30°47', long. 85°50', in sec. 10, T. 4 N., R. 16 W., at highway bridge 300 feet below Louisville & Nashville Railroad bridge and three-quarters of a mile west of Caryville. Zero of gage is 39.03 feet above mean sea level.

Drainage area.- 3,490 square miles.

Records available.- August 1929 to September 1937.

Extremes.- Maximum discharge during year, 56,600 second-feet Sept. 4 (gage height, 15.55 feet); minimum, 1,500 second-feet Nov. 23 (gage height, 1.65 feet).
1929-37: Maximum discharge, that of Sept. 4, 1935; minimum, 865 second-feet Oct. 28, 1931; minimum gage height, -0.27 foot June 30, 1935.
Maximum stage known, 27.1 feet Mar. 17, 1929, from U. S. Weather Bureau records and floodmarks (discharge, 206,000 second-feet, determined by slope-area method).

Remarks.- Records excellent.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.0	1,260	6.0	4,220	11.0	16,000
2.0	1,680	7.0	5,250	12.0	21,800
3.0	2,190	8.0	6,700	13.0	30,100
4.0	2,750	9.0	8,800	14.0	39,800
5.0	3,410	10.0	11,800	15.0	50,000
				16.0	61,000

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,300	1,640	2,140	3,270	6,540	8,800	7,460	6,220	2,520	4,720	2,520	9,100
2	2,850	1,640	2,610	3,480	6,380	7,880	6,540	7,460	2,460	5,770	2,940	34,100
3	3,270	1,590	3,270	3,870	5,900	7,260	5,900	7,260	2,360	6,060	3,070	47,800
4	3,000	1,590	3,480	3,870	5,380	6,700	5,510	12,200	2,190	4,340	2,940	56,600
5	2,810	1,590	3,790	4,040	4,810	6,060	5,770	13,700	2,190	3,070	2,580	51,100
6	2,520	1,640	3,710	3,960	4,400	5,510	8,290	13,700	2,820	2,810	2,190	42,800
7	2,360	1,640	3,560	4,040	4,130	5,250	14,600	12,600	4,200	3,200	2,020	35,800
8	2,360	1,590	3,870	4,220	3,870	5,030	27,600	11,100	5,380	3,710	1,870	30,100
9	2,300	1,590	4,500	4,220	4,040	5,030	38,800	9,320	5,380	4,040	1,870	24,000
10	2,880	1,590	4,500	4,130	5,340	5,030	39,800	7,460	4,500	4,500	2,310	19,500
11	3,710	1,640	4,040	4,040	7,060	4,810	35,800	6,220	3,710	4,600	3,690	16,000
12	4,220	1,640	3,640	3,870	9,060	4,600	31,000	5,510	3,340	4,400	4,500	15,500
13	3,870	1,640	3,340	3,640	11,100	4,400	24,800	5,030	3,270	4,040	4,040	14,600
14	3,340	1,640	3,070	3,480	11,400	4,220	20,100	4,700	3,140	3,710	3,870	13,300
15	2,940	1,680	3,140	3,340	10,500	4,040	15,500	4,400	2,940	3,480	4,600	11,400
16	2,690	1,640	4,010	3,270	9,060	4,130	11,800	4,220	2,750	3,000	5,510	9,320
17	2,460	1,540	5,330	3,560	7,660	4,600	9,600	4,040	2,940	2,630	5,770	7,460
18	2,410	1,540	6,220	3,710	6,380	4,700	8,100	3,710	3,200	2,460	5,030	6,220
19	2,300	1,540	6,060	3,710	5,380	4,500	7,260	3,560	3,140	2,600	3,960	5,770
20	2,140	1,540	5,510	3,960	5,030	4,700	6,540	3,340	3,000	3,340	3,070	5,510
21	2,080	1,540	5,250	4,810	5,740	6,170	6,060	3,140	3,340	3,270	2,580	5,510
22	1,970	1,540	4,920	5,640	9,340	8,470	5,640	3,140	3,070	3,340	2,410	5,380
23	1,920	1,540	4,500	5,640	15,200	11,100	5,510	3,710	2,630	3,340	3,480	5,140
24	1,920	1,540	4,130	5,380	20,100	12,800	5,900	4,400	2,360	4,040	5,030	4,810
25	1,870	1,590	3,790	5,140	20,100	12,200	6,540	4,920	2,140	4,600	5,510	4,500
26	1,870	1,970	3,560	5,510	16,600	11,400	6,880	4,810	2,020	4,400	5,380	4,220
27	1,770	2,240	3,410	6,220	13,300	11,800	10,800	4,220	2,080	3,960	4,810	3,960
28	1,720	2,190	3,340	6,880	10,800	12,600	10,800	3,710	2,410	3,710	4,400	3,790
29	1,720	2,080	3,270	7,260	-	11,800	9,600	3,340	2,940	3,480	4,400	3,710
30	1,680	2,020	3,270	6,880	-	10,800	7,260	3,070	3,410	2,810	4,810	3,560
31	1,640	-	3,200	6,700	-	8,800	-	2,750	-	2,630	4,920	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	76,890	4,220	1,640	2,480	0.711	0.82
November	50,390	2,240	1,540	1,680	.481	.54
December	122,430	6,220	2,140	3,949	1.13	1.30
Calendar year 1936	2,522,080	40,800	1,240	6,891	1.97	26.88
January	141,740	7,260	3,270	4,572	1.31	1.51
February	244,600	20,100	3,870	8,736	2.50	2.60
March	224,990	12,600	4,040	7,258	2.08	2.40
April	405,760	39,800	5,510	13,530	3.88	4.33
May	186,960	13,700	2,750	6,031	1.73	1.99
June	91,830	5,380	2,020	3,081	.877	.98
July	116,060	6,060	2,460	3,744	1.07	1.23
August	116,080	5,770	1,870	3,746	1.07	1.23
September	499,460	55,500	3,560	16,650	4.77	5.32
Water year 1936-37	2,277,190	55,600	1,540	6,239	1.79	24.25

Choctawhatchee River near Bruce, Fla.

Location.- Water-stage recorder, lat. 30°27', long. 85°54', in sec. 36, T. 1 N., R. 17 W., at bridge on State Highway 10, about 5 miles southeast of Bruce. Zero of gage is 3.94 feet above mean sea level.

Drainage area.- 4,580 square miles.

Records available.- October 1930 to September 1937.

Extremes.- Maximum discharge during year, 70,200 second-feet Sept. 5, 6, from rating curve extended above 47,000 second-feet; maximum gage height, 16.04 feet Sept. 6; minimum discharge, 2,390 second-feet Nov. 20-24; minimum gage height, 1.50 feet Nov. 24.
1930-37: Maximum discharge, that of Sept. 5, 6, 1936; maximum gage height, that of Sept. 6, 1936; minimum discharge observed, 1,680 second-feet Nov. 10-13, 1931; minimum gage height, 0.42 foot July 1, 1935.
Maximum stage known, 25.0 feet in March 1929, from floodmarks (discharge, 220,000 second-feet, from rating curve extended above 47,000 second-feet).

Remarks.- Records excellent.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.0	2,060	7.0	9,900	13.0	40,500
2.0	2,750	8.0	12,900	14.0	49,500
3.0	3,540	9.0	16,700	15.0	59,500
4.0	4,420	10.0	20,800	16.0	70,200
5.0	5,620	11.0	25,700		
6.0	7,500	12.0	32,500		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,220	2,600	3,060	4,700	7,940	18,300	15,900	12,000	4,330	3,880	4,420	10,400
2	3,220	2,600	3,220	4,600	8,160	15,900	14,300	12,000	3,970	4,150	4,060	17,000
3	3,460	2,600	3,540	4,510	8,380	13,500	12,500	11,700	3,700	4,420	3,880	33,400
4	3,700	2,600	3,970	4,600	8,160	12,000	11,700	11,700	3,540	4,700	3,880	56,000
5	3,880	2,600	4,240	4,600	7,940	10,500	11,100	12,000	3,540	5,170	3,880	68,000
6	3,880	2,530	4,420	4,810	7,500	9,640	10,500	13,500	3,880	5,470	3,880	70,200
7	3,790	2,530	4,600	4,810	7,100	9,120	10,200	15,500	4,420	5,170	3,540	64,700
8	3,700	2,600	4,600	4,920	6,700	8,380	11,100	16,700	4,600	4,700	3,220	55,500
9	3,620	2,600	4,700	4,920	6,320	7,720	16,200	16,300	4,920	4,510	3,060	46,800
10	4,150	2,530	4,700	5,040	6,140	7,300	29,500	15,100	5,320	4,600	3,060	39,700
11	4,420	2,530	4,920	5,040	5,960	6,900	40,500	13,500	5,790	4,810	3,380	34,900
12	4,600	2,600	5,040	5,040	5,960	6,510	43,200	12,000	6,140	4,920	3,880	28,800
13	4,810	2,600	5,040	5,040	6,510	6,320	40,500	10,500	5,960	5,040	4,420	24,700
14	4,920	2,600	5,040	4,920	7,500	6,140	35,700	9,120	5,320	5,170	4,810	21,700
15	5,040	2,530	5,040	4,810	8,860	5,960	30,900	8,160	4,920	5,170	5,040	19,900
16	4,920	2,530	5,040	4,700	11,100	5,790	25,200	7,300	4,600	5,040	5,170	18,300
17	4,600	2,460	5,040	4,600	12,000	5,470	20,800	6,700	4,330	4,810	5,320	16,700
18	4,240	2,460	5,040	4,510	12,000	5,320	17,500	6,140	4,330	4,420	5,470	14,700
19	3,880	2,460	5,620	4,510	11,100	5,320	14,700	5,620	4,240	4,060	5,790	13,200
20	3,700	2,460	5,960	4,600	10,200	5,470	12,600	5,170	4,330	3,970	5,960	11,700
21	3,460	2,460	6,700	4,700	9,900	5,960	11,100	4,920	4,240	4,060	5,960	10,500
22	3,300	2,460	7,100	4,810	9,120	6,140	9,900	4,700	4,240	4,150	5,620	9,640
23	3,220	2,390	7,500	4,920	8,860	6,700	8,860	4,420	4,240	4,240	4,920	8,860
24	3,140	2,390	7,300	5,320	8,380	7,500	8,380	4,510	4,150	4,330	4,600	8,380
25	3,060	2,530	7,100	5,620	12,400	9,640	8,160	4,600	3,790	4,420	4,810	7,940
26	2,980	2,530	6,700	6,140	18,300	12,900	7,940	4,700	3,540	4,600	5,320	7,500
27	2,900	2,680	6,320	6,320	21,200	15,900	8,160	4,920	3,300	4,810	6,140	7,100
28	2,820	2,900	5,790	6,700	20,800	16,700	8,600	5,170	3,220	5,040	6,700	6,510
29	2,750	2,980	5,320	6,700	-	16,700	9,640	5,170	3,460	5,040	6,900	6,140
30	2,750	2,980	5,040	7,100	-	17,100	10,800	5,040	3,700	4,920	6,900	5,620
31	2,680	-	4,810	7,500	-	16,700	-	4,700	-	4,810	6,700	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	114,810	5,040	2,680	3,704	0.809	0.93
November	77,320	2,980	2,390	2,577	.563	.63
December	162,510	7,500	3,060	5,242	1.14	1.31
Calendar year 1936	3,334,890	48,600	2,060	9,112	1.99	27.06
January	161,110	7,500	4,510	5,197	1.13	1.30
February	275,490	21,200	5,960	9,839	2.15	2.24
March	303,500	18,300	5,320	9,790	2.14	2.47
April	516,240	43,200	7,940	17,210	3.76	4.20
May	273,560	16,700	4,420	8,825	1.93	2.22
June	130,060	6,140	3,220	4,335	.947	1.06
July	144,600	5,470	3,880	4,665	1.02	1.18
August	150,690	6,900	3,060	4,861	1.06	1.22
September	744,490	70,200	5,620	24,820	5.42	6.05
Water year 1936-37	3,054,380	70,200	2,390	8,368	1.83	24.81

Pea River at Elba, Ala.

Location.- Staff gage, lat. 31°24', long. 86°04', in SE¼ sec. 8, T. 5 N., R. 20 E., at bridge on U. S. Highway 84, 500 feet below Whitewater Creek, and half a mile above Beaver Dam Creek and Atlantic Coast Line Railroad bridge.

Drainage area.- 952 square miles.

Records available.- May 1935 to September 1937. June to December 1906 (gage heights only), at site half a mile downstream. Records of gage heights since January 1931 published in reports of U. S. Weather Bureau.

Extremes.- Maximum discharge observed during period ending Sept. 30, 1935, 4,730 second-feet July 31, Aug. 20 (gage height, 9.95 feet); minimum gage height observed, 3.65 feet Sept. 6.

Maximum discharge observed during water year 1935-36, 27,400 second-feet Jan. 21 (gage height, 29.55 feet); minimum gage height observed, 2.75 feet June 6.

Maximum discharge during water year 1936-37, 27,900 second-feet Apr. 6 (gage height, 30.0 feet, from graph based on gage readings); minimum gage height observed, 3.65 feet Aug. 21.

Maximum stage known, 43.5 feet, present site and datum, March 1929, from reports of U. S. Weather Bureau (discharge not determined).

Remarks.- Gage-height records good except those below 8.0 feet, which are affected by operation of power plant 4½ miles downstream and are fair. Daily discharge not determined below 3,530 second-feet because of variable stage-discharge relation resulting from operation of power plant at dam, 4½ miles downstream. Gage read twice daily; gage-height graphs drawn for periods of rapidly changing stage.

Rating table, water year 1934-35 to 1936-37 (gage height, in feet, and discharge, in second-feet)

8.0	3,530	13.0	8,090	25.5	22,200
8.7	3,770	19.2	15,040	27.5	24,600
9.1	3,990	20.8	17,700	28.1	25,400
9.6	4,370	22.0	18,900		
10.6	5,330	24.0	20,700		

Gage height, in feet, 1935-37

1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	5.15	4.85	7.90	6.48
2								-	5.00	5.15	7.25	5.70
3								-	5.20	4.90	6.65	5.20
4								-	6.70	5.10	6.05	4.90
5								6.81	5.95	5.00	5.40	4.65
6								-	5.80	5.50	5.25	4.30
7								-	6.78	5.20	6.40	4.30
8								6.84	5.45	4.25	5.70	5.00
9								6.78	5.30	4.85	6.05	5.25
10								6.50	5.30	5.05	5.70	5.25
11								6.32	5.00	6.58	6.55	4.95
12								8.55	4.80	6.60	6.25	5.90
13								6.42	4.40	6.65	4.55	7.10
14								6.10	4.85	6.55	5.30	8.05
15								5.70	4.25	8.68	6.10	7.35
16								5.55	4.95	7.55	5.95	6.45
17								5.40	4.98	7.20	6.10	6.85
18								5.75	4.95	6.98	6.70	6.85
19								4.95	5.00	6.60	8.85	7.25
20								5.40	5.20	7.00	9.72	7.05
21								6.05	5.00	6.70	8.37	6.65
22								5.80	4.95	6.20	7.75	6.75
23								6.05	4.85	5.80	7.65	6.20
24								5.80	4.70	5.60	7.18	5.48
25								5.35	5.00	5.40	6.85	4.92
26								4.75	4.70	5.00	6.65	5.40
27								4.85	4.75	5.65	7.40	5.05
28								5.05	4.45	7.00	7.55	4.75
29								4.75	4.85	7.25	7.05	4.30
30								5.00	5.10	7.55	6.72	4.95
31								5.40	-	8.95	6.55	-

Note.- Gage heights for May 5 and 8 are mean gage heights for discharge measurements.

Gage height, in feet, of Pea River at Elba, Ala., 1935-37--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.75	5.60	5.85	7.53	6.90	7.65	6.60	6.18	4.28	4.42	17.12	4.95
2	4.40	5.40	5.70	17.48	7.02	7.55	6.85	6.25	4.02	4.42	16.94	4.52
3	4.70	5.00	5.15	18.50	8.46	7.40	6.75	5.82	3.22	4.38	15.22	4.25
4	4.55	4.70	5.15	15.10	9.50	7.10	6.32	5.85	3.45	4.55	15.16	4.72
5	4.55	4.40	4.85	16.03	10.57	6.90	6.45	5.92	3.42	4.45	11.97	4.60
6	4.30	4.70	4.35	16.29	12.11	6.70	6.48	5.48	3.28	4.55	8.31	4.98
7	4.00	4.95	4.70	13.44	14.36	6.65	6.80	5.30	4.25	4.60	7.30	4.92
8	4.90	5.15	5.30	10.86	12.28	6.52	7.10	5.20	4.75	4.35	6.88	5.00
9	4.60	5.65	5.85	13.07	10.22	6.20	7.32	3.50	4.32	4.40	6.50	3.98
10	4.90	5.15	5.75	12.44	9.40	5.95	8.95	3.12	5.52	4.32	6.15	4.52
11	4.70	5.05	5.25	11.12	8.68	5.85	9.12	2.98	5.78	4.48	8.20	5.00
12	4.95	4.95	5.50	10.47	8.10	5.98	9.50	5.28	6.22	4.18	6.80	4.82
13	4.85	6.40	6.60	9.62	11.19	5.85	9.48	4.65	5.08	4.65	6.98	5.02
14	4.10	5.50	6.30	8.21	13.22	6.00	8.52	4.40	5.25	4.78	6.62	5.58
15	4.05	5.90	6.20	8.38	12.30	6.12	7.18	3.70	5.25	4.80	6.40	5.75
16	4.30	5.70	6.35	7.91	11.92	6.00	6.62	3.48	4.50	4.22	6.58	5.12
17	4.55	4.85	6.10	8.47	11.67	5.95	6.18	3.98	4.68	5.45	5.95	4.68
18	4.55	4.90	5.95	10.68	10.70	5.90	5.80	4.25	4.48	6.08	6.18	4.20
19	4.55	4.55	5.75	26.04	8.78	5.98	5.88	5.82	4.38	6.65	5.45	4.70
20	4.65	4.15	5.40	25.68	8.30	6.20	5.42	6.00	4.48	6.98	4.82	4.70
21	4.90	4.95	5.80	27.95	8.52	6.10	5.28	6.10	4.38	6.70	5.15	4.60
22	4.55	4.75	5.80	21.37	8.05	6.25	5.08	6.02	4.00	7.02	5.15	4.68
23	4.65	4.45	5.95	13.15	7.80	6.20	5.08	5.62	4.92	7.38	5.62	5.32
24	4.70	4.50	5.95	9.06	7.52	6.10	5.22	5.75	4.40	6.85	6.15	5.28
25	4.45	4.75	6.45	8.07	7.32	6.05	5.42	4.92	4.62	7.12	6.02	4.80
26	4.65	4.35	6.10	7.95	7.25	5.82	6.02	4.52	4.62	6.55	5.52	4.95
27	4.55	4.40	5.80	7.60	7.35	5.70	5.75	4.15	4.38	6.30	5.25	4.80
28	4.90	5.60	5.70	7.40	7.90	7.05	5.32	3.98	4.65	5.58	4.75	4.92
29	4.30	5.95	7.00	7.20	7.80	6.75	5.32	4.72	4.62	4.90	5.10	4.38
30	4.90	5.95	6.82	7.50	-	6.45	5.38	4.52	4.65	4.55	5.05	4.60
31	5.10	-	6.70	7.15	-	6.25	-	4.05	-	9.32	5.58	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.15	5.02	5.25	6.78	7.40	7.88	6.90	9.21	4.32	6.92	5.25	15.78
2	4.98	4.85	5.12	6.55	6.95	7.55	6.70	8.32	4.20	5.88	5.95	25.85
3	4.88	4.78	5.55	6.88	6.80	7.20	7.80	8.83	4.07	5.35	5.25	17.20
4	4.78	4.80	5.92	6.50	6.58	6.95	7.40	10.02	4.07	5.70	4.92	11.90
5	4.98	4.52	6.08	6.38	6.30	6.32	18.23	9.58	4.42	5.40	3.90	9.46
6	4.70	4.22	5.68	7.08	6.10	6.10	28.04	7.94	5.75	5.95	3.95	9.72
7	4.52	4.45	6.30	7.02	6.88	6.05	17.30	7.62	5.80	7.20	4.10	8.49
8	4.15	4.82	6.20	7.05	6.50	6.92	15.88	7.28	5.57	7.55	5.20	7.27
9	5.38	4.82	6.02	6.92	9.65	6.58	16.30	6.98	5.67	7.45	5.05	6.87
10	5.08	4.82	6.05	7.08	9.58	6.30	11.68	6.70	5.72	7.02	5.75	7.64
11	5.00	4.55	6.00	6.70	9.25	6.12	9.76	6.50	5.10	6.95	5.15	7.21
12	5.02	5.10	5.52	6.30	8.88	6.02	8.74	6.30	4.75	6.42	4.62	7.44
13	5.08	4.82	5.10	6.08	9.08	6.50	8.25	6.08	5.10	6.22	4.62	7.39
14	4.98	4.70	5.45	6.08	8.30	6.75	7.92	5.90	4.87	5.60	6.68	6.44
15	4.95	4.85	6.48	5.98	7.78	7.10	7.58	5.70	5.30	5.08	6.65	6.09
16	4.60	4.85	6.98	6.12	7.08	6.92	7.25	6.02	5.32	5.38	6.02	5.89
17	4.45	4.40	7.10	6.10	6.80	6.60	7.08	5.92	4.87	5.12	5.62	5.77
18	5.12	4.50	6.80	6.22	6.55	6.35	6.95	5.82	4.60	6.12	5.20	5.74
19	4.70	4.30	7.10	8.25	6.30	6.56	6.72	5.72	5.10	5.50	4.92	5.74
20	4.50	4.38	7.20	7.92	7.10	9.44	6.65	5.60	5.22	5.55	4.32	5.74
21	4.38	4.38	6.82	7.70	10.04	9.81	6.47	5.55	5.15	5.90	3.82	5.64
22	4.40	4.85	6.90	7.58	10.16	9.02	7.47	7.00	4.75	6.25	5.73	5.49
23	3.98	4.52	6.52	7.25	9.25	9.08	7.25	7.17	5.22	6.98	5.88	5.09
24	3.95	4.62	5.85	7.58	8.62	10.50	7.62	6.82	4.80	6.62	6.12	4.87
25	4.12	5.08	6.28	7.90	8.12	9.76	7.80	6.35	4.35	5.92	6.32	4.74
26	4.65	4.92	6.12	8.12	7.75	9.15	7.02	6.42	3.85	6.58	5.90	5.27
27	4.80	4.92	6.15	7.98	7.20	8.92	6.80	6.20	5.25	5.92	6.02	5.27
28	5.25	5.05	6.02	8.18	8.08	8.38	6.68	5.97	4.95	5.60	6.15	5.01
29	4.78	4.85	6.08	8.42	-	7.68	6.42	5.82	8.72	4.95	5.92	4.89
30	4.72	5.10	6.08	8.12	-	7.25	6.20	5.85	10.26	5.75	6.32	4.74
31	4.75	-	6.42	7.90	-	7.05	-	5.25	-	5.60	6.68	-

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Discharge, in second-feet, of Pea River at Elba, Ala., 1935-37

Date	Discharge	Date	Discharge	Date	Discharge
1935		1936		1937	
May 5	*1,190	Feb. 6	7,040	Feb. 10	4,370
8	*1,310	7	9,840	11	4,060
June 13	*160	8	7,260	12	3,870
July 15	3,790	9	4,930	13	3,990
25	*288	10	4,210	14	3,620
31	4,010	11	3,770	21	5,150
Aug. 9	*663	12	3,560	22	4,880
19	3,830	13	6,690	23	4,060
20	4,490	14	8,340	24	3,730
21	3,660	15	7,260	25	3,560
23	*2,110	16	6,770	28	3,560
Sept.14	3,530	17	6,540	Mar. 20	4,320
21	†842	18	5,550	21	4,550
		19	3,920	22	3,930
1936		20	3,620	23	3,990
		21	3,690	24	5,250
Oct. 23	*115	22	3,530	25	4,520
Nov. 17	*550	Apr. 6	*1,590	26	4,060
Jan. 1	*1,260	10	3,930	27	3,870
2	13,700	11	3,990	28	3,660
3	15,000	12	4,290	Apr. 4	*1,570
4	10,700	13	4,290	5	14,800
5	11,800	14	3,690	6	25,400
6	12,200	June 3	*232	7	13,400
7	8,660	July 31	4,810	8	11,700
8	5,590	Aug. 1	13,200	9	12,200
9	8,140	2	13,000	10	6,560
10	7,370	3	10,800	11	4,560
11	5,880	4	10,800	12	3,770
12	5,230	5	6,910	13	3,590
13	4,430	6	3,660	May 1	4,140
14	3,590	10	*867	2	3,620
15	3,650	11	3,590	3	3,960
17	3,690			4	4,730
18	5,990	1937		5	4,380
19	23,100			June 5	*456
20	22,500	Oct. 12	*531	29	3,960
21	25,200	Dec. 9	*1,060	30	5,040
22	18,000	Jan. 19	3,590	July 29	*367
23	8,300	26	3,560	Sept. 1	11,500
24	4,050	27	3,530	2	22,700
25	3,560	28	3,590	3	13,200
Feb. 3	3,690	29	3,650	4	6,800
4	4,390	30	3,560	5	4,260
5	5,330	Feb. 9	4,600	6	4,460
				7	3,760

*Result of discharge measurement.
†Mean of two discharge measurements.

Pea River near Samson, Ala.

Location.- Water-stage recorder, lat. 31°07', long. 86°06', in T. 2 N., R. 19 E., at bridge on State Highway 12, 500 feet below Boyenton Creek, 3 miles west of Samson, and 19 miles above junction with Choctawatchee River. Prior to July 24, 1937, wire-weight gage at same site and datum.

Drainage area.- 1,170 square miles.

Records available.- May 1935 to September 1937, August 1904 to August 1913 and June 1922 to October 1925, at site 1½ miles upstream (published as Pea River at Pera, Ala.); records equivalent.

Extremes.- Maximum discharge during year, 23,400 second-feet Apr. 7 (gage height, 35.86 feet); minimum observed, 188 second-feet Oct. 29 (gage height, 1.33 feet).

1904-13, 1922-25, 1935-37: Maximum discharge, 27,800 second-feet Jan. 22, 1936 (gage height, 37.2 feet); minimum observed, 41 second-feet Oct. 26, 1935 (gage height, 0.40 foot).

Maximum stage known, 45.3 feet, present site and datum, Mar. 15, 1929, from flood-marks (discharge not determined).

Remarks.- Records good except those for Sept. 15-30, which are fair. Wire-weight gage read twice daily except on Nov. 19, 21, when it was read once daily, and on Nov. 20, when it was not read. Gage-height graphs drawn for periods of rapidly changing stage. Discharge for Nov. 20, interpolated. Slight diurnal fluctuations during low flow caused by operation of power plant 25 miles upstream.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Sept. 15-30)

1.7	256	6.5	1,370	15.5	4,720	26.0	11,400
3.6	651	8.5	2,000	17.5	5,720	30.0	15,300
4.5	853	11.5	3,050	20.0	7,060	33.6	19,400
5.1	1,000	13.5	3,850	22.0	8,300	35.3	22,200

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	505	319	695	1,370	2,160	2,160	1,750	3,600	673	4,310	830	5,160
2	651	256	925	1,460	1,810	2,000	1,620	4,860	651	1,520	695	11,200
3	630	319	1,320	1,490	1,680	1,840	1,430	5,260	505	807	7,611	17,200
4	547	298	1,140	1,460	1,550	1,710	1,520	4,670	526	673	568	16,000
5	360	319	1,000	1,340	1,430	1,590	3,780	4,390	956	739	526	11,100
6	339	319	1,000	1,400	1,370	1,550	15,500	3,890	1,590	717	432	9,530
7	381	319	1,290	1,590	1,240	1,290	22,200	2,720	1,590	1,140	422	7,360
8	402	339	1,460	1,680	1,240	1,710	18,300	2,330	1,060	1,750	422	4,680
9	402	360	1,340	1,680	1,900	1,550	15,600	1,870	877	1,710	495	3,360
10	402	360	1,100	1,680	4,530	1,400	13,500	1,780	739	1,680	1,060	5,520
11	443	360	1,100	1,430	4,620	1,290	10,100	1,590	739	1,550	761	4,570
12	630	298	853	1,340	4,010	1,210	7,060	1,490	761	1,400	588	3,600
13	651	339	830	1,260	3,280	1,160	4,670	1,400	630	1,260	568	2,830
14	630	360	695	1,160	3,560	1,100	3,240	1,260	630	1,030	944	2,000
15	630	360	950	1,080	2,940	1,430	2,940	1,240	717	853	1,520	1,650
16	568	339	1,340	1,180	2,260	1,490	2,610	1,080	830	717	1,240	1,460
17	422	319	1,620	1,080	1,810	1,460	2,330	1,030	830	784	901	1,340
18	505	339	1,520	1,430	1,490	1,400	2,100	975	609	877	695	1,260
19	443	339	1,680	2,300	1,320	1,460	1,970	901	651	1,000	547	1,240
20	381	339	1,710	3,200	2,260	3,210	1,940	830	673	695	505	1,240
21	381	339	1,400	2,750	4,960	4,810	1,840	853	609	830	464	1,180
22	360	339	1,400	2,500	6,190	4,350	2,070	1,370	588	1,080	474	1,080
23	339	319	1,400	2,430	5,410	4,220	2,330	1,650	505	1,490	1,090	1,000
24	360	360	1,180	2,470	4,310	3,890	2,860	1,620	422	1,780	1,240	925
25	422	485	1,160	2,570	3,520	4,810	3,480	1,620	464	1,320	1,260	830
26	422	526	1,140	2,900	2,750	4,720	2,790	1,180	464	1,180	1,240	784
27	402	526	1,100	2,900	2,430	4,010	1,970	1,080	673	1,550	1,140	761
28	360	526	1,030	2,940	2,400	3,240	1,840	1,060	739	925	1,180	784
29	256	526	1,000	2,970	-	2,720	1,620	925	1,470	651	1,290	717
30	319	568	1,030	3,160	-	2,230	1,690	830	3,850	588	1,160	717
31	339	-	1,100	2,900	-	1,970	-	673	-	739	1,400	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	13,882	651	256	448	0.383	0.44
November	11,114	568	256	370	.316	.35
December	36,508	1,710	695	1,178	1.01	1.16
Calendar year 1936	830,964	27,100	11	2,270	1.94	26.40
January	61,100	3,200	1,080	1,971	1.68	1.94
February	78,430	6,190	1,240	2,801	2.39	2.49
March	72,980	4,810	1,100	2,354	2.01	2.32
April	156,650	22,200	1,430	5,222	4.46	4.98
May	60,027	5,260	673	1,936	1.65	1.90
June	26,021	3,850	422	867	.741	.83
July	37,345	4,310	588	1,205	1.03	1.19
August	26,418	1,520	422	852	.728	.84
September	121,078	17,200	717	4,036	3.45	3.85
Water year 1936-37	701,553	22,200	256	1,922	1.64	22.29

Yellow River near Holt, Fla.

Location.- Staff gage, lat. 30°40'25", long. 86°44'50", in sec. 16, T. 2 N., R. 25 W., at county highway bridge 2½ miles south of Holt. Zero of gage is 18.02 feet above mean sea level.

Drainage area.- 1,260 square miles.

Records available.- October 1933 to September 1937.

Extremes.- Maximum discharge observed during year, 16,300 second-feet Apr. 9 (gage height, 11.02 feet); minimum observed, 910 second-feet Nov. 17, 20, 22, 23; minimum gage height observed, 1.22 feet Nov. 22, 23.

1933-37: Maximum discharge, 23,000 second-feet, revised, Oct. 9, 1934 (gage height, 12.80 feet, from floodmarks); minimum observed, 812 second-feet Oct. 2, 1934 (gage height, 0.79 foot).

Flood of 1929 reached a stage of about 25.4 feet, from information furnished by local residents (discharge not determined).

Remarks.- Records fair. Gage read once daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.0	860	5.5	2,560	8.0	6,780
2.0	1,150	6.0	2,910	9.0	9,650
3.0	1,500	6.5	3,490	10.0	12,800
4.0	1,850	7.0	4,340	11.0	16,300
5.0	2,280	7.5	5,440		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,640	970	1,220	1,220	2,050	3,000	4,750	3,350	1,260	1,780	1,320	3,000
2	2,090	970	1,460	1,290	2,130	2,560	3,350	3,490	1,320	1,820	1,570	2,910
3	1,180	970	1,460	1,400	2,010	2,500	2,910	4,150	1,150	1,570	1,540	3,000
4	1,150	970	1,570	1,430	1,820	2,380	3,490	5,440	1,120	1,290	1,290	3,640
5	1,120	970	1,600	1,460	1,640	2,130	4,750	5,690	1,180	1,260	1,150	4,970
6	1,150	970	1,500	1,570	1,500	2,130	4,150	5,690	1,970	1,220	1,220	6,220
7	1,290	970	1,400	1,600	1,400	1,890	3,220	4,970	2,440	1,320	1,260	6,500
8	1,290	970	1,540	1,540	1,400	1,890	7,340	4,340	2,910	1,360	1,320	7,060
9	1,400	970	1,640	1,460	1,460	1,820	16,000	3,970	3,970	1,430	1,150	7,060
10	1,460	970	1,600	1,430	1,970	1,820	13,200	3,000	3,490	1,710	1,120	5,200
11	1,460	940	1,500	1,360	2,440	1,780	8,490	2,500	2,760	1,740	1,780	4,750
12	1,220	940	1,460	1,290	2,560	1,710	6,220	2,050	2,280	1,820	1,930	5,950
13	1,220	970	1,320	1,260	3,350	1,640	5,440	1,930	1,740	1,540	2,090	6,780
14	1,150	970	1,220	1,220	3,490	1,570	4,150	1,780	1,640	1,290	2,620	5,950
15	1,150	970	1,320	1,180	3,220	1,570	3,970	1,740	1,540	1,290	2,560	5,440
16	1,120	940	1,430	1,180	3,100	1,570	3,220	1,740	1,570	1,320	2,440	5,200
17	1,090	910	1,570	1,260	2,230	1,680	2,760	1,680	1,640	1,120	2,560	4,750
18	1,060	940	1,680	1,260	1,930	1,780	2,440	1,570	1,930	1,090	2,560	3,970
19	1,030	940	1,640	1,400	1,640	1,820	2,330	1,540	2,010	1,120	2,560	4,750
20	1,030	910	1,640	1,710	1,850	1,820	2,180	1,430	2,010	1,180	2,130	2,760
21	1,030	940	1,600	1,970	1,850	2,620	2,090	1,430	2,010	1,180	1,640	2,760
22	1,030	910	1,500	2,050	3,220	2,760	1,970	1,430	1,710	1,220	1,460	2,910
23	1,030	910	1,400	2,050	5,690	3,100	1,890	1,460	1,460	1,150	2,180	2,760
24	1,030	940	1,290	1,970	8,780	3,490	1,890	1,570	1,260	1,090	2,090	2,760
25	1,030	1,000	1,290	1,820	6,780	3,640	2,010	1,680	1,220	1,060	2,620	2,280
26	1,000	1,000	1,220	1,680	5,440	4,340	2,560	1,710	1,320	1,220	2,910	2,010
27	1,000	1,030	1,180	1,680	4,750	4,750	2,560	1,570	1,640	1,460	3,100	1,850
28	970	1,030	1,180	1,780	3,970	4,750	2,910	1,500	1,710	1,850	3,350	1,740
29	970	1,030	1,180	1,820	-	6,220	3,000	1,360	1,740	1,970	3,640	1,710
30	970	1,060	1,180	1,850	-	6,780	2,910	1,220	1,780	1,500	3,490	1,680
31	970	-	1,180	2,050	-	5,690	-	1,260	-	1,260	3,220	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	36,330	2,090	970	1,172	0.930	1.07
November	28,980	1,060	910	966	.767	.86
December	43,970	1,680	1,180	1,418	1.13	1.30
Calendar year 1936	982,402	16,600	910	2,684	2.13	28.99
January	48,240	2,050	1,180	1,556	1.23	1.42
February	83,670	8,780	1,400	2,988	2.37	2.47
March	87,200	6,780	1,570	2,813	2.23	2.57
April	128,150	16,000	1,890	4,272	3.39	3.78
May	78,240	5,690	1,220	2,524	2.00	2.31
June	55,760	3,970	1,120	1,859	1.48	1.65
July	43,230	1,970	1,060	1,395	1.11	1.28
August	65,870	3,640	1,120	2,125	1.69	1.95
September	122,320	7,060	1,680	4,077	3.24	3.62
Water year 1936-37	821,980	16,000	910	2,252	1.79	24.28

Conecuh River near Andalusia, Ala.

Location.- Water-stage recorder, lat. 31°16', long. 86°36', in T. 3 N., R. 15 E., at Simmons Bridge, on State Highway 83, 7½ miles southwest of Andalusia.

Drainage area.- 1,300 square miles.

Records available.- August 1904 to December 1919, September 1929 to September 1937.

Average discharge.- 23 years, 1,856 second-feet.

Extremes.- Maximum discharge during year, 29,600 second-feet Apr. 9 (gage height, 36.17 feet); minimum, 61 second-feet Nov. 16 (gage height, 0.51 foot); minimum daily discharge, 99 second-feet Nov. 15.
1904-19, 1929-37: Maximum discharge, that of Apr. 9, 1937; minimum, 43 second-feet Oct. 1, 1934; minimum gage height, 0.39 foot July 7, 1930; minimum daily discharge. 56 second-feet Oct. 15, 1933.
Maximum stage known, 47.64 feet Mar. 15, 1929 (discharge, 154,000 second-feet, by slope-area method).

Remarks.- Records good except those for Feb. 17, 18 and those below 500 second-feet, which are fair. Operation of power plants upstream causes daily fluctuations of flow as well as week-end reduction of flow.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.8	92	3.2	726	14.0	5,050	23.0	9,700	35.0	26,000
1.0	124	4.0	990	15.5	5,720	25.0	11,200	35.8	28,400
1.4	205	6.0	1,690	17.0	6,430	30.0	16,000		
1.9	338	9.0	2,890	18.3	7,050	32.0	19,000		
2.4	483	11.0	3,750	21.0	8,450	33.0	21,000		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	454	*124	633	2,390	4,010	3,500	2,960	4,960	1,730	990	*425	2,360
2	352	132	758	2,390	3,660	2,640	2,230	*4,570	1,060	774	486	5,900
3	410	381	822	*2,770	2,710	2,230	1,990	6,760	990	558	790	6,140
4	*250	513	774	2,520	2,810	2,280	*2,470	7,350	956	*588	855	6,000
5	252	401	855	2,680	2,390	2,190	11,100	8,510	1,340	558	867	*8,180
6	468	252	*447	3,190	2,190	2,110	26,400	8,690	*726	543	956	7,400
7	454	245	620	3,110	*1,950	*1,990	26,600	7,940	855	633	840	6,670
8	454	*116	956	2,980	1,580	1,840	25,900	6,720	956	558	*543	5,050
9	508	121	956	2,810	3,720	1,950	28,400	*5,500	1,090	769	721	3,400
10	618	228	855	*2,770	5,000	1,840	22,200	3,840	1,690	855	1,310	2,830
11	*200	220	806	2,110	4,960	1,550	*16,200	2,530	2,940	*855	1,000	3,620
12	207	248	704	2,430	4,310	1,580	12,600	3,750	990	718	922	*2,270
13	498	326	*498	2,150	3,230	1,510	8,570	2,030	*507	855	1,020	1,550
14	483	424	547	2,070	*2,940	*1,410	7,100	1,800	502	855	1,020	1,500
15	513	*99	888	1,840	4,440	1,440	6,140	1,690	758	888	*597	1,130
16	528	198	822	1,840	4,440	1,620	4,660	*1,510	855	888	685	1,090
17	528	454	855	*1,440	3,570	1,340	4,140	1,440	822	742	1,020	1,130
18	*280	484	990	1,510	2,880	1,340	*3,230	1,620	855	*407	990	1,060
19	178	465	2,310	2,030	2,310	1,580	2,730	1,510	922	460	1,090	*776
20	543	410	*1,690	2,890	2,270	3,920	2,390	1,480	*554	822	1,020	814
21	509	425	1,880	3,190	*4,440	*5,050	2,560	1,410	700	790	822	1,020
22	473	*185	1,730	2,600	4,350	4,920	2,640	1,230	990	855	*456	956
23	464	168	1,480	2,470	3,560	4,120	2,310	*1,160	990	990	363	956
24	454	425	1,060	*2,600	2,730	4,010	2,760	1,370	990	882	696	990
25	*137	425	1,480	4,300	3,400	5,090	*2,980	1,760	990	*420	787	922
26	175	425	1,440	4,740	3,660	5,590	2,230	2,110	922	502	650	*615
27	498	425	*1,230	4,530	3,700	6,240	2,110	2,030	*466	888	594	692
28	483	406	1,060	4,350	*4,700	*5,290	1,760	1,650	534	842	679	992
29	439	*272	1,410	3,960	-	4,180	1,840	1,550	1,440	898	*489	1,020
30	396	227	1,230	3,660	-	3,660	2,280	*1,160	1,230	1,050	423	998
31	370	-	1,690	*3,620	-	3,400	-	1,500	-	707	1,060	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	12,576	618	137	407	0.313	0.36
November	9,224	513	99	307	.236	.26
December	33,476	2,310	447	1,080	.831	.96
Calendar year 1936	942,183	24,800	99	2,574	1.98	26.96
January	87,940	4,740	1,440	2,837	2.18	2.51
February	95,910	5,000	1,580	3,425	2.63	2.74
March	91,410	6,240	1,340	2,949	2.27	2.62
April	241,480	28,400	1,760	8,049	6.19	6.91
May	101,130	8,690	1,160	3,262	2.51	2.89
June	30,350	2,940	466	1,012	.778	.87
July	23,140	1,050	407	746	.574	.66
August	24,176	1,310	363	780	.600	.69
September	78,031	8,180	615	2,601	2.00	2.23
Water year 1936-37	828,843	28,400	99	2,271	1.75	23.70

*Sunday.

Conecuh River near Brooklyn, Ala.

Location.- Water-stage recorder, lat. 31°10', long. 86°48', in sec. 6, T. 2 N., R. 13 E., at bridge on U. S. Highway 29, 4 miles below Boller Creek, 8 miles southwest of Brooklyn, and 30 miles above Murder Creek. Prior to Sept. 5, 1937, wire-weight gage at same site and datum.

Drainage area.- 2,400 square miles.

Records available.- May 1935 to September.

Extremes.- Maximum discharge during year, 50,100 second-feet Apr. 9 (gage height, 36.65 feet); minimum observed, 311 second-feet Nov. 16 (gage height, 2.52 feet).
1935-37: Maximum discharge, that of Apr. 1937; minimum observed, 252 second-feet Oct. 10, 1935 (gage height, 2.00 feet).
Maximum stage known, about 41 feet Mar. 15, 1929 (discharge not determined).

Remarks.- Records fair. Wire-weight gage read twice daily oftener during periods of rapidly changing stage; graphs drawn for periods of rapidly changing stage. Some regulation from operation of power plants upstream.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-17, Aug. 24 to Sept. 1, Sept. 10, 12-30)

2.4	330	4.1	790	24.0	15,000
2.6	370	6.0	1,600	26.0	17,800
2.8	413	8.0	2,550	29.0	23,300
3.0	460	10.0	3,700	32.0	30,400
3.3	538	14.0	6,430	35.2	41,500
3.7	656	20.0	11,040	36.4	48,500

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	790	485	688	3,510	*5,260	*6,360	6,180	8,220	1,830	2,400	990	2,500
2	688	*350	1,030	4,090	4,970	4,160	4,090	9,280	1,730	1,640	790	5,950
3	625	413	1,110	4,700	4,770	4,160	3,450	*10,600	1,830	1,290	990	7,950
4	625	566	1,200	*4,560	3,830	3,330	3,760	13,500	1,870	910	1,110	7,880
5	*625	656	1,200	4,020	3,830	3,450	*10,700	15,900	1,970	*1,160	1,200	8,330
6	625	688	1,160	4,770	3,450	3,330	25,900	17,800	2,870	1,200	1,370	*9,440
7	656	460	*950	4,770	2,820	3,210	37,600	14,900	*2,500	1,200	1,330	8,570
8	688	460	1,420	4,630	*2,820	*3,330	43,000	11,300	2,500	1,330	1,200	7,280
9	721	*330	1,460	4,220	3,760	3,040	48,500	10,600	2,260	1,290	*870	5,450
10	910	413	1,420	3,700	6,930	3,330	47,100	*8,570	2,820	1,830	1,510	3,890
11	721	413	1,290	*3,640	7,800	2,820	38,300	6,360	4,020	1,640	2,550	4,360
12	*595	460	1,370	3,510	8,260	2,870	*31,000	6,080	3,830	*1,550	1,730	3,960
13	625	436	1,110	3,510	7,000	2,450	23,400	4,900	1,640	1,510	1,600	*3,040
14	755	391	*950	3,330	5,870	2,450	15,400	3,760	*1,110	1,830	1,690	2,300
15	721	330	1,160	2,600	*6,080	*2,300	11,800	3,510	1,070	1,780	1,420	2,060
16	656	*330	1,870	2,550	6,860	2,870	8,900	3,100	1,330	1,370	*910	1,830
17	688	511	1,510	2,210	5,450	2,160	7,000	*2,820	1,460	1,290	1,330	1,690
18	688	566	1,920	*2,210	4,770	2,260	5,800	2,930	1,420	1,510	1,370	1,600
19	*413	688	2,060	2,600	3,580	2,550	*5,320	2,870	1,830	*870	1,330	1,460
20	566	413	2,550	3,890	3,510	4,700	4,490	2,760	1,510	1,070	1,330	*1,070
21	755	391	*3,040	4,360	5,560	8,810	4,420	2,450	*1,510	1,160	1,370	1,370
22	656	436	2,930	4,490	*7,950	*9,680	4,770	2,210	1,830	1,070	990	1,420
23	625	*370	2,660	4,160	8,100	9,760	4,630	2,210	1,870	1,290	*538	1,330
24	625	436	2,400	4,090	8,860	9,200	4,490	*2,300	1,690	1,460	990	1,330
25	485	595	1,970	*4,770	8,710	10,600	5,520	2,760	1,600	870	1,330	1,330
26	*370	656	2,160	7,280	8,710	11,000	*5,590	3,270	1,600	*755	1,240	1,160
27	460	625	2,160	6,640	8,430	11,800	4,630	3,390	1,780	830	1,510	*850
28	595	625	*1,690	6,570	8,360	11,200	4,490	2,760	*1,200	1,330	1,460	1,110
29	656	566	1,640	6,220	-	*9,120	3,700	2,660	1,780	1,330	1,550	1,330
30	566	*538	2,160	6,080	-	7,800	3,700	2,110	2,400	1,460	*1,070	1,290
31	511	-	2,210	5,730	-	8,360	-	*2,160	-	1,370	1,370	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	19,681	910	370	635	0.265	0.31
November	14,597	688	330	487	.203	.23
December	52,448	3,040	688	1,692	.705	.81
Calendar year 1936	1,690,602	38,600	330	4,619	1.92	26.21
January	133,410	7,280	2,210	4,304	1.79	2.06
February	156,290	8,260	2,820	5,582	2.33	2.43
March	170,460	11,800	2,160	5,499	2.29	2.64
April	426,630	48,500	3,450	14,220	5.92	6.60
May	188,040	17,800	2,110	6,066	2.53	2.92
June	58,660	4,020	1,070	1,955	.815	.91
July	41,595	2,400	755	1,342	.559	.64
August	40,038	2,550	538	1,292	.538	.62
September	103,130	9,440	850	3,438	1.43	1.60
Water year 1936-37	1,404,983	48,500	330	3,849	1.60	21.77

*Monday.

Escambia River near Century, Fla.

Location.- Wire-weight gage, lat. 30°58', long. 87°15', on line between secs. 9 and 10, T. 5 N., R. 30 W., on handrail of bridge on State Highway 82, 1¾ miles east of Century.

Drainage area.- 3,700 square miles.

Records available.- October 1934 to September 1937.

Extremes.- Maximum discharge observed during year, 64,400 second-feet Apr. 11 (gage height, 20.05 feet); minimum discharge, 945 second-feet Nov. 11, 12; minimum gage height, 1.98 feet Nov. 11.

1934-37: Maximum discharge observed, that of Apr. 11, 1937; minimum discharge 900 second-feet Oct. 20, 26, 1935; minimum gage height, 1.91 feet Oct. 20, 1935.

Maximum stage known, 37.8 feet in March 1929, from information furnished by old residents (discharge, 315,000 second-feet, from rating curve extended above 72,000 second-feet).

Remarks.- Records good. Gage read twice daily.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.0	945	9.0	5,900	16.0	18,600
3.0	1,450	10.0	7,000	17.0	24,800
4.0	2,050	11.0	8,200	18.0	37,200
5.0	2,650	12.0	9,600	19.0	50,800
6.0	3,350	13.0	11,200	20.0	64,400
7.0	4,100	14.0	12,900		
8.0	4,950	15.0	14,900		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,750	1,180	1,510	4,180	7,360	8,340	11,500	11,500	3,630	4,020	2,290	3,280
2	1,450	1,180	1,570	5,220	7,240	8,340	7,840	19,600	4,020	3,350	2,170	3,490
3	1,340	1,040	1,990	6,010	6,670	7,240	7,480	20,100	3,940	3,070	1,690	6,010
4	990	990	2,230	6,230	5,500	12,600	16,900	16,500	3,350	2,470	1,750	7,720
5	990	1,040	2,290	5,900	5,310	4,950	16,900	16,500	3,350	2,350	1,930	8,620
6	1,180	1,130	2,170	5,700	5,130	4,950	29,200	17,300	6,230	2,930	2,110	8,760
7	1,450	1,130	2,350	6,010	4,860	4,860	50,800	16,900	9,180	3,780	2,290	9,460
8	1,450	1,090	2,790	6,120	4,340	4,770	45,400	19,600	7,720	3,780	2,350	9,760
9	1,630	1,090	2,860	5,800	4,420	4,770	50,800	19,600	4,860	3,210	2,170	9,760
10	1,810	1,040	2,720	5,500	5,400	4,770	59,000	18,600	4,260	3,210	2,170	8,200
11	1,750	990	2,720	5,130	9,040	4,770	64,400	15,500	4,420	3,350	2,530	6,890
12	1,750	945	2,530	4,770	9,760	4,020	56,200	11,700	4,260	3,280	3,350	6,230
13	1,240	1,090	1,990	4,590	10,100	3,560	38,600	10,100	3,780	2,880	3,210	5,600
14	1,180	1,130	1,630	4,340	9,460	3,490	33,100	7,960	3,280	2,790	3,210	4,590
15	1,400	1,180	1,930	4,420	8,760	3,420	23,100	6,890	2,530	2,930	3,210	3,490
16	1,450	1,240	3,070	3,630	7,360	3,420	20,600	5,500	2,410	2,720	2,930	3,140
17	1,450	1,040	3,140	3,940	7,240	3,350	17,700	4,680	3,140	2,530	2,350	2,790
18	1,400	990	3,280	3,700	7,600	3,350	13,300	4,680	3,940	2,350	2,290	2,650
19	1,400	1,130	3,780	3,700	6,560	3,210	10,700	4,420	5,040	2,470	2,350	2,410
20	1,240	1,290	4,500	4,770	5,700	3,070	8,820	4,340	3,420	2,290	2,290	2,470
21	1,090	1,240	4,950	5,700	6,010	10,200	7,960	4,180	3,940	2,170	2,170	2,230
22	1,290	1,240	4,260	6,120	7,720	12,600	7,360	4,180	2,860	2,350	2,170	2,170
23	1,340	1,180	4,020	5,900	9,320	13,900	7,240	5,040	3,140	2,470	2,290	2,230
24	1,290	1,180	3,420	5,500	10,200	13,300	7,960	5,220	2,930	2,720	2,230	2,170
25	990	1,180	3,070	4,770	9,920	16,500	9,600	5,400	2,790	2,790	2,170	2,110
26	1,090	1,340	2,590	9,180	9,040	16,900	9,180	5,400	2,790	3,070	2,470	1,670
27	1,040	1,450	2,530	9,600	8,340	16,900	8,080	5,130	3,700	2,530	3,070	1,870
28	990	1,400	2,860	9,320	8,340	16,100	7,240	4,590	4,100	2,410	3,420	1,810
29	1,240	1,290	2,650	8,480	-	15,500	7,480	4,420	3,280	2,350	3,490	1,810
30	1,240	1,450	2,050	8,340	-	12,900	7,720	4,100	5,940	2,250	2,930	1,930
31	1,240	-	3,070	8,200	-	12,200	-	3,780	-	2,250	2,650	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	41,140	1,750	990	1,327	0.359	0.41
November	34,885	1,450	945	1,163	.314	.35
December	86,520	4,950	1,510	2,791	.754	.87
Calendar year 1936	2,573,675	45,900	945	7,032	1.90	25.86
January	180,770	9,600	3,630	5,831	1.58	1.82
February	207,430	10,200	4,340	7,408	2.00	2.08
March	261,150	16,900	3,070	8,102	2.19	2.52
April	657,660	64,400	7,240	21,920	5.92	6.60
May	303,810	20,100	3,780	9,800	2.65	3.06
June	120,230	9,180	2,410	4,008	1.08	1.20
July	87,060	4,020	2,170	2,808	.759	.88
August	77,700	3,490	1,690	2,506	.677	.78
September	135,520	9,760	1,810	4,517	1.22	1.36
Water year 1936-37	2,185,875	64,400	945	5,985	1.62	21.93

Cartecay River near Ellijay, Ga.

Location.- Staff gage, lat. 34°41', long. 84°27', adjacent to State Highway 43, three-quarters of a mile below Owltown Creek, 2 miles southeast of Ellijay, Gilmer County, and 2 miles above confluence with Ellijay River, forming Coosawattee River.

Drainage area.- 135 square miles.

Records available.- March to September 1937. July 1904 to December 1905, May to November 1907, and December 1918 to June 1921, at site 8 miles upstream.

Extremes.- Maximum discharge observed during period, 1,750 second-feet Apr. 29 (gage height, 4.18 feet); minimum observed, 91 second-feet several days in September (gage height, 1.32 feet).

Remarks.- Records good. Gage read twice daily.

Rating table, Mar. 17 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

1.3	88	3.0	820
1.5	125	3.5	1,180
1.7	174	4.0	1,580
2.0	270	4.5	2,030
2.5	510		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	290	660	270	219	148	183
2						-	290	570	270	197	132	153
3						-	290	540	270	188	141	136
4						-	290	482	270	194	136	132
5						-	570	690	270	270	161	136
6						-	455	600	252	235	252	134
7						-	380	510	252	219	151	125
8						-	600	482	252	203	186	130
9						-	510	455	235	188	158	130
10						-	430	430	270	194	235	117
11						-	380	405	252	177	153	132
12						-	355	405	235	174	141	123
13						-	355	405	235	164	197	113
14						-	332	430	235	164	146	111
15						-	380	380	252	158	156	105
16						-	355	355	235	153	134	105
17						310	332	355	455	164	125	113
18						332	310	355	290	174	123	107
19						332	310	355	600	164	158	103
20						600	310	332	270	166	119	105
21						430	310	332	235	156	115	102
22						380	332	430	235	148	111	102
23						355	290	355	235	143	132	95
24						380	855	332	203	143	290	95
25						430	1,180	310	203	161	332	93
26						355	570	310	197	148	482	95
27						332	455	332	197	139	252	98
28						332	430	310	194	134	186	100
29						310	1,580	290	252	134	164	95
30						310	890	270	270	180	219	91
31						310	-	270	-	153	219	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 17-31	5,498	600	310	367	2.72	1.52
April	14,416	1,580	290	481	3.56	3.97
May	12,737	690	270	411	3.04	3.50
June	7,891	600	194	263	1.95	2.18
July	5,404	270	134	174	1.29	1.49
August	5,654	482	111	182	1.35	1.56
September	3,459	183	91	115	.852	.95
Water year						

Coostanaula River at Resaca, Ga.

Location.- Wire-weight gage, lat. 34°34', long. 84°57', at bridge on U. S. Highway 41 at Resaca, Gordon County, 200 feet below Nashville, Chattanooga & St. Louis Railway, three-quarters of a mile above Camp Creek, and 3½ miles below confluence of Conasauga and Coosawattee Rivers. Zero of gage is 617.30 feet above mean sea level.

Drainage area.- 1,610 square miles.

Records available.- April 1892 to December 1931, March to September 1937.

Average discharge.- 30 years (1896-98, 1903-31), 2,815 second-feet.

Extremes.- Maximum discharge during year, about 16,700 second-feet May 1; maximum gage height observed. 21.6 feet May 1; minimum discharge, 500 second-feet Sept. 27 (gage height, 1.86 feet).

1892-1931, 1937: Maximum gage height, 33.0 feet Feb. 11, 1921 (discharge not determined); minimum discharge, 180 second-feet Sept. 7, 8, 1925 (gage height, 0.5 foot).

Remarks.- Records good except those for period of backwater May 1-4, which are fair. Gage read twice daily.

Rating table, Mar. 12 to Sept. 30, 1937, except period of backwater (gage height, in feet, and discharge, in second-feet)

1.8	480	4.0	1,565	13.0	8,550
2.0	560	6.0	2,830	16.0	11,350
2.5	770	8.0	4,300	19.0	14,300
3.0	1,010	10.0	5,925	22.0	17,800

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	2,110	16,700	2,180	1,340	1,560	1,440
2						-	2,040	14,900	1,740	1,060	1,010	1,120
3						-	1,980	10,100	2,370	960	860	960
4						-	1,920	5,100	2,370	910	770	860
5						-	2,630	7,920	1,800	1,060	815	960
6						-	6,260	11,000	1,800	2,240	2,560	1,860
7						-	4,860	9,830	1,620	1,800	2,180	1,280
8						-	3,840	7,120	1,500	1,390	1,820	910
9						-	6,780	4,300	1,440	1,170	1,280	1,860
10						-	5,180	3,620	1,340	1,120	2,970	1,170
11						-	3,620	3,250	1,340	1,060	3,390	860
12						2,300	3,040	2,970	1,340	960	1,390	860
13						2,240	2,700	2,900	1,280	1,010	1,560	770
14						2,180	2,500	3,540	1,220	960	1,680	725
15						2,500	2,440	3,250	1,280	910	1,340	680
16						2,560	2,700	2,760	1,280	815	1,060	640
17						2,300	2,630	2,500	4,380	815	960	640
18						2,370	2,180	2,370	3,460	860	860	640
19						3,040	2,110	2,240	1,920	860	815	640
20						4,780	1,980	2,240	1,920	960	860	600
21						4,940	1,980	2,110	1,560	910	725	600
22						3,460	2,180	2,560	1,340	815	725	560
23						2,970	2,180	2,370	1,280	960	910	560
24						2,900	3,760	2,180	1,170	1,220	815	520
25						3,540	12,000	1,980	1,120	960	2,180	520
26						3,540	14,700	1,860	1,060	1,560	4,060	520
27						2,900	12,300	1,860	1,060	1,060	4,300	500
28						2,630	6,180	2,040	1,060	860	1,920	520
29						2,440	8,640	1,860	1,170	910	1,340	520
30						2,300	15,000	1,800	1,280	1,390	1,170	520
31						2,240	-	1,740	-	1,170	1,390	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 12-31	58,130	4,940	2,180	2,906	1.80	1.34
April	142,420	15,000	1,920	4,747	2.95	3.29
May	140,970	16,700	1,740	4,547	2.82	3.25
June	49,680	4,360	1,060	1,656	1.03	1.15
July	34,075	2,240	815	1,099	.683	.79
August	49,075	4,300	725	1,583	.983	1.13
September	24,815	1,440	500	827	.514	.57
Water year						

Coosa River at Gadsden, Ala.

Location.- Water-stage recorder, lat. 34°01', long. 86°00', in T. 12 S., R. 6 E., at Etowah County Memorial Bridge, on U. S. Highway 241, in Gadsden, 700 feet below Louisville & Nashville Railroad bridge. Zero of gage is 485.16 feet above mean sea level.

Drainage area.- 5,800 square miles.

Records available.- October 1926 to March 1932, May 1935 to September 1937.

Extremes.- Maximum discharge during year, 55,800 second-feet Jan. 5 (gage height, 26.16 feet); minimum, 1,950 second-feet Sept. 28 (gage height, 1.10 feet).
1926-32, 1935-37: Maximum discharge, 76,900 second-feet Apr. 11, 1936 (gage height, 31.13 feet); minimum, 1,180 second-feet Oct. 24, 1931 (gage height, 0.16 foot).
Maximum stage known, 36.7 feet Apr. 6, 1886 (discharge not determined).

Remarks.- Records good except those for periods of faulty gage-height record, Oct. 18 to Nov. 2 and Nov. 4, which were computed from graph based on partial record, once-daily gage readings by U. S. Weather Bureau, and occasional readings by engineers and observer.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1, 2		Oct. 3 to Sept. 30							
1.98	2,920	1.1	1,950	4.0	5,540	11.9	18,490	18.0	31,900
5.24	7,340	1.6	2,420	5.3	7,430	13.2	20,900	21.0	39,800
		2.0	2,880	7.2	10,470	14.2	22,900	24.0	48,500
		3.0	4,180	10.0	15,230	16.0	27,000	26.1	55,400

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,920	2,320	2,040	24,300	18,000	11,700	6,980	42,600	5,680	6,100	3,520	3,910
2	7,340	2,320	2,040	36,800	17,600	11,700	6,680	43,500	6,530	5,960	3,820	4,450
3	7,770	2,170	2,170	49,500	17,500	10,800	6,380	46,100	6,530	4,450	3,650	4,860
4	4,450	2,130	2,320	54,400	15,900	9,990	6,240	47,300	6,380	3,750	3,390	4,180
5	2,880	2,130	2,640	55,400	13,700	9,190	6,830	48,800	6,240	3,390	2,940	4,050
6	2,530	2,080	3,190	55,400	12,000	8,870	10,300	48,500	5,820	3,390	3,680	3,780
7	2,320	2,080	5,000	55,400	11,000	8,550	15,400	45,800	5,410	4,860	4,720	3,780
8	2,320	2,170	7,910	55,400	10,200	8,550	16,800	40,600	5,000	5,820	5,540	4,720
9	2,270	2,320	10,200	54,400	17,300	8,710	16,100	33,200	4,720	5,130	5,820	4,720
10	2,580	2,270	9,510	52,400	24,700	8,710	18,800	23,000	4,450	4,860	5,680	3,910
11	3,190	2,220	6,680	49,800	30,100	8,550	20,700	14,900	4,320	4,450	5,000	4,590
12	4,180	2,220	4,860	44,300	31,600	7,910	16,900	11,700	4,450	3,910	5,820	4,180
13	4,180	2,220	4,180	30,600	30,100	7,280	12,000	10,300	4,450	3,650	6,530	3,390
14	3,260	2,220	3,910	17,000	25,200	7,130	9,670	9,990	4,320	3,260	6,100	2,820
15	2,700	2,530	3,650	16,800	18,000	7,130	8,710	9,990	4,180	3,130	5,820	2,700
16	2,470	2,760	3,650	20,500	13,200	7,280	8,230	9,510	4,180	3,130	5,410	2,580
17	2,420	2,530	3,650	23,200	11,300	7,910	7,910	8,870	4,320	3,130	4,180	2,530
18	2,420	2,370	4,230	27,900	10,200	8,230	7,910	8,070	4,720	2,940	3,520	2,420
19	2,640	2,220	8,950	35,300	9,510	8,390	7,590	7,430	6,680	3,390	3,130	2,470
20	2,880	2,170	17,200	38,700	10,200	12,000	6,830	6,980	7,280	4,180	2,820	2,370
21	2,640	2,170	21,700	39,800	16,000	15,600	6,530	6,830	5,680	3,520	2,700	2,320
22	2,420	2,170	22,300	39,300	21,100	15,200	6,380	6,830	4,720	3,060	2,640	2,220
23	2,220	2,130	17,900	37,400	22,900	13,700	6,240	7,590	4,320	3,000	2,760	2,220
24	2,220	2,130	10,900	34,500	20,300	11,500	7,940	7,590	3,910	2,940	2,760	2,170
25	2,640	2,130	7,130	36,300	15,900	10,200	12,900	6,980	3,650	3,130	3,080	2,080
26	3,260	2,130	5,680	37,700	12,800	9,990	18,700	6,380	3,520	4,180	5,930	2,040
27	3,260	2,080	5,000	37,700	11,300	9,990	21,300	5,960	3,390	3,650	7,130	1,990
28	2,760	2,080	4,720	34,700	11,300	9,510	21,100	5,680	3,390	3,650	7,130	1,990
29	2,530	2,080	7,030	30,400	-	8,550	27,400	5,680	3,520	3,520	7,750	1,990
30	2,420	2,080	10,800	25,200	-	7,750	37,700	5,680	4,050	3,060	6,100	1,990
31	2,420	-	17,600	20,300	-	7,280	-	5,540	-	3,260	4,590	-

Month	Second-feet-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	96,510	7,770	2,220	3,113	0.537	0.62
November	68,630	2,760	2,080	2,221	.383	.43
December	238,740	22,300	2,040	7,701	1.33	1.53
Calendar year 1936	4,835,950	76,900	2,040	12,390	2.14	29.08
January	1,170,600	55,400	16,800	37,760	6.51	7.50
February	478,910	31,600	9,510	17,100	2.95	3.07
March	297,850	15,600	7,130	9,608	1.66	1.91
April	383,150	37,700	6,240	12,770	2.20	2.46
May	587,880	48,800	5,540	18,960	3.27	3.77
June	145,810	7,280	3,390	4,860	.838	.94
July	119,880	6,100	2,940	3,867	.667	.77
August	143,360	7,750	2,640	4,625	.797	.92
September	93,420	4,860	1,990	3,114	.537	.60
Water year 1936-37	3,822,740	55,400	1,990	10,470	1.81	24.52

Coosa River at Childersburg, Ala.

Location.- Water-stage recorder, lat. 33°17', long. 86°22' revised, in T. 20 S., R. 3 E., at Central of Georgia Railway bridge 1 mile northwest of Childersburg. Zero of gage is 421.00 feet above mean sea level.

Drainage area.- 8,390 square miles.

Records available.- February 1914 to September 1937.

Average discharge.- 20 years (1917-37), 14,420 second-feet.

Extremes.- Maximum discharge during year, 94,200 second-feet Jan. 4 (gage height, 22.5 feet); minimum, 2,780 second-feet Nov. 30 (gage height, 1.52 feet).
1914-37: Maximum discharge, 130,000 second-feet Feb. 5, 1936 (gage height, 28.5 feet); minimum, 1,300 second-feet in September 1925.

Remarks.- Records good; collected by Alabama Power Co. under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.5	2,740	4.8	11,760	12.0	40,680
2.0	3,840	5.7	14,840	13.8	48,960
2.5	5,040	6.4	17,360	15.4	56,640
3.1	6,600	7.2	20,400	16.6	62,640
3.6	8,000	8.6	26,000	18.0	69,920
4.1	9,520	10.0	31,880	22.3	93,140

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,960	3,180	2,830	40,200	31,500	17,000	10,800	76,400	8,600	5,300	4,560	6,880
2	3,290	3,180	2,830	60,100	26,400	16,600	10,200	68,400	8,300	6,880	4,800	5,950
3	6,600	3,070	2,960	82,300	24,600	15,900	9,840	68,900	8,900	7,440	4,800	7,160
4	9,200	3,070	2,960	93,100	24,000	15,200	9,520	73,200	9,520	6,340	4,920	8,600
5	6,340	2,850	3,180	87,700	21,200	13,800	14,100	77,500	8,900	6,080	4,920	7,720
6	4,560	2,850	3,620	79,600	18,500	13,100	17,700	79,600	8,600	9,840	4,680	6,880
7	3,840	2,850	6,880	73,200	16,600	12,400	17,000	69,900	8,000	7,160	5,430	6,210
8	3,730	2,850	8,900	68,900	15,200	12,800	28,500	60,600	7,720	6,470	5,820	5,820
9	3,400	2,830	9,840	66,300	20,400	12,400	31,900	51,400	7,720	7,440	6,880	8,000
10	3,400	2,850	11,800	64,200	38,500	12,100	25,200	41,600	6,880	6,880	7,440	7,720
11	3,400	3,070	11,100	61,600	38,900	11,800	26,400	29,400	6,470	6,880	8,000	6,080
12	3,840	3,180	8,600	58,600	40,700	11,400	27,300	20,400	6,210	6,340	6,880	5,560
13	4,800	3,070	6,880	53,300	40,200	10,800	22,000	16,300	6,340	5,560	6,880	5,950
14	5,300	3,070	5,820	38,000	38,000	11,400	16,300	14,800	6,340	5,170	8,600	5,170
15	4,800	3,070	5,560	25,200	32,300	12,400	13,500	14,100	6,210	4,800	8,600	4,440
16	4,080	2,960	6,470	28,900	23,600	11,800	12,100	13,800	6,340	4,560	7,720	4,200
17	3,620	3,400	6,340	34,100	17,700	11,100	11,400	13,100	6,880	4,560	7,160	3,960
18	3,400	3,510	6,210	40,700	15,200	12,400	10,800	12,400	6,600	5,300	6,080	3,840
19	3,400	3,290	13,800	55,700	13,800	15,200	10,800	11,400	6,600	6,080	5,170	3,730
20	3,400	3,180	18,100	66,800	17,000	35,000	10,500	10,500	8,000	9,200	4,680	3,620
21	3,730	3,070	22,800	62,100	26,800	31,900	9,840	10,200	9,200	8,000	4,200	3,620
22	3,730	2,960	26,400	57,600	33,600	28,100	9,520	9,840	7,720	6,470	3,960	3,510
23	3,400	2,850	26,400	52,300	33,600	24,000	9,200	10,500	6,470	5,300	3,960	3,400
24	3,290	2,960	20,400	48,500	31,900	20,800	10,200	10,800	6,080	4,920	4,680	3,290
25	3,180	2,960	13,500	58,100	27,700	18,500	13,800	10,500	5,560	4,560	5,560	3,290
26	3,290	2,960	9,520	62,600	21,600	15,900	18,500	9,840	5,300	4,440	6,080	3,180
27	3,730	2,850	8,000	56,600	17,000	14,800	24,000	8,900	5,040	5,300	9,200	3,070
28	4,200	2,850	8,000	51,800	17,400	14,500	26,000	8,600	5,040	5,300	10,500	2,960
29	3,840	2,830	11,400	45,700	-	13,500	33,600	8,000	5,040	5,040	10,200	2,960
30	3,510	2,810	14,100	39,400	-	12,400	67,800	8,000	5,170	5,170	11,100	2,960
31	3,290	-	25,600	34,500	-	11,400	-	8,000	-	4,800	8,900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	126,550	9,200	2,960	4,082	0.487	0.56
November	90,480	3,510	2,810	3,016	.359	.40
December	330,800	26,400	2,830	10,670	1.27	1.46
Calendar year 1936	6,503,830	128,000	2,810	17,770	2.12	28.83
January	1,747,700	93,100	25,200	56,380	6.72	7.75
February	724,100	40,700	13,800	25,860	3.08	3.21
March	490,400	35,000	10,800	15,820	1.89	2.18
April	558,320	67,800	9,200	18,610	2.22	2.48
May	926,880	79,600	8,000	29,900	3.56	4.10
June	209,750	9,520	5,040	6,992	.833	.93
July	187,580	9,840	4,440	6,051	.721	.83
August	202,360	11,100	3,960	6,528	.778	.90
September	149,730	8,600	2,960	4,991	.595	.66
Water year 1936-37	5,744,650	93,100	2,810	15,740	1.88	25.46

Coosa River at Jordan Dam, near Wetumpka, Ala.

(Formerly published as Coosa River at Lock 18, near Wetumpka, Ala.)

Location.- Water-stage recorder, lat. 32°37', long. 86°15', in sec. 22, T. 19 N., R. 18 E., half a mile downstream from Jordan Dam and 7 miles above Wetumpka. Zero of gage is 179.65 feet above mean sea level.
Drainage area.- 10,200 square miles.
Records available.- July 1912 to September 1914, December 1925 to September 1937.
Average discharge.- 11 years (1926-37), 16,610 second-feet.
Extremes.- Maximum discharge during year, 131,000 second-feet Jan. 5 (gage height, 29.3 feet), from rating curve extended above 68,000 second-feet on basis of power-plant records and spillway discharge; minimum, 70 second-feet at times during October, November, and September (gage height, 1.95 feet); minimum daily, 71 second-feet Nov. 14.

1912-14, 1925-37: Maximum discharge, 207,000 second-feet Mar. 15, 1929 (gage height, 38.6 feet); computed from power-plant records and spillway discharge; minimum, 70 second-feet at times in 1930-37 (gage height, 1.95 feet); minimum daily, 70 second-feet Oct. 3, 1932, and Dec. 9, 1933.

Remarks.- Records between 4,000 and 70,000 second-feet are good; those below 4,000 and those above 70,000 second-feet are fair. Flow almost completely regulated during low and medium stages by hydroelectric plants at Lay, Mitchell and Jordan dams, causing week-end reductions of flow. All minimums affected by this regulation. Power plant at Jordan Dam has been in operation since 1928; the first unit went into service Aug. 31, 1928, and the fourth and last unit Nov. 13, 1928. Records collected by the Alabama Power Co. under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.95	70	3.6	508	5.0	1,490	8.0	6,480	15.0	35,900
2.2	95	3.8	608	5.5	2,010	9.0	9,120	21.0	71,900
2.8	210	4.1	788	6.0	2,670	10.0	12,500	27.9	120,200
3.0	269	4.5	1,070	7.0	4,370	12.0	20,600		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,480	845	3,270	49,600	34,600	26,600	18,900	91,300	11,300	5,120	7,370	9,280
2	9,510	4,040	4,140	74,900	33,900	21,900	18,400	79,300	10,400	6,300	8,150	14,900
3	1,290	3,980	4,040	105,000	26,800	20,300	15,200	83,500	11,100	6,440	6,540	10,100
4	4,320	3,910	3,530	106,000	26,500	19,200	14,300	88,200	10,300	6,990	2,820	9,960
5	6,630	4,110	323	120,000	26,500	18,900	11,200	87,800	9,160	7,520	1,980	8,280
6	4,020	4,000	4,740	106,000	22,400	18,600	17,700	95,400	9,300	8,040	4,490	10,300
7	11,300	340	8,760	87,500	17,700	11,200	22,200	85,800	12,900	6,610	6,600	9,520
8	7,530	5,120	9,860	72,400	22,000	14,800	43,000	71,500	13,000	9,120	7,780	6,830
9	3,100	7,820	11,800	71,500	26,200	15,900	45,800	58,100	9,310	11,200	7,750	6,400
10	2,420	3,420	12,000	69,400	44,800	17,400	34,800	45,500	8,900	11,100	5,800	5,830
11	143	4,730	14,000	67,100	48,800	16,400	30,900	35,800	8,590	8,740	6,460	9,400
12	5,870	2,780	8,980	64,600	44,800	17,000	31,800	24,300	2,660	7,630	6,110	3,670
13	3,480	769	6,120	63,100	44,300	15,100	28,200	22,300	693	8,960	6,390	8,560
14	4,310	71	9,450	46,600	44,800	8,700	24,300	20,700	8,230	8,710	6,590	5,410
15	5,430	4,360	9,460	31,700	38,700	15,800	21,800	15,700	9,220	7,220	6,500	6,760
16	7,520	6,140	12,000	30,000	34,100	18,900	15,200	9,060	7,630	7,370	9,960	4,780
17	5,050	454	11,100	39,100	25,300	18,900	15,100	17,200	8,240	5,670	9,350	3,490
18	667	1,300	10,600	47,300	21,300	18,900	15,100	17,900	7,820	7,130	9,250	2,470
19	6,910	1,680	12,000	62,700	19,600	17,800	12,900	15,200	5,770	6,820	8,360	4,700
20	5,110	2,750	11,600	78,800	22,500	78,100	15,500	13,900	8,330	9,750	5,590	5,900
21	5,200	2,570	23,700	73,900	49,200	48,700	14,200	12,400	7,720	8,900	5,950	4,900
22	5,470	4,470	23,700	66,900	41,900	36,200	14,000	9,810	8,410	8,810	8,040	5,470
23	6,220	6,000	27,100	60,000	45,000	27,100	15,500	11,100	8,030	8,170	7,060	3,710
24	868	4,810	27,400	53,500	35,500	27,600	12,500	16,300	8,640	7,880	6,840	2,910
25	1,490	4,360	16,700	69,900	34,300	29,500	22,000	15,400	7,340	6,450	6,110	143
26	5,540	3,640	17,000	74,000	24,800	21,000	20,800	13,800	5,580	8,380	10,100	3,450
27	5,030	3,320	9,960	64,000	18,300	16,900	21,900	14,600	7,210	9,040	10,500	5,860
28	4,150	109	14,200	62,100	24,100	18,400	28,300	13,900	7,770	6,620	10,900	4,400
29	4,660	4,880	17,400	55,500	-	21,900	33,300	9,790	8,250	5,230	6,950	4,090
30	3,920	5,890	18,700	42,600	-	20,700	78,900	7,590	7,480	5,420	12,100	3,180
31	206	-	32,000	41,400	-	19,200	-	13,200	-	6,290	8,690	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	142,844	11,300	143	4,608	0.452	0.52
November	102,668	7,820	71	3,422	.335	.37
December	395,633	32,000	323	12,760	1.25	1.44
Calendar year 1936	7,983,309	184,000	71	21,810	2.14	29.10
January	2,057,100	120,000	30,000	66,360	6.51	7.50
February	898,700	49,200	17,700	32,100	3.15	3.28
March	697,600	78,100	8,700	22,500	2.21	2.55
April	715,700	78,900	11,200	23,790	2.33	2.60
May	1,116,350	95,400	7,590	36,010	3.53	4.07
June	249,283	13,000	693	8,309	.815	.91
July	237,630	11,200	5,120	7,665	.751	.87
August	227,080	12,100	1,980	7,325	.718	.83
September	184,653	14,900	143	6,155	.603	.67
Water year 1936-37	7,023,241	120,000	71	19,240	1.89	25.61

Alabama River near Montgomery, Ala.

Location.- Water-stage recorder, lat. 32°24'42", long. 86°24'32", in NW¼ sec. 31, T. 17 N., R. 17 E., at bridge on U. S. Highway 31, 4 miles above Autauga Creek and 6 miles northwest of Montgomery.

Drainage area.- 15,100 square miles.

Records available.- October 1927 to September 1937. January 1899 to December 1903 (gage heights only), at Montgomery, 9 miles upstream.

Average discharge.- 10 years, 24,520 second-feet.

Extremes.- Maximum discharge during year, 107,000 second-feet May 5, 7 (gage height, 40.4 feet); minimum, 6,190 second-feet Aug. 5, 6 (gage height, 1.4 feet); minimum daily discharge, 6,620 second-feet Aug. 5.
1899-1903, 1927-37: Maximum discharge, 209,000 second-feet Mar. 17, 1929 (gage height, 59.6 feet); minimum, 4,840 second-feet Nov. 20, 1931 (gage height, 0.37 foot); minimum daily discharge, 5,120 second-feet Nov. 20, 1931.

Remarks.- Records good. Flow regulated by operation of hydroelectric plants on Tallapoosa and Coosa Rivers and by storage in Martin Dam Reservoir (capacity, 1,380,000 acre-feet) on Tallapoosa River. Records collected by Alabama Power Co. under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.7	6,620	3.5	9,590	5.8	14,360	12.0	29,920	37.2	97,560
2.1	7,220	3.9	10,350	6.6	16,200	16.0	40,320	40.2	106,000
2.6	8,020	4.4	11,350	7.6	18,600	23.0	59,220		
3.1	8,870	5.1	12,820	8.8	21,600	30.0	78,120		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,780	8,870	8,530	42,200	49,500	35,600	27,800	79,500	19,600	10,600	9,230	13,300
2	13,000	9,410	10,800	57,100	45,400	36,100	26,800	95,700	21,100	9,590	8,530	21,400
3	13,500	11,000	11,000	72,400	40,600	32,300	24,700	102,000	19,100	10,400	8,190	23,700
4	9,050	11,800	11,000	85,100	36,400	29,100	20,100	105,000	19,400	9,050	7,700	18,600
5	9,050	11,800	11,200	92,700	34,900	28,100	20,400	106,000	18,600	8,360	6,620	14,400
6	8,700	11,800	8,360	102,000	33,600	27,300	25,500	106,000	16,700	9,410	7,070	11,400
7	16,400	11,000	10,400	105,000	27,100	21,900	40,900	106,000	14,400	8,700	8,700	13,500
8	19,400	8,190	15,300	101,000	23,400	17,400	52,200	103,000	18,400	10,400	8,360	16,000
9	15,500	9,590	15,700	94,300	28,400	21,900	69,800	95,700	17,400	13,700	8,530	15,000
10	14,400	10,800	16,400	87,800	42,500	24,500	76,200	83,000	16,700	14,400	8,190	13,700
11	13,500	11,400	16,900	81,900	55,400	23,700	75,200	69,800	17,600	12,000	9,970	14,100
12	9,230	12,000	16,000	76,000	58,100	25,000	67,300	50,300	15,300	10,800	10,600	11,200
13	11,200	10,600	10,600	72,400	56,200	23,700	54,600	35,900	12,200	10,200	10,200	9,050
14	12,400	8,870	8,700	66,800	51,900	18,400	44,100	31,000	11,000	13,700	9,780	12,400
15	13,000	7,540	12,200	54,400	46,800	14,800	34,600	28,600	14,800	13,900	8,870	13,500
16	14,400	8,700	18,100	41,400	43,600	22,400	28,600	20,600	16,000	12,600	8,870	13,300
17	15,700	8,870	17,400	36,900	39,000	25,800	25,800	16,900	16,200	12,400	10,600	12,600
18	11,600	8,360	17,200	42,200	33,000	26,300	24,200	23,700	14,100	10,600	11,200	11,800
19	9,410	8,360	17,600	51,100	29,100	26,800	18,100	23,700	11,800	9,230	12,600	11,000
20	11,800	8,530	16,400	65,700	30,200	49,500	22,100	22,100	10,600	9,410	12,200	10,400
21	13,300	10,200	20,600	76,800	42,500	78,700	23,200	20,800	9,780	12,400	10,800	9,590
22	13,700	8,360	27,800	79,200	56,800	84,600	22,600	21,400	10,600	13,000	11,200	11,600
23	13,700	8,870	26,800	76,500	68,700	79,500	24,200	18,400	12,000	12,400	9,050	11,800
24	12,800	9,590	28,400	70,000	58,700	68,100	22,400	16,700	12,000	12,800	9,410	11,000
25	9,050	12,000	22,900	65,400	53,300	58,400	27,600	21,100	13,000	9,970	10,600	10,400
26	9,590	11,600	17,200	72,400	47,100	50,300	29,400	22,600	13,500	8,700	10,600	7,700
27	10,800	10,200	15,700	76,000	38,200	40,100	26,500	22,600	12,000	10,200	11,800	8,360
28	12,000	9,230	12,400	74,300	36,100	33,000	29,400	22,900	9,410	10,800	12,600	8,700
29	12,600	7,860	16,200	72,700	-	30,700	33,600	20,800	10,800	9,890	11,000	10,400
30	12,400	8,700	19,800	67,300	-	32,500	47,900	18,600	12,200	10,400	11,600	10,600
31	10,800	-	23,200	58,700	-	29,700	-	14,400	-	10,200	12,200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	381,760	19,400	8,700	12,310	0.815	0.94
November	294,100	12,000	7,540	9,803	.649	.72
December	500,590	28,400	8,360	16,150	1.07	1.23
Calendar year 1936	11,511,280	189,000	7,540	31,450	2.08	28.35
January	2,217,700	105,000	38,900	71,540	4.74	5.46
February	1,196,500	58,700	23,400	42,730	2.83	2.95
March	1,116,200	84,600	14,800	36,010	2.38	2.74
April	1,065,800	76,200	18,100	35,530	2.35	2.62
May	1,524,800	106,000	14,400	49,190	3.26	3.76
June	436,290	21,100	9,410	14,540	.963	1.07
July	339,910	14,400	8,360	10,960	.726	.84
August	306,870	12,600	6,620	9,899	.656	.76
September	380,500	23,700	7,700	12,680	.840	.94
Water year 1936-37	9,761,020	106,000	6,620	26,740	1.77	24.03

Alabama River at Selma, Ala.

Location.- Water-stage recorder, lat. 32°24', long. 87°01', in T. 17 N., R. 10 E., at bridge on U. S. Highway 80 in Selma, 2 miles above mouth of Valley Creek.

Drainage area.- 17,100 square miles.

Records available.- January 1899 to December 1913, June 1928 to September 1937.

Average discharge.- 22 years (1900-1913, 1928-37), 26,900 second-feet.

Extremes.- Maximum discharge during year, 117,000 second-feet May 6 (gage height, 42.32 feet); minimum, 7,670 second-feet Aug. 7 (gage height, 2.28 feet); minimum daily, 7,960 second-feet Nov. 16.

1899-1913, 1928-37: Maximum discharge, 204,000 second-feet Mar. 19, 1929 (gage height, 55.52 feet); minimum, 2,660 second-feet Nov. 1, 1904 (gage height, -2.20 feet); minimum daily, 3,300 second-feet Oct. 9 to Nov. 3, 1904.

Maximum stage known, 57.0 feet Apr. 8, 1886 (discharge, 221,000 second-feet).

Remarks.- Records good except for days of rapidly rising or falling stage, which are fair. Discharge for Dec. 12-19 computed from gage-height graph based on once-daily readings of U. S. Weather Bureau gage at same location. Flow regulated by operation of power plants on Coosa and Tallapoosa Rivers. (See remarks under Alabama River near Montgomery, Ala.)

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 8						Jan. 9 to Sept. 30					
2.6	7,960	7.5	17,400	17.0	41,500	37.0	98,700	2.6	8,090	9.0	20,300
3.1	8,640	10.0	23,300	20.0	49,500	40.0	108,700	3.3	9,180	11.0	25,300
3.7	9,570	12.0	28,400	30.0	77,500	42.4	117,300	5.0	12,200	13.0	30,900
4.5	11,000	13.0	31,300	32.0	83,300			7.0	16,000	15.0	36,500
5.6	13,200	14.0	34,000	34.0	89,300						

Note.- Same as preceding table above 15.0 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,570	11,200	8,790	36,500	67,700	44,700	33,400	66,600	17,600	13,700	10,900	14,700
2	10,100	9,410	8,790	52,000	58,700	43,300	31,200	93,600	21,700	12,200	10,200	21,300
3	13,000	9,570	10,800	66,600	52,800	41,200	29,400	102,000	22,400	11,100	9,520	30,300
4	13,700	11,000	11,600	80,100	46,300	37,200	26,900	112,000	21,000	11,500	9,180	31,200
5	9,910	12,000	11,600	92,100	41,500	33,400	24,800	115,000	20,800	11,300	8,700	25,600
6	9,090	12,200	11,400	104,000	39,000	31,500	31,500	117,000	20,100	10,600	8,240	18,500
7	9,090	12,000	10,100	112,000	36,500	30,300	39,700	116,000	18,500	11,100	8,090	15,200
8	17,600	11,200	13,000	115,000	29,400	24,800	55,400	116,000	17,200	10,800	9,350	15,800
9	22,100	9,090	17,000	113,000	28,300	21,700	69,600	113,000	19,800	11,700	9,350	17,000
10	17,200	9,740	17,400	108,000	39,700	25,100	79,200	106,000	18,900	14,900	9,180	16,200
11	16,300	10,800	17,700	100,000	53,400	27,200	82,400	94,300	18,500	15,600	9,350	15,000
12	14,100	11,600	18,400	92,100	62,600	26,700	80,100	79,500	18,900	13,700	10,600	14,900
13	10,400	12,000	16,500	84,500	64,900	27,200	72,400	60,100	19,800	12,200	11,500	12,600
14	11,200	10,600	11,600	78,900	62,400	25,900	60,700	44,100	14,100	11,800	11,800	10,400
15	12,600	9,090	10,100	71,900	57,300	20,800	49,500	36,200	13,300	14,300	11,300	12,600
16	13,500	7,960	15,600	60,400	51,200	19,600	40,200	31,500	16,200	14,500	10,200	13,700
17	15,000	8,500	21,400	49,200	47,300	25,900	33,200	22,400	17,900	13,700	10,000	13,700
18	15,900	8,790	21,200	44,900	42,300	28,900	29,700	20,100	17,600	13,200	11,100	13,000
19	12,400	8,500	20,700	49,200	36,500	30,300	26,400	24,800	16,200	11,800	11,800	12,400
20	10,100	8,360	21,900	60,400	35,400	45,500	21,500	25,300	13,900	10,800	13,000	11,700
21	11,800	8,500	20,200	73,600	45,500	71,000	24,500	24,000	12,400	11,300	13,000	10,900
22	13,500	9,740	24,600	82,400	59,800	87,800	25,300	23,200	11,800	13,300	11,800	10,400
23	14,100	8,790	29,600	86,000	67,400	93,600	25,300	22,700	12,400	14,300	11,800	11,800
24	14,300	8,790	29,600	85,100	69,400	91,400	28,300	21,200	13,300	14,300	10,400	12,200
25	13,000	9,910	30,200	80,700	67,400	85,100	30,000	20,500	13,500	14,100	10,800	11,700
26	9,740	12,000	24,300	79,200	61,200	75,800	36,200	23,700	14,300	11,800	12,000	10,900
27	9,570	11,400	19,300	82,100	53,400	64,900	35,900	24,500	14,500	10,200	12,600	8,660
28	10,800	10,300	17,700	83,900	46,500	51,700	32,900	24,500	13,300	11,300	13,200	8,360
29	12,000	9,250	16,300	83,600	-	41,500	34,800	24,000	11,500	12,000	13,900	9,520
30	12,600	8,220	20,500	81,600	-	37,200	41,700	22,200	12,600	10,900	13,500	10,800
31	12,800	-	25,800	75,800	-	36,200	-	19,400	-	10,900	13,900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	397,270	22,100	9,090	12,820	0.750	0.86
November	300,510	12,200	7,960	10,020	.586	.65
December	553,680	30,200	8,790	17,860	1.04	1.20
Calendar year 1936	12,513,510	177,000	7,470	34,190	2.00	27.20
January	2,464,800	115,000	36,500	79,510	4.65	5.36
February	1,423,800	69,400	28,300	50,850	2.97	3.09
March	1,347,400	93,600	19,600	43,460	2.54	2.93
April	1,232,100	82,400	21,500	41,070	2.40	2.68
May	1,745,400	117,000	19,400	56,300	3.29	3.79
June	491,000	22,400	11,500	16,370	.957	1.07
July	384,900	15,600	10,200	12,420	.726	.84
August	340,260	13,900	8,090	10,980	.642	.74
September	441,740	31,200	8,860	14,720	.861	.96
Water year 1936-37	11,122,860	117,000	7,960	30,470	1.78	24.17

Alabama River at Claiborne, Ala.

Location.- Water-stage recorder, lat. 31°32', long. 87°31', in sec. 25, T. 7 N., R. 5 E., at bridge on State Highway 44, in Claiborne. Zero of gage is at mean sea level.

Drainage area.- 22,000 square miles.

Records available.- April 1930 to September 1937.

Extremes.- Maximum discharge during year, 128,000 second-feet May 10-12; maximum gage height, 43.20 feet May 11; minimum discharge, 8,500 second-feet Aug. 9 (gage height, 10.21 feet).
1930-37: Maximum discharge, 183,000 second-feet Feb. 15, 1936 (gage height, 49.0 feet); minimum, 6,200 second-feet Nov. 3, 4, 1931; minimum gage height, 8.00 feet Nov. 4, 1931.

Remarks.- Records good. Flow regulated by operation of hydroelectric plants on Coosa and Tallapoosa Rivers, and by storage in Martin Dam Reservoir on Tallapoosa River.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

10.3	8,650	24.0	38,200	32.5	69,300
11.0	9,750	25.0	41,000	35.0	80,800
12.0	11,500	26.0	44,000	37.0	90,900
14.0	15,400	27.0	47,300	39.0	102,000
16.0	19,400	28.5	52,700	41.0	114,000
18.0	23,700	30.0	58,700	43.2	128,000
21.0	30,600	31.0	62,800		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11,000	13,400	11,700	36,600	97,500	70,200	51,600	51,800	23,000	13,000	11,500	16,600
2	10,800	13,400	10,800	42,800	94,200	63,700	44,700	69,700	21,100	12,800	11,100	18,200
3	10,600	12,800	10,800	51,600	87,800	57,100	39,900	84,200	20,800	13,400	11,100	23,700
4	11,000	11,900	11,100	64,100	78,000	51,600	37,400	95,300	22,600	12,800	10,600	30,400
5	12,800	11,300	12,300	76,100	68,000	47,000	38,500	104,000	23,200	12,400	10,100	33,600
6	13,400	11,900	13,200	88,800	57,900	42,200	45,700	112,000	23,200	13,600	9,750	32,400
7	12,100	12,600	14,000	99,800	50,100	39,000	49,100	118,000	23,400	14,600	9,270	29,900
8	10,800	13,000	14,200	109,000	45,000	38,500	52,000	123,000	22,800	14,000	8,800	26,200
9	11,100	13,000	14,200	115,000	42,800	37,900	55,000	126,000	21,100	13,600	8,650	22,400
10	16,000	12,400	16,400	121,000	46,300	34,600	76,100	128,000	20,200	13,000	9,110	21,100
11	19,000	11,300	18,600	124,000	51,200	31,600	83,300	128,000	20,400	13,400	9,750	20,800
12	18,600	11,100	19,200	126,000	55,900	30,900	87,200	128,000	20,000	15,000	9,750	20,400
13	17,200	11,700	19,400	125,000	62,000	30,600	90,400	124,000	19,400	15,600	9,750	19,400
14	15,400	12,400	19,600	121,000	67,100	30,400	89,800	116,000	19,000	14,600	10,800	18,200
15	13,200	12,800	18,600	115,000	68,900	29,900	85,200	99,200	17,800	13,200	12,100	15,800
16	12,400	12,300	17,800	107,000	71,500	28,900	76,100	77,400	15,600	12,600	12,300	13,800
17	13,000	11,100	19,600	97,500	62,800	26,900	63,500	57,800	14,800	13,800	11,900	13,800
18	13,800	9,920	22,100	85,200	57,500	27,800	50,900	42,800	16,600	14,400	11,000	14,400
19	15,000	9,750	24,100	72,900	52,000	30,900	41,600	33,100	18,200	14,800	10,600	14,600
20	15,600	9,920	27,600	67,100	47,000	46,800	36,100	29,200	18,400	14,400	11,000	14,200
21	14,200	9,920	27,800	69,300	49,800	66,300	31,100	28,800	17,400	13,200	11,500	13,600
22	12,600	9,750	26,400	74,700	60,800	76,500	27,800	28,100	15,400	11,900	12,400	12,800
23	12,600	9,920	25,500	81,300	68,900	85,700	27,600	26,900	13,400	12,100	12,600	12,100
24	13,600	10,600	27,400	87,800	73,800	95,300	28,600	26,400	12,300	13,400	12,300	11,700
25	14,400	10,800	28,800	93,100	77,000	104,000	34,400	25,700	12,400	15,000	12,300	12,100
26	14,600	10,600	29,500	96,900	78,000	110,000	37,400	23,900	13,000	15,400	12,300	12,400
27	14,000	11,100	28,500	98,600	76,500	112,000	39,300	23,400	13,400	15,000	13,200	12,300
28	12,300	12,300	26,400	98,600	73,800	107,000	41,600	24,600	14,800	13,600	14,600	11,700
29	11,300	12,600	26,700	98,600	-	94,700	40,400	25,300	15,400	11,900	15,000	10,400
30	11,700	12,300	26,700	98,600	-	78,900	39,600	25,000	14,800	11,500	16,200	9,750
31	12,600	-	27,600	98,600	-	62,800	-	24,100	-	11,900	17,000	-

Month	Second-feet-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	416,700	19,000	10,600	13,440	0.611	0.70
November	347,680	13,400	9,750	11,590	.527	.59
December	636,640	29,500	10,800	20,540	.934	1.08
Calendar year 1936	15,370,180	183,000	9,750	42,000	1.91	25.99
January	2,840,600	126,000	35,600	91,630	4.16	4.80
February	1,822,100	97,500	42,800	65,080	2.96	3.08
March	1,789,600	112,000	26,900	57,730	2.62	3.02
April	1,551,900	90,400	27,600	51,730	2.35	2.62
May	2,182,700	128,000	23,400	68,700	3.12	3.60
June	543,900	25,400	12,300	18,130	.824	.92
July	419,900	15,600	11,500	13,550	.616	.71
August	358,350	17,000	8,650	11,560	.525	.61
September	538,750	33,600	9,750	17,960	.816	.91
Water year 1936-37	13,395,760	128,000	8,650	36,700	1.67	22.64

Etowah River at Canton, Ga.

Location.- Wire-weight gage, lat. 34°14', long. 84°30', at bridge on State Highway 5 at Canton, Cherokee County, three-quarters of a mile above Canton Creek and 1¾ miles below Hickory Log Creek.

Drainage area.- 605 square miles.

Records available.- March 1892 to December 1894 (gage heights only), January 1895 to December 1905, March to September 1937. U. S. Weather Bureau has obtained daily stages since July 1891; prior to Oct. 6, 1930 gage was at datum 2.0 feet higher.

Extremes.- Maximum discharge observed during period, 10,000 second-feet Apr. 30 (gage height, 17.47 feet); minimum, 204 second-feet Sept. 15 (gage height, 1.22 feet), caused by regulation.

1896-1905, 1937: Maximum discharge, 17,100 second-feet Dec. 29, 1901 (gage height, 22.0 feet, present datum); minimum, 190 second-feet several days in September and October 1904.

Maximum stage known, 26.3 feet Dec.10, 1919, present datum.

Remarks.- Records good except those for August and September, which are fair. Occasional regulation during periods of low flow. Gage read twice daily.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	1,280	3,140	1,280	886	612	928
2						-	1,240	2,480	1,060	765	539	687
3						-	1,190	2,270	1,150	667	539	649
4						-	1,190	2,170	1,060	687	503	539
5						-	1,720	3,250	1,060	1,470	503	503
6						-	3,190	2,860	1,010	1,060	765	687
7						-	1,920	2,170	970	1,150	687	503
8						-	3,650	1,970	928	928	928	468
9						-	4,420	1,820	866	845	886	612
10						-	2,590	1,720	886	765	1,150	575
11						-	1,870	1,620	1,150	649	765	468
12						-	1,620	1,570	928	612	612	468
13						-	1,620	1,570	886	612	575	433
14						-	1,570	1,570	886	612	612	365
15						-	1,420	1,520	1,190	612	575	267
16						1,520	1,570	1,420	1,470	575	539	365
17						1,420	1,420	1,380	1,570	575	468	348
18						1,420	1,420	1,280	1,240	612	468	348
19						1,520	1,380	1,280	970	612	433	348
20						1,820	1,330	1,330	928	649	433	332
21						1,970	1,330	1,280	845	612	382	332
22						1,620	1,420	1,280	805	575	382	316
23						1,520	1,330	1,280	805	1,570	612	299
24						1,520	1,770	1,280	726	1,060	726	299
25						1,770	3,420	1,240	726	970	1,150	299
26						1,520	2,120	1,280	726	845	886	316
27						1,420	1,670	1,150	726	649	1,330	316
28						1,420	1,470	1,100	687	575	765	316
29						1,330	6,020	1,100	1,010	539	726	316
30						1,280	8,710	1,060	1,240	539	687	316
31						1,280	-	1,060	-	649	1,520	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 16-31	24,350	1,970	1,280	1,522	2.52	1.50
April	66,870	6,710	1,190	2,229	3.68	4.11
May	51,500	3,250	1,060	1,661	2.75	3.17
June	29,804	1,570	687	993	1.64	1.83
July	23,946	1,570	559	772	1.28	1.48
August	21,758	1,520	382	702	1.16	1.34
September	13,018	928	267	434	.717	.80
Water year						

Etowah River near Kingston, Ga.

Location.- Water-stage recorder, lat. 34°12', long. 84°59', at county bridge half a mile above Two Run Creek, 1¾ miles above Connesena Creek, and 2½ miles southwest of Kingston, Bartow County. Zero of gage is 609.97 feet above mean sea level. Prior to June 15, 1937, staff gage at same site and datum.

Drainage area.- 1,630 square miles.

Records available.- July 1928 to December 1931, November 1936 to September 1937.

Extremes.- Maximum discharge observed during period, 31,800 second-feet Jan. 3 (gage height, 22.4 feet); minimum observed, 634 second-feet Dec. 1 (gage height, 3.56 feet). 1928-31, 1936-37: Maximum discharge, 40,200 second-feet Mar. 7, 1930 (gage height, 21.5 feet); minimum, 201 second-feet Oct. 19, 1931 (gage height, 2.76 feet).

Remarks.- Records good between 1,000 and 12,000 second-feet and fair above and below these limits. Gage read twice daily Nov. 16 to June 14.

Rating table, Nov. 16, 1936 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

3.5	595	12.0	11,600
4.0	940	14.0	15,300
5.0	1,700	16.0	19,100
6.0	2,600	18.0	23,900
7.0	3,700	20.0	27,000
8.0	5,000	22.0	31,200
10.0	8,100		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	807	10,200	4,460	3,700	2,510	16,800	3,010	2,240	1,700	2,700
2		-	1,500	19,900	4,200	3,230	2,420	6,030	2,420	1,660	1,180	2,100
3		-	1,220	31,400	3,820	3,010	2,420	4,860	2,800	1,500	1,180	1,580
4		-	1,660	27,800	3,340	3,010	2,420	4,720	2,100	1,420	1,150	1,380
5		-	1,540	16,400	3,230	2,900	3,820	7,140	2,020	2,050	1,080	1,380
6		-	1,300	6,820	3,010	2,800	10,200	7,460	1,970	3,370	1,580	2,200
7		-	2,600	5,580	3,010	2,800	5,580	5,140	1,920	2,060	1,740	1,620
8		-	5,000	4,590	2,800	3,010	10,200	4,070	1,840	1,220	2,280	1,540
9		-	2,600	3,940	10,500	3,010	16,400	3,700	1,790	1,080	1,880	2,510
10		-	1,840	3,340	14,900	2,800	8,440	3,340	1,700	1,840	2,600	1,740
11		-	1,620	3,340	7,140	2,600	4,460	3,230	1,880	1,700	2,600	1,420
12		-	1,700	3,230	4,200	2,600	3,820	3,010	2,020	1,600	2,200	1,260
13		-	1,580	3,230	3,460	2,510	3,460	2,900	1,740	1,500	1,540	1,220
14		-	1,420	3,010	3,340	2,600	3,230	2,900	1,660	1,400	2,800	1,120
15		-	1,380	3,230	3,340	3,230	3,120	2,800	2,020	1,300	1,840	1,080
16		1,120	2,020	3,340	3,230	3,460	3,230	2,700	1,880	1,150	1,700	1,120
17		1,010	2,150	3,340	3,010	3,010	3,230	2,600	2,150	1,150	1,300	1,120
18		1,010	1,840	3,460	3,010	2,800	2,800	2,510	2,800	1,300	1,180	1,040
19		1,010	13,600	9,290	2,800	3,230	2,700	2,420	2,100	1,220	1,150	975
20		1,010	14,000	12,100	3,230	4,720	2,700	2,600	1,790	1,180	1,040	1,010
21		1,010	4,200	7,460	10,300	4,720	2,600	2,420	1,700	1,180	1,010	1,010
22		940	3,010	4,200	8,270	3,700	2,600	2,800	1,540	1,120	940	975
23		975	2,420	3,820	5,430	3,340	2,800	2,600	1,500	1,120	1,150	975
24		1,010	2,100	3,940	4,200	3,010	2,600	2,420	1,420	2,240	3,400	975
25		1,010	1,920	7,780	3,820	3,230	8,270	2,280	1,380	1,580	4,540	975
26		1,010	1,790	8,100	3,460	3,120	5,880	2,240	1,380	1,580	2,800	975
27		940	1,700	4,590	3,230	2,800	3,580	2,240	1,500	1,460	3,040	940
28		1,040	1,680	4,460	3,820	2,700	4,200	2,150	1,460	1,180	2,800	1,010
29		975	2,600	3,700	-	2,600	12,300	2,100	3,660	1,120	2,200	1,010
30		870	3,340	3,700	-	2,600	25,600	2,060	3,900	1,430	1,700	1,010
31		-	4,590	3,340	-	2,510	-	2,200	-	1,150	1,920	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	-	-	-	-	-	-
November 16-30	14,940	1,120	870	996	0.611	0.34
December	90,927	14,000	807	2,933	1.80	2.08
Calendar year						
January	232,630	31,400	3,010	7,504	4.60	5.30
February	132,560	14,900	2,800	4,734	2.90	3.02
March	95,360	4,720	2,510	3,076	1.89	2.18
April	167,590	25,600	2,420	5,586	3.43	3.83
May	116,440	16,800	2,060	3,756	2.30	2.65
June	61,050	3,900	1,380	2,035	1.25	1.40
July	47,100	3,370	1,120	1,519	.932	1.07
August	59,220	4,540	940	1,910	1.17	1.35
September	39,970	2,700	940	1,332	.817	.91
Water year						

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Chattooga River at Summerville, Ga.

Location.- Staff gage, lat. 34°28', long. 85°20', 600 feet below bridge on U. S. Highway 27, 1 mile southeast of Summerville, Chattooga County, and 4 miles above Raccoon Creek.

Drainage area.- 193 square miles.

Records available.- March to September 1937.

Extremes.- Maximum discharge observed during period, 3,260 second-feet Apr. 29 (gage height, 12.93 feet); minimum, 52 second-feet Sept. 30 (gage height, 1.59 feet).

Remarks.- Records fair. Gage read twice daily. Intermittent regulation from hydroelectric plant at Trion, 6 miles upstream.

Rating table, Mar. 11 to Sept. 30, 1937 (gage height, in feet, and discharge, in second-feet)

1.6	52	7.0	1,200
2.0	90	9.0	1,710
2.5	167	10.0	1,980
3.0	268	11.0	2,340
4.0	482	12.0	2,800
5.0	710		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	158	1,200	196	103	110	84
2						-	247	950	158	140	140	167
3						-	167	1,660	167	90	90	110
4						-	186	1,320	149	103	117	96
5						-	373	2,220	149	103	216	60
6						-	416	1,400	117	167	186	394
7						-	289	902	149	140	132	90
8						-	351	687	140	103	289	90
9						-	310	549	140	84	352	373
10						-	289	526	140	96	132	124
11						268	216	416	140	117	124	117
12						247	268	382	140	103	124	79
13						258	196	394	140	110	206	110
14						186	216	373	149	96	124	90
15						258	176	310	149	96	84	103
16						176	178	236	117	96	132	90
17						186	226	268	167	96	117	124
18						196	132	247	117	103	84	96
19						226	167	196	176	103	90	89
20						352	167	206	149	103	96	74
21						289	158	158	140	117	64	96
22						268	186	310	132	84	64	69
23						236	158	186	103	196	216	90
24						258	854	226	90	132	117	64
25						352	1,420	158	103	124	79	103
26						289	664	167	110	110	79	69
27						268	482	176	117	124	117	74
28						216	394	176	96	79	226	84
29						289	2,420	167	158	90	84	103
30						167	2,010	167	90	167	124	79
31						268	-	167	-	140	373	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 11-31	5,255	352	167	250	1.30	1.02
April	13,442	2,420	132	448	2.32	2.59
May	16,470	2,220	158	531	2.75	3.17
June	4,088	196	90	136	.705	.79
July	3,515	196	79	113	.585	.67
August	4,498	373	84	145	.751	.87
September	3,371	394	60	112	.580	.65
Water year						

Little River near Jamestown, Ala.

Location.- Water-stage recorder, lat. 34°24', long. 85°38', in T. 7 S., R. 10 E., at highway bridge a quarter of a mile above Yellow Creek and 2½ miles west of Jamestown. Zero of gage is 1,177.4 feet above mean sea level (from Alabama Power Co. benchmark).

Drainage area.- 121 square miles.

Records available.- October 1928 to April 1932, May 1935 to September 1937.

Extremes.- Maximum discharge during year, 11,100 second-feet Jan. 2 (gage height, 9.09 feet); minimum, 0.4 second-foot Aug. 19, 20 (gage height, 0.58 foot).
1928-32, 1935-37: Maximum discharge, 18,800 second-feet Feb. 4, 1936 (gage height, 11.9 feet); no flow several days during July and September 1930, Sept. 17 to Nov. 29, 1931.

Remarks.- Records good except those below 10 second-feet, which are fair.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.58	0.4	1.1	30.8	1.8	189	3.1	970
.60	.5	1.2	42.0	1.9	232	3.9	1,720
.63	.8	1.3	55.2	2.0	279	4.5	2,410
.69	2.0	1.4	71.0	2.3	434	5.3	3,500
.75	4.1	1.5	92	2.5	543	6.4	5,210
.86	10.3	1.6	119	2.7	663	6.7	5,720
.97	18.5	1.7	151	2.9	805		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.6	1.4	2.3	1,330	724	339	111	1,370	58	6.1	0.5	1.8
2	1.6	1.6	3.3	5,600	572	299	100	1,230	62	3.7	.7	2.3
3	1.2	1.6	5.6	4,920	456	294	88	4,150	189	2.6	1.4	2.0
4	1.0	2.9	7.9	1,470	371	270	77	1,880	104	2.3	.7	2.0
5	.8	2.9	7.9	1,060	294	241	199	2,230	73	2.0	9.8	2.3
6	1.0	2.3	21	1,330	246	202	397	1,420	63	1.8	30	10
7	1.6	2.9	140	1,170	215	181	309	910	51	3.7	8.5	12
8	1.6	2.9	86	805	197	241	309	644	41	5.6	4.6	6.7
9	2.3	2.9	57	613	2,200	206	314	477	34	5.6	2.6	4.1
10	4.6	2.9	45	499	1,330	193	265	355	30	7.3	2.3	2.6
11	3.3	2.6	61	456	821	174	215	270	32	6.7	1.8	5.2
12	2.3	4.1	82	455	601	145	178	202	27	6.1	1.4	2.9
13	1.8	4.6	68	717	483	129	148	174	22	3.3	2.3	2.0
14	1.6	4.6	55	601	423	122	132	257	19	2.6	2.0	1.6
15	1.4	3.3	49	1,400	345	132	114	174	22	2.0	1.4	1.2
16	2.9	2.9	54	1,130	289	114	100	138	20	1.6	1.4	1.6
17	4.1	2.6	54	995	232	103	86	111	17	1.6	.7	1.8
18	3.7	2.9	67	2,870	206	132	75	86	14	2.0	.6	1.0
19	2.9	2.9	667	1,880	185	178	68	71	13	2.0	.5	.8
20	2.3	2.9	565	1,470	284	291	62	62	14	2.9	.4	1.4
21	1.8	2.9	353	1,050	726	324	65	54	14	2.6	.5	1.2
22	1.8	2.6	240	768	670	274	114	302	10	2.3	.6	.8
23	2.3	2.3	166	613	526	232	86	215	8.5	2.3	.6	.7
24	2.0	2.3	129	549	439	257	902	138	7.3	1.8	.5	.6
25	2.0	2.3	100	3,160	360	392	1,830	100	5.6	1.6	.7	.8
26	2.3	2.3	86	1,470	289	350	861	75	4.6	2.9	.7	.7
27	2.3	2.3	79	864	260	289	578	63	3.7	2.9	.5	.7
28	2.3	1.8	129	711	381	232	429	54	4.1	1.4	.5	.6
29	2.3	1.8	246	663	-	193	2,820	58	9.7	1.0	.6	.5
30	1.8	1.6	308	538	-	162	1,940	69	6.7	.8	.8	.5
31	1.6	-	1,950	610	-	135	-	46	-	.6	1.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	66.1	4.6	0.8	2.13	0.018	0.02
November	79.9	4.6	1.4	2.66	.022	.02
December	5,884.0	1,950	2.3	190	1.57	1.81
Calendar year 1936	110,238.2	12,600	.4	301	2.49	33.89
January	41,767	5,600	455	1,347	11.1	12.80
February	14,125	2,200	185	504	4.17	4.34
March	6,826	392	103	220	1.82	2.10
April	12,972	2,820	82	432	3.57	3.98
May	17,385	4,150	46	561	4.64	5.35
June	979.2	189	3.7	32.6	.269	.30
July	91.7	7.3	.6	2.96	.024	.03
August	81.0	30	.4	2.61	.022	.03
September	72.2	12	.5	2.41	.020	.02
Water year 1936-37	100,329.1	5,600	.4	275	2.27	30.80

Choccolocco Creek near Jenifer, Ala.

Location.- Staff gage, lat. 33°34', long. 85°56', in T. 17 S., R. 7 E., at Louisville & Nashville Railroad bridge, 1½ miles north of Jenifer.

Drainage area.- 275 square miles.

Records available.- August 1903 to February 1908, May 1929 to March 1932, May 1935 to September 1937.

Extremes.- Maximum discharge during year, 9,680 second-feet Apr. 30 (gage height, 11.5 feet, from floodmarks); minimum observed, 81 second-feet Oct. 15 (gage height, 1.68 feet).

1903-8, 1929-32, 1935-37: Maximum discharge, 25,800 second-feet Feb. 4, 1936 (gage height, 17.2 feet), from rating curve extended above 7,330 second-feet on basis of area-velocity studies and run-off at stations on nearby streams; minimum observed, 26 second-feet Oct. 24-30, Nov. 1, 2, 1904, Oct. 9, 1931 (gage height, 1.40 feet).

Remarks.- Records good. Gage read at least twice daily; gage-height graphs drawn for periods of rapidly changing stage.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.6	75	2.5	272	4.6	1,190	7.1	2,840
1.7	83	2.8	365	5.2	1,530	7.9	3,680
1.8	94	3.2	503	5.8	1,880	8.8	4,810
1.9	112	3.5	623	6.2	2,120	9.5	5,820
2.0	134	3.7	713	6.5	2,330	10.0	6,660
2.2	186	4.0	863	6.8	2,570		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	114	88	91	1,760	713	503	365	3,280	272	167	123	228
2	110	88	98	3,350	541	467	365	2,330	257	156	119	243
3	105	83	112	5,370	503	432	333	1,940	287	142	110	257
4	101	86	127	4,550	449	415	317	1,760	317	136	110	302
5	105	91	142	2,190	432	398	723	2,410	333	175	119	272
6	98	86	154	1,360	398	381	971	1,640	317	257	152	272
7	92	86	432	1,140	381	365	667	1,020	287	243	183	257
8	101	91	317	917	408	381	1,880	811	257	228	200	214
9	110	93	200	713	1,870	365	2,060	713	243	186	178	186
10	114	91	156	581	1,880	333	1,470	667	243	287	139	178
11	101	88	156	503	1,300	317	811	623	214	243	116	167
12	98	93	146	467	761	317	581	541	200	200	108	167
13	90	99	134	449	623	302	541	467	186	175	114	162
14	84	103	134	415	541	432	467	467	186	156	132	152
15	82	96	156	667	503	467	449	449	214	144	134	142
16	86	99	243	667	432	449	432	415	257	132	144	136
17	90	96	257	761	398	398	415	398	317	159	170	136
18	88	93	381	863	381	503	381	381	287	186	181	136
19	98	91	917	1,530	361	863	365	349	257	467	167	132
20	103	88	971	1,700	1,020	1,590	333	349	214	581	170	127
21	94	91	581	1,530	1,640	1,700	333	317	186	302	162	127
22	90	86	317	1,190	1,420	1,420	317	333	172	214	154	123
23	90	88	257	971	1,300	713	302	333	164	181	432	123
24	91	105	243	667	667	623	581	317	156	156	581	127
25	91	119	214	1,820	581	581	449	302	156	159	761	119
26	88	110	200	1,880	541	541	381	287	152	162	761	110
27	93	103	186	1,640	503	449	333	287	146	156	713	107
28	93	94	317	863	541	415	302	272	142	146	713	103
29	88	88	317	667	-	398	1,660	257	178	136	863	99
30	88	86	432	581	-	381	6,560	243	175	136	667	98
31	91	-	1,360	623	-	365	-	243	-	127	317	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,967	114	82	95.7	0.348	0.40
November	2,799	119	83	93.3	.339	.38
December	9,748	1,360	91	314	1.14	1.31
Calendar year 1936	212,558	22,100	82	581	2.11	28.74
January	42,385	5,370	415	1,367	4.97	5.73
February	21,108	1,880	381	754	2.74	2.85
March	17,264	1,700	302	557	2.03	2.34
April	25,144	6,560	302	838	3.05	3.40
May	24,201	3,280	243	781	2.84	3.27
June	6,772	333	142	226	.822	.92
July	6,295	581	127	203	.738	.85
August	8,993	863	108	290	1.05	1.21
September	5,002	302	98	167	.607	.68
Water year 1936-37	172,678	6,560	82	473	1.72	23.34

Tallapoosa River at Wadley, Ala.

Location.- Staff gage, lat. 33°08', long. 85°34', in sec. 12, T. 22 S., R. 10 E., in Wadley. Zero of gage is 600.78 feet above mean sea level.

Drainage area.- 1,660 square miles.

Records available.- September 1923 to September 1937.

Average discharge.- 14 years, 2,521 second-feet.

Extremes.- Maximum discharge observed during year, 24,000 second-feet Apr. 9 (gage height, 16.9 feet); minimum, 330 second-feet Sept. 27 (gage height, 2.80 feet).
1923-37: Maximum discharge observed, 52,800 second-feet Feb. 5, 1936 (gage height, 27.9 feet); minimum, 60 second-feet on eight days during September 1925 and on Oct. 2, 1931 (gage height, 2.2 feet).

Remarks.- Records good except those above 18,000 second-feet, which are fair. Gage read twice daily. Slight diurnal regulation during extremely low water caused by operations of small mills upstream. Records collected by Alabama Power Co. under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.8	330	8.2	8,010
3.4	1,080	9.2	9,960
5.5	4,200	11.2	14,500
6.5	5,180	13.2	18,400
7.2	6,260	15.5	21,600

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,660	480	667	8,010	5,630	3,680	2,510	17,700	2,640	1,280	580	1,340
2	1,140	405	755	13,700	4,200	3,290	2,380	14,900	2,770	1,080	567	2,250
3	780	480	1,080	21,600	3,420	3,030	2,380	8,010	1,860	930	617	2,510
4	605	442	1,280	16,800	3,030	2,770	2,380	5,630	2,120	880	805	1,600
5	467	467	1,210	18,800	2,770	2,770	7,470	8,390	2,120	855	1,340	2,250
6	505	455	1,080	14,900	2,640	2,640	11,200	8,770	2,120	2,510	767	1,660
7	542	467	5,580	7,470	2,510	2,510	7,830	6,600	1,730	1,470	842	1,340
8	830	455	5,040	5,040	2,380	3,160	13,000	4,480	1,600	1,280	3,680	1,080
9	1,540	467	2,900	3,940	11,200	2,770	18,700	3,810	1,660	1,140	4,070	1,210
10	2,770	492	1,860	3,290	12,600	2,640	13,000	3,290	1,470	1,470	3,160	1,400
11	1,340	480	1,470	2,900	9,360	2,380	8,010	3,030	1,540	1,140	3,160	1,470
12	1,020	517	1,210	2,770	4,900	2,380	4,900	2,900	1,340	1,080	1,860	1,080
13	817	580	1,140	2,510	3,810	2,250	3,810	2,770	1,280	942	2,380	905
14	692	605	1,020	2,380	3,420	2,380	3,420	2,640	1,210	817	2,640	780
15	630	667	1,080	2,510	3,030	3,680	3,290	2,640	1,860	742	1,660	667
16	580	592	2,120	3,160	2,900	3,680	3,420	2,380	1,660	1,080	1,400	630
17	542	550	2,380	3,420	2,640	3,160	3,030	2,380	1,990	692	955	605
18	505	505	1,990	4,480	2,510	3,030	2,770	2,250	1,730	1,210	792	605
19	517	517	10,400	6,940	2,380	3,550	2,640	2,120	1,600	1,600	680	617
20	530	505	8,390	9,560	7,290	14,200	2,640	2,120	1,660	3,550	630	580
21	505	492	6,600	7,650	15,800	9,160	2,640	1,990	1,600	1,730	580	592
22	467	492	3,810	5,330	11,400	5,480	2,640	5,040	1,340	1,140	705	505
23	442	430	2,770	4,200	7,830	4,340	2,510	3,420	1,140	930	1,600	480
24	480	530	1,730	3,550	5,330	3,940	3,940	3,290	1,080	842	1,340	455
25	542	630	1,540	8,770	4,200	3,810	4,900	3,030	1,020	792	1,400	455
26	692	667	1,340	8,960	3,550	3,420	3,680	2,120	1,020	755	2,120	405
27	642	630	1,280	5,940	3,290	3,030	3,030	1,990	1,020	717	5,480	355
28	630	630	2,120	4,620	3,810	2,900	2,640	1,860	942	642	3,030	405
29	605	605	2,900	4,070	-	2,770	6,600	1,730	942	642	3,030	417
30	542	567	3,810	3,550	-	2,640	15,600	1,860	1,080	605	3,290	417
31	530	-	7,470	3,160	-	2,510	-	1,860	-	580	1,600	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	24,089	2,770	442	777	0.468	0.54
November	15,801	667	405	527	.317	.35
December	91,022	10,400	667	2,936	1.77	2.04
Calendar year 1936	1,312,040	49,300	405	3,585	2.16	29.38
January	213,980	21,600	2,380	6,903	4.16	4.80
February	147,830	15,800	2,380	5,280	3.18	3.31
March	113,950	14,200	2,250	3,676	2.21	2.55
April	166,960	18,700	2,380	5,565	3.35	3.74
May	135,000	17,700	1,730	4,355	2.62	3.02
June	47,144	2,770	942	1,571	.946	1.06
July	35,123	3,550	580	1,133	.683	.79
August	56,760	5,480	567	1,831	1.10	1.27
September	29,065	2,510	355	969	.584	.65
Water year 1936-37	1,076,724	21,600	355	2,950	1.78	24.12

Tallapoosa River below Tallassee, Ala.

Location.- Water-stage recorder, lat. 32°31', long. 85°53', in T. 18 N., R. 22 E., 1½ miles below highway bridge at Tallassee. Zero of gage is 162.03 feet above mean sea level.
Drainage area.- 3,320 square miles.
Records available.- July 1928 to September 1937.
Extremes.- Maximum discharge during year, 45,300 second-feet Apr. 30 (gage height, 31.0 feet, affected by backwater from Coosa River), from discharge over spillway and through turbines at power plant 2 miles upstream; minimum, 27 second-feet at times during October, November, July, August, September (gage height, 0.15 foot); minimum daily, 27 second-feet July 4, Aug. 15, Sept. 5.
1928-37: Maximum discharge, 115,000 second-feet Mar. 15, 1929 (gage height, 51.35 feet); minimum, 10 second-feet at times during 1930 and 1931; minimum gage height, -1.6 feet Oct. 2, 5, 1932; minimum daily, 10 second-feet June 3, 1930, May 17, 1931.
Remarks.- Records good except those below 1,000 second-feet, those above 10,000 second-feet, and those for periods of backwater from Coosa River, which are fair. Regulation caused by operation of power plants and by Martin Dam reservoir (capacity, 1,380,000 acre-feet) upstream. Records collected by Alabama Power Co. under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Rating tables, water year 1936-37 except periods of backwater (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 20

-0.15	27	1.5	394	5.1	3,490
0	42	2.3	700	7.5	8,190
.1	53	3.3	1,230	8.0	9,060
.4	98	3.9	1,710	10.0	11,200
1.0	237	4.5	2,430	13.5	16,100

Mar. 21 to Sept. 30

4.0	1,818	7.5	8,520
4.4	2,380	8.0	9,310
6.0	5,500	9.0	10,100

Note.- Same as preceding table below 4.0 and above 8.7 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,880	*7,950	7,250	1,840	†5,280	8,160	6,260	†27,700	9,210	3,610	*198	2,160
2	6,450	7,750	6,160	799	†4,760	6,010	6,290	*†22,900	8,670	2,670	202	2,630
3	5,910	7,400	6,590	*895	†4,940	6,020	2,680	†19,800	8,430	50	2,550	3,990
4	*54	8,160	7,480	†5,190	4,750	6,290	*738	†13,500	8,920	*27	3,810	351
5	5,440	7,860	6,510	†5,780	6,000	6,120	5,960	†14,100	3,740	32	4,070	*27
6	6,020	7,720	*1,750	†7,190	2,260	2,070	16,000	†16,700	*1,800	1,270	1,240	5,250
7	6,590	6,900	6,600	†5,190	*86	*95	†13,200	†13,400	6,620	2,570	47	9,200
8	7,290	*785	2,200	3,850	5,530	5,790	†15,000	†10,300	6,040	3,330	*28	7,580
9	9,630	7,000	3,210	549	†5,940	5,480	†37,600	*†4,970	7,440	1,890	1,680	7,350
10	9,400	7,920	3,430	*100	†6,920	5,960	†20,800	†7,930	8,370	1,040	3,430	4,970
11	*4,110	7,650	2,890	3,320	†7,400	6,650	*†13,800	6,590	8,380	*254	3,020	3,460
12	6,070	7,720	56	3,480	†5,920	6,890	†7,670	6,220	8,920	3,560	2,980	*1,850
13	8,320	7,450	*30	3,010	1,210	2,150	9,220	6,250	*5,930	6,330	1,390	6,720
14	8,220	5,740	6,130	3,420	*84	*407	7,860	5,740	6,120	5,270	1,070	7,570
15	9,000	*894	6,520	3,760	†6,730	6,030	5,630	2,620	6,680	5,450	*27	7,570
16	8,990	6,380	3,280	103	†6,560	5,880	8,980	*68	6,560	5,160	1,340	7,580
17	7,550	7,080	4,620	*90	†6,270	6,300	4,760	5,000	5,000	2,060	2,220	7,960
18	*5,930	6,650	2,660	3,240	6,350	6,190	*476	6,300	3,200	*102	3,570	8,780
19	5,830	6,380	1,350	†4,780	6,840	7,170	7,990	6,830	379	3,160	4,940	*1,760
20	8,600	6,760	*704	†4,680	602	†33,300	7,790	7,010	*42	2,040	4,820	5,710
21	8,480	5,370	3,340	†4,720	*†4,960	*†29,400	7,710	9,090	3,730	3,580	1,770	6,650
22	7,750	*1,370	1,160	†4,050	†8,660	†13,400	8,610	4,520	3,310	3,210	*647	6,850
23	8,360	6,190	464	†299	†10,200	†9,430	7,790	*84	3,460	4,110	3,770	7,320
24	7,520	6,810	72	*106	†10,300	9,900	8,460	6,410	4,940	379	3,070	8,030
25	*6,300	6,800	65	3,730	10,900	11,600	*3,700	7,530	6,930	*117	2,350	6,210
26	5,290	5,520	67	†5,230	11,200	11,800	2,780	8,290	3,030	2,930	670	*1,170
27	7,410	6,480	*65	†5,360	10,800	8,900	4,090	8,460	*33	2,340	2,330	6,070
28	8,540	5,980	1,100	†5,460	*4,980	*8,790	5,590	8,350	3,730	3,300	1,450	6,500
29	8,440	*62	609	†4,780	-	9,690	4,530	8,210	3,330	4,230	*75	6,740
30	7,510	5,950	1,270	254	-	7,090	†35,800	*2,270	2,400	4,540	940	6,540
31	8,190	-	2,840	*82	-	7,520	-	7,280	-	50	1,820	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	219,074	9,630	54	7,067	2.13	2.46
November	182,481	8,160	62	6,083	1.83	2.04
December	90,672	7,480	30	2,925	.881	1.02
Calendar year 1936	2,479,726	78,100	16	6,775	2.04	27.81
January	95,337	7,190	82	3,075	.926	1.07
February	166,432	11,200	84	5,944	1.79	1.86
March	260,482	33,300	95	8,403	2.53	2.92
April	287,764	37,600	476	9,592	2.89	3.22
May	274,422	27,700	68	8,852	2.67	3.08
June	155,344	9,210	33	5,178	1.56	1.74
July	78,651	6,330	27	2,537	.764	.88
August	61,524	4,940	27	1,985	.598	.69
September	164,508	9,200	27	5,484	1.65	1.84
Water year 1936-37	2,036,691	37,600	27	5,580	1.68	22.82

*Sunday.
†Stage-discharge relation affected by backwater from Coosa River; discharge computed on basis of power and spillway records at Thurlow Dam, 2 miles upstream.

Little Tallapoosa River at Carrollton, Ga.

Location.- Staff gage, lat. 33°36', long. 85°05', at water pumping plant in Carrollton, Carroll County, on U. S. Highway 27, 1 mile above Central of Georgia Railroad and 3¼ miles above Buck Creek.

Drainage area.- 89 square miles.

Records available.- March to September 1937.

Extremes.- Maximum discharge observed during period, 2,680 second-feet Apr. 30 (gage height, 12.00 feet); minimum, 18 second-feet Sept. 24; minimum gage height, 2.74 feet July 30, Aug. 6.
Maximum stage known, 18.15 feet about Feb. 1, 1936, from floodmarks (discharge not determined).

Remarks.- Records good between 30 and 500 second-feet and fair above and below these limits. Gage read twice daily.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	115	865	178	63	26	122
2						-	108	375	87	47	44	122
3						-	108	255	94	38	40	108
4						-	108	215	108	34	34	63
5						-	255	346	108	66	26	52
6						-	552	408	81	87	24	69
7						-	464	321	75	81	169	52
8						-	660	197	72	87	255	40
9						-	1,580	145	75	81	94	72
10						-	602	129	63	129	145	54
11						-	265	115	57	75	298	42
12						-	196	108	54	47	245	36
13						-	169	101	52	38	205	30
14						-	153	101	81	34	87	27
15						-	145	101	94	32	50	26
16						-	137	129	101	30	36	24
17						-	129	87	196	27	32	26
18						-	122	81	108	28	28	28
19						-	115	75	235	32	27	26
20						-	108	81	137	38	26	24
21						-	108	81	153	40	26	22
22						-	115	1,080	81	32	108	21
23						187	115	720	54	30	75	21
24						178	153	235	47	28	34	19
25						169	187	122	44	27	87	20
26						153	196	101	40	28	287	19
27						137	137	94	40	26	1,340	21
28						129	108	94	38	24	484	21
29						122	346	81	50	22	235	22
30						115	2,110	72	63	22	225	21
31						115	-	187	-	22	276	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 25-31	1,305	187	115	145	1.63	0.55
April	9,666	2,110	108	322	3.62	4.04
May	7,092	1,080	72	229	2.57	2.96
June	2,666	235	38	88.9	1.00	1.12
July	1,395	129	22	45.0	.506	.58
August	5,068	1,340	24	163	1.83	2.11
September	1,250	122	19	41.7	.469	.52
Water year						

Cahaba River at Centerville, Ala.

Location.- Wire-weight gage, lat. 32°56', long. 87°08', in T. 23 N., R. 9 E., at bridge on State Highway 6, a quarter of a mile west of Centerville.

Drainage area.- 1,050 square miles.

Records available.- August 1901 to February 1908, May 1929 to March 1932, May 1935 to September 1937.

Extremes.- Maximum discharge during year, 27,300 second-feet Mar. 20 (gage height, 28.8 feet); minimum observed, 167 second-feet Oct. 28 (gage height, 1.74 feet).
1901-8, 1929-32, 1935-37: Maximum discharge, 76,200 second-feet Feb. 4, 1936 (gage height, 35.8 feet, from floodmarks); minimum, 90 second-feet Oct. 24-29, 1904 (gage height, -0.35 foot, present datum).
Maximum stage known, 36.2 feet, present datum, from floodmarks, July 8, 1916 (discharge, 74,200 second-feet).

Remarks.- Records good. Gage read twice daily, oftener during periods of rapidly changing stage; gage-height graphs drawn for these periods.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.7	156	4.8	1,140	13.5	4,840	21.0	9,940
1.9	201	6.0	1,680	15.0	5,520	22.0	11,400
2.5	349	7.0	2,180	16.5	6,260	23.0	13,100
2.9	456	8.0	2,640	18.0	7,080	24.0	14,900
3.2	546	9.0	3,040	19.0	7,740	25.0	16,900
3.5	645	10.5	3,580	19.5	8,170	26.0	19,000
4.0	820	11.5	3,980	20.0	8,690	26.7	20,700

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	225	189	225	8,690	4,110	2,460	1,460	11,100	611	428	286	626
2	225	178	213	14,400	3,220	2,030	1,320	7,200	2,160	349	286	2,130
3	213	178	349	19,900	2,760	1,780	1,280	8,170	750	349	324	1,140
4	201	189	375	17,300	2,500	1,680	1,280	7,260	680	375	274	1,020
5	201	178	324	11,400	2,180	1,550	3,030	6,580	611	940	286	750
6	201	178	341	9,800	1,930	1,460	4,320	8,170	611	860	456	680
7	201	189	2,230	6,470	1,780	1,460	2,640	6,120	578	578	349	680
8	299	189	1,370	4,580	1,680	1,780	3,090	3,940	546	485	311	645
9	578	178	750	3,470	5,080	1,500	3,660	2,920	546	401	274	940
10	324	178	515	2,880	7,450	1,320	2,550	2,500	515	401	261	2,030
11	225	178	578	2,590	4,930	1,190	2,030	1,880	485	375	274	940
12	201	201	578	2,220	3,260	1,140	1,680	1,550	456	349	261	645
13	201	213	515	2,080	2,680	1,100	1,550	1,280	456	349	261	515
14	189	213	456	1,930	2,410	2,020	1,410	1,140	428	485	401	456
15	201	201	485	3,440	2,130	3,220	1,320	1,060	428	428	428	375
16	225	178	1,590	5,520	1,830	2,640	1,230	980	546	349	515	349
17	213	178	1,640	5,960	1,590	2,080	1,100	900	428	324	375	324
18	201	189	1,410	8,040	1,460	2,180	1,020	860	485	375	324	311
19	189	189	2,080	14,900	1,410	3,180	980	820	456	485	274	299
20	178	189	2,030	18,600	3,280	20,600	940	785	428	611	261	274
21	189	178	1,190	11,100	6,600	11,800	980	750	401	715	286	286
22	189	178	860	6,750	6,310	6,240	980	715	375	645	249	274
23	201	178	715	4,710	4,190	4,150	940	900	375	456	261	261
24	201	201	611	3,940	3,180	3,660	5,210	1,100	349	401	286	249
25	189	213	515	14,300	2,760	3,820	5,020	1,060	324	375	375	237
26	189	225	515	13,800	2,220	2,800	2,550	940	324	456	750	237
27	189	201	485	7,950	1,980	2,320	1,640	750	349	375	680	225
28	167	189	1,940	5,020	2,720	2,030	1,320	611	375	324	485	213
29	189	189	2,270	3,820	-	1,830	1,230	546	349	299	456	213
30	189	189	1,980	3,180	-	1,680	4,680	546	324	286	349	201
31	189	-	8,780	3,330	-	1,590	-	546	-	274	311	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	6,772	578	167	218	0.208	0.24
November	5,694	225	178	190	.181	.20
December	37,915	8,780	213	1,223	1.16	1.34
Calendar year 1936	691,049	67,500	167	1,888	1.80	24.48
January	242,070	19,900	1,930	7,809	7.44	8.58
February	87,630	7,450	1,410	3,130	2.98	3.10
March	98,090	20,600	1,100	3,164	3.01	3.47
April	62,440	5,210	940	2,081	1.98	2.21
May	83,679	11,100	546	2,699	2.57	2.96
June	15,749	2,160	324	525	.500	.56
July	13,902	940	274	448	.427	.49
August	10,969	750	261	354	.337	.39
September	17,525	2,130	201	584	.556	.62
Water year 1936-37	682,435	20,600	167	1,870	1.78	24.16

East Fork of Tombigbee River near Fulton, Miss.

Location.- Wire-weight gage, lat. 34°16', long. 88°27', in T. 9 S., R. 8 E., at bridge on U. S. Highway 78, 2 miles west of Fulton.

Drainage area.- 650 square miles.

Records available.- August 1928 to September 1937.

Extremes.- Maximum discharge observed during year, 14,400 second-feet Jan. 3 (gage height, 17.29 feet); minimum observed, 35 second-feet Oct. 5-7 (gage height, 1.60 feet).

1928-37: Maximum discharge observed, 19,600 second-feet Sept. 28, 1932 (gage height, 18.52 feet); minimum observed, 14 second-feet Aug. 12, 1930 (gage height, 0.87 foot).

Remarks.- Records fair. Gage read twice daily; gage-height graphs drawn for periods of rapidly changing stage. Discharges between 200 and 3,800 second-feet, when stage-discharge relation is affected by rate of change of stage, computed by using this rate as a factor.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	145	138	1,570	1,250	992	632	4,450	111	75	60	93
2	40	124	145	2,380	1,150	923	552	6,420	111	66	57	343
3	40	178	202	11,400	1,070	860	490	4,850	105	63	51	620
4	37	788	260	9,600	957	788	522	4,150	105	81	51	510
5	35	1,010	270	4,600	845	702	920	4,370	105	93	51	435
6	35	1,050	396	2,800	749	650	1,150	6,700	105	99	45	490
7	40	875	1,240	2,430	680	623	1,340	4,370	105	99	45	552
8	518	580	2,610	2,650	788	725	1,400	2,650	111	131	45	429
9	542	438	5,350	2,330	1,050	737	1,120	2,000	160	105	42	292
10	457	369	3,000	2,170	1,280	725	920	1,310	145	117	51	211
11	358	292	2,330	2,110	1,430	691	706	990	220	152	311	360
12	202	240	1,950	2,050	1,570	641	572	700	193	111	468	325
13	124	202	1,570	2,170	1,430	581	522	816	131	93	472	184
14	87	176	1,220	2,650	1,250	552	457	845	111	75	219	131
15	75	160	992	2,800	1,070	572	413	775	105	69	138	111
16	81	152	788	3,500	940	599	391	702	160	63	105	99
17	284	138	580	4,150	816	562	347	615	193	57	93	99
18	314	131	532	3,920	725	660	325	512	145	149	93	131
19	152	131	632	5,350	650	788	292	413	117	466	81	105
20	99	138	660	6,700	650	875	270	336	111	532	66	87
21	81	131	623	6,420	725	875	260	270	99	412	66	81
22	75	131	572	5,870	725	816	250	230	87	211	63	75
23	72	131	490	4,600	680	737	250	211	81	124	69	69
24	72	131	424	5,870	832	1,050	308	260	81	131	87	69
25	69	145	380	6,420	907	1,460	562	211	72	111	105	66
26	188	160	347	4,850	830	1,850	562	184	69	111	124	63
27	690	145	336	3,300	788	1,850	490	168	63	145	131	63
28	713	131	640	2,430	923	1,610	380	168	63	131	99	66
29	503	124	1,150	1,950	-	1,110	523	145	60	93	81	60
30	325	124	1,430	1,570	-	838	1,360	131	63	75	75	60
31	193	-	1,490	1,340	-	678	-	124	-	69	72	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	6,541	713	35	211	0.325	0.37
November	8,670	1,050	124	289	.445	.50
December	32,747	5,350	138	1,056	1.62	1.87
Calendar year 1936	253,913	12,600	29	694	1.07	14.52
January	121,950	11,400	1,340	3,934	6.05	6.98
February	26,760	1,570	650	956	1.47	1.53
March	27,120	1,850	552	875	1.35	1.56
April	18,286	1,400	250	610	.938	1.05
May	50,076	6,700	124	1,615	2.48	2.86
June	3,387	220	60	113	.174	.19
July	4,309	532	57	139	.214	.25
August	3,516	472	42	113	.174	.20
September	6,279	620	60	209	.322	.36
Water year 1936-37	309,641	11,400	35	848	1.30	17.72

Tombigbee River at Aberdeen, Miss.

Location.- Wire-weight gage, lat. 33°49', long. 88°32', in T. 14 S., R. 19 W., at bridge on U. S. Highway 45, 1 mile downstream from St. Louis-San Francisco Railroad bridge and 1½ miles south of Aberdeen.

Drainage area.- 2,210 square miles.

Records available.- August 1928 to September 1937.

Extremes.- Maximum discharge during year, 20,900 second-feet Jan. 25 (gage height, 34.6 feet, from graph based on gage readings); minimum observed, 111 second-feet Oct. 5, 6; minimum gage height observed, 1.53 feet Oct. 6.

1928-37: Maximum discharge, 33,100 second-feet Dec. 16, 1931 (gage height, 39.61 feet, former site); minimum observed, 61 second-feet Aug. 8, 1930; minimum gage height observed, 1.15 feet, present site, Sept. 27, 1931.

Maximum stage known, 44.8 feet, former site, Apr. 20, 1892 (discharge not determined).

Remarks.- Records fair. Gage read twice daily; gage-height graphs drawn for periods of rapidly changing stage.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

1.5	103	3.7	521	8.5	1,920	22.0	7,830
1.9	167	4.1	619	10.0	2,410	26.0	10,520
2.2	218	4.8	805	12.0	3,110	30.0	13,700
2.8	329	5.8	1,090	14.0	3,890	32.0	16,000
3.3	431	7.5	1,600	18.0	5,690	34.5	20,700

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	143	453	329	3,810	8,640	4,620	2,610	10,500	431	201	254	254
2	135	369	349	5,160	6,710	3,220	2,280	11,300	431	184	236	349
3	127	349	389	7,310	4,530	2,710	1,980	11,700	410	184	209	983
4	119	1,170	475	9,390	3,340	2,440	1,640	11,200	410	192	192	1,210
5	111	1,270	521	10,200	2,850	2,340	2,780	11,600	389	201	192	1,360
6	111	1,210	689	9,950	2,540	2,180	4,970	11,900	329	272	192	1,240
7	158	1,330	3,340	10,700	2,340	1,980	3,810	11,800	410	291	201	945
8	1,120	1,210	4,700	11,400	2,610	2,510	3,000	11,100	410	594	192	1,030
9	743	1,090	2,890	11,200	7,220	2,540	2,680	10,400	545	453	175	945
10	569	917	2,080	9,740	9,110	2,150	2,440	9,530	619	475	159	889
11	619	697	1,860	8,840	8,450	1,980	2,310	8,080	619	389	364	861
12	521	569	2,930	8,080	7,080	1,790	2,180	6,040	645	349	917	521
13	453	475	2,610	8,080	6,300	1,700	1,950	3,890	619	329	923	569
14	329	431	2,640	8,010	5,890	1,700	1,640	4,190	545	310	1,430	545
15	272	389	2,570	7,950	5,070	1,920	1,390	3,420	410	254	778	431
16	227	349	2,370	8,320	4,060	1,980	1,150	2,780	521	227	498	329
17	209	349	2,110	8,770	3,340	1,820	1,150	2,410	545	201	369	310
18	254	329	1,790	9,180	2,850	2,280	1,030	1,860	645	276	291	329
19	329	310	1,640	10,400	2,540	3,810	974	1,540	619	1,540	254	329
20	389	291	1,510	12,800	2,410	5,210	917	1,240	475	1,780	254	310
21	329	291	1,300	14,600	3,420	5,260	861	1,060	410	1,880	227	291
22	236	291	1,240	15,800	3,490	3,490	833	945	349	1,220	218	254
23	201	291	1,090	16,300	2,610	2,680	805	861	310	917	227	218
24	175	291	974	17,800	2,440	4,360	833	889	291	594	236	201
25	175	291	889	20,700	3,260	7,480	1,700	805	272	453	254	201
26	209	310	805	19,400	2,540	7,650	1,300	778	254	431	832	184
27	861	310	724	17,300	2,510	5,840	1,240	697	236	431	431	184
28	475	329	1,000	15,000	5,110	4,140	1,120	619	218	410	329	175
29	619	329	2,020	13,300	-	3,460	1,570	545	201	431	349	175
30	751	310	1,570	11,900	-	3,070	6,030	521	192	369	349	175
31	645	-	2,570	10,100	-	2,850	-	475	-	310	272	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	11,614	1,120	111	375	0.170	0.20
November	16,600	1,330	291	553	.250	.28
December	51,974	4,700	329	1,677	.759	.88
Calendar year 1936	763,489	21,100	111	2,086	.944	12.86
January	351,490	20,700	3,810	11,340	5.13	5.91
February	123,260	9,110	2,340	4,402	1.99	2.07
March	101,160	7,650	1,700	3,263	1.48	1.71
April	59,173	6,030	805	1,972	.892	1.00
May	154,675	11,900	475	4,990	2.26	2.61
June	12,760	645	192	425	.192	.21
July	16,148	1,880	184	521	.236	.27
August	11,804	1,430	159	381	.172	.20
September	15,797	1,360	175	527	.238	.27
Water year 1936-37	926,455	20,700	111	2,538	1.15	15.61

Tombigbee River at Columbus, Miss.

Location.- Water-stage recorder, lat. 33°29', long. 88°26', in T. 18 S., R. 18 W., in Columbus, a quarter of a mile above Mobile & Ohio Railroad bridge, a quarter of a mile below bridge on U. S. Highway 45, and 3 miles above Luxapalila Creek.

Drainage area.- 4,490 square miles.

Records available.- November 1934 to September 1937. January 1900 to December 1904, at site about 300 feet upstream. July 1905 to December 1912, at site a quarter of a mile upstream. August 1928 to November 1934, at site a quarter of a mile downstream.

Average discharge.- 20 years, 5,869 second-feet.

Extremes.- Maximum discharge during year, 33,900 second-feet Jan. 27 (gage height, 26.19 feet); minimum, 244 second-feet Oct. 8 (gage height, 0.65 foot).

1900-1912, 1928-37: Maximum gage height observed, 34.6 feet, present datum, Mar. 31, 1902 (discharge not determined); maximum discharge determined, 84,600 second-feet Mar. 25, 1929 (gage height, 33.6 feet, present datum); minimum discharge observed, 195 second-feet Oct. 9-12, 1911 (gage height, -0.1 foot, present datum).

Maximum stage known, 42.6 feet, present datum, Apr. 8, 1892 (discharge not determined).

Remarks.- Records fair. Discharge for periods of faulty recorder operation, Oct. 3, 4, Nov. 13, 14, Dec. 28-30, Jan. 1-3, 8-10, 12-18, Feb. 4-6, 8, 9, computed from graph based on once-daily gage readings.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

0.6	228	1.8	724	6.5	3,840	21.0	22,300
.8	291	2.3	977	7.1	4,530	22.0	23,900
1.0	361	3.1	1,400	12.0	10,700	23.5	26,900
1.2	440	4.6	2,260	17.0	17,000	24.3	28,800
1.4	530	5.7	3,080	20.0	20,900	26.1	33,700

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	315	774	549	5,160	17,000	10,400	4,660	16,900	977	403	749	926
2	298	626	578	7,970	13,700	10,600	3,950	23,700	926	395	602	1,030
3	291	502	675	11,300	10,300	9,690	3,440	29,100	951	391	516	1,460
4	275	471	749	13,700	7,300	7,170	3,000	29,600	1,060	395	462	3,000
5	272	1,290	900	14,200	5,660	5,280	3,750	30,200	1,110	407	428	3,950
6	253	1,290	1,080	14,800	4,910	4,530	7,840	29,600	951	432	440	3,740
7	250	1,510	2,010	14,700	4,170	4,060	9,560	26,600	1,060	799	525	3,080
8	250	1,510	5,220	14,400	4,170	3,840	8,680	22,600	1,290	1,160	602	2,200
9	1,020	1,370	5,910	14,200	11,100	4,780	6,790	18,800	1,290	1,560	602	2,020
10	774	1,210	4,170	14,100	15,700	4,290	5,530	15,900	1,510	1,350	466	1,900
11	699	1,060	3,080	12,700	16,900	3,640	4,660	13,300	1,370	1,060	475	1,840
12	724	875	3,000	12,000	17,500	3,170	3,950	10,800	1,210	849	1,000	2,020
13	675	774	3,260	13,200	17,900	2,920	3,440	7,800	1,210	699	1,510	1,780
14	578	675	3,000	13,300	15,600	2,840	3,000	5,780	1,110	626	1,780	1,510
15	471	602	2,920	14,500	13,000	3,350	2,610	5,660	977	564	1,620	1,240
16	391	573	2,680	14,700	10,700	3,950	2,330	4,780	926	502	1,130	977
17	343	535	2,470	15,700	8,560	4,060	2,140	3,950	1,000	458	849	824
18	325	502	2,200	16,700	7,040	4,560	2,020	3,080	1,060	444	699	749
19	388	475	1,900	18,300	5,910	7,420	1,900	2,540	1,080	1,040	626	849
20	480	462	1,900	21,500	5,030	11,700	1,780	2,200	1,000	2,260	530	849
21	544	453	1,840	24,100	6,670	13,000	1,680	1,900	875	2,680	484	749
22	440	449	1,730	25,800	8,560	12,200	1,560	1,730	749	2,200	436	650
23	369	458	1,620	27,100	8,680	10,200	1,560	1,620	675	1,680	415	568
24	325	480	1,460	28,800	7,420	9,440	3,280	1,560	650	1,240	462	516
25	308	480	1,320	31,000	6,290	12,600	4,290	1,620	578	951	564	466
26	308	489	1,210	32,800	6,160	14,100	3,740	1,620	540	849	749	440
27	315	507	1,130	33,700	5,160	15,000	3,170	1,560	493	1,840	1,560	444
28	826	540	1,110	32,600	8,300	13,000	2,610	1,400	466	2,330	1,510	436
29	650	540	1,960	29,400	-	8,810	3,190	1,290	449	2,330	1,160	424
30	824	540	1,900	24,800	-	6,410	7,650	1,160	420	1,620	1,000	399
31	875	-	2,610	20,600	-	5,280	-	1,080	-	1,130	1,030	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	14,856	1,020	250	479	0.107	0.12
November	22,022	1,510	449	734	.163	.18
December	66,141	5,910	549	2,134	.475	.55
Calendar year 1936	1,399,984	36,000	250	3,825	.852	11.60
January	586,830	33,700	5,160	18,930	4.22	4.86
February	269,390	17,900	4,170	9,621	2.14	2.23
March	232,290	15,000	2,840	7,493	1.67	1.92
April	117,760	9,560	1,560	3,925	.874	.98
May	319,410	30,200	1,060	10,300	2.29	2.64
June	27,963	1,510	420	932	.208	.23
July	34,644	2,680	391	1,118	.249	.29
August	24,981	1,780	415	806	.180	.21
September	41,036	3,950	399	1,368	.305	.34
Water year 1936-37	1,757,323	33,700	250	4,815	1.07	14.55

Tombigbee River near Coatopa, Ala.

Location.- Wire-weight gage, lat. 32°26', long. 88°02', in T. 17 N., R. 1 E., at Moscow Memorial Bridge, on U. S. Highway 80, 2 miles above Sucarnoochee River and 5 miles southeast of Coatopa.

Drainage area.- 15,500 square miles.

Records available.- August 1928 to September 1937.

Extremes.- Maximum discharge observed during year, 113,000 second-feet Feb. 1 (gage height, 46.44 feet); minimum observed, 1,100 second-feet Oct. 7, 8 (gage height, 2.65 feet).

1928-37: Maximum discharge observed, 179,000 second-feet Mar. 29, 1929 (gage height, 51.4 feet); minimum discharge, 371 second-feet Oct. 1, 1931; minimum gage height observed, 2.19 feet Oct. 10, 1935.

Remarks.- Records good except those below 1,500 second-feet and those above 30,000 second-feet, which are fair. Gage read twice daily, oftener during periods of rapidly changing stage; gage-height graphs drawn for these periods.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.6	1,050	7.0	11,100	30.0	53,900
2.8	1,260	9.0	16,300	35.0	65,900
3.0	1,510	10.0	18,200	40.0	79,600
3.2	1,830	15.0	27,100	44.0	94,400
3.6	2,640	20.0	35,600	46.4	113,000
5.0	5,920	25.0	44,300		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,380	1,660	2,120	24,500	113,000	34,000	25,700	23,900	4,700	2,020	3,760	4,700
2	1,440	1,660	2,320	35,900	111,000	33,500	20,400	36,800	4,700	2,120	2,860	8,460
3	1,320	1,830	2,860	50,400	108,000	33,400	16,300	50,200	5,180	2,020	2,220	15,400
4	1,260	1,920	3,300	59,800	103,000	31,700	15,600	58,400	5,420	1,830	1,920	19,700
5	1,200	1,740	3,300	68,000	96,500	30,400	19,700	65,600	5,420	1,830	1,660	18,600
6	1,150	1,580	3,300	75,600	89,400	26,800	25,700	71,200	4,940	2,320	1,660	17,700
7	1,100	1,660	4,940	80,200	80,200	23,300	28,700	75,000	5,420	2,530	1,740	17,500
8	1,150	2,020	8,200	82,000	68,800	24,000	31,000	78,100	5,920	2,860	1,830	18,100
9	1,200	2,430	11,100	82,600	60,800	23,000	33,400	80,800	5,920	3,990	1,920	16,000
10	1,260	2,530	15,600	83,000	60,500	19,900	31,500	83,300	7,420	4,460	1,830	13,900
11	1,200	2,640	15,600	82,000	61,300	18,200	26,800	84,600	6,920	4,460	2,020	13,900
12	1,440	2,530	13,400	80,200	61,800	17,300	22,100	85,600	5,920	3,990	2,220	13,100
13	1,660	2,430	10,800	77,000	63,000	15,400	18,100	85,200	5,420	3,300	2,020	10,800
14	1,580	2,120	8,980	71,700	63,500	14,700	15,400	83,300	4,700	2,640	2,430	8,980
15	1,580	1,920	8,720	66,400	62,800	19,300	13,400	77,000	3,990	2,120	3,530	6,420
16	1,510	1,830	7,680	65,300	59,500	23,000	12,200	66,100	3,760	2,020	4,460	5,920
17	1,380	1,580	7,170	65,100	53,900	21,400	11,100	53,300	4,220	1,920	5,180	4,700
18	1,380	1,660	7,170	66,400	46,300	19,900	10,300	40,400	3,760	1,740	4,220	3,990
19	1,380	1,660	7,420	72,800	38,000	20,300	9,800	30,000	3,760	1,740	2,860	3,530
20	1,510	1,580	7,680	79,900	35,200	34,500	8,720	18,600	4,460	2,120	2,430	3,080
21	1,660	1,660	7,420	84,600	40,900	47,400	7,940	11,100	4,700	3,080	2,320	2,860
22	1,740	1,510	7,420	87,400	46,600	52,200	7,170	8,980	3,990	4,940	2,220	2,860
23	1,660	1,580	7,170	89,900	47,600	54,800	7,170	8,200	3,530	6,420	2,220	2,530
24	1,580	1,580	6,670	91,600	47,400	55,700	9,580	7,940	3,080	6,420	2,020	2,320
25	1,580	1,580	6,170	95,900	46,300	55,700	22,100	7,940	2,430	5,420	1,740	2,120
26	1,440	1,660	5,420	104,000	43,000	52,700	29,000	7,420	2,530	4,700	1,920	2,020
27	1,440	1,660	4,940	107,000	38,000	47,700	31,000	6,920	2,220	3,990	2,640	1,740
28	1,380	1,740	5,920	108,000	34,700	46,300	29,000	6,670	2,220	3,530	3,990	1,740
29	1,260	1,740	6,170	108,000	-	41,800	23,300	6,170	2,220	3,300	4,940	1,580
30	1,200	1,920	7,420	109,000	-	37,400	17,900	5,420	2,020	4,460	5,920	1,580
31	1,380	-	15,800	110,000	-	32,200	-	5,180	-	4,700	5,420	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	43,400	1,740	1,100	1,400	0.090	0.10
November	55,610	2,640	1,510	1,854	.120	.13
December	232,180	15,800	2,120	7,490	.483	.56
Calendar year 1936	7,306,510	145,000	1,100	19,960	1.29	17.53
January	2,464,200	110,000	24,500	79,490	5.13	5.91
February	1,781,000	113,000	34,700	63,610	4.10	4.27
March	1,007,900	55,700	14,700	32,510	2.10	2.42
April	580,080	33,400	7,170	19,340	1.25	1.40
May	1,329,340	85,600	5,180	42,880	2.77	3.19
June	130,890	7,420	2,020	4,363	.281	.31
July	102,990	6,420	1,740	3,322	.214	.25
August	88,120	5,920	1,660	2,843	.183	.21
September	245,830	19,700	1,580	8,194	.529	.59
Water year 1936-37	8,061,540	113,000	1,100	22,090	1.43	19.34

Tombigbee River near Leroy, Ala.

Location.- Staff gage above spillway of navigation dam at Lock 1, lat. 31°34', long. 88°01', in T. 7 N., on St. Stephens meridian, 5 miles northwest of Leroy. Zero of gage is 4.69 feet below mean sea level (Corps of Engineers, U. S. Army, benchmark).

Drainage area.- 19,100 square miles.

Records available.- October 1928 to September 1937.

Extremes.- Maximum discharge during year, 117,000 second-feet Feb. 4-6 (gage height, 40.5 feet); minimum, 1,600 second-feet Oct. 7-9; minimum gage height observed, 18.5 feet July 1.
1928-37: Maximum discharge, 190,000 second-feet Apr. 2, 1929 (gage height, 46.0 feet); minimum not determined.

Remarks.- Records fair. Gage read twice daily. Navigation dam at Lock 1 is control only below 14,000 second-feet.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Dec. 11, July 1 to Sept. 30)

18.5	2,900	21.8	18,700	31.5	48,400
18.8	3,800	22.6	22,700	32.0	50,400
19.1	4,790	23.5	26,600	33.0	55,200
19.5	6,250	24.5	30,200	34.0	61,000
19.8	7,510	26.0	34,400	35.0	67,500
20.1	8,950	28.2	39,900	37.0	82,000
20.4	10,570	29.2	41,900	38.0	90,500
20.8	12,900	30.2	44,300	39.0	100,000
21.4	16,500	31.0	46,700	40.5	116,700

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,220	1,720	2,760	33,400	110,000	50,000	46,400	32,800	6,250	2,900	5,870	7,070
2	2,220	1,720	3,190	36,900	113,000	47,400	42,400	36,900	6,250	3,190	5,140	7,070
3	2,090	2,090	3,800	42,400	116,000	45,200	38,200	42,400	6,250	3,340	4,120	12,900
4	1,960	3,040	4,280	47,700	117,000	43,800	34,200	47,400	6,250	3,640	3,490	20,200
5	1,720	3,040	4,450	53,700	117,000	42,400	33,100	52,200	6,650	3,800	3,040	23,100
6	1,720	2,900	4,790	62,300	116,000	41,100	37,200	58,000	7,070	4,790	2,760	23,600
7	1,720	2,760	5,870	68,200	113,000	39,900	39,400	63,600	7,510	6,250	2,760	23,100
8	1,600	2,760	6,650	73,100	110,000	39,900	40,700	66,900	7,070	6,250	2,760	22,200
9	1,720	3,040	9,470	76,800	108,000	38,900	42,400	70,300	7,970	6,250	2,760	21,700
10	1,720	3,340	12,300	79,000	103,000	35,900	43,300	73,800	7,510	5,870	2,900	21,200
11	1,720	3,640	18,700	81,300	96,000	32,300	42,400	76,000	8,450	5,500	3,040	19,700
12	1,720	3,800	22,700	82,800	89,400	28,500	40,300	78,300	8,450	5,500	3,040	18,100
13	2,090	3,340	20,200	83,600	84,400	24,500	36,700	80,500	7,510	5,140	3,340	15,900
14	2,220	3,040	17,600	84,400	79,800	21,700	32,800	82,800	6,650	4,790	3,640	13,500
15	2,220	3,040	15,300	84,400	76,800	20,200	28,500	83,600	5,870	3,960	4,120	11,100
16	2,220	2,760	14,700	82,800	73,800	23,600	24,500	84,400	5,500	3,640	5,140	9,470
17	2,220	2,480	14,100	81,300	71,700	26,200	20,200	84,400	5,870	3,340	5,870	7,970
18	2,220	2,480	13,500	79,800	69,600	26,600	17,600	80,500	6,650	3,340	6,250	6,650
19	2,090	2,220	15,300	78,300	64,300	25,800	14,700	72,400	6,250	3,490	5,500	5,500
20	1,960	2,220	15,900	79,000	56,900	33,900	12,900	56,900	5,870	4,120	4,450	5,140
21	2,220	2,090	15,300	79,800	53,700	41,500	12,300	43,800	5,870	4,790	3,800	4,450
22	2,220	1,960	14,100	82,800	55,200	46,400	11,100	36,400	5,500	5,140	3,640	4,280
23	2,350	1,960	12,900	84,400	56,300	50,900	10,600	27,700	5,140	6,250	3,640	4,120
24	2,350	2,220	11,700	85,200	56,300	55,200	14,700	17,000	4,790	7,510	3,640	3,800
25	2,220	2,220	10,600	88,600	55,800	61,000	22,200	11,700	4,280	7,970	3,640	3,640
26	2,220	2,480	10,600	92,300	55,200	64,300	29,200	10,000	3,640	6,650	3,640	3,640
27	2,220	2,480	9,470	95,000	53,200	64,900	33,100	9,470	3,340	6,250	4,120	3,490
28	1,960	2,220	12,900	98,000	51,300	63,600	34,700	8,950	3,340	5,500	4,790	3,190
29	1,960	2,480	16,500	102,000	-	59,800	34,400	8,450	3,340	4,790	5,870	3,040
30	1,720	2,480	16,500	104,000	-	55,800	32,000	7,510	3,040	4,790	6,250	3,040
31	1,720	-	24,000	107,000	-	51,300	-	6,650	-	5,500	7,510	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	62,530	2,350	1,600	2,017	0.106	0.12
November	78,020	3,800	1,720	2,601	.136	.15
December	380,130	24,000	2,760	12,260	.642	.74
Calendar year 1936	8,752,650	134,000	1,600	23,910	1.25	17.05
January	2,410,300	107,000	33,400	77,750	4.07	4.69
February	2,322,700	117,000	51,300	82,950	4.34	4.52
March	1,302,500	64,900	20,200	42,020	2.20	2.54
April	902,200	46,400	10,600	30,070	1.57	1.75
May	1,511,730	84,400	6,650	48,770	2.55	2.94
June	178,130	8,450	3,040	5,938	.311	.35
July	154,240	7,970	2,900	4,975	.260	.30
August	130,530	7,510	2,760	4,211	.220	.25
September	331,860	23,600	3,040	11,060	.579	.65
Water year 1936-37	9,764,870	117,000	1,600	26,750	1.40	19.00

Mulberry Fork of Black Warrior River near Garden City, Ala.

Location.- Wire-weight gage, lat. 34°00', long. 86°45', in T. 12 S., R. 2 W., at bridge on U. S. Highway 31, 1,000 feet below Louisville & Nashville Railroad bridge and 1 mile southwest of Garden City.

Drainage area.- 365 square miles.

Records available.- June 1928 to September 1937.

Extremes.- Maximum discharge during year, 25,500 second-feet Apr. 29 (gage height, 16.8 feet, from graph based on gage readings); minimum, 6 second-feet Oct. 12-15, Sept. 30; minimum gage height, 2.00 feet Oct. 13-15.
1928-37: Maximum discharge, 46,600 second-feet Feb. 4, 1936 (gage height, 24.0 feet, from floodmarks); minimum observed, 3 second-feet Sept. 28-30, Oct. 1, 3-6, 1931 (gage height, 1.88 feet).

Remarks.- Records fair. Gage read twice daily, oftener during periods of rapidly changing stage; gage-height graphs drawn for periods of rapidly changing stage.

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.01	6.0	2.9	127	6.8	2,850
2.03	7.0	3.2	210	7.2	3,350
2.09	10.6	3.7	361	7.6	3,930
2.20	18.3	4.0	516	8.3	5,090
2.31	27.6	4.5	822	9.1	6,570
2.40	37.0	5.0	1,170	10.0	8,420
2.6	66	6.1	2,120	11.7	12,260

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	9	9	1,030	1,410	856	401	3,000	166	14	16	44
2	9	9	10	11,300	1,100	756	362	3,550	140	13	14	62
3	8	9	19	6,900	1,030	692	326	3,630	106	13	12	1,280
4	7	10	22	2,220	890	630	309	2,630	94	13	16	582
5	7	9	18	1,940	789	571	848	4,400	71	13	78	180
6	7	8	65	1,850	692	516	724	2,220	64	13	55	226
7	7	11	844	1,490	661	466	443	1,670	60	18	24	113
8	8	13	226	1,330	842	630	401	1,250	125	13	16	242
9	8	11	116	1,170	7,840	443	381	960	86	12	16	365
10	7	9	75	960	2,230	381	326	789	61	12	71	177
11	7	9	82	1,250	1,490	362	292	661	58	14	1,110	109
12	6	11	63	1,250	1,250	326	258	543	49	12	148	73
13	6	10	52	1,760	1,100	326	258	836	53	11	74	63
14	6	10	45	1,800	1,030	381	242	916	44	11	175	45
15	6	9	41	7,730	822	401	242	466	91	9	53	33
16	186	7	60	3,080	692	326	226	381	269	9	31	30
17	122	7	58	3,220	571	292	201	326	406	9	23	26
18	45	7	66	7,190	516	466	183	292	192	233	20	22
19	31	7	201	4,430	466	600	172	258	102	2,010	16	20
20	21	8	166	4,090	602	1,350	160	226	61	885	14	18
21	16	7	150	2,740	3,220	960	158	204	88	172	11	16
22	13	8	120	2,030	1,170	789	210	183	64	94	21	16
23	11	8	90	1,850	960	692	183	189	46	66	227	13
24	10	8	75	2,170	856	1,480	1,040	160	36	55	137	11
25	9	9	66	11,500	724	1,250	746	152	31	46	576	11
26	18	8	63	3,450	571	890	401	130	26	41	582	10
27	53	8	61	2,220	571	756	309	207	21	37	294	8
28	25	7	58	1,760	1,250	661	292	142	19	23	134	8
29	14	7	52	1,410	-	543	12,200	116	19	22	302	7
30	11	7	55	1,170	-	491	7,690	125	16	20	111	6
31	10	-	1,970	1,670	-	443	-	109	-	17	61	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	704	186	6	22.7	0.062	0.07
November	260	13	7	8.7	.024	.03
December	4,998	1,970	9	161	.441	.51
Calendar year 1936	272,453	27,300	6	744	2.04	27.76
January	97,960	11,500	980	3,160	8.66	9.98
February	35,345	7,840	466	1,262	3.46	3.60
March	19,726	1,480	292	636	1.74	2.01
April	29,984	12,200	158	999	2.74	3.06
May	30,721	4,400	109	991	2.72	3.14
June	2,664	406	16	88.8	.243	.27
July	3,930	2,010	9	127	.348	.40
August	4,438	1,110	11	143	.392	.45
September	3,816	1,280	6	127	.348	.39
Water year 1936-37	234,546	12,200	6	643	1.76	23.91

Black Warrior River at Tuscaloosa, Ala.

Location.- Staff gage, lat. 33°12'55", long. 87°33'56", in T. 21 S., R. 10 W., above spillway of navigation dam at Lock 10, in Tuscaloosa. Zero of gage is 82.97 feet above mean sea level (Corps of Engineers, U. S. Army, benchmark).

Drainage area.- 4,830 square miles.

Records available.- August 1928 to September 1937. January 1889 to December 1905, at site a quarter of a mile downstream (prior to 1894 gage heights only).

Average discharge.- 17 years (1894-1902, 1928-37), 7,990 second-feet.

Extremes.- Maximum discharge during year, 107,000 second-feet Jan. 3; maximum gage height, 58.7 feet Jan. 3; minimum discharge observed, 214 second-feet Aug. 5 (gage height, 18.50 feet).
1889-1905, 1928-37: Maximum discharge, 215,000 second-feet Apr. 18, 1900 (gage height, 67.7 feet); minimum, 50 second-feet (estimated) Aug. 26, 1929.
Maximum stage known, that of Apr. 18, 1900.

Remarks.- Records fair. Discharge above 9,100 second-feet determined by using rate of change in stage as a factor. Gage read twice daily; gage-height graphs drawn for periods of rapidly changing stage. Navigation dam at Lock 10 is control below 9,100 second-feet except when return of overbank storage, following floods with discharge in excess of 55,000 second-feet, creates backwater.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	368	470	611	25,400	11,500	11,700	5,550	78,600	1,550	919	388	2,790
2	281	450	539	70,200	10,400	11,400	5,220	67,200	2,410	598	439	10,200
3	316	439	996	103,000	8,900	10,200	4,590	59,800	2,070	359	439	8,420
4	274	574	843	84,300	7,700	8,770	4,290	49,500	1,850	562	493	7,700
5	290	550	800	63,100	7,300	7,700	5,890	49,200	1,750	888	261	6,960
6	316	504	1,030	42,300	7,100	6,960	10,300	51,200	1,550	1,130	743	10,300
7	316	493	5,550	28,000	6,600	6,240	11,000	35,200	1,450	1,550	611	8,460
8	550	528	8,770	19,700	6,600	6,240	9,470	23,000	1,960	1,450	676	5,890
9	450	493	6,240	14,800	24,900	5,890	8,060	16,000	1,550	1,450	857	6,240
10	595	516	4,000	12,000	42,000	5,550	6,960	12,300	1,270	1,110	950	6,960
11	450	493	3,030	10,200	35,400	4,900	5,890	10,000	814	934	904	5,550
12	378	562	2,650	9,000	23,600	4,590	4,900	8,250	1,270	637	1,160	4,000
13	351	516	2,180	9,590	18,200	4,000	4,590	7,200	743	562	1,750	2,770
14	342	409	1,750	16,100	14,700	4,900	4,000	6,700	637	516	1,960	1,960
15	324	399	1,360	33,000	12,000	5,550	3,710	6,200	1,360	482	1,750	1,360
16	399	368	1,180	41,600	9,990	5,220	3,570	5,890	1,270	351	1,850	1,180
17	550	351	2,410	37,900	6,960	4,900	3,430	4,900	919	298	1,450	1,150
18	1,270	419	2,410	42,700	6,960	6,240	3,160	4,000	1,010	574	1,110	1,180
19	1,110	528	3,030	57,600	6,240	11,100	2,900	3,070	1,650	934	919	934
20	950	450	3,710	59,300	6,420	34,200	2,650	2,410	1,450	1,180	1,160	934
21	800	450	3,570	47,800	15,700	28,100	1,850	2,650	1,360	2,180	1,050	814
22	598	419	3,030	37,000	23,400	19,600	2,070	2,770	1,270	3,030	814	650
23	702	409	2,530	25,900	16,800	16,000	2,290	3,030	966	2,770	388	676
24	550	460	2,180	24,400	13,500	13,200	8,450	3,030	888	1,750	470	562
25	504	493	1,850	68,000	11,200	15,500	13,700	2,770	729	1,650	814	528
26	429	460	1,750	66,700	8,900	14,500	12,400	2,410	689	2,410	2,410	504
27	368	409	1,550	54,200	7,330	12,200	9,860	1,960	743	1,180	3,710	409
28	359	493	1,650	36,800	9,470	9,930	7,700	1,750	333	1,030	4,000	307
29	504	493	1,650	23,000	-	8,060	10,800	1,550	829	772	3,570	248
30	450	504	1,650	16,100	-	6,960	57,600	1,450	1,030	504	2,530	261
31	504	-	15,200	12,700	-	6,240	-	1,360	-	482	2,070	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	15,651	1,270	274	505	0.105	0.12
November	14,102	574	351	470	.097	.11
December	89,699	15,200	539	2,894	.599	.69
Calendar year 1936	2,744,225	140,000	138	7,498	1.55	21.13
January	1,192,390	103,000	9,000	38,460	7.96	9.18
February	379,770	42,000	6,240	13,560	2.81	2.93
March	316,540	34,200	4,000	10,210	2.11	2.43
April	236,850	57,600	1,850	7,895	1.63	1.82
May	524,350	78,600	1,360	16,910	3.50	4.04
June	37,370	2,410	333	1,246	.258	.29
July	34,242	3,030	298	1,105	.229	.26
August	41,716	4,000	261	1,346	.279	.32
September	99,917	10,300	248	3,331	.690	.77
Water year 1936-37	2,982,597	103,000	248	8,171	1.69	22.96

Black Warrior River near Eutaw, Ala.

Location.- Water-stage recorder, lat. 32°49'05", long. 87°49'00", in SE¼ sec. 6, T. 21 N., R. 3 E., at bridge on State Highway 41 between Eutaw and Wedgworth, 1¼ miles below mouth of Big Creek and 4 miles southeast of Eutaw. Navigation dam at Lock 7, 3 miles downstream, is control for discharge below 5,500 second-feet.

Drainage area.- 5,820 square miles.

Records available.- May 1932 to September 1937.

Extremes.- Maximum discharge during year, 66,700 second-feet Jan. 6; maximum gage height, 51.8 feet Jan. 29; minimum, 439 second-feet Oct. 7 (gage height, 18.89 feet).
1932-37: Maximum discharge, 130,000 second-feet Feb. 7, 1936; maximum gage height, 56.3 feet Feb. 8, 1936; minimum discharge, 177 second-feet Oct. 9, 1935 (gage height, 18.44 feet).

Remarks.- Records good except those for periods when recorder was not operating, which are fair. Discharge above 5,500 second-feet determined by using surface slope as a factor.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	598	659	1,040	16,500	35,900	11,700	7,900	†29,000	1,970	1,120	638	2,780
2	569	638	1,140	28,400	29,900	13,200	6,930	†38,000	2,420	1,090	589	10,100
3	522	691	1,450	38,400	27,600	13,200	6,380	42,300	2,950	940	589	15,100
4	522	712	1,670	42,300	23,500	12,200	5,640	51,900	2,740	745	531	14,300
5	472	792	1,500	51,800	22,000	10,300	6,720	56,800	2,510	1,010	522	11,200
6	454	803	1,480	61,700	18,900	9,180	8,200	59,600	2,400	1,170	659	8,950
7	514	780	3,260	64,400	13,800	8,290	12,200	58,700	2,280	1,460	858	10,600
8	617	756	6,240	57,600	9,480	†7,500	13,300	56,500	2,230	1,840	792	8,870
9	669	712	7,390	49,400	11,400	†7,400	11,600	52,100	2,650	1,840	803	7,270
10	691	691	6,340	40,800	18,100	†7,000	9,810	44,600	2,230	1,710	927	8,180
11	768	701	5,240	33,800	30,400	†6,500	8,840	37,100	1,860	1,350	1,110	8,330
12	827	733	4,390	29,800	34,000	†6,100	7,120	29,100	1,600	1,200	1,120	6,560
13	608	756	3,670	27,400	32,800	†5,700	6,290	22,800	1,500	914	1,290	5,260
14	550	745	3,070	21,400	28,600	†6,600	5,910	18,300	1,240	858	1,970	3,670
15	531	659	2,600	21,700	26,000	7,670	5,250	13,200	1,340	780	2,030	2,690
16	506	627	2,150	27,300	16,800	7,840	5,000	9,950	1,550	*722	2,050	2,090
17	522	598	2,380	33,100	13,300	7,420	4,750	7,820	1,580	*680	1,880	1,820
18	659	560	2,970	36,800	10,700	7,220	4,510	6,730	1,420	*648	1,460	1,690
19	1,110	589	3,310	40,300	9,110	10,500	†4,400	5,120	1,570	*979	1,210	1,530
20	1,260	589	3,790	45,100	8,870	22,800	†3,900	3,790	1,780	*1,400	1,150	1,380
21	1,210	627	4,270	50,700	13,000	30,600	†3,400	3,670	1,740	*1,600	1,210	1,270
22	1,090	598	4,150	56,800	19,700	30,600	†3,300	3,670	1,640	*2,010	1,180	1,200
23	966	680	3,670	57,800	23,700	30,500	†3,400	3,910	1,430	*2,470	1,180	1,080
24	876	680	3,190	54,900	22,400	26,900	†11,000	4,150	1,300	*2,600	902	993
25	780	745	2,810	53,100	18,900	20,600	†14,000	4,150	1,230	*2,070	838	914
26	768	827	2,380	50,000	16,400	18,400	†16,500	3,790	1,090	*1,930	1,360	927
27	722	827	2,190	57,000	11,700	16,600	†16,000	3,310	1,010	*1,930	2,470	850
28	669	815	2,190	58,800	10,500	14,300	†12,000	2,830	966	*1,430	3,670	756
29	648	815	2,360	57,100	-	12,000	†9,400	2,510	863	*1,210	3,910	691
30	638	863	2,470	51,100	-	9,950	†15,000	2,210	1,010	*756	3,550	669
31	659	-	6,230	43,900	-	8,740	-	2,010	-	691	2,530	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	21,995	1,260	454	710	0.122	0.14
November	21,268	863	560	709	.122	.14
December	100,990	7,390	1,040	3,258	.560	.65
Calendar year 1936	3,350,722	120,000	435	9,155	1.57	21.43
January	1,359,200	64,400	16,500	43,850	7.53	8.68
February	557,460	35,900	8,870	19,910	3.42	3.56
March	407,510	30,600	5,700	13,150	2.26	2.61
April	248,650	16,500	3,300	8,288	1.42	1.58
May	679,620	59,600	2,010	21,920	3.77	4.35
June	52,099	2,950	863	1,737	.298	.33
July	41,133	2,600	648	1,327	.228	.26
August	44,958	3,910	522	1,450	.249	.29
September	141,720	15,100	669	4,724	.812	.91
Water year 1936-37	3,676,603	64,400	454	10,070	1.73	23.50

*Computed on basis of twice-daily gage readings.
†Recorder not operating; discharge computed by applying daily mean gage heights obtained from twice-daily staff gage-readings at upper pool of Lock 7 to rating determined by referring measurements at the Eutaw station to gage at upper pool of Lock 7, with some modifications on basis of records for station at Tuscaloosa.

Sipsey Fork of Mulberry Fork of Black Warrior River near Arley, Ala.

Location.- Wire-weight gage, lat. 33°59', long. 87°13', in N½ sec. 19, T. 12 S., R. 6 W., at Duncan Bridge, 3 miles below Clear Creek and 5 miles south of Arley.

Drainage area.- 537 square miles.

Records available.- January 1936 to September 1937.

Extremes.- Maximum discharge during January 1936 to September 1937, 38,000 second-feet Feb. 4 (gage height, 51.0 feet, from graph based on gage readings), from rating curve extended above 18,000 second-feet on basis of area-velocity studies and records for station near Sipsey; minimum observed, 34 second-feet June 19, 20; minimum gage height observed, 3.11 feet June 20.

Maximum discharge during water year 1936-37, 21,500 second-feet Apr. 29 (gage height, 34.5 feet, from floodmarks); minimum observed, 37 second-feet Oct. 5, 6; minimum gage height observed, 3.19 feet Oct. 5.

Remarks.- Records fair below 19,000 second-feet and poor above. Gage read once daily, oftener during periods of rapidly changing stage; gage-height graphs drawn for these periods. Daily mean gage heights are computed from gage-height graphs or are the mean of the observed morning gage height and the evening gage height computed by interpolation.

Rating table, water years 1935-36, 1936-37 (gage height, in feet, and discharge, in second-feet)

3.1	34	4.3	140	5.3	522	8.0	2,570	14.0	5,950	24.0	11,600
3.4	45	4.5	182	5.5	650	9.0	3,300	17.0	7,150	30.0	17,000
3.6	56	4.7	240	5.8	870	10.0	3,950	18.0	7,600	44.2	31,200
3.8	72	4.9	315	6.0	1,030	10.8	4,400	20.0	8,600		
4.0	94	5.1	410	6.9	1,720	13.0	5,500	22.0	9,900		

Discharge, in second-feet, 1936-37

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	257	337	3,140	650	77	41	88	53
2				-	597	337	23,100	385	47	37	115	63
3				-	5,190	337	11,600	257	43	53	159	77
4				-	31,200	315	3,690	195	56	199	315	82
5				-	12,000	295	2,490	224	72	201	337	88
6				-	4,600	257	3,900	182	63	77	195	88
7				-	2,340	209	4,503	170	59	63	140	77
8				-	*1,950	195	2,790	131	47	67	758	56
9				-	*1,800	182	6,850	170	47	77	727	53
10				-	*1,490	195	5,810	170	81	67	211	56
11				-	*1,180	209	3,560	140	139	47	170	59
12				-	1,030	159	2,410	131	82	43	195	63
13				-	990	149	1,720	149	77	43	108	72
14				-	832	131	1,340	140	59	106	88	77
15				-	617	159	1,100	170	50	298	72	72
16				-	385	404	910	131	45	170	63	67
17				-	437	3,710	553	159	39	241	63	59
18				-	493	2,180	437	170	43	617	63	50
19				-	385	1,180	437	295	34	584	67	47
20				-	360	990	360	209	37	553	59	50
21				-	337	795	315	140	45	1,100	56	53
22				1,490	315	522	257	115	43	1,800	50	47
23				1,410	295	385	209	88	53	360	47	47
24				950	240	1,390	224	63	59	189	56	50
25				584	182	6,360	209	67	53	50	59	50
26				522	224	4,010	295	88	53	63	53	53
27				410	410	6,030	182	94	43	63	47	56
28				385	437	7,260	140	77	45	72	41	53
29				337	360	3,620	149	53	39	67	45	50
30				275	-	1,950	275	53	39	77	47	47
31				182	-	1,720	-	63	-	94	50	-

*Gage height missing, discharge computed on basis of weather records and records for station at Sipsey.

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Discharge, in second-feet, of Sipsey Fork of Mulberry Fork of Black Warrior River near Arley, Ala., 1936-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	*56	*82	3,520	1,260	1,650	493	8,210	182	67	56	170
2	43	*53	*94	8,500	910	1,410	437	5,770	240	63	53	209
3	41	*50	*108	6,120	832	1,100	437	6,670	257	56	50	1,110
4	39	131	140	2,340	720	950	464	5,100	257	50	47	552
5	37	195	156	1,490	617	795	910	5,250	209	75	82	275
6	37	140	2,590	1,410	553	650	1,950	3,880	182	568	498	337
7	39	123	3,900	1,180	584	617	870	2,720	389	685	140	497
8	50	115	618	1,030	950	553	410	1,880	553	537	82	1,380
9	82	*108	315	832	11,300	464	553	1,340	315	172	72	464
10	47	*94	257	795	6,300	410	650	990	257	149	110	360
11	56	*63	182	1,100	2,870	385	553	832	209	149	195	315
12	56	*67	149	1,490	2,030	360	522	685	195	108	120	240
13	56	*67	140	2,870	1,650	360	522	870	159	77	72	159
14	56	*67	140	2,940	1,570	410	522	910	149	72	59	131
15	56	*59	140	5,300	1,490	437	553	650	159	67	56	108
16	59	*56	123	4,290	1,490	437	522	493	308	63	53	108
17	63	*53	115	3,230	910	437	437	410	195	59	50	131
18	72	*56	140	4,750	757	522	410	275	195	72	50	115
19	56	*59	170	6,150	757	950	385	209	182	112	50	101
20	53	*59	182	6,590	990	1,570	360	195	149	209	47	94
21	50	*63	159	5,200	1,800	1,490	275	209	140	140	45	88
22	50	*59	140	3,430	1,260	1,260	257	240	140	131	45	82
23	50	*59	123	2,410	950	1,180	385	257	115	123	45	77
24	50	*67	115	4,320	757	1,490	1,890	275	82	108	89	72
25	59	*67	108	8,400	650	2,790	3,160	240	77	148	795	72
26	67	*67	108	5,580	650	1,650	1,650	209	77	553	493	67
27	72	*67	115	2,870	1,180	1,260	1,180	195	72	218	224	63
28	77	*63	149	2,030	2,030	1,180	1,200	182	72	94	159	63
29	*72	*63	337	1,490	-	950	12,800	195	67	72	149	63
30	*63	*67	924	1,260	-	650	10,700	182	67	63	140	63
31	*59	-	1,800	1,340	-	553	-	170	-	59	149	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December						
Calendar year						
January 22-31, 1936	6,545	1,490	182	654	1.22	0.45
February	70,933	31,200	182	2,446	4.55	4.91
March	45,972	7,260	131	1,483	2.76	3.18
April	82,952	23,100	140	2,765	5.15	5.75
May	5,129	650	53	165	.307	.35
June	1,669	139	34	55.6	.104	.12
July	7,519	1,800	37	243	.453	.52
August	4,544	758	41	147	.274	.32
September	1,815	88	47	60.5	.113	.13
Water year						
October 1936	1,712	82	37	55.2	.103	.12
November	2,313	195	50	77.1	.144	.16
December	13,819	3,900	82	446	.831	.96
Calendar year						
January 1937	104,257	8,500	795	3,363	6.26	7.22
February	47,817	11,300	553	1,708	3.18	3.31
March	28,920	2,790	360	933	1.74	2.01
April	45,457	12,800	257	1,515	2.82	3.15
May	49,693	8,210	170	1,603	2.99	3.45
June	5,650	553	67	188	.350	.39
July	5,119	685	50	165	.307	.35
August	4,275	795	45	138	.257	.30
September	7,566	1,380	63	252	.469	.52
Water year 1936-37	316,598	12,800	37	867	1.61	21.94

*Gage height missing; discharge computed on basis of weather records and records for station at Sipsey.

Sipsey Fork of Mulberry Fork of Black Warrior River near Sipsey, Ala.

Location.- Staff gage, lat. 33°52', long. 87°04', in T. 13 S., R. 5 W., 200 feet below Lieth Creek, 3½ miles northeast of Sipsey, and 5 miles above mouth.

Drainage area.- 1,020 square miles.

Records available.- September 1928 to September 1937 (discontinued).

Extremes.- Maximum discharge during year, 34,900 second-feet Apr. 30; maximum gage height, 44.0 feet Apr. 30, from graph based on gage readings; minimum discharge observed, 31 second-feet Oct. 6 (gage height, 3.62 feet).
1928-37: Maximum discharge, 51,400 second-feet Feb. 4, 1936; maximum gage height, 57.0 feet Feb. 4, 1936; minimum discharge, 5 second-feet June 30, 1930 (gage height, 2.99 feet).

Remarks.- Records fair except those above 3,000 second-feet, which are poor. Discharge above 3,000 second-feet taken from "loop" rating curves based on rate of change of stage. Gage read at least once daily. For all days except for periods of rapidly changing stage, for which gage-height graphs were drawn, the mean daily gage heights are the means of the morning gage readings and the computed evening gage heights, the latter obtained by interpolation.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	54	81	4,200	3,180	3,140	1,140	19,900	265	90	81	151
2	50	55	92	15,100	2,560	2,620	955	12,000	325	81	72	490
3	44	54	102	24,400	1,920	2,240	895	10,800	325	72	60	2,500
4	38	74	165	8,680	1,720	1,880	895	8,750	250	69	43	2,400
5	34	162	177	4,900	1,520	1,680	1,450	10,200	236	102	43	835
6	32	241	502	3,440	1,460	1,520	2,680	8,520	265	191	87	775
7	41	177	4,150	2,980	1,780	1,360	2,160	4,700	475	502	408	582
8	55	129	1,960	2,540	1,910	1,360	1,720	3,370	955	335	174	582
9	89	108	775	2,110	13,800	1,240	1,520	2,740	555	194	134	895
10	100	92	450	1,720	15,300	1,080	1,240	2,110	400	151	100	720
11	81	83	375	1,680	5,690	895	1,080	1,680	350	132	120	610
12	66	78	325	2,620	3,470	895	955	1,460	295	118	350	375
13	58	83	270	3,550	2,980	835	895	1,880	246	100	177	246
14	50	74	232	4,460	2,660	955	835	1,820	202	90	141	194
15	71	71	210	7,300	2,500	1,190	775	1,240	177	81	118	156
16	159	81	191	10,800	2,020	955	775	1,020	236	72	100	143
17	104	66	180	6,480	1,620	895	720	835	375	67	90	132
18	78	61	214	11,200	1,410	1,080	610	720	250	204	81	120
19	81	66	325	16,000	1,300	2,110	610	665	218	665	72	116
20	66	61	450	17,100	1,540	3,540	610	638	191	582	64	110
21	58	64	375	12,800	3,360	3,410	638	720	246	450	56	100
22	50	64	350	5,960	3,580	2,560	638	895	205	218	54	90
23	47	66	270	4,530	2,620	2,160	638	720	188	174	69	81
24	50	64	232	6,080	2,340	2,920	2,430	665	167	265	534	72
25	47	78	198	21,900	2,020	3,930	5,190	610	141	170	1,820	69
26	58	83	165	17,600	1,720	3,210	2,930	475	118	458	1,020	81
27	96	78	174	8,520	1,460	2,620	2,340	425	100	365	582	72
28	154	81	159	5,180	2,340	1,980	2,060	400	90	194	295	64
29	96	71	162	3,280	-	1,620	7,610	350	87	141	236	56
30	71	69	300	2,620	-	1,410	30,000	300	100	100	295	50
31	58	-	3,420	2,110	-	1,240	-	275	-	90	191	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,140	159	32	69.0	0.068	0.08
November	2,591	241	54	86.4	.085	.09
December	17,031	4,150	81	549	.538	.62
Calendar year 1936	598,462	45,200	17	1,635	1.60	21.81
January	241,840	24,400	1,680	7,801	7.65	8.82
February	89,780	15,300	1,300	3,206	3.14	3.27
March	58,530	3,930	835	1,888	1.85	2.13
April	76,994	30,000	610	2,566	2.52	2.81
May	100,883	19,900	275	3,254	3.19	3.68
June	8,033	955	87	268	.263	.29
July	6,523	665	67	210	.206	.24
August	7,667	1,820	43	247	.242	.28
September	12,867	2,500	50	429	.421	.47
Water year 1936-37	624,879	30,000	32	1,712	1.68	22.78

Locust Fork of Black Warrior River at Trafford, Ala.

Location.- Water-stage recorder, lat. 33°50', long. 86°45', in sec. 9, T. 14 S., R. 2 W., at highway bridge three-quarters of a mile northwest of Trafford, 1½ miles east of Coaldale, and 2⅞ miles above Gurley Creek.

Drainage area.- 622 square miles.

Records available.- September 1930 to September 1937.

Extremes.- Maximum discharge during year, 30,300 second-feet Jan. 3; maximum gage height, 40.43 feet Jan. 3; minimum discharge, 24 second-feet Oct. 13, Sept. 29 (gage height, 2.78 feet).
1930-37: Maximum discharge, 45,500 second-feet Feb. 4, 1936; maximum gage height, 50.48 feet Feb. 5, 1936; minimum discharge, 8 second-feet Oct. 2, 19-21, 1931 (gage height, 2.39 feet).

Remarks.- Records good. Discharge above 6,000 second-feet determined by using rate of change of stage as a factor. Discharge for period of missing gage-heights, Nov. 13-15, computed on basis of records for nearby stations, that for Nov. 16-20 computed from graph drawn on basis of once-daily gage readings; and that for period of partial gage-height record, May 13-22, computed on basis of reconstructed gage-height record.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	73	52	5,650	2,540	1,390	645	7,800	149	47	39	167
2	39	63	57	17,800	1,910	1,110	579	4,830	346	47	50	154
3	39	52	106	28,300	1,600	1,000	514	9,660	579	43	47	239
4	37	55	158	12,800	1,430	931	482	8,250	310	41	39	544
5	33	55	193	5,110	1,230	846	826	8,900	202	68	45	460
6	35	57	314	5,650	1,110	778	1,350	6,520	302	71	124	389
7	31	55	2,060	4,450	1,000	728	931	3,920	266	149	237	323
8	33	52	1,180	3,350	965	812	744	2,640	346	93	175	290
9	31	47	695	2,640	7,300	778	711	1,960	185	80	320	501
10	31	45	450	2,140	6,460	629	629	1,510	137	76	262	314
11	29	47	399	2,240	3,140	563	546	1,230	110	57	664	264
12	27	55	450	2,090	2,190	530	482	1,000	455	50	596	169
13	27	55	434	2,840	1,780	498	450	897	207	43	292	154
14	52	50	373	2,590	1,600	546	418	1,040	137	37	1,280	122
15	43	45	345	7,590	1,390	612	386	965	114	33	525	96
16	568	52	530	6,590	1,150	596	367	678	126	31	289	80
17	376	47	711	5,050	1,000	530	345	563	296	33	158	76
18	317	45	645	7,700	863	676	329	496	618	75	106	60
19	189	45	965	8,850	795	1,190	304	434	241	159	83	55
20	110	47	1,070	6,900	829	3,470	296	386	171	1,220	63	50
21	70	52	846	5,410	3,210	2,690	304	339	189	676	55	45
22	65	47	678	4,010	2,970	1,870	323	307	141	274	71	47
23	106	39	563	3,240	1,960	1,470	333	310	106	354	213	43
24	90	45	466	2,990	1,510	1,670	345	336	86	405	341	41
25	106	45	418	14,800	1,310	2,050	575	310	76	110	637	35
26	227	39	373	11,400	1,070	1,430	579	311	73	80	1,280	35
27	268	39	351	5,020	1,000	1,150	418	400	68	70	798	29
28	211	41	339	3,350	1,040	1,000	348	290	57	68	371	26
29	180	43	342	2,690	-	897	8,870	215	52	60	650	24
30	129	45	360	2,140	-	795	14,000	193	50	50	315	27
31	93	-	5,830	2,090	-	728	-	167	-	43	248	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,633	568	27	117	0.188	0.22
November	1,477	73	39	49.2	.079	.09
December	21,773	5,830	52	702	1.13	1.30
Calendar year 1936	451,504	38,400	24	1,234	1.98	26.99
January	197,470	28,300	2,090	6,370	10.2	11.76
February	54,352	7,300	795	1,941	3.12	3.25
March	33,965	3,470	498	1,096	1.76	2.03
April	37,429	14,000	296	1,248	2.01	2.24
May	66,659	9,660	167	2,157	3.47	4.00
June	6,195	618	50	206	.331	.37
July	4,643	1,220	31	150	.241	.28
August	10,373	1,280	39	335	.539	.62
September	4,879	544	24	163	.262	.29
Water year 1936-37	443,048	28,300	24	1,214	1.95	26.45

Pascagoula River at Merrill, Miss.

Location.- Water-stage recorder, lat. 30°59', long. 88°44', in T. 1 S., R. 7 W., St. Stephens base and meridian, at bridge on State Highway 24, half a mile below confluence of Leaf and Chickasawhay Rivers and half a mile west of Merrill. Zero of gage is 24.1 feet above mean sea level (Gulf, Mobile & Northern Railroad benchmark).

Drainage area.- 6,600 square miles.

Records available.- December 1930 to September 1937.

Extremes.- Maximum discharge during year, 52,600 second-feet Jan. 26-29; maximum gage height, 23.83 feet Jan. 26; minimum discharge, 696 second-feet Nov. 3 (gage height, 2.37 feet).

1930-37: Maximum discharge, 89,700 second-feet Mar. 12, 13, 1935; maximum gage height, 25.83 feet Mar. 12, 1935; minimum discharge, that of Nov. 3, 1936.

Maximum stage known, about 31 feet July 9, 1916 (discharge not determined).

Remarks.- Records good except those for May 11 to June 20, which are fair.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 11 to June 20)

Oct. 1 to May 10								May 11 to Sept. 30	
2.3	640	10.0	7,750	18.3	22,700	22.1	36,800	2.7	970
2.6	880	11.0	9,100	19.4	25,500	22.5	39,600	3.1	1,250
3.5	1,640	12.6	11,610	20.4	28,500	23.1	44,700	4.1	2,000
7.1	4,790	15.0	15,800	21.1	31,300	23.5	48,900	5.1	2,830
8.9	6,480	16.8	19,300	21.6	33,800	23.8	52,500	6.5	4,230
								8.5	6,640

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,130	720	1,560	10,800	43,800	19,300	10,600	11,500	1,850	2,320	1,400	3,500
2	1,090	712	2,030	15,800	39,600	19,800	8,960	16,900	1,780	2,400	1,330	3,010
3	1,020	736	2,430	17,100	36,200	19,800	7,750	19,800	1,930	2,240	1,250	2,560
4	970	943	3,130	18,700	32,800	18,700	8,140	19,800	1,960	2,000	1,210	2,400
5	925	1,090	3,300	20,700	29,700	17,300	13,000	18,500	2,040	1,850	1,360	2,480
6	907	1,090	3,300	22,500	26,400	15,800	20,000	16,900	3,200	1,850	1,400	3,300
7	889	1,050	3,480	24,000	23,500	14,200	23,500	14,900	5,010	2,160	1,330	4,120
8	864	1,010	3,920	26,100	19,600	12,800	25,000	12,600	5,370	2,920	1,360	5,250
9	856	978	4,000	28,500	15,600	14,900	25,500	10,200	4,560	3,500	1,360	5,130
10	832	907	4,180	31,800	14,700	17,500	24,500	8,010	3,700	3,500	1,250	4,450
11	808	864	6,360	35,000	15,800	17,900	22,000	6,640	3,400	3,100	1,330	5,130
12	784	864	9,250	36,200	16,900	16,800	18,100	5,490	4,120	2,830	1,590	5,490
13	784	907	10,600	35,600	17,300	14,700	13,300	5,010	4,560	2,560	1,660	4,340
14	760	925	10,600	31,800	17,100	12,300	9,700	4,450	3,500	2,400	1,740	3,400
15	744	916	9,400	27,300	16,600	10,000	7,880	4,450	2,830	2,160	2,080	3,200
16	744	898	8,270	24,500	15,800	8,820	6,920	4,560	2,650	1,960	2,080	3,010
17	752	864	7,510	22,300	14,500	8,960	6,280	4,230	4,040	1,810	2,040	2,650
18	736	840	6,810	19,800	12,000	8,960	5,880	3,800	5,610	1,660	2,160	2,240
19	720	824	6,080	17,500	9,250	8,540	5,600	3,400	5,990	1,740	2,240	1,930
20	712	816	5,690	18,300	8,140	11,300	5,330	3,100	5,990	1,780	2,080	1,740
21	704	800	5,330	22,000	9,780	17,300	5,150	2,920	6,640	1,630	1,930	1,590
22	728	776	4,710	26,100	14,000	18,700	5,060	2,650	5,490	1,890	1,780	1,480
23	744	768	4,090	30,900	16,600	18,700	4,970	2,480	4,230	2,000	1,780	1,360
24	736	816	3,740	38,200	18,700	18,700	6,180	2,400	3,500	1,930	1,810	1,330
25	720	943	3,390	47,800	19,600	21,300	11,000	2,400	2,920	1,930	2,650	1,250
26	720	1,050	3,220	52,600	19,800	22,300	12,600	2,240	2,560	1,930	3,200	1,180
27	712	1,090	3,040	52,600	19,600	22,500	11,800	2,240	2,240	1,810	4,560	1,140
28	728	1,090	5,560	52,600	18,900	22,700	9,250	2,160	2,080	1,780	4,890	1,110
29	736	1,090	7,150	52,600	-	21,100	8,140	2,080	1,960	1,700	4,670	1,040
30	744	1,170	6,280	50,100	-	17,100	7,510	1,960	1,960	1,630	4,120	1,000
31	728	-	5,690	47,800	-	13,300	-	1,930	-	1,510	3,700	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	25,027	1,130	704	807	0.122	0.14
November	27,547	1,170	712	918	.139	.16
December	164,100	10,600	1,560	5,294	.802	.92
Calendar year 1936	3,023,014	78,500	704	8,260	1.25	17.04
January	957,600	52,600	10,800	30,890	4.68	5.40
February	562,270	43,800	8,140	20,080	3.04	3.17
March	502,080	22,700	8,540	16,200	2.45	2.82
April	349,580	25,500	4,970	11,650	1.77	1.98
May	219,700	19,800	1,930	7,087	1.07	1.23
June	107,670	6,640	1,780	3,589	.544	.61
July	66,480	3,500	1,510	2,145	.325	.37
August	67,340	4,890	1,210	2,172	.329	.38
September	81,810	5,490	1,000	2,727	.413	.46
Water year 1936-37	3,131,204	52,600	704	8,579	1.30	17.64

Pearl River at Edinburg, Miss.

Location.- Wire-weight gage, lat. 32°47', long. 89°20', in T. 11 N., R. 9 E., Choctaw meridian, at bridge on State Highway 16 in Edinburg. Zero of gage is 341.57 feet above mean sea level (U. S. Weather Bureau benchmark).

Drainage area.- 898 square miles.

Records available.- August 1928 to September 1937.

Extremes.- Maximum discharge observed during year, 9,800 second-feet Jan. 24 (gage height, 22.91 feet); minimum observed, 8 second-feet Oct. 5, 8, 21-26; minimum gage height observed, 1.74 feet Oct. 6.

1928-37: Maximum discharge observed, 31,400 second-feet Mar. 8, 1935 (gage height, 26.20 feet); minimum, 6 second-feet Oct. 27, 1931; minimum gage height, 1.63 feet Sept. 8, 1929.

Maximum stage known, 29.0 feet Mar. 1, 1902 (discharge not determined).

Remarks.- Records for Oct. 1 to Jan. 16 are good; those for Jan. 17 to Sept. 30 are good above 60 second-feet, fair between 20 and 60 second-feet and poor below 20 second-feet. Gage read twice daily; gage-height graphs drawn for periods of rapidly changing stage.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 17

1.7	7	4.5	236	13.5	2,170
2.0	12	5.7	409	16.0	3,230
2.4	24	7.0	650	18.0	4,360
3.0	68	9.0	1,050	20.0	5,930
3.6	131	11.0	1,490	22.0	8,200
				23.0	10,000

Jan. 18 to Sept. 30

2.2	9	3.5	106
2.5	19	4.0	164
2.8	37	5.0	296
3.1	64	5.9	433

Note.- Same as preceding table above 5.9 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	16	316	611	3,630	2,070	1,710	2,310	53	95	64	31
2	9	16	288	1,190	3,030	1,890	1,510	2,930	111	122	42	25
3	9	20	200	1,350	2,430	1,780	1,730	2,800	176	95	26	22
4	9	78	188	1,190	2,010	1,610	1,330	2,840	281	74	19	20
5	e	27	153	1,240	1,760	1,460	1,980	4,360	461	84	15	20
6	8	28	193	1,730	1,560	1,510	2,270	5,840	497	79	27	24
7	10	27	572	1,710	1,420	1,560	2,550	5,930	572	54	60	31
8	24	26	553	1,730	1,330	1,580	2,240	5,240	790	62	21	200
9	18	26	376	1,710	2,040	1,530	1,860	4,840	790	100	13	152
10	11	26	497	1,680	2,200	1,440	1,710	3,810	690	89	12	152
11	9	28	630	1,660	2,240	1,300	1,810	3,080	572	117	13	326
12	9	30	497	1,660	2,010	1,150	1,920	2,350	425	164	17	358
13	9	27	497	1,980	1,760	1,050	1,760	1,860	374	164	52	342
14	9	26	443	1,920	1,580	1,920	1,510	1,440	326	134	43	342
15	9	26	302	1,950	1,730	1,920	1,370	1,300	267	106	106	311
16	9	26	262	1,950	1,860	2,130	1,280	1,070	408	100	106	253
17	9	26	249	2,170	1,840	2,040	1,090	870	630	100	54	176
18	9	28	236	2,270	1,760	1,780	910	650	358	134	32	106
19	9	28	249	2,750	1,610	1,890	730	443	239	158	30	69
20	9	28	236	4,230	1,580	2,270	534	281	176	267	31	48
21	8	28	200	5,000	1,920	2,510	374	200	140	226	64	32
22	8	30	164	6,710	2,200	2,670	311	158	106	253	74	28
23	8	36	136	8,650	2,130	2,630	267	146	95	226	117	17
24	8	56	125	9,800	1,920	2,840	515	140	79	281	146	14
25	8	68	73	9,000	1,780	2,980	1,010	128	69	425	89	12
26	8	58	30	7,900	1,630	2,890	1,220	106	59	391	122	11
27	9	55	47	7,030	1,780	2,550	1,890	84	48	281	111	10
28	10	54	188	6,110	2,010	2,350	2,930	79	31	188	69	10
29	10	51	200	5,400	-	2,270	3,130	61	84	140	40	9
30	12	103	188	4,920	-	2,130	2,710	56	46	122	24	9
31	14	-	392	4,360	-	1,950	-	53	-	106	19	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	309	24	8	10.0	0.011	0.01
November	1,102	103	16	36.7	.041	.05
December	8,680	630	30	280	.312	.36
Calendar year 1936	304,154	19,100	e	831	.925	12.59
January	111,561	9,800	611	3,599	4.01	4.62
February	54,750	3,630	1,330	1,955	2.18	2.27
March	61,650	2,980	1,050	1,989	2.21	2.55
April	46,161	3,130	267	1,539	1.71	1.91
May	55,255	5,930	53	1,782	1.98	2.28
June	8,953	790	31	298	.332	.37
July	4,937	425	54	159	.177	.20
August	1,658	146	12	53.5	.060	.07
September	3,160	358	9	105	.117	.13
Water year 1936-37	358,176	9,800	8	981	1.09	14.82

Pearl River at Jackson, Miss.

Location.- Water-stage recorder, lat. 32°17'20", long. 90°10'45", in T. 5 N., R. 1 E. Choctaw meridian, at bridge on U. S. Highway 80 in Jackson. Zero of gage is 234.96 feet above mean sea level (general adjustment of 1929).

Drainage area.- 3,100 square miles.

Records available.- June 1901 to December 1913 and August 1928 to September 1937 (prior to 1903, gage heights only).

Average discharge.- 18 years (1903-12, 1928-37), 3,669 second-feet.

Extremes.- Maximum discharge during year, 22,800 second-feet Jan. 29 (gage height, 30.00 feet); minimum, 95 second-feet Oct. 31 (gage height, 1.29 feet).
1901-13, 1928-37: Maximum discharge known, 60,000 second-feet Dec. 19, 1932 (gage height, 35.2 feet); maximum gage height, 37.20 feet Apr. 1, 1902 (discharge not determined); minimum discharge, 80 second-feet Oct. 26 to Nov. 2, 1904; minimum gage height, 0.20 foot Nov. 4, 5, 1911.

Remarks.- Records good. Discharge for periods of faulty gage heights, Oct. 1-31, Dec. 17 to Jan. 7, computed from graph drawn on basis of twice-daily gage readings.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 29

1.3	96	5.4	1,360	22.0	9,180
1.5	119	9.5	3,010	24.5	11,500
1.8	174	11.0	3,680	26.0	13,400
2.3	307	15.0	5,590	27.0	15,100
2.9	485	19.0	7,250	28.5	18,200
				30.0	22,800

Jan. 30 to Sept. 30

2.0	260	5.0	1,290
2.5	400	7.0	2,035
3.0	565	9.5	3,010

Note.- Same as preceding table above 9.5 feet.

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	116	96	440	2,120	21,200	8,290	6,300	3,770	798	832	548	1,020
2	111	99	321	4,350	19,700	8,030	5,960	4,250	798	995	480	762
3	109	104	273	5,020	17,600	7,610	5,440	5,400	850	762	416	635
4	109	114	316	5,260	15,700	7,150	4,590	6,190	942	582	391	565
5	109	110	425	6,040	13,900	6,660	5,680	6,740	995	496	358	530
6	107	110	520	7,050	12,400	6,230	6,380	7,100	1,320	463	338	1,360
7	107	106	590	7,730	10,700	5,960	6,620	7,350	1,440	447	321	725
8	106	105	572	8,290	8,940	5,920	6,920	7,670	1,510	463	394	548
9	106	104	660	8,710	7,970	5,670	7,250	8,150	1,770	652	480	652
10	105	104	1,320	8,860	7,300	5,400	7,400	8,570	2,380	600	416	1,880
11	104	110	2,000	8,860	6,870	5,020	7,350	8,940	2,700	652	356	1,360
12	106	118	2,000	9,100	6,700	4,630	7,100	9,180	2,580	688	319	1,180
13	109	119	2,400	9,580	6,620	4,150	6,540	9,180	2,230	670	308	1,960
14	107	119	2,400	9,340	6,540	3,820	5,580	8,780	2,000	688	319	2,260
15	109	116	2,040	8,780	6,500	3,870	4,350	8,030	1,740	652	335	2,120
16	112	112	1,560	7,970	6,340	4,150	3,540	7,010	1,470	565	447	1,810
17	109	111	1,180	7,450	6,000	4,540	3,010	5,640	1,440	496	391	1,700
18	106	110	1,010	7,200	5,300	4,730	2,660	3,680	1,900	447	431	1,620
19	105	110	870	7,910	4,540	4,730	2,380	2,620	2,620	431	463	1,360
20	100	110	748	10,100	4,490	4,970	2,190	2,120	3,220	530	463	1,020
21	98	109	678	11,400	5,580	5,110	2,000	1,810	2,770	688	416	780
22	98	109	642	12,400	6,150	5,440	1,810	1,540	1,960	1,100	394	635
23	99	107	625	13,700	6,380	5,720	1,580	1,360	1,360	1,180	438	530
24	101	122	642	15,500	6,620	6,110	2,300	1,220	1,040	1,070	832	463
25	99	118	608	17,200	6,870	6,500	2,770	1,440	850	942	679	416
26	101	116	555	18,800	7,010	6,660	3,450	2,190	745	798	688	376
27	98	115	502	20,600	7,400	6,790	4,200	2,040	652	745	942	347
28	99	114	520	22,100	8,150	6,790	4,150	1,540	942	815	1,540	321
29	98	119	520	22,800	-	6,790	4,010	1,220	670	832	1,700	297
30	97	420	555	22,100	-	6,700	3,820	1,040	530	762	1,540	281
31	96	-	1,320	22,100	-	6,500	-	908	-	635	1,290	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,236	116	96	104	0.034	0.04
November	3,636	420	96	121	.039	.04
December	28,812	2,400	273	929	.300	.35
Calendar year 1936	959,424	33,800	96	2,621	.845	11.52
January	348,420	22,800	2,120	11,240	3.63	4.18
February	249,470	21,200	4,490	8,910	2.87	2.99
March	180,640	8,290	3,820	5,827	1.88	2.17
April	137,330	7,400	1,580	4,578	1.48	1.65
May	146,678	9,180	908	4,732	1.53	1.76
June	46,222	3,220	530	1,541	.497	.55
July	21,678	1,180	431	699	.225	.26
August	18,433	1,700	308	595	.192	.22
September	29,513	2,260	281	984	.317	.35
Water year 1936-37	1,214,068	22,800	96	3,326	1.07	14.56

Pearl River near Columbia, Miss.

Location.- Water-stage recorder, lat. 31°14', long. 89°51', in T. 3 N., R. 18 W. St. Stephens meridian, at bridge on State Highway 24, 1 mile west of Columbia.

Drainage area.- 5,690 square miles.

Records available.- May 1934 to September 1937. August 1928 to May 1934, at site 1 mile downstream.

Extremes.- Maximum discharge during year, 43,000 second-feet Jan. 22 (gage height, 22.35 feet); minimum, 736 second-feet Oct. 20-31, Nov. 5, 8; minimum gage height, 1.93 feet Oct. 24.

1928-37: Maximum discharge, 62,500 second-feet Mar. 18, 1935 (gage height, 24.88 feet); minimum, that of Oct. 20-31, Nov. 5, 6, 1936; minimum gage height, that of Oct. 24, 1936.

Remarks.- Records good. Records for periods of faulty gage heights, Aug. 8, 7, Sept. 13-18, computed from graph drawn on basis of once-daily readings of U. S. Weather Bureau staff gage at same site and datum.

Rating tables, water year 1936-37 (gage height, in feet, and discharge, in second-feet) (Shifting-control method used Jan. 3-23)

Oct. 1 to Jan. 2				Jan. 24 to Sept. 30			
1.95	736	5.6	3,570	2.6	1,135	12.0	12,500
2.1	818	6.9	4,910	3.0	1,415	15.4	19,300
2.5	1,063			4.0	2,190	18.4	26,800
3.0	1,412			5.2	3,340	20.6	33,400
4.0	2,180			7.0	5,420	21.3	36,200
4.5	2,580			9.6	8,900		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	847	763	1,060	2,500	26,800	13,700	9,500	8,060	2,550	2,280	1,680	2,640
2	e47	763	1,230	3,860	26,300	15,300	9,200	11,300	2,370	2,110	1,640	2,550
3	e47	763	1,480	11,000	26,300	15,500	8,900	12,700	2,370	1,790	1,600	2,370
4	81e	763	1,940	16,700	26,800	14,500	8,900	11,600	2,460	1,790	1,560	2,110
5	790	736	1,830	18,900	27,100	13,300	10,700	10,100	2,280	1,990	1,560	1,910
6	790	736	1,600	19,600	26,800	12,200	15,100	9,650	2,370	2,370	1,560	1,910
7	790	763	1,520	20,600	26,000	12,200	15,500	10,400	2,370	3,140	1,490	2,190
8	818	763	1,560	21,600	25,000	14,100	13,700	10,200	2,460	2,740	1,310	2,640
9	818	763	1,940	21,600	24,000	14,500	11,900	9,650	2,640	2,460	1,280	2,370
10	790	763	2,180	20,800	23,300	13,500	10,800	9,500	2,940	2,280	1,240	2,190
11	790	790	3,030	18,500	22,800	11,900	10,200	9,500	2,840	1,990	1,310	1,870
12	790	790	4,470	15,700	22,000	10,600	9,950	9,800	3,040	1,990	1,490	2,190
13	763	790	4,910	13,500	19,100	9,350	9,950	10,100	3,450	1,870	1,450	2,370
14	763	763	5,970	13,900	15,500	8,480	9,800	10,200	3,670	1,720	1,420	2,550
15	763	763	5,570	15,300	12,400	9,200	9,500	10,600	3,780	1,720	1,340	2,190
16	763	763	3,390	16,900	11,200	11,300	8,900	10,600	4,000	1,720	1,380	2,550
17	763	763	3,300	17,900	10,400	11,200	7,780	10,200	4,580	1,720	1,990	2,940
18	763	763	3,030	17,900	10,100	9,650	6,590	9,800	4,460	1,680	2,150	2,840
19	763	790	2,670	19,800	9,800	8,760	5,680	8,900	3,780	1,640	2,190	2,640
20	736	790	2,340	29,500	9,350	9,350	5,060	7,370	4,820	1,560	1,870	2,550
21	736	790	2,180	39,000	11,600	10,700	4,700	5,550	5,060	1,490	1,600	2,370
22	736	763	2,020	42,500	15,700	10,100	4,460	4,460	4,700	1,560	1,450	2,240
23	736	763	1,900	39,500	16,500	9,350	4,220	3,780	4,460	1,750	1,530	1,990
24	736	847	1,750	36,200	15,700	9,050	4,940	3,450	4,000	1,870	1,600	1,750
25	736	876	1,670	35,000	14,500	8,900	6,460	3,140	3,240	1,990	1,970	1,560
26	736	e76	1,630	34,600	13,300	8,900	5,940	2,940	2,740	2,150	3,560	1,420
27	736	e47	1,600	34,600	12,400	9,950	5,680	2,740	2,370	2,150	3,240	1,340
28	736	81e	1,600	33,800	12,200	10,400	5,420	2,840	2,150	1,990	2,940	1,240
29	736	818	1,600	32,500	-	10,200	5,810	3,340	2,070	1,790	2,460	1,170
30	736	876	1,670	30,400	-	9,950	6,070	3,240	2,150	1,680	2,240	1,140
31	736	-	2,340	28,600	-	9,650	-	2,840	-	1,640	2,460	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	23,908	847	736	771	0.136	0.16
November	23,615	876	736	787	.138	.15
December	70,980	4,910	1,060	2,290	.402	.46
Calendar year 1936	1,897,974	39,000	736	5,166	.911	12.40
January	722,760	42,500	2,500	23,310	4.10	4.73
February	512,950	27,100	9,350	18,320	3.22	3.35
March	345,740	15,500	8,480	11,150	1.96	2.26
April	251,310	15,500	4,220	8,377	1.47	1.64
May	238,550	12,700	2,740	7,695	1.35	1.56
June	96,370	5,060	2,070	3,212	.564	.63
July	60,820	3,140	1,490	1,955	.344	.40
August	56,560	3,560	1,240	1,825	.321	.37
September	63,790	2,940	1,140	2,126	.374	.42
Water year 1936-37	2,467,153	42,500	736	6,759	1.19	16.13

Strong River at Dlo, Miss.

Location.- Staff gage, lat. 31°59', long. 89°54', in T. 2 N., R. 4 E. Choctaw meridian, half a mile above Gulf & Ship Island Railroad bridge and three-quarters of a mile southeast of Dlo.

Drainage area.- 361 square miles.

Records available.- August 1928 to September 1937.

Extremes.- Maximum discharge observed during year, 8,670 second-feet Jan. 20 (gage height, 21.12 feet); minimum, 17 second-feet Oct. 3, 4, 5, Nov. 21 (gage height, 2.26 feet).
1928-37: Maximum discharge, 22,900 second-feet Mar. 7, 1935 (gage height, 28.0 feet, from floodmarks) from rating curve extended above 13,400 second-feet; minimum, 16 second-feet Aug. 8, 9, 1933 (gage height, 2.25 feet).

Remarks.- Records good. Gage read twice daily except Feb. 10; gage-height graphs drawn for periods of rapidly changing stage, including Feb. 10 (based on readings Feb. 9 and 11).

Rating table, water year 1936-37 (gage height, in feet, and discharge, in second-feet)

2.26	17	3.0	236	6.0	1,790
2.30	21	3.2	346	8.5	2,620
2.4	31	3.4	466	12.5	4,180
2.5	51	3.6	603	14.5	5,070
2.6	74	4.0	903	19.0	7,300
2.8	145	4.4	1,146	20.6	8,320
2.9	186	4.8	1,340		

Discharge, in second-feet, water year October 1936 to September 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	21	114	1,150	2,450	2,060	220	611	57	35	24	110
2	19	22	80	3,640	1,740	1,530	195	1,640	66	31	23	80
3	17	21	141	3,660	1,150	832	182	1,030	57	30	24	71
4	18	20	92	2,980	736	567	165	868	51	30	23	51
5	18	20	59	4,010	499	499	759	795	53	33	24	45
6	19	21	92	5,600	404	499	1,500	969	55	43	23	41
7	21	21	290	5,500	375	949	1,150	640	59	35	23	41
8	19	22	152	3,940	340	1,790	828	262	63	33	24	43
9	20	22	68	2,980	1,510	1,500	435	191	59	33	24	37
10	20	23	454	1,160	1,820	1,150	284	182	55	35	23	33
11	21	22	681	499	1,500	605	230	165	51	41	23	33
12	20	21	387	633	1,250	404	200	178	51	31	26	33
13	20	20	236	969	620	340	178	567	47	29	33	29
14	20	19	157	832	435	486	149	435	49	28	39	27
15	19	19	114	1,930	369	1,030	153	257	57	27	45	26
16	20	20	83	2,290	306	969	145	141	435	27	53	27
17	19	20	61	1,650	279	678	133	110	352	27	49	25
18	19	20	63	3,000	262	567	121	92	252	27	45	25
19	20	20	71	5,620	273	664	114	86	700	26	45	26
20	20	20	103	8,320	651	1,090	107	71	290	28	45	25
21	20	18	80	7,970	2,800	969	103	59	173	29	49	24
22	21	23	66	6,500	3,340	757	118	66	74	30	45	23
23	19	24	61	5,310	2,390	499	114	63	53	30	43	23
24	20	27	57	4,310	1,820	398	157	59	49	33	47	21
25	20	28	57	4,620	1,110	398	312	57	49	31	57	23
26	22	28	51	4,400	757	435	262	55	45	30	61	21
27	22	30	49	3,220	1,430	435	215	51	41	31	178	21
28	20	29	71	2,220	2,350	392	182	53	35	29	306	21
29	20	28	110	1,070	-	375	169	53	33	28	165	22
30	20	62	149	1,170	-	284	182	53	35	28	118	23
31	21	-	340	1,800	-	236	-	51	-	29	125	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	614	22	17	19.8	0.055	0.06
November	711	62	18	23.7	.066	.07
December	4,589	681	49	148	.410	.47
Calendar year 1936	162,047	11,400	17	443	1.23	16.69
January	102,953	8,320	499	3,321	9.20	10.61
February	32,966	3,340	262	1,177	3.26	3.40
March	23,387	2,060	236	754	2.09	2.41
April	9,062	1,500	103	302	.837	.93
May	9,910	1,640	51	320	.886	1.02
June	3,446	700	33	115	.319	.36
July	957	43	26	30.9	.086	.10
August	1,832	306	25	59.1	.164	.19
September	1,050	110	21	35.0	.097	.11
Water year 1936-37	191,477	8,320	17	525	1.45	19.73

In addition to the records of stream flow obtained at gaging stations and reported in the preceding pages, measurements of flow were made also at the points indicated in the following table:

Miscellaneous discharge measurements in South Atlantic slope and eastern Gulf of Mexico basins during the water year October 1936 to September 1937*

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
May 9	Crabtree Falls..	South Fork of Tye River.	100 feet above mouth, Va.....	3.2
Nov. 6	James River & Kanawha Canal.	James River.....	Settling basin, Richmond, Va.....	793
Oct. 14	....do.....	....do.....	City pumping plant, Richmond, Va.....	745
14	....do.....	....do.....	....do.....	747
Nov. 24	....do.....	....do.....	....do.....	797
24	....do.....	....do.....	....do.....	775
Oct. 19	....do.....	....do.....	1 mile below city pumping plant, Richmond, Va.	809
19	....do.....	....do.....	....do.....	969
Nov. 6	....do.....	....do.....	....do.....	792
6	....do.....	....do.....	....do.....	701
24	....do.....	....do.....	....do.....	707
24	....do.....	....do.....	....do.....	695
6	....do.....	....do.....	Above Tredegar plant, Richmond, Va....	427
6	....do.....	....do.....	....do.....	450
24	....do.....	....do.....	....do.....	460
24	....do.....	....do.....	....do.....	467
Jan. 4	Brown Creek.....	Pee Dee River.....	At Medley's Hill near Polkton, N. C...	487
4	....do.....	....do.....	....do.....	432
5	....do.....	....do.....	....do.....	330
5	....do.....	....do.....	....do.....	310
22	....do.....	....do.....	....do.....	351
Mar. 18	....do.....	....do.....	....do.....	316
June 9	....do.....	....do.....	....do.....	16.7
Aug. 4	....do.....	....do.....	....do.....	.34
25	....do.....	....do.....	....do.....	21.5
Oct. 5	Tar River.....	Atlantic Ocean....	At Greenville, N. C.....	1,140
Nov. 7	....do.....	....do.....	....do.....	966
Jan. 10	....do.....	....do.....	....do.....	11,700
28	....do.....	....do.....	....do.....	9,160
Feb. 1	....do.....	....do.....	....do.....	20,600
3	....do.....	....do.....	....do.....	24,000
6	....do.....	....do.....	....do.....	17,500
Apr. 1	....do.....	....do.....	....do.....	2,640
9	....do.....	....do.....	....do.....	8,480
May 2	....do.....	....do.....	....do.....	18,100
20	....do.....	....do.....	....do.....	1,560
Sept. 3	....do.....	....do.....	....do.....	15,700
June 9	Gills Creek.....	Congaree River....	At bridge on U. S. Highway 76 at Columbia, S. C.	21.6
9	Mill Creek.....	....do.....	At county highway bridge 1 mile upstream from Caughman's Pond, near Columbia, S. C.	4.25
Apr. 7	Ocmulgee River..	Altamaha River....	Abbeyville, Ga.....	8,480
14	....do.....	....do.....	....do.....	12,700
May 28	....do.....	....do.....	....do.....	3,920
Apr. 6	Seventeenmile Creek.	Satilla River.....	Near Douglas, Ga.....	650
15	....do.....	....do.....	....do.....	229
Dec. 3	Juniper Spring..	Lake George.....	Near Astor, Fla.....	12.0
Mar. 11	....do.....	....do.....	....do.....	12.8
Dec. 3	Fern Hammock Springs.	Juniper Springs Creek.	....do.....	14.9
Mar. 11	....do.....	....do.....	....do.....	15.6
Oct. 9	Caloosahatchee River.	Gulf of Mexico....	Near Citrus Center, Fla.....	519
19	....do.....	....do.....	....do.....	952
Nov. 6	....do.....	....do.....	....do.....	61.5
23	....do.....	....do.....	....do.....	336
Dec. 14	....do.....	....do.....	....do.....	74.6
17	....do.....	....do.....	....do.....	48.1
Jan. 7	....do.....	....do.....	....do.....	91.2
18	....do.....	....do.....	....do.....	35.4
Feb. 22	....do.....	....do.....	....do.....	0
July 10	Alligator Creek.	Charlotte Harbor..	Near Punta Gorda, Fla.....	16.2
Sept.15	....do.....	....do.....	....do.....	3.2
Feb. 27	Hillsboro River.	Tampa Bay.....	Near Zephyrhills, Fla.....	38.3
May 11	Levy Lake Creek.	Ground water through sink.	Near Micanopy, Fla.....	14.4
Apr. 22	Blue Springs....	Withlacoochee River.	Near Quitman, Ga.....	18.9
June 8	Dukes Creek.....	Chattahoochee River	Near Nacoochee, Ga.....	48.8
8	Sautee Creek....	....do.....	Near Sautee, Ga.....	63.6
Sept.24	Camp Creek.....	....do.....	Near Ben Hill, Ga.....	12.5
23	Mud Creek.....	Flint River.....	Near Riverdale, Ga.....	11.6
Mar. 17	Potato Creek....	....do.....	Above Thomaston, Ga.....	352
Apr. 10	....do.....	....do.....	....do.....	744
May 7	....do.....	....do.....	....do.....	338
June 17	....do.....	....do.....	....do.....	78.5
July 22	....do.....	....do.....	....do.....	51.0
June 22	Radium Springs..	....do.....	Near Albany, Ga.....	69.3
9	Big Spring Creek	Pine Log Creek....	At Dews Pond, near Calhoun, Ga.....	14.0
Jan. 7	Bear Creek.....	St. Andrews Bay...	At Nixon, Fla.....	75.3

*Includes also measurements of Brown Creek at Medley's Mill, near Polkton, N. C. and Tar River at Greenville, N. C. for the water year 1935-36, which are given at the end of this table.

Miscellaneous discharge measurements in South Atlantic slope and eastern Gulf of Mexico basins during the water year October 1936 to September 1937--Continued.

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
Oct. 13	Choctawhatchee River.	Gulf of Mexico....	In SW¼ sec. 7 T. 2 N., R. 23 E., near Bellwood, Ala.	1,320
Dec. 10	....do.....	....do.....	....do.....	1,440
Feb. 23	....do.....	....do.....	....do.....	7,000
Apr. 5	....do.....	....do.....	....do.....	2,580
June 4	....do.....	....do.....	....do.....	732
July 29	....do.....	....do.....	....do.....	830
Sept.30	....do.....	....do.....	....do.....	1,420

Brown Creek at Medley's Mill near Polkton, N. C., for the water year 1935-36

Oct. 29	Brown Creek.....	Pee Dee River.....	At Medley's Mill near Polkton, N. C..	40.9
29	....do.....	....do.....	....do.....	47.3
30	....do.....	....do.....	....do.....	20.0
Dec. 20	....do.....	....do.....	....do.....	22.5
21	....do.....	....do.....	....do.....	18.2
Jan. 24	....do.....	....do.....	....do.....	132
Feb. 27	....do.....	....do.....	....do.....	65.6
Mar. 26	....do.....	....do.....	....do.....	115
Apr. 10	....do.....	....do.....	....do.....	953
May 1	....do.....	....do.....	....do.....	14.5
June 13	....do.....	....do.....	....do.....	11.3
Sept.28	....do.....	....do.....	....do.....	1.48

Tar River at Greenville, N. C., for the water year 1935-36

Oct. 17	Tar River.....	Atlantic Ocean....	At Greenville, N. C.....	554
24	....do.....	....do.....	....do.....	388
Nov. 19	....do.....	....do.....	....do.....	2,360
Jan. 3	....do.....	....do.....	....do.....	2,500
12	....do.....	....do.....	....do.....	19,700
17	....do.....	....do.....	....do.....	10,800
Feb. 22	....do.....	....do.....	....do.....	18,900
24	....do.....	....do.....	....do.....	18,100
25	....do.....	....do.....	....do.....	8,620
26	....do.....	....do.....	....do.....	7,010
Mar. 17	....do.....	....do.....	....do.....	7,050
Apr. 13	....do.....	....do.....	....do.....	21,700
May 21	....do.....	....do.....	....do.....	827
July 11	....do.....	....do.....	....do.....	1,470
13	....do.....	....do.....	....do.....	977
Sept. 4	....do.....	....do.....	....do.....	1,010

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