

UNITED STATES DEPARTMENT OF THE INTERIOR

RAY LYMAN WILBUR, Secretary

GEOLOGICAL SURVEY

GEORGE OTIS SMITH, Director

Water-Supply Paper 642

SURFACE WATER SUPPLY *of the* UNITED STATES 1927

PART II

SOUTH ATLANTIC SLOPE AND EASTERN
GULF OF MEXICO BASINS

NATHAN C. GROVER, Chief Hydraulic Engineer

J. J. DIRZULAITIS, E. D. BURCHARD, and W. R. KING
District Engineers

Prepared in cooperation with the States of
VIRGINIA and NORTH CAROLINA



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1931

CONTENTS

	Page
Authorization and scope of work.....	1
Definition of terms.....	2
Explanation of data.....	2
Accuracy of field data and computed results.....	4
Publications.....	5
Cooperation.....	9
Division of work.....	9
Gaging-station records.....	10
James River Basin.....	10
Jackson River at Barber, Va.....	10
James River at Lick Run, Va.....	11
James River at Buchanan, Va.....	12
James River at Salt Creek, Va.....	13
James River at Bent Creek, Va.....	14
James River at Scottsville, Va.....	15
James River at Cartersville, Va.....	16
Cowpasture River near Clifton Forge, Va.....	17
Craig Creek at Parr, Va.....	18
Johns Creek at Newcastle, Va.....	19
North River at Goshen, Va.....	20
North River near Lexington, Va.....	21
Kerrs Creek near Lexington, Va.....	22
Wreck Island Creek near Concord, Va.....	23
Tye River at Roseland, Va.....	24
Hardware River near Scottsville, Va.....	25
Slate River near Arvonnia, Va.....	26
Rivanna River below Moores Creek, near Charlottesville, Va.....	27
Willis River at Flanagan Mills, Va.....	28
Appomattox River at Farmville, Va.....	29
Appomattox River at Mattoax, Va.....	30
Appomattox River near Petersburg, Va.....	31
Dismal Swamp Basin.....	32
Lake Drummond in Dismal Swamp, Va.....	32
Roanoke River Basin.....	33
Roanoke River at Roanoke, Va.....	33
Roanoke River at Niagara, Va.....	34
Roanoke River near Toshes, Va.....	36
Roanoke River near Gretna, Va.....	37
Roanoke River at Brookneal, Va.....	38
Roanoke River at Old Gaston, N. C.....	39
Blackwater River near Union Hall, Va.....	40
Goose Creek near Huddleston, Va.....	41
Dan River near Francisco, N. C.....	42
Dan River at South Boston, Va.....	43
Leatherwood Creek near Old Liberty, Va.....	44

Gaging-station records—Continued.	Page
Tar River Basin.....	45
Fishing Creek near Enfield, N. C.....	45
Neuse River Basin.....	46
Flat River at Bahama, N. C.....	46
Dial Creek at Bahama, N. C.....	47
Rocky Creek near Bahama, N. C.....	48
Cape Fear River Basin.....	49
Cape Fear River at Lillington, N. C.....	49
Reedy Fork near Summerfield, N. C.....	50
Horsepen Creek at Battle Ground, N. C.....	51
Morgan Creek near Chapel Hill, N. C.....	52
Deep River at Ramseur, N. C.....	53
Pee Dee River Basin.....	54
Yadkin River at North Wilkesboro, N. C.....	54
Yadkin River near Salisbury, N. C.....	55
Yadkin River at High Rock, N. C.....	56
Fisher River near Dobson, N. C.....	57
Santee River Basin.....	58
Santee River at Ferguson, S. C.....	58
Linville River at Branch, N. C.....	59
Henry Fork near Henry River, N. C.....	60
Little Sugar Creek near Charlotte, N. C.....	61
Broad River near Chimney Rock, N. C.....	62
Broad River near Boiling Springs, N. C.....	63
Broad River at Richtex, S. C.....	64
Second Broad River at Cliffside, N. C.....	65
Sandy Run Creek near Boiling Springs, N. C.....	66
Saluda River at Chappells, S. C.....	67
Saluda River near Silverstreet, S. C.....	68
Saluda River near Chapin, S. C.....	69
Saluda River near Columbia, S. C.....	70
Savannah River Basin.....	71
Chattooga River near Tallulah Falls, Ga.....	71
Tugaloo River near Hartwell, Ga.....	72
Savannah River at Augusta, Ga.....	73
Broad River near Bell, Ga.....	74
St. Marys River Basin.....	75
North Prong of St. Marys River at Moniac, Ga.....	75
St. Marys River near Macclenny, Fla.....	79
Suwannee River Basin.....	80
Suwannee River at Fargo, Ga.....	80
Suwannee River at White Springs, Fla.....	81
Suwannee River at Ellaville, Fla.....	82
Suwannee River at Luraville, Fla.....	83
Ochlockonee River Basin.....	84
Ochlockonee River at Ochlockonee, Fla.....	84
Ochlockonee River near Bloxham, Fla.....	85
Apalachicola River Basin.....	86
Chattahoochee River at West Point, Ga.....	86
Flint River near Vienna, Ga.....	87
Chipola River near Altha, Fla.....	88
Choctawhatchee River Basin.....	89
Choctawhatchee River near Newton, Ala.....	89

CONTENTS

v

Gaging-station records—Continued.	Page
Mobile River Basin.....	90
Coosawattee River near Carters, Ga.....	90
Coosa River at Gadsden, Ala.....	91
Coosa River at Childersburg, Ala.....	92
Coosa River at Mitchell Dam, near Verbena, Ala.....	93
Coosa River at Lock 18, near Wetumpka, Ala.....	94
Tallapoosa River near Cragford, Ala.....	95
Tallapoosa River at Wadley, Ala.....	96
Tallapoosa River at Cherokee Bluffs, near Tallassee, Ala.....	97
Miscellaneous discharge measurements.....	98
Index.....	101

ILLUSTRATION

FIGURE 1. Typical gaging station.....	3
---------------------------------------	---

SURFACE WATER SUPPLY OF SOUTH ATLANTIC SLOPE AND EASTERN GULF OF MEXICO BASINS, 1927

AUTHORIZATION AND 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 year ending September 30, 1927.

The data presented in these reports were collected by the United States Geological Survey under the following authority contained in the organic law (20 Stat. L., p. 394):

Provided, That this officer [the Director] shall have the direction of the Geological Survey and the classification of public lands and examination of the geological structure, mineral resources, and products of the national domain.

The work was begun in 1888 in connection with special studies relating to irrigation. Since the fiscal year ending June 30, 1895, successive appropriation bills passed by Congress have carried the following items:

For gaging the streams and determining the water supply of the United States, and for the investigation of underground currents and artesian wells, and for the preparation of reports upon the best methods of utilizing the water resources.

Annual appropriations for the fiscal years ending June 30, 1895-1928

1895.....	\$12,500.00	1918.....	\$175,000.00
1896.....	24,500.00	1919.....	148,244.10
1897-1899.....	50,000.00	1920.....	175,000.00
1900.....	70,000.00	1921-1923.....	180,000.00
1901-2.....	100,000.00	1924-25.....	170,000.00
1903-1906.....	200,000.00	1926.....	165,000.00
1907.....	150,000.00	1927.....	151,000.00
1908-1910.....	100,000.00	1928.....	147,000.00
1911-1917.....	150,000.00		

In the execution of the work many private and State 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 9.

Measurements of stream flow have been made at about 5,330 points in the United States and also at many points in Alaska and the

Hawaiian Islands. In July, 1927, 1,750 gaging stations were being maintained by the Geological Survey and the cooperating organizations. Many miscellaneous discharge measurements were made at other points. In connection with this work, data were also collected in regard to precipitation, evaporation, storage reservoirs, river profiles, and water power in many sections of the country and will be made available in water-supply papers from time to time.

DEFINITION OF TERMS

The volume of water flowing in a stream—the “run-off” or “discharge”—is expressed in various terms, each of which has become associated with a certain class of work. These terms may be divided into two groups—(1) those that represent a rate of flow, as second-feet, gallons per minute, miner’s inches, and discharge in second-feet per square mile, and (2) those that represent the actual quantity of water, as run-off in inches, acre-feet, and millions of cubic feet. The principal terms used in this series of reports are second-feet, second-feet per square mile, run-off in inches, and acre-feet. They may be defined as follows:

“Second-feet” is an abbreviation for “cubic feet per second.” A second-foot is the rate of discharge of water flowing in a channel of rectangular cross section 1 foot wide and 1 foot deep at an average velocity of 1 foot per second. It is generally used as a fundamental unit from which others are computed.

“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 the 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.

The following terms not in common use are here defined:

“Stage-discharge relation,” an abbreviation for the term “relation of gage height to discharge.”

“Control,” a term used to designate the natural section or stretch of the channel or artificial structure below the gage which determines the stage-discharge relation at the gage.

EXPLANATION OF DATA

The data presented in this report cover the year beginning October 1, 1926, and ending September 30, 1927. At the beginning of January in most parts of the United States much of the precipitation

in the preceding three months is stored in the form of snow or ice, or in ponds, lakes, and swamps, or as underground water, and this stored water passes off in the streams during the spring break-up. At the end of September, on the other hand, the only stored water available for run-off is possibly a small quantity in the ground; therefore the run-off for the year beginning October 1 is practically all derived from precipitation within that year.

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 of a staff or chain gage or from a water-stage recorder that gives a continuous record of the fluctuations. Measurements

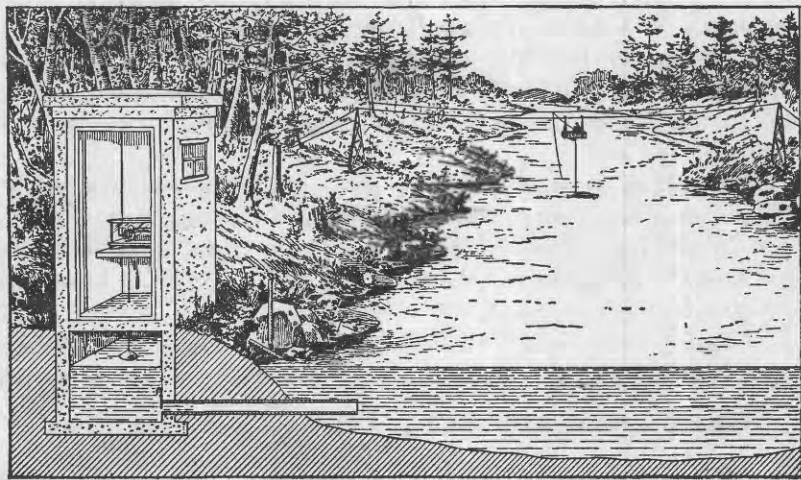


FIGURE 1.—Typical gaging station

of discharge are made with a current meter by the general methods outlined in standard textbooks on the measurements of river discharge. A typical gaging station, equipped with water-stage recorder and measuring cable and car, is shown in Figure 1.

From the discharge measurements rating tables are prepared that give the discharge for any stage. The application of the daily gage heights 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 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.

The description of the station gives, in addition to statements regarding location and type of gage, information as to diversions that

decrease the flow at the gage, artificial regulation, maximum and minimum recorded stages, and the accuracy of the records. The maximum discharge given under "Extremes" does not represent the crest discharge unless a water-stage recorder was in operation or, unless a nonrecording gage was read at the time of the crest.

The table of daily discharge gives, in general, the discharge in second-feet corresponding to the daily gage height which may be once daily reading or the mean of twice daily readings of a nonrecording gage, or the mean daily gage height obtained from a water-stage recorder graph.

At stations on streams subject to sudden or rapid diurnal fluctuation the discharge obtained from the rating table and the mean daily gage height may not be the true mean discharge for the day. If such stations are equipped with water-stage recorders, the mean daily discharge may be obtained by averaging discharge at regular intervals during the day or by using the discharge integrator, an instrument for obtaining 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 "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. On this average flow are based computations recorded in the remaining columns, which are defined on page 2.

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 in regard to the general accuracy of the records. "Excellent" indicates that records are accurate within 5 per cent; "good," within 10 per cent; "fair," within 15 per cent; and "poor," 20 per cent or more.

The monthly means for any station may represent with high accuracy the quantity of water flowing past the gage, but the figures showing discharge per square mile and run-off 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.

The tables of monthly discharge give 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.

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 stations must first be satisfied.

PUBLICATIONS

Investigation of water resources by the United States Geological Survey has consisted in large part of measurements of the volume of flow of streams and studies of the conditions affecting that flow, but it has comprised also investigations of such closely allied subjects as irrigation, water storage, water powers, underground waters, and quality of waters. Most of the results of these investigations have been published in the series of water-supply papers, but some have appeared in the bulletins, professional papers, monographs, and annual reports.

The results of stream-flow measurements are now published, annually in 12 parts, each part covering an area whose boundaries coincide with natural drainage features as indicated below:

Part I. North Atlantic slope basins (St. John River to York River).

II. South Atlantic slope and eastern Gulf of Mexico basins (James River to the Mississippi).

III. Ohio River Basin.

IV. St. Lawrence River Basin.

V. Upper Mississippi River and Hudson Bay Basins.

VI. Missouri River Basin.

VII. Lower Mississippi River Basin.

VIII. Western Gulf of Mexico basins.

IX. Colorado River Basin.

X. The Great Basin.

XI. Pacific slope basins in California.

XII. North Pacific slope basins, in three parts.

A, Pacific slope basins in Washington and upper Columbia River Basin.

B, Snake River Basin.

C, Pacific slope basins in Oregon and lower Columbia River Basin.

Water-supply papers and other publications of the United States 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 list 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, Me., Statehouse.

Boston, Mass., 2500 Customhouse.

Hartford, Conn., 60 Washington Street.

Albany, N. Y., 506 Broadway-Arcade Building.

Trenton, N. J., 710 Trenton Trust Building.

Charlottesville, Va., Brooks Museum, University of Virginia.

South Charleston, W. Va., Naval Ordnance Plant.

Asheville, N. C., 210 Post Office Building.

Chattanooga, Tenn., 630 Power Building.

Tuscaloosa, Ala., Post Office Building.

Columbus, Ohio, Engineering Experiment Station, Ohio State University.

Chicago, Ill., 1503 Consumers Building.

Madison, Wis., 337N State Capitol.

St. Paul, Minn., 202 Old State Capitol.

Topeka, Kans., 23 Federal Building.

Rolla, Mo., Rolla Building, School of Mines and Metallurgy.

Fort Smith, Ark., Post Office Building.

Austin, Tex., State Capitol.

Tucson, Ariz., 210 Post Office Building.

Denver, Colo., 403 Post Office Building.

Salt Lake City, Utah, 313 Federal Building.

Idaho Falls, Idaho, 228 Federal Building.

Boise, Idaho, Federal Building.

Helena, Mont., 416 Power Block.

Tacoma, Wash., 406 Federal Building.

Portland, Oreg., 606 Post Office Building.

San Francisco, Calif., 303 Customhouse.

Los Angeles, Calif., 751 South Figueroa Street, room 510.

Honolulu, Hawaii, Territorial Office Building.

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

Stream-flow records have been obtained at more than 5,330 points in the United States, and the data obtained have been published in the reports tabulated on pages 7 and 8.

Stream-flow data reports of the United States 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	Mean discharge in second-feet	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871 to 1893)	1888 to Dec. 31, 1893.
B 131	Descriptions, measurements, gage heights, and ratings	1893 and 1904.
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 and 1906.
W 15	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas.	1897.
W 16	Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte, 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, p. 4	Monthly discharge	1899.
W 47 to 52	Descriptions, measurements, gage heights, and ratings	1900.
22d A, pt. 4	Monthly discharge	1900.
W 55, 66	Descriptions, measurements, gage heights, and ratings	1901.
W 75	Monthly discharge	1901.
W 82 to 85	Complete data	1902.
W 97 to 100	do.	1903.
W 124 to 135	do.	1904.
W 165 to 178	do.	1905.
W 201 to 214	do.	1906.
W 241 to 252	do.	1907-8.
W 261 to 272	do.	1908.
W 281 to 292	do.	1910.
W 301 to 312	do.	1911.
W 321 to 332	do.	1912.
W 351 to 362	do.	1913.
W 381 to 394	do.	1914.
W 401 to 414	do.	1915.
W 431 to 444	do.	1916.
W 451 to 464	do.	1917.
W 471 to 484	do.	1918.
W 501 to 514	do.	1919-20.
W 521 to 534	do.	1921.
W 541 to 554	do.	1922.
W 561 to 574	do.	1923.
W 581 to 594	do.	1924.
W 601 to 614	do.	1925.
W 621 to 634	do.	1926.
W 641 to 654	do.	1927.

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 reports containing records obtained prior to 1904 has been published in Water-Supply Paper 119.

The following table gives, by years and drainage basins, the numbers of the papers on surface-water supply published from 1899 to 1927. The data for any particular station will be found in the reports covering the years during which the station was maintained. For example, data from 1910 to 1920 for any station in the area covered by Part III 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.

Numbers of water-supply papers containing results of stream measurements, 1899-1927

[For basins included see p. 6]

Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII-A	XII-B	XII-C
1899 ^a	35	35, 36	36	36	36	36, 37	37	37	37, 38	38, 39	37, 39	33	38	38
1900 ^a	47, 48	45	48, 49	49	49	49, 50	50	50	50	51	51	51	51	51
1901	65, 75	65, 75	65, 75	65, 75	65, 75	65, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902	82	82, 83	83	83	83	84	84	84	85	85	85	85	85	85
1903	97	97, 98	98	98	98	99	99	99	100	100	100	100	100	100
1904	124, 125, 126	126, 127	128	129	128, 130	130, 131	128, 131	132	133	133, 134	134	135	135	135
1905	165, 166, 167	167, 168	169	170	171	172	169, 173	174	175, 177	176, 177	177	178	178	177, 178
1906	201, 202, 203	203, 204	205	206	207	208	205, 209	210	211, 213	212, 213	213	214	214	214
1907-8	241	242	243	244	245	246	247	248	249	250, 251	251	252	252	252
1909	261	262	263	264	265	266	267	268	269	270, 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

^a Rating tables and index to Water-Supply Papers 35-39 contained in Water-Supply Paper 39. Tables of monthly discharge for 1899 in Twenty-first Annual Report, Part IV.

^b James River only.

^c Gallatin River.

^d Green and Gunnison Rivers and Grand River above junction with Gunnison.

^e Mohave River only.

^f Kings and Kerns 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.

^h Tables of monthly discharge for 1900 in Twenty-second Annual Report, Part IV.

ⁱ Wissahickon and Schuylkill Rivers to James River.

^j Scioto River.

^k Loup and Platte Rivers near Columbus, Nebr., and all tributaries below junction with Platte.

^l Tributaries of Mississippi 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 York River, inclusive.

^r Platte and Kansas Rivers.

^s Great Basin in California except Truckee and Carson River Basins.

^t Below junction with Gila.

^u Rogue, Umpqua, and Siletz Rivers only.

COOPERATION

The work in Virginia and North Carolina was carried on under cooperative agreements between the United States Geological Survey and the respective States. In Virginia the work was carried on in cooperation with the Virginia Geological Survey, Wilbur A. Nelson, director. In North Carolina the work was carried on in cooperation with the North Carolina Department of Conservation and Development.

Financial assistance was also rendered by the following municipalities, corporations, and individuals: South Boston, Va.; Charlotte, N. C.; Raleigh, N. C.; Durham, N. C.; Crisp County, Ga.; Virginia Military Institute; Virginia Electric & Power Co.; Virginia Public Service Co.; Appalachian Electric Power Co.; Day & Zimmermann; J. R. Horsley; Daniel Welsh; Lexington Water Power Co.; Columbia Railway & Navigation Co.; Broad River Power Co.; Carolina Power & Light Co.; Roanoke River Power Co.; Tallahassee Power Co.; Georgia Railway & Power Co.; Cliffside Mills; Alabama Power Co.; B. H. Hardaway; Houston Power Co.; Columbus Electric & Power Co.; West Florida Power Co.; and Hill & Spencer.

DIVISION OF WORK

Data for stations in Virginia were collected and prepared for publication under the direction of J. J. Dirzulaitis, district engineer, assisted by O. D. Mussey, F. C. Christopherson, N. B. Usher, and Miss S. F. Norris.

Data for stations in North Carolina, South Carolina, and on Chattooga, Tugaloo, and Coosawattee Rivers in Georgia were collected and prepared for publication under the direction of E. D. Burchard, district engineer, assisted by J. H. Morgan, A. E. Johnson, Karl Jetter, L. J. Hall, F. M. Bell, H. W. Palm, H. A. Taylor, and Mrs. Effie T. Workman.

Data for stations in Alabama, Florida, and Georgia, except those for stations noted above, were collected and prepared for publication under the direction of W. R. King, district engineer, assisted by Warren Withee, P. E. Hanson, P. R. Speer, M. T. Thompson, Duncan Charlton, and Miss Mary Heird.

The records were reviewed and manuscript assembled by Otto Lauterhahn.

GAGING-STATION RECORDS

JAMES RIVER BASIN

JACKSON RIVER AT BARBER, VA.

LOCATION.—Chain gage on Smiths highway bridge, half a mile from Barber, Alleghany County, and half a mile below Falling Spring Creek.

DRAINAGE AREA.—409 square miles.

RECORDS AVAILABLE.—April, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 6,850 second-feet November 16 (gage height, 10.9 feet); minimum, 89 second-feet September 25 (gage height, 2.98 feet).

1925-1927: Maximum discharge, that of November 16, 1926; minimum, 72 second-feet August 28, 1925 (gage height, 2.80 feet).

Maximum stage known, about 25.6 feet March, 1913.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	170	340	542	930	870	990	2,070	2,160	236	137	182	158
2.....	208	310	542	760	760	814	1,430	1,800	222	236	170	147
3.....	374	295	520	706	656	706	1,290	1,170	295	236	170	170
4.....	374	266	462	656	564	610	1,430	990	295	182	444	170
5.....	357	236	426	610	990	520	1,430	870	280	147	325	126
6.....	340	236	408	564	2,550	520	1,360	760	266	126	266	147
7.....	280	222	374	444	1,890	480	1,360	656	266	137	325	137
8.....	236	208	374	391	1,360	542	1,500	564	251	147	310	126
9.....	208	222	391	374	1,110	814	2,160	542	251	170	340	126
10.....	182	1,110	564	357	930	760	2,450	480	236	170	542	126
11.....	170	760	706	340	870	656	2,250	462	236	158	391	137
12.....	147	520	656	462	760	564	1,720	444	208	170	340	195
13.....	147	462	1,290	266	760	520	1,170	408	208	170	295	147
14.....	158	408	1,500	325	870	610	1,290	391	280	158	280	147
15.....	147	814	1,110	408	814	706	1,290	391	310	195	236	137
16.....	137	6,070	870	325	760	656	1,170	374	310	195	195	117
17.....	147	3,530	656	310	760	610	1,110	357	280	251	195	119
18.....	158	1,800	410	310	656	564	930	357	251	208	222	119
19.....	170	1,500		357	4,130	520	1,050	357	236	195	222	119
20.....	182	1,430		340	2,760	480	2,250	340	251	170	251	100
21.....	340	990	500	610	1,980	462	1,890	310	236	122	340	98
22.....	310	1,230	2,980	706	1,640	444	3,530	310	222	182	564	100
23.....	374	760	1,890	706	2,450	408	2,550	325	222	295	564	100
24.....	480	564	1,360	656	3,420	391	1,720	340	222	195	357	98
25.....	3,090	610	1,230	656	2,980	357	1,290	310	208	170	280	91
26.....	1,500	564	5,420	610	2,650	340	1,050	280	222	147	280	100
27.....	870	480	2,870	500	1,430	325	930	280	182	126	251	98
28.....	610	500	1,890	426	1,230	310	814	266	170	126	236	102
29.....	480	500	1,640	520	-----	295	814	266	147	126	251	100
30.....	391	480	1,290	610	-----	280	1,230	251	147	137	236	102
31.....	340	-----	1,110	990	-----	280	-----	236	-----	147	195	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	3,090	137	422	1.03	1.19
November.....	6,070	208	914	2.23	2.49
December.....	5,420	374	1,120	2.74	3.16
January.....	990	266	523	1.28	1.48
February.....	4,130	564	1,520	3.72	3.87
March.....	990	280	533	1.30	1.50
April.....	3,530	814	1,550	3.79	4.23
May.....	2,160	236	550	1.34	1.54
June.....	310	147	238	.582	.65
July.....	295	122	172	.421	.49
August.....	564	170	299	.731	.84
September.....	195	91	125	.306	.34
The year.....	6,070	91	657	1.61	21.78

JAMES RIVER AT LICK RUN, VA.

LOCATION.—Chain gage on highway bridge at Lick Run, Botetourt County, three-fourths mile below junction of Cowpasture and Jackson Rivers.

DRAINAGE AREA.—1,370 square miles.

RECORDS AVAILABLE.—April, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 27,000 second-feet December 26 (gage height, 17.70 feet); minimum, 265 second-feet September 24–30.

1925–1927: Maximum discharge, that of December 26, 1926; minimum, 192 second-feet August 31, 1925 (gage height, 1.64 feet).

Flood of September, 1877, reached a stage of 29.1 feet, and that of March, 1913, reached a stage of 27.2 feet, determined by leveling to floodmarks.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	325	725	1,440	3,200	2,580	2,880	3,200	6,730	615	348	642	560
2	438	670	1,440	2,440	2,160	2,440	8,710	5,030	588	535	485	588
3	725	588	1,290	2,030	1,780	2,160	4,860	3,680	698	920	485	535
4	1,200	560	1,150	1,780	1,550	1,780	3,840	2,880	885	615	698	460
5	885	635	1,110	1,660	1,660	1,550	5,030	2,580	920	485	1,200	588
6	535	485	1,030	1,440	6,730	1,440	4,180	2,030	885	392	785	460
7	698	460	955	1,240	5,710	1,440	3,520	1,900	818	370	1,030	415
8	535	438	885	1,070	4,180	1,440	3,040	1,660	818	370	1,030	370
9	460	510	955	990	3,200	1,780	7,270	1,440	698	392	1,110	392
10	415	1,340	1,440	990	2,580	1,780	10,900	1,340	642	415	1,550	370
11	370	1,780	2,160	955	2,580	1,550	6,910	1,340	615	415	1,030	392
12	348	1,340	1,900	785	2,440	1,440	5,200	1,240	588	460	785	485
13	348	1,030	3,520	785	2,300	1,340	3,840	1,150	535	438	670	485
14	348	850	4,520	920	3,840	1,340	4,860	1,070	560	415	588	392
15	370	818	3,360	1,070	3,520	1,550	4,520	1,070	438	415	615	370
16	325	16,700	2,580	955	2,730	1,550	3,680	1,030	990	438	615	348
17	325	12,900	1,900	955	2,580	1,440	4,180	955	785	485	510	325
18	325	5,880	1,660	1,150	2,580	1,340	3,520	920	698	615	588	325
19	348	5,880	1,240	990	19,400	1,240	3,040	1,030	670	485	725	305
20	392	4,180	1,150	920	15,200	1,200	7,090	990	670	460	850	305
21	560	2,880	1,290	955	7,630	1,200	5,200	885	615	392	990	305
22	698	2,160	12,300	1,240	5,710	1,150	12,700	818	560	392	2,030	285
23	588	1,780	8,350	1,440	14,200	1,070	10,200	850	535	588	3,840	285
24	615	1,440	4,860	1,550	15,600	1,030	6,220	850	535	642	1,660	265
25	5,540	1,240	4,690	1,660	8,890	955	4,520	818	510	485	1,150	265
26	2,730	1,150	24,400	1,550	6,560	920	3,520	785	460	415	885	265
27	1,900	1,340	12,000	1,340	4,860	885	2,880	725	415	370	725	265
28	1,340	1,440	6,560	1,110	3,680	670	2,580	698	392	348	670	265
29	1,030	1,290	6,730	1,240	-----	615	2,030	670	370	325	698	265
30	850	1,340	5,030	1,660	-----	755	2,580	670	370	305	670	265
31	755	-----	3,840	2,730	-----	755	-----	642	-----	348	615	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,540	325	849	0.620	0.71
November	16,700	438	2,460	1.80	2.01
December	24,400	885	4,060	2.96	3.41
January	3,200	785	1,380	1.01	1.16
February	19,400	1,550	5,590	4.08	4.25
March	2,880	615	1,380	1.01	1.16
April	12,700	2,030	5,130	3.74	4.17
May	6,730	642	1,560	1.14	1.31
June	990	370	629	.459	.51
July	920	305	454	.331	.38
August	3,840	485	965	.704	.81
September	588	265	373	.272	.30
The year	24,400	265	2,040	1.49	20.18

JAMES RIVER AT BUCHANAN, VA.

LOCATION.—Water-stage recorder (chain gage prior to July 1, 1927) at highway bridge near Chesapeake & Ohio Railway station, Buchanan, Botetourt County.

DRAINAGE AREA.—2,080 square miles.

RECORDS AVAILABLE.—August, 1895, to September, 1927.

EXTREMES.—Maximum discharge during year, 31,400 second-feet December 27 (gage height, 14.2 feet); minimum, 400 second-feet October 1 and 2 (gage height, 1.9 feet).

1895-1927: Maximum discharge, not determined; maximum gage height, 31 feet March 27, 1913 (determined by levels from floodmarks); minimum discharge, 275 second-feet August 20-22 and September 12-14, 1900 (gage height, 1.7 feet). A discharge of 260 second-feet reported on April 17 and May 2, 1896, is subject to error owing to unreliability of record prior to 1898.

REMARKS.—Records fair to June 30 and excellent thereafter. Gage-height record October 1 to June 30 furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	400	1,670	2,090	6,650	3,080	5,580	1,210	3,080	1,11C	690	992	1,240
2-----	400	1,540	2,090	6,000	3,080	4,980	1,210	3,080	1,11C	732	1,010	1,090
3-----	450	1,540	1,950	5,380	3,080	4,380	1,210	2,730	1,11C	1,430	856	1,080
4-----	1,190	1,540	1,950	4,980	2,900	4,000	1,210	2,730	1,11C	1,600	1,000	1,000
5-----	1,090	1,420	1,810	4,780	2,900	3,810	1,320	2,560	1,11C	1,010	1,550	912
6-----	1,000	1,420	1,810	4,380	4,190	3,620	1,950	2,400	1,11C	808	1,430	956
7-----	1,000	1,420	1,680	3,810	4,190	3,440	2,240	2,400	1,11C	762	1,290	856
8-----	915	1,300	1,680	3,440	4,000	3,440	2,240	2,240	1,430	700	1,880	800
9-----	830	1,300	1,680	3,080	4,000	3,260	2,730	2,240	1,320	718	2,090	776
10-----	750	1,300	1,950	2,900	3,810	3,260	17,400	2,240	1,21C	732	2,090	792
11-----	680	1,420	1,810	2,560	3,810	3,080	14,600	2,090	1,11C	732	1,810	776
12-----	615	1,300	1,810	2,560	3,620	2,900	12,800	2,090	1,11C	732	1,360	792
13-----	680	1,190	2,090	2,560	3,620	2,900	10,400	2,090	1,11C	768	1,120	808
14-----	750	1,090	1,950	2,900	5,790	2,730	8,050	2,090	1,43C	776	992	840
15-----	680	1,090	1,950	2,730	5,580	2,730	6,430	1,950	1,55C	753	947	792
16-----	615	7,000	1,950	2,560	4,780	2,560	4,980	1,950	1,21C	808	974	739
17-----	615	31,400	1,810	2,400	4,580	2,400	4,000	1,810	1,11C	832	938	690
18-----	615	12,300	1,810	2,400	5,790	2,240	3,260	1,810	1,11C	1,310	1,580	648
19-----	615	7,810	1,680	2,400	20,900	2,090	3,620	1,680	1,01C	1,330	1,390	620
20-----	555	7,570	1,680	2,400	30,700	1,950	4,580	1,550	1,01C	1,230	3,900	596
21-----	555	6,650	1,680	2,240	27,700	1,810	9,050	1,550	1,01C	1,120	4,190	590
22-----	555	5,580	16,200	2,240	20,900	1,680	15,600	1,430	92C	1,050	6,290	578
23-----	555	4,380	12,300	2,240	17,700	1,680	20,900	1,320	92C	1,060	7,820	566
24-----	830	2,900	11,700	2,240	29,400	1,550	16,800	1,210	84C	1,640	4,280	560
25-----	1,300	2,560	9,310	2,400	17,700	1,550	10,600	1,210	84C	1,120	2,820	554
26-----	2,520	2,560	28,700	2,400	9,310	1,550	8,300	1,210	76C	904	2,090	548
27-----	2,220	3,080	30,700	2,400	7,330	1,430	6,000	1,210	76C	816	1,670	542
28-----	2,080	2,730	17,700	2,400	6,000	1,430	4,190	1,210	69C	739	1,430	542
29-----	1,940	2,400	17,100	2,730	-----	1,320	3,260	1,210	69C	739	1,410	530
30-----	1,800	2,090	14,300	3,080	-----	1,320	3,260	1,110	69C	725	1,380	524
31-----	1,800	-----	8,800	3,080	-----	1,210	-----	1,110	-----	904	1,130	-----
Month	Maximum				Minimum				Mean	Per square mile	Run-off in inches	
October-----	2,520				400				987	0.475	0.55	
November-----	31,400				1,090				4,050	1.95	2.13	
December-----	30,700				1,680				6,640	3.19	3.68	
January-----	6,650				2,240				3,170	1.52	1.75	
February-----	30,700				2,900				9,300	4.47	4.66	
March-----	5,580				1,210				2,640	1.27	1.46	
April-----	20,900				1,210				6,780	3.26	3.64	
May-----	3,080				1,110				1,890	.909	1.05	
June-----	1,550				690				1,050	.505	.56	
July-----	1,640				690				947	.455	.52	
August-----	7,820				856				2,060	.990	1.14	
September-----	1,240				524				745	.358	.40	
The year-----	31,400				400				3,310	1.59	21.59	

JAMES RIVER AT SALT CREEK, VA.

LOCATION.—Water-stage recorder at Bald Eagle dam site, three-fourths mile above Salt Creek post office, Amherst County, 2½ miles below Pedlar River.

DRAINAGE AREA.—3,250 square miles.

RECORDS AVAILABLE.—December, 1926, to September, 1927.

EXTREMES.—Maximum discharge during the period, December 3, 1926, to September 30, 1927, about 45,000 second-feet December 27 (gage height, 14.51 feet); minimum, 520 second-feet September 26 (gage height, 1.80 feet). Maximum stage known, about 29 feet November, 1877, and March, 1913.

REMARKS.—Records excellent. Operations at the numerous dams upstream cause diurnal fluctuations at the gage.

Daily and monthly discharge, in second-feet, 1926-27

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....		7,500	4,730	7,050	2,500	6,900	1,470	870	1,560	2,000
2.....		6,000	4,340	6,000	11,600	9,680	1,460	900	1,650	1,670
3.....	2,720	5,270	3,970	5,410	10,700	7,500	1,480	1,240	1,470	1,580
4.....	2,620	4,600	3,610	4,860	7,500	6,150	1,620	1,920	1,750	1,470
5.....	2,260	4,220	2,210	4,220	6,150	5,270	1,700	1,440	1,920	1,390
6.....	2,440	3,850	4,750	3,850	5,850	4,730	2,060	1,140	2,340	1,400
7.....	2,210	3,380	8,730	3,850	6,600	4,090	1,900	981	2,380	1,390
8.....	2,060	2,930	7,200	3,730	6,150	3,730	1,750	1,060	2,620	1,230
9.....	1,860	2,520	5,700	3,610	8,860	3,610	1,700	1,190	3,380	1,410
10.....	2,130	2,720	4,730	3,730	21,600	3,260	1,580	950	2,520	1,770
11.....	2,930	2,420	4,340	3,730	16,000	3,150	1,500	1,230	2,620	1,340
12.....	3,730	2,130	4,340	3,500	11,300	3,150	1,200	992	2,130	1,280
13.....	4,220	2,000	4,220	3,150	8,730	2,820	1,480	960	1,730	1,240
14.....	6,450	1,950	5,410	3,150	8,110	2,620	1,800	981	1,700	1,230
15.....	6,450	2,460	7,350	3,260	8,730	2,520	2,420	992	1,910	1,240
16.....	5,270	2,260	6,300	3,380	7,500	2,620	2,170	1,020	1,530	1,150
17.....	4,220	2,210	5,560	3,380	6,750	2,420	1,970	1,010	1,440	960
18.....	3,380	2,380	5,410	3,260	6,450	2,300	1,700	1,670	2,830	842
19.....	5,410	2,620	22,900	3,150	7,200	2,300	1,390	1,780	2,480	1,020
20.....	2,620	2,420	35,500	2,930	7,170	2,280	1,640	2,150	5,060	885
21.....	2,520	2,280	20,600	3,040	10,300	2,170	1,410	1,460	7,000	851
22.....	8,880	2,210	14,000	2,930	25,300	1,760	1,290	1,470	5,950	851
23.....	20,000	2,400	20,300	2,720	26,100	1,990	1,250	1,830	9,600	784
24.....	10,900	2,820	34,300	2,620	15,600	1,750	1,230	1,600	5,900	784
25.....	9,700	2,930	22,500	2,500	10,700	1,920	1,070	1,670	3,850	748
26.....	33,600	3,040	14,600	2,380	8,420	1,990	1,020	1,390	3,040	584
27.....	35,500	2,930	11,000	2,040	7,050	1,730	910	1,040	2,500	860
28.....	16,500	2,620	8,730	2,320	6,150	1,640	981	970	2,110	757
29.....	13,800	2,620	-----	2,040	5,410	1,400	890	970	2,130	660
30.....	12,400	2,930	-----	1,880	5,130	1,730	739	981	2,040	721
31.....	9,040	3,850	-----	1,900	-----	1,560	-----	1,920	1,830	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
December 3-31.....	35,500	1,860	8,130	2.50	2.70
January.....	7,500	1,950	3,110	.957	1.10
February.....	35,500	2,210	10,600	3.26	3.40
March.....	7,050	1,880	3,410	1.05	1.21
April.....	26,100	2,500	9,850	3.03	3.38
May.....	9,680	1,400	3,250	1.00	1.15
June.....	2,420	739	1,490	.458	.51
July.....	2,150	870	1,280	.394	.45
August.....	9,600	1,410	2,930	.902	1.04
September.....	2,000	584	1,140	.351	.39

JAMES RIVER AT BENT CREEK, VA.

LOCATION.—Chain gage on highway bridge at Bent Creek, Appomattox County, 50 feet below Bent Creek and 1 mile below Gladstone.

DRAINAGE AREA.—3,670 square miles.

RECORDS AVAILABLE.—March, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 48,800 second-feet December 27 (gage height, 14.58 feet); minimum, 552 second-feet October 18 (gage height, 2.63 feet).

1925-1927: Maximum discharge, that of December 27, 1926; minimum, 350 second-feet August 31, 1925 (gage height, 2.35 feet).

REMARKS.—Records above 1,200 second-feet, good; others, fair. Discharge estimated November 16, 17, August 21, and 22. Considerable fluctuation at low stages caused by operation of power plants upstream.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	932	1,450	3,370	8,800	4,690	7,580	2,760	5,900	1,890	865	2,360	2,170
2-----	865	1,540	3,370	6,990	4,920	6,160	8,800	11,200	1,890	1,070	1,710	2,360
3-----	932	1,450	3,160	5,900	4,240	5,900	13,600	8,800	1,980	1,450	1,890	1,710
4-----	865	1,220	2,960	5,160	3,800	5,400	9,120	6,990	1,980	1,980	1,450	1,710
5-----	1,290	1,140	2,560	4,690	3,580	4,920	7,580	5,900	1,980	2,170	2,460	1,800
6-----	2,360	1,220	2,560	4,240	5,900	4,460	9,120	5,400	2,080	1,450	2,170	1,290
7-----	1,980	1,140	2,360	4,020	9,770	4,460	7,880	4,920	2,360	1,220	2,960	1,540
8-----	1,450	865	2,360	3,800	8,180	4,240	6,990	4,240	2,170	1,290	2,460	1,450
9-----	932	1,450	1,980	3,160	6,430	4,020	7,880	4,690	2,080	1,450	4,460	1,220
10-----	1,000	1,540	2,080	3,160	5,400	4,240	22,400	4,240	2,170	2,960	4,020	2,080
11-----	752	2,260	2,460	2,960	4,690	4,240	19,800	4,920	1,890	1,620	2,760	1,620
12-----	1,000	3,160	4,020	2,560	4,690	4,020	13,600	3,580	1,710	1,980	2,760	1,540
13-----	1,000	2,360	4,020	2,560	4,690	3,800	10,400	3,370	1,540	1,220	2,170	1,370
14-----	1,290	2,260	5,900	2,560	5,160	3,580	8,800	3,370	2,170	1,290	2,080	1,370
15-----	1,140	1,540	6,990	2,760	7,580	3,370	9,440	2,960	1,980	1,370	2,460	2,260
16-----	932	7,000	5,900	2,760	6,990	3,800	8,800	3,160	3,580	1,290	1,980	790
17-----	932	20,000	4,920	2,960	6,160	3,800	8,180	2,960	2,260	1,140	1,620	1,070
18-----	728	17,600	4,240	2,560	5,650	3,580	8,490	2,960	2,170	1,710	2,080	1,070
19-----	1,140	12,600	3,160	2,960	14,000	3,580	7,280	2,960	1,980	1,980	3,580	1,070
20-----	865	10,100	3,370	2,960	43,400	2,960	7,280	2,760	1,890	3,160	3,370	1,220
21-----	865	6,990	2,960	2,760	22,900	3,800	10,400	2,760	1,890	2,080	6,000	1,000
22-----	1,000	5,650	4,460	2,560	16,800	3,370	21,600	2,760	1,710	1,800	7,500	1,070
23-----	932	4,690	23,400	2,560	18,000	3,160	31,000	1,800	1,540	2,460	10,800	840
24-----	1,370	3,580	14,400	3,160	37,400	3,160	18,800	2,360	1,450	2,080	8,180	1,000
25-----	1,710	3,160	11,800	3,160	26,300	2,960	12,900	2,170	1,450	1,710	4,920	932
26-----	2,560	2,960	31,000	3,580	17,600	2,560	9,770	2,360	1,620	1,710	3,800	865
27-----	5,900	3,370	46,400	3,370	12,900	2,760	8,490	2,260	1,220	1,620	3,370	790
28-----	3,580	3,370	21,600	3,160	10,400	2,170	6,900	2,080	1,070	1,140	2,560	1,140
29-----	2,760	3,370	16,400	2,960	-----	2,460	6,160	2,360	1,070	1,220	2,360	932
30-----	1,710	3,580	14,800	3,160	-----	2,260	5,650	1,540	1,000	1,290	2,460	865
31-----	1,710	-----	9,120	3,580	-----	2,260	-----	2,360	-----	2,560	2,260	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October-----	5,900	728	1,500	0.409	0.47
November-----	-----	865	4,420	1.20	1.34
December-----	46,400	1,980	8,650	2.36	2.72
January-----	8,800	2,560	3,600	.981	1.13
February-----	43,400	3,580	11,500	3.13	3.26
March-----	7,580	2,170	3,840	1.05	1.21
April-----	31,000	2,760	11,000	3.00	3.35
May-----	11,200	1,540	3,870	1.05	1.21
June-----	3,580	1,000	1,850	.504	.56
July-----	3,160	865	1,690	.460	.53
August-----	10,800	1,450	3,390	.924	1.07
September-----	2,360	790	1,340	.365	.41
The year-----	46,400	728	4,670	1.27	17.26

JAMES RIVER AT SCOTTSVILLE, VA.

LOCATION.—Chain gage on highway bridge at Scottsville, Albemarle County, 7 miles above Hardware River.

DRAINAGE AREA.—4,570 square miles.

RECORDS AVAILABLE.—February, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 41,900 second-feet February 20 (gage height, 15.68 feet); minimum, 665 second-feet September 17 (gage height, 2.00 feet).

1925-1927: Maximum discharge, 42,300 second-feet January 20, 1926 (gage height, 15.8 feet); minimum, 400 second-feet September 30, 1925 (gage height, 1.62 feet).

REMARKS.—Records good except those for low stages, which are fair. Considerable fluctuation at low stages owing to regulation at plants above gage.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,020	2,026	3,820	11,300	4,330	10,000	3,480	6,810	2,280	1,290	3,320	2,560
2	1,120	2,020	3,990	8,320	3,820	8,320	5,360	8,840	2,280	1,020	2,560	2,280
3	1,180	1,760	4,160	7,840	5,180	7,000	16,300	14,200	2,420	1,240	1,890	2,700
4	1,180	1,760	3,820	6,620	4,840	6,620	11,300	7,620	2,560	1,400	2,700	2,560
5	1,290	1,520	3,650	5,900	4,670	5,720	8,580	7,000	2,420	2,020	2,150	2,020
6	2,020	1,400	3,160	5,360	4,330	5,540	8,320	6,260	2,280	2,150	3,130	2,020
7	2,280	1,290	3,320	5,010	5,900	5,180	7,620	5,900	2,560	1,640	2,700	1,520
8	2,020	1,460	3,160	4,160	8,840	5,180	7,620	5,540	2,700	1,640	3,130	1,640
9	1,520	1,520	2,850	4,160	7,400	5,010	8,840	5,540	2,420	1,890	3,650	2,020
10	1,400	2,280	3,000	3,480	6,260	4,840	17,000	4,500	2,420	3,000	4,500	2,150
11	1,240	2,150	3,000	3,480	5,540	4,840	24,800	4,330	2,280	3,320	3,320	2,850
12	960	1,890	3,320	3,480	5,180	4,840	16,700	4,330	2,150	2,020	3,000	2,280
13	1,240	3,160	4,500	2,850	5,180	4,670	12,600	3,990	2,020	2,020	2,700	1,890
14	1,640	2,420	5,900	3,160	5,360	4,500	10,300	3,820	2,020	1,520	2,200	1,760
15	1,460	2,560	7,200	3,160	6,620	4,500	9,400	3,650	2,700	1,340	2,800	1,640
16	1,340	5,180	6,810	3,160	7,620	4,330	10,300	3,160	3,000	1,290	2,560	2,560
17	1,070	26,000	6,080	2,850	6,810	4,330	8,320	3,820	2,850	1,400	2,200	908
18	1,070	30,000	5,180	3,820	6,260	4,330	7,840	3,650	2,560	1,460	2,150	1,460
19	1,070	18,500	4,160	3,320	6,440	4,330	8,320	3,820	2,560	1,890	3,600	1,340
20	1,290	13,200	3,820	3,650	37,700	4,160	7,620	3,160	2,280	3,000	3,650	1,340
21	1,070	10,000	3,650	3,480	33,200	3,990	8,080	3,000	2,020	3,480	7,200	1,290
22	1,120	7,400	4,500	3,320	22,400	4,500	15,600	3,160	1,890	2,020	7,800	1,180
23	1,120	6,080	21,600	3,160	19,300	3,820	27,600	2,280	1,890	3,480	6,600	1,240
24	1,070	5,010	15,200	3,320	30,000	3,820	26,800	2,700	1,640	2,560	9,700	1,070
25	2,020	4,330	21,200	3,650	33,200	3,650	17,800	2,420	1,760	2,150	6,200	1,020
26	2,280	3,990	29,200	3,820	25,200	3,480	12,600	3,000	1,520	2,420	4,670	1,070
27	5,720	4,840	38,100	3,990	16,300	3,160	9,400	3,650	1,460	2,150	3,900	960
28	4,840	4,500	30,800	3,820	12,600	3,000	8,320	2,420	1,340	1,640	3,400	1,020
29	4,670	3,650	23,600	3,820	-----	3,160	7,400	2,280	1,240	1,340	2,560	1,180
30	2,560	3,820	17,800	3,820	-----	3,000	7,000	2,560	1,180	1,400	2,700	1,120
31	2,420	-----	13,900	3,990	-----	2,850	-----	2,280	-----	2,560	2,560	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,720	960	1,820	0.398	0.46
November	30,000	1,290	5,860	1.28	1.43
December	38,100	2,850	9,820	2.15	2.48
January	11,300	2,850	4,350	.952	1.10
February	37,700	3,820	12,200	2.67	2.78
March	10,000	2,850	4,730	1.04	1.20
April	27,600	3,480	11,700	2.56	2.86
May	14,200	2,280	4,150	.987	1.14
June	3,000	1,180	2,160	.473	.53
July	3,480	1,020	1,990	.435	.50
August	9,700	1,890	3,740	.818	.94
September	2,850	908	1,690	.370	.41
The year	38,100	908	5,320	1.16	15.83

JAMES RIVER AT CARTERSVILLE, VA.

LOCATION.—Water-stage recorder (chain gage prior to June 4, 1927) at highway bridge between Pemberton and Cartersville, Cumberland County, 1 mile below Willis River.

DRAINAGE AREA.—6,240 square miles.

RECORDS AVAILABLE.—January, 1899, to September, 1927.

EXTREMES.—Maximum discharge during year, 49,800 second-feet December 28 (gage height, 16.2 feet); minimum, 1,150 second-feet September 18 (gage height, 0.85 foot.)

1899-1927: Maximum discharge, about 106,000 second-feet December 30, 1901 (gage height, 26.7 feet); minimum discharge not determined; minimum gage height, 0.33 foot October 27, 1921.

REMARKS.—Records good. Discharge estimated April 8 and 9. Fluctuation at low water owing to regulation at different points on James River and tributaries.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1,380	2,770	5,720	15,000	5,340	13,500	4,480	9,460	3,130	1,540	4,480	3,400
2.....	1,600	2,420	5,530	12,600	5,920	11,400	7,800	9,710	2,950	1,470	5,440	3,130
3.....	1,740	2,420	5,150	9,960	6,520	9,710	16,900	13,800	2,770	1,400	3,490	3,040
4.....	1,860	2,250	4,960	8,960	5,920	8,720	15,300	11,100	3,490	1,480	4,720	3,130
5.....	1,790	2,130	4,680	8,020	5,720	8,020	12,600	9,460	3,310	1,910	4,400	2,420
6.....	1,910	2,050	4,390	7,360	5,530	7,360	12,300	8,250	3,130	2,500	3,310	2,420
7.....	2,080	1,760	4,300	6,520	5,720	6,940	12,600	7,800	3,040	2,420	3,130	2,340
8.....	2,770	1,940	4,210	5,720	6,120	6,730	12,500	7,150	3,040	2,110	3,760	1,980
9.....	2,180	1,720	4,030	5,340	8,720	6,520	13,500	6,730	3,310	2,340	4,030	2,180
10.....	2,100	5,150	3,850	4,960	8,250	6,120	21,800	6,520	3,040	5,540	5,680	3,490
11.....	2,060	4,580	3,850	4,580	7,360	6,320	26,400	5,920	2,770	8,840	5,210	3,040
12.....	1,500	3,310	3,760	4,480	6,520	6,320	22,200	5,340	2,950	4,780	3,670	3,670
13.....	1,300	4,030	4,960	4,390	6,120	6,120	17,200	5,340	2,500	3,760	3,670	2,860
14.....	1,710	4,390	6,320	4,480	6,320	5,920	13,800	4,960	2,500	2,590	3,130	2,250
15.....	2,150	4,030	8,020	5,150	7,150	6,120	12,600	4,960	3,490	2,680	3,790	2,150
16.....	1,710	12,600	8,960	4,580	9,460	5,720	12,900	4,480	3,940	2,130	4,300	2,080
17.....	1,760	30,600	7,360	4,030	8,960	5,720	12,000	4,480	3,760	2,060	3,220	2,500
18.....	1,660	43,500	6,320	4,580	8,020	5,720	10,800	4,480	3,310	1,910	2,680	1,320
19.....	1,370	33,500	5,340	4,480	7,580	5,530	10,200	4,120	3,220	2,470	4,780	1,640
20.....	1,170	21,400	4,580	4,680	8,960	5,530	9,960	4,030	3,040	2,780	5,720	2,340
21.....	1,300	16,200	4,300	4,580	43,500	5,150	9,960	4,120	2,680	5,530	8,300	2,340
22.....	1,430	11,100	6,520	4,390	30,600	5,720	18,000	3,940	2,590	3,940	10,800	1,860
23.....	1,420	8,720	10,200	4,210	26,000	5,530	39,900	3,940	2,420	3,580	8,250	1,570
24.....	1,450	7,150	19,700	4,210	32,000	4,960	34,300	3,130	2,250	4,120	11,300	1,570
25.....	3,130	6,120	17,600	4,300	42,700	4,770	22,500	3,670	2,060	3,310	9,440	1,400
26.....	4,300	4,960	40,700	4,480	30,900	4,480	17,200	3,760	2,080	2,680	6,520	1,380
27.....	4,480	6,730	48,400	4,680	22,200	4,030	13,500	3,670	1,980	3,280	5,150	1,370
28.....	5,920	6,320	46,200	4,680	17,200	3,940	11,400	3,400	1,740	3,450	4,580	1,320
29.....	4,770	5,720	33,900	4,770	-----	3,850	9,960	3,220	1,590	2,220	3,400	1,260
30.....	3,580	5,340	24,200	4,680	-----	3,850	9,210	3,220	1,720	1,860	3,310	1,380
31.....	3,040	-----	20,000	4,680	-----	3,850	-----	3,040	-----	3,010	3,220	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	5,920	1,170	2,280	0.365	0.42
November.....	43,500	1,720	8,830	1.42	1.58
December.....	48,400	3,760	12,200	1.96	2.26
January.....	15,000	4,030	5,790	.928	1.07
February.....	43,500	5,340	13,800	2.21	2.30
March.....	13,500	3,850	6,260	1.00	1.15
April.....	39,900	4,480	15,500	2.48	2.77
May.....	13,800	3,040	5,720	.917	1.06
June.....	8,940	1,590	2,810	.450	.50
July.....	3,940	1,400	3,050	.489	.56
August.....	11,300	2,680	5,060	.811	.94
September.....	3,670	1,260	2,230	.357	.40
The year.....	48,400	1,170	6,890	1.10	15.01

COWPASTURE RIVER NEAR CLIFTON FORGE, VA.

LOCATION.—Chain gage on iron highway bridge $1\frac{1}{2}$ miles above junction with Jackson River and 4 miles southeast of Clifton Forge, Alleghany County.

DRAINAGE AREA.—456 square miles.

RECORDS AVAILABLE.—May, 1907, to August, 1908, and March, 1925 to September, 1927. Gage used 1907-8 not at present gage datum.

EXTREMES.—Maximum discharge during year, about 6,960 second-feet December 26 (gage height, 10.0 feet); minimum, 67 second-feet July 17 (gage height, 1.98 feet).

1907-8, 1925-1927: Maximum discharge not determined; maximum gage height, 10.0 feet, on previous gage, June 14, 1907; maximum discharge on present gage is that of December 26, 1926; minimum, 50 second-feet August 14, 1926 (gage height, 1.82 feet).

Flood of March, 1913, reached a stage of 20.8 feet (present datum) determined by leveling to high-water mark.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	156	243	528	890	890	890	1,180	1,260	185	88	99	260
2.....	210	243	502	760	729	760	2,480	1,580	173	130	110	243
3.....	260	207	451	638	582	698	1,340	1,100	161	191	122	243
4.....	582	182	426	555	528	528	1,180	824	179	197	142	223
5.....	402	167	379	502	476	476	1,420	729	191	161	243	207
6.....	316	166	358	451	2,190	476	1,580	610	207	134	260	197
7.....	297	150	336	426	1,580	451	1,180	528	220	124	278	204
8.....	260	161	316	358	1,180	451	960	502	210	114	476	194
9.....	207	197	316	336	960	528	2,280	476	197	105	502	185
10.....	179	226	336	297	760	451	3,280	426	185	103	502	167
11.....	164	226	451	243	698	402	1,740	476	173	110	502	156
12.....	150	213	668	200	698	379	1,420	402	161	105	402	145
13.....	140	197	960	223	792	379	1,420	358	150	97	316	134
14.....	134	297	1,100	226	1,180	402	1,580	297	610	88	297	124
15.....	124	1,580	890	207	1,030	451	1,420	297	336	80	278	114
16.....	117	3,990	760	316	824	476	1,180	316	316	72	260	88
17.....	124	3,880	528	358	698	451	1,260	297	297	68	243	80
18.....	130	1,920	502	379	638	451	1,100	316	278	78	243	76
19.....	145	1,580	402	358	4,430	426	960	297	226	88	426	88
20.....	150	1,500	358	316	3,280	402	1,100	260	210	97	528	97
21.....	145	960	760	336	1,920	379	1,420	243	194	132	555	88
22.....	167	792	2,280	379	1,580	358	4,210	260	179	150	582	80
23.....	167	555	2,010	476	3,280	358	2,880	316	167	188	610	72
24.....	161	502	1,260	555	3,680	316	1,740	243	156	210	638	80
25.....	379	476	1,340	638	2,580	297	1,180	226	145	191	668	88
26.....	1,100	426	6,740	582	2,010	278	1,340	216	134	150	698	97
27.....	638	426	3,180	502	1,500	278	857	204	124	140	638	101
28.....	502	451	2,010	402	1,100	260	760	191	114	130	297	92
29.....	379	476	1,830	451	-----	243	698	194	105	120	316	84
30.....	297	502	1,260	582	-----	243	824	207	97	110	297	92
31.....	297	-----	1,100	1,030	-----	226	-----	197	-----	101	278	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	1,100	117	274	0.601	0.69
November.....	3,990	150	763	1.67	1.86
December.....	6,740	316	1,110	2.43	2.80
January.....	1,030	200	451	.989	1.14
February.....	4,430	476	1,490	3.27	3.40
March.....	890	226	425	.932	1.07
April.....	4,210	698	1,530	3.36	3.75
May.....	1,580	191	447	.980	1.13
June.....	610	97	203	.445	.50
July.....	210	68	124	.272	.31
August.....	698	99	381	.836	.96
September.....	260	72	137	.300	.33
The year.....	6,740	68	604	1.32	17.94

CRAIG CREEK AT PARR, VA.

LOCATION.—Chain gage on Chesapeake & Ohio Railway bridge 600 feet from Parr, Botetourt County.

DRAINAGE AREA.—331 square miles.

RECORDS AVAILABLE.—April, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 11,200 second-feet December 26 (gage height, 12.6 feet); minimum, 48 second-feet October 12 (gage height, 3.60 feet).

1925-1927: Maximum discharge, that of December 26, 1926; minimum, 36 second-feet September 11, 1925 (gage height, 3.45 feet).

REMARKS.—Records good. Discharge estimated January 17 and 18 because of ice effect.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug.	Sept.
1.....	52	96	319	900	344	677	394	616	132	65	233	182
2.....	56	108	310	708	344	616	1,560	557	117	72	168	161
3.....	82	85	273	586	319	557	900	500	137	368	137	137
4.....	68	79	255	528	301	472	803	472	221	247	137	132
5.....	65	76	238	472	301	419	900	446	251	140	148	126
6.....	59	73	229	419	319	394	803	394	264	108	126	108
7.....	54	73	205	344	368	394	677	368	243	94	119	96
8.....	52	72	189	310	344	394	616	344	247	92	126	92
9.....	51	79	201	282	344	419	1,470	314	213	85	158	89
10.....	50	121	301	273	319	419	3,430	296	185	85	161	85
11.....	50	213	557	255	344	394	1,950	278	168	85	119	112
12.....	48	168	472	186	344	368	1,380	264	154	117	99	103
13.....	54	143	646	182	368	368	970	238	168	110	90	129
14.....	60	129	835	238	1,040	368	970	225	189	94	85	99
15.....	70	186	646	255	970	394	900	238	221	89	87	89
16.....	89	5,310	528	197	771	368	835	229	197	70	80	85
17.....	66	1,650	446	290	708	368	803	213	168	394	76	79
18.....	63	970	394	290	970	344	740	205	154	319	114	76
19.....	60	835	310	247	6,160	319	677	197	143	528	151	73
20.....	63	646	287	225	4,650	310	835	189	137	394	616	72
21.....	65	500	319	221	2,280	291	1,200	178	121	255	646	70
22.....	72	394	2,640	217	1,750	282	2,400	161	112	282	1,290	69
23.....	68	319	2,060	213	7,180	264	2,170	148	103	500	1,380	64
24.....	73	273	1,200	217	4,650	247	1,380	143	103	446	677	62
25.....	205	238	1,290	221	2,060	229	970	140	93	264	419	60
26.....	296	229	9,090	221	1,650	217	803	137	81	197	310	60
27.....	197	319	3,020	213	1,040	205	708	132	73	189	251	59
28.....	148	394	1,560	193	803	197	586	124	73	182	213	58
29.....	121	368	2,520	221	-----	182	528	126	71	132	269	58
30.....	103	344	1,560	287	-----	168	500	126	71	114	242	57
31.....	99	-----	1,120	319	-----	168	-----	137	-----	213	197	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	296	48	85.1	0.257	0.30
November.....	5,310	72	483	1.46	1.63
December.....	9,090	189	1,100	3.32	3.83
January.....	900	182	314	.949	1.09
February.....	7,180	301	1,470	4.44	4.62
March.....	677	168	349	1.05	1.21
April.....	3,430	394	1,100	3.32	3.70
May.....	616	124	262	.792	.91
June.....	264	70	154	.465	.52
July.....	528	65	204	.616	.71
August.....	1,380	76	288	.870	1.00
September.....	182	57	91.4	.276	.31
The year.....	9,090	48	483	1.46	19.83

JAMES RIVER BASIN

19

JOHNS CREEK AT NEWCASTLE, VA.

LOCATION.—Chain gage on highway bridge 500 feet east of town limits of Newcastle, Craig County, and one-fourth mile above mouth.

DRAINAGE AREA.—106 square miles.

RECORDS AVAILABLE.—April, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,980 second-feet February 23 (gage height, 8.70 feet); minimum, 10 second-feet October 11 (gage height, 2.34 feet).

1926-27: Maximum discharge, that of February 23, 1927; minimum, 8.1 second-feet August 14-16 and 19, 1926 (gage height, 2.27 feet).

REMARKS.—Records good. Discharge estimated January 16-18 because of ice effect.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	18	22	87	252	123	208	64	216	37	59	30	26
2.....	18	21	77	234	110	199	337	167	37	110	28	24
3.....	17	20	77	167	98	181	271	167	51	87	28	20
4.....	17	19	64	152	98	152	313	152	104	44	68	18
5.....	14	18	64	137	92	123	337	137	137	23	48	18
6.....	14	19	59	110	104	123	252	137	123	20	36	18
7.....	14	18	55	98	104	137	199	110	98	18	28	18
8.....	12	17	55	82	98	116	216	104	98	20	17	16
9.....	12	21	55	77	98	137	1,090	98	87	18	59	16
10.....	11	24	160	40	98	144	900	87	77	21	30	15
11.....	10	44	183	68	123	137	561	82	68	18	28	30
12.....	11	36	137	64	110	116	363	72	59	44	25	44
13.....	14	31	183	59	123	116	313	68	59	30	22	37
14.....	20	30	234	77	363	110	291	68	77	24	22	27
15.....	17	44	216	72	271	123	271	72	77	31	24	23
16.....	14	735	160	85	216	104	252	68	68	152	23	23
17.....	13	271	110		252	104	234	68	59	152	18	20
18.....	14	167	110	72	183	98	234	68	59	137	15	19
19.....	13	216	82		1,740	92	234	64	55	123	14	18
20.....	14	144	87	68	1,310	87	313	59	48	92	18	18
21.....	16	104	87	72	645	77	561	59	44	72	51	19
22.....	17	87	1,230	68	785	72	1,090	55	37	77	104	18
23.....	18	72	487	68	2,850	72	601	55	37	199	64	18
24.....	55	64	363	77	1,650	68	363	51	36	144	48	17
25.....	110	59	421	72	645	68	291	48	30	110	35	17
26.....	59	55	2,150	72	391	68	234	44	26	59	31	15
27.....	48	110	735	68	291	64	216	40	26	55	37	15
28.....	31	116	645	72	216	64	183	40	25	44	31	15
29.....	27	92	735	92	-----	59	167	40	22	36	34	15
30.....	25	98	421	110	-----	55	199	40	20	36	33	14
31.....	23	-----	313	116	-----	51	-----	40	-----	33	29	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	110	10	23.1	0.218	0.25
November.....	735	17	92.5	.873	.97
December.....	2,150	55	317	2.99	3.45
January.....	252	40	95.8	.904	1.04
February.....	2,850	92	471	4.44	4.62
March.....	208	51	108	1.02	1.18
April.....	1,090	64	365	3.44	3.84
May.....	216	40	83.1	.784	.90
June.....	137	20	59.4	.560	.62
July.....	199	18	67.4	.636	.73
August.....	104	14	34.8	.328	.38
September.....	44	14	20.4	.192	.21
The year.....	2,850	10	142	1.34	18.19

NORTH RIVER AT GOSHEN, VA.

LOCATION.—Chain gage on highway bridge just outside of Goshen, Rockbridge County, 500 feet below junction of Mill Creek and Calf Pasture River.

DRAINAGE AREA.—190 square miles.

RECORDS AVAILABLE.—March, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 7,310 second-feet November 16 (gage height, 9.70 feet); minimum, 15 second-feet September 24, 26-28, and 30 (gage height, 1.90 feet).

1925-1927: Maximum discharge, that of November 16, 1926; minimum, 8 second-feet July 22, 1926 (gage height, 1.79 feet).

REMARKS.—Records good. Discharge estimated January 13-18 because of ice effect.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	33	67	168	360	360	360	760	1,200	45	19	133	75
2.....	34	61	172	255	295	295	870	760	40	55	95	93
3.....	37	55	153	222	236	244	596	537	57	36	75	59
4.....	98	54	145	194	194	204	795	382	55	25	244	54
5.....	86	50	128	175	165	175	795	316	54	20	168	54
6.....	73	47	120	150	725	168	795	244	50	19	122	47
7.....	79	45	105	133	659	150	659	211	54	19	211	42
8.....	75	43	98	120	482	162	510	181	54	18	112	39
9.....	59	47	95	105	382	153	950	156	48	19	150	37
10.....	52	63	139	100	316	142	1,110	147	45	23	142	34
11.....	43	93	156	93	337	139	870	139	39	25	112	50
12.....	40	95	178	93	255	131	659	133	37	32	91	57
13.....	39	88	275	115	248	125	482	122	33	25	75	42
14.....	37	82	337		360	145	628	120	57	23	79	34
15.....	33	84	295		337	153	537	112	37	36	84	30
16.....	29	6,400	251	125	295	153	482	102	73	54	65	27
17.....	32	1,470	184		295	153	482	95	37	86	55	27
18.....	30	832	165		244	153	430	91	33	61	59	26
19.....	29	1,070	147		1,850	145	430	91	37	93	59	25
20.....	30	596	153	122	1,160	139	456	82	31	233	57	23
21.....	34	406	147	118	870	139	1,560	71	50	61	110	20
22.....	39	275	1,380	118	659	136	3,110	67	40	67	133	19
23.....	36	184	910	133	1,470	125	1,560	57	43	75	112	19
24.....	40	175	537	145	1,950	118	1,030	61	39	55	95	17
25.....	275	142	456	198	1,200	110	566	61	36	45	75	17
26.....	233	133	4,150	194	950	102	406	61	33	48	65	15
27.....	153	178	1,380	145	692	100	360	55	22	33	54	15
28.....	115	153	832	142	456	93	275	50	24	34	52	15
29.....	95	153	692	204	82	86	236	54	23	47	61	17
30.....	79	168	537	275		82	337	57	22	39	55	15
31.....	77	-----	430	456	-----	82	-----	52	-----	139	45	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	275	29	69.2	0.364	0.42
November.....	6,400	43	444	2.34	2.61
December.....	4,150	95	481	2.53	2.92
January.....	456	93	163	.858	.99
February.....	1,950	165	623	3.28	3.42
March.....	360	82	150	.789	.91
April.....	3,110	236	758	3.99	4.45
May.....	1,200	50	189	.995	1.15
June.....	73	22	46.6	.245	.27
July.....	233	18	50.5	.266	.31
August.....	244	45	98.2	.517	.60
September.....	93	15	34.8	.183	.20
The year.....	6,400	15	255	1.34	18.25

NORTH RIVER NEAR LEXINGTON, VA.

LOCATION.—Water-stage recorder 300 yards above Lime Kiln highway bridge and 2½ miles above Lexington, Rockbridge County.

DRAINAGE AREA.—487 square miles.

RECORDS AVAILABLE.—August, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,150 second-feet November 16 (gage height, 11.42 feet); minimum, 86 second-feet July 1 (gage height, 2.30 feet).

1925-1927: Maximum discharge, that of November 16, 1926; minimum, estimated 45 second-feet September 25-30, 1925.

REMARKS.—Records excellent except those for estimated periods, which are fair. Discharge estimated December 21, 23-29, January 10-19, and April 25 to May 14. Gage not operating on days for which discharge is not given.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.			352	940	790	1,060	872	2,100	168	90	271	162	
2.			348	766	697	910	1,900		159	148	202	176	
3.			334	664	592	784	1,370		205	136	334	141	
4.			304	598	532	664	1,340		212	112	548	143	
5.			291	538	592	587	1,610		192	95	374	156	
6.			271	460	1,300	554	1,450	800	173	90	374	129	
7.			230	402	1,030	510	1,260		173	102	475	120	
8.			222	352	970	500	1,030		179	99	291	129	
9.			219	330	820	470	1,940		170	106	278	170	
10.		136	274	300	708	451	2,710		159	122	278	165	
11.			316	260	742	438	2,810	450	154	122	230	165	
12.			348	220	675	410	1,490		146	122	189	159	
13.			548	240	658	420	1,160		224	118	165	138	
14.		151	664	250	940	442	1,530		348	112	417	131	
15.		168	636	260	940	500	1,370		392	361	120	348	126
16.		5,480	532	260	820	495	1,160	356	282	120	198	118	
17.		3,190	420	260	760	505	1,300	325	240	170	173	114	
18.		1,410	392	270	680	490	1,060	308	222	413	437	108	
19.		1,730	271	300	3,820	451	1,090	316	205	250	295	108	
20.		1,200	316	325	3,440	388	1,200	278	198	192	460	108	
21.			820	320	334	2,310	370	2,650	248	146	159	446	106
22.			587	2,610	325	1,860	374	4,680	230	136	370	553	100
23.			446	2,200	334	3,520	334	3,760	222	148	291	485	104
24.			361	1,700	442	4,240	316	2,610	215	146	156	334	112
25.			312	1,200	451	3,010	295		208	136	126	255	116
26.			286	8,000	442	2,220	278		208	126	116	208	136
27.			370	3,400	366	1,690	267	1,030	192	116	138	176	129
28.			321	2,200	352	1,300	255		179	112	136	168	141
29.		165	312	1,700	510		244		179	97	190	173	134
30.			321	1,230	664		230		186	91	182	154	110
31.			1,090	880		222			179		263	134	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
November 14-30	5,480	151	1,030	2.11	1.33
December		219	1,060	2.18	2.51
January	940		422	.867	1.00
February	4,240	532	1,490	3.06	3.19
March	1,060	222	459	.943	1.09
April	4,680		1,650	3.39	3.78
May		179	578	1.19	1.37
June	361	91	181	.372	.42
July	413	90	160	.329	.38
August	553	134	304	.624	.72
September	176	100	132	.271	.30

KERRS CREEK NEAR LEXINGTON, VA.

LOCATION.—Chain gage on highway bridge $3\frac{1}{2}$ miles northwest of Lexington, Rockbridge County, one-fourth mile above mouth.

DRAINAGE AREA.—34 square miles.

RECORDS AVAILABLE.—January to September, 1927.

EXTREMES.—Maximum discharge for period of record, about 1,240 second-feet February 23 (gage height, 7.75 feet); minimum, 9 second-feet July 18 (gage height, 3.50 feet).

REMARKS.—Records fair. Gage not read on days for which no discharge is shown.

Daily discharge, in second-feet, 1927

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		29	46	280		14	11	10	
2		25	42	80	42	15	32	11	
3		23	32	46	36		14		11
4		23	30	47	34	16	12	14	
5		36	28	48			11		
6		34	30	38		15	11		
7		31	27	34			16		
8		30	27	386					
9		27	27	225		12		14	
10		26	27	118		13	12		
11		27	26	65	24	13		14	
12		28	21				12		
13		44	23	57					15
14		70	27	98	32	73	10	23	
15		48	24	64	22	28		10	
16		41	22		16	22	11		
17		41	22	118	21	19	10		
18		34	21	48	16	17	9		
19		339	18	55					
20		177	20	48	24	16	10	28	11
21		127		45	16	14	10		
22		136	18	212		14			
23		1,240	18	136	16		16	21	
24		156			15	12			
25		127	18	70		13	10		
26		88	17	57			10		
27	27	90				11			
28	20	55		40	15				
29	32		14		16		10	13	
30	34		15		15			12	
31	31		17		15			11	

WRECK ISLAND CREEK NEAR CONCORD, VA.

LOCATION.—Staff gage at highway bridge in Appomattox County 300 feet below gristmill, 6 miles above mouth, and 9 miles from Concord, Campbell County.

DRAINAGE AREA.—40 square miles.

RECORDS AVAILABLE.—February, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year not determined; maximum gage height, 7.00 feet August 8; minimum discharge, 9 second-feet August 29 (gage height, 0.72 foot).

1926-27: Maximum discharge and stage occurred on August 8, 1927; minimum, that of August 29, 1927.

REMARKS.—Records fair. Discharge estimated May 29, June 12, and 19. Gage not read on days for which discharge is not given. Low-water flow regulated to some extent by gristmill and dam above gage.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Aug.	Sept.
1.....	21	38	21	25	25	33	42	25	18	-----	14
2.....	29	25	21	33	25	25	42	25	18	-----	14
3.....	29	21	21	25	25	25	33	24	18	-----	13
4.....	29	21	21	25	25	25	29	24	22	19	13
5.....	21	20	21	25	33	25	25	19	18	19	16
6.....	21	18	21	25	25	25	25	19	18	22	13
7.....	21	15	21	18	25	25	29	19	18	19	16
8.....	21	15	21	18	25	25	292	22	18	267	17
9.....	21	54	21	18	25	25	148	22	18	23	18
10.....	21	38	21	18	25	25	42	22	18	21	16
11.....	21	25	21	18	25	33	38	19	18	19	14
12.....	15	21	21	22	25	25	29	22	18	19	18
13.....	29	21	21	25	29	25	29	22	18	19	17
14.....	21	21	21	18	33	25	25	22	22	59	18
15.....	21	29	21	18	25	25	25	22	22	21	16
16.....	15	38	21	18	25	25	25	22	18	21	16
17.....	15	54	21	18	25	25	25	22	18	19	21
18.....	15	118	21	18	25	25	25	22	18	22	14
19.....	15	38	29	25	109	25	25	18	18	25	17
20.....	18	29	38	25	240	27	25	18	18	26	18
21.....	21	29	29	25	116	27	25	18	18	26	17
22.....	21	29	38	25	42	37	25	22	18	23	17
23.....	15	29	34	25	42	37	25	18	-----	27	19
24.....	21	29	21	25	42	24	25	18	-----	22	17
25.....	29	21	59	25	42	24	25	18	-----	19	11
26.....	21	21	500	25	42	22	25	18	-----	18	14
27.....	21	21	148	25	42	24	25	18	-----	17	12
28.....	21	21	62	25	33	24	25	18	-----	17	11
29.....	21	21	42	33	-----	24	25	18	-----	12	16
30.....	21	21	38	25	-----	25	25	18	-----	16	14
31.....	38	-----	33	25	-----	25	-----	18	-----	14	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	38	15	21.6	0.540	0.62
November.....	118	15	30.0	.750	.84
December.....	500	21	46.7	1.17	1.35
January.....	33	18	23.2	.580	.67
February.....	240	25	43.6	1.09	1.14
March.....	33	22	25.5	.638	.74
April.....	292	25	40.9	1.02	1.14
May.....	25	18	20.4	.510	.59
June 1-22.....	22	18	18.5	.462	.38
August 4-31.....	257	12	30.6	.765	.80
September.....	21	11	15.6	.390	.44

TYE RIVER AT ROSELAND, VA.

LOCATION.—Chain gage on highway bridge three-fourths mile southwest of Roseland, Nelson County, and three-fourths mile above Flat Creek.

DRAINAGE AREA.—68 square miles.

RECORDS AVAILABLE.—January to September, 1927.

EXTREMES.—Maximum discharge during period of record, about 676 second-feet April 22 (gage height, 5.54 feet); minimum, 15 second-feet July 6 (gage height, 2.94 feet).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1927

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....		94	211	186	174	53	22	35	45
2.....		99	198	150	162	46	24	27	43
3.....		90	174	137	150	83	22	28	40
4.....		86	150	141	146	59	20	76	50
5.....		104	141	130	137	55	19	35	42
6.....		106	146	137	128	45	17	31	36
7.....		97	132	126	122	49	18	66	32
8.....		90	132	128	116	50	26	42	35
9.....		94	116	224	101	42	45	59	211
10.....		90	114	198	101	42	76	32	86
11.....		101	108	186	103	40	88	30	174
12.....		86	101	174	94	35	35	28	83
13.....		94	97	174	90	37	28	27	62
14.....		112	122	224	94	79	22	45	55
15.....		101	101	198	90	66	22	59	45
16.....		99	97	186	86	45	29	30	45
17.....		106	92	186	77	38	22	26	43
18.....		97	94	162	79	42	24	174	40
19.....		353	90	162	76	45	37	94	69
20.....		308	90	148	69	35	28	101	48
21.....		278	90	198	62	35	21	132	46
22.....		250	99	604	62	36	126	130	38
23.....		338	86	432	59	32	53	128	36
24.....		432	86	338	58	30	31	101	35
25.....		368	83	278	69	30	24	85	31
26.....		323	76	237	66	29	21	72	30
27.....		264	76	224	55	26	18	67	28
28.....	76	237	74	186	53	24	18	77	30
29.....	124	72	186	61	22	18	70	30	30
30.....	104	70	198	59	20	26	50	29	29
31.....	99	72	72	56	61	50	50	50	50

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
January 28-31.....	124	76	101	1.49	0.22
February.....	432	86	175	2.57	2.68
March.....	211	70	109	1.60	1.84
April.....	604	126	208	3.06	3.41
May.....	174	53	92.1	1.35	1.56
June.....	83	20	42.3	.622	.69
July.....	126	17	33.6	.494	.57
August.....	174	26	64.7	.951	1.10
September.....	211	28	53.9	.793	.88

HARDWARE RIVER NEAR SCOTTSVILLE, VA.

LOCATION.—Chain gage on highway bridge on Woodridge-Scottsville Road 3 miles north of Scottsville, Albemarle County, and 9 miles above mouth.

DRAINAGE AREA.—104 square miles.

RECORDS AVAILABLE.—May, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,510 second-feet December 26 (gage height, 10.20 feet); minimum, 6 second-feet September 7.

1925-1927: Maximum discharge, that of December 26, 1926; minimum, that of September 7, 1927.

REMARKS.—Records good except for low stages and estimated periods for which they are fair. Discharge estimated October 3, 31, November 1-6 January 11, 27-29, May 8, July 3-8, and 24. Low-water flow is regulated by operation of dam and gristmill just above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	30	30	84	189	96	144	150	125	46	19	64	26
2.....	42		90	176	79	119	163	101	41	20	144	28
3.....	39		68	163	79	131	107	90	56		158	28
4.....	36		74	156	79	107	137	84	49		242	16
5.....	27		79	144	84	101	163	79	47		81	14
6.....	65	24	68	131	107	113	156	74	46		50	10
7.....	37		51	125	101	101	131	79	51		65	7
8.....	26		56	119	90	101	119	76	44		69	10
9.....	27		144	64	107	90	342	74	40	107	58	12
10.....	35		150	79	101	84	356	68	42	144	29	22
11.....	28	74	74	78	90	84	244	74	41	892	28	40
12.....	29	53	74	54	79	79	156	64	40	165	29	28
13.....	39	51	84	96	96	84	137	62	34	87	28	17
14.....	47	32	79	119	119	90	125	65	46	81	81	14
15.....	40	44	79	125	101	84	113	61	56	81	70	18
16.....	46	554	74	67	90	79	101	55	41	60	33	15
17.....	36	189	59	101	90	74	101	59	38	87	26	14
18.....	26	176	58	107	90	68	101	54	36	54	124	17
19.....	28	524	44	107	163	68	90	55	42	58	186	55
20.....	24	176	62	101	230	65	90	50	34	68	43	79
21.....	19	150	66	101	286	66	90	49	35	55	99	25
22.....	20	96	328	96	258	107	244	46	34	39	59	22
23.....	21	101	163	101	426	79	328	48	34	151	47	20
24.....	40	96	150	101	384	74	176	46	30	96	39	18
25.....	144	84	244	96	272	68	125	58	27	42	24	17
26.....	55	84	1,450	96	202	66	113	56	28	35	17	18
27.....	43	176	328		176	68	101	46	27	39	30	18
28.....	33	119	356	85	150	63	90	45	23	37	36	16
29.....	32	96	370			63	96	50	22	32	26	20
30.....	29	96	258	107		67	113	49	23	33	22	12
31.....	32		216	101		65		49		111	22	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	144	19	37.9	0.364	0.42
November.....	554	24	117	1.12	1.25
December.....	1,450	44	172	1.65	1.90
January.....	189	54	110	1.06	1.22
February.....	426	79	150	1.44	1.50
March.....	144	63	85.5	.822	.95
April.....	356	90	152	1.46	1.63
May.....	125	45	64.2	.617	.71
June.....	56	22	38.4	.369	.41
July.....	892	19	87.5	.841	.97
August.....	242	17	65.4	.629	.73
September.....	70	7	21.6	.208	.23
The year.....	1,450	7	91.4	.879	11.92

SLATE RIVER NEAR ARVONIA, VA.

LOCATION.—Chain gage on Bumpers highway bridge 2 miles from Arvonias, Buckingham County, and 2 miles above the mouth.

DRAINAGE AREA.—235 square miles.

RECORDS AVAILABLE.—April, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, about 2,940 second-feet December 26 (gage height, 9.80 feet); minimum, 19 second-feet October 11 (gage height, 1.92 feet).

1926-27: Maximum discharge, that of December 26, 1926; minimum, 11 second-feet August 5, 1926 (gage height, 1.70 feet).

REMARKS.—Records good. Discharge interpolated November 23-25. Operation of gristmill $7\frac{1}{2}$ miles upstream affects low-water flow.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	38	68	102	223	123	162	468	286	84	41	254	58
2.....	63	59	96	178	109	154	564	204	73	37	440	41
3.....	63	52	84	170	102	154	298	170	96	34	96	50
4.....	36	50	84	138	102	154	223	154	116	34	154	84
5.....	36	50	78	138	102	154	214	154	96	39	90	39
6.....	52	50	78	130	138	154	214	138	84	39	62	41
7.....	32	50	73	123	138	146	187	138	102	39	61	41
8.....	32	53	68	109	116	138	162	130	90	45	68	41
9.....	33	170	73	102	109	138	270	130	84	56	334	68
10.....	34	275	109	96	102	187	970	123	73	196	109	52
11.....	28	116	102	90	102	162	360	130	68	310	73	154
12.....	34	78	90	90	96	146	223	123	63	123	63	84
13.....	36	63	102	96	178	130	214	109	62	90	59	58
14.....	63	63	154	275	254	214	204	109	116	63	50	43
15.....	53	68	138	233	162	264	187	130	233	63	286	43
16.....	48	970	96	146	130	170	178	109	96	61	96	33
17.....	46	468	84	130	138	154	178	102	73	45	68	33
18.....	44	204	63	116	138	138	178	96	73	52	68	30
19.....	50	498	53	109	412	138	178	109	78	63	162	41
20.....	49	214	54	109	1,370	196	178	102	68	90	90	63
21.....	52	138	73	116	1,130	146	196	102	63	68	170	50
22.....	50	102	530	116	738	214	1,670	90	62	62	154	36
23.....	42	98	360	109	468	146	930	90	56	102	178	84
24.....	37	98	204	109	498	130	334	84	52	68	84	29
25.....	286	88	360	109	334	123	254	84	50	61	73	28
26.....	109	84	2,700	102	254	116	214	116	49	57	73	29
27.....	68	90	738	96	204	109	196	96	48	52	63	34
28.....	58	78	890	84	170	109	178	84	43	44	54	26
29.....	48	90	1,370	138	-----	109	178	84	45	43	63	23
30.....	51	123	564	170	-----	102	214	90	43	41	62	22
31.....	54	-----	286	138	-----	109	-----	90	-----	286	59	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	286	28	55.6	0.237	0.27
November.....	970	50	153	.651	.73
December.....	2,700	53	318	1.35	1.56
January.....	275	84	132	.562	.65
February.....	1,370	96	283	1.20	1.25
March.....	264	102	151	.643	.74
April.....	1,670	162	334	1.42	1.58
May.....	286	84	121	.515	.59
June.....	233	43	78.0	.332	.37
July.....	310	34	77.5	.330	.38
August.....	440	50	120	.511	.59
September.....	154	22	46.8	.199	.22
The year.....	2,700	22	155	.660	8.93

RIVANNA RIVER BELOW MOORES CREEK NEAR CHARLOTTESVILLE, VA.

LOCATION.—Water-stage recorder 500 feet above Virginia Public Service Co.'s power plant near Charlottesville, Albemarle County, and 200 feet below Moores Creek.

DRAINAGE AREA.—507 square miles.

RECORDS AVAILABLE.—August, 1925, to September, 1927. February to August, 1925, at station half a mile upstream.

EXTREMES.—Maximum discharge during year, about 8,790 second-feet November 16 (gage height, 11.96 feet); minimum, 62 second-feet July 7 (gage height, 1.48 feet).

1925-1927: Maximum discharge, that of November 16, 1926; minimum, 21 second-feet September 4, 1925 (gage height, 1.10 feet).

REMARKS.—Records good. Discharge estimated June 1-5.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	194	210	712	822	512	766	464	712	300	133	328	191
2	287	194	635	712	464	660	660	610		127	308	250
3	511	178	585	660	441	610	635	560		122	268	179
4	511	171	560	610	441	560	880	536		116	660	154
5	350	167	512	585	395	512	1,000	536		119	464	144
6	511	159	512	512	464	512	1,000	660	263	108	328	172
7	394	167	464	488	464	512	940	560	259	116	308	187
8	308	156	441	441	418	488	822	512	267	119	271	153
9	254	875	464	441	418	464	1,360	512	246	130	255	242
10	218	1,690	512	441	418	441	1,690	488	226	306	242	234
11	202	791	488	395	418	418	1,190	560	198	585	208	202
12	186	562	441	372	395	395	1,000	464	183	560	187	218
13	186	462	512	512	395	395	880	418	194	276	164	202
14	202	416	536	585	441	418	766	418	234	202	164	198
15	175	350	512	560	418	418	660	488	441	175	464	191
16	145	4,510	488	350	395	395	610	418	250	246	234	172
17	138	4,390	418	441	395	395	585	395	210	147	185	164
18	148	2,590	418	418	395	372	536	372	187	306	1,260	191
19	138	4,510	372	418	712	350	536	395	230	1,100	880	536
20	148	1,790	441	395	1,400	395	512	372	242	1,400	464	372
21	163	1,250	512	418	1,470	395	766	328	206	418	372	230
22	141	1,000	1,330	464	1,690	441	2,700	306	198	284	325	161
23	115	822	1,060	536	1,840	372	3,140	306	183	395	284	179
24	186	712	880	585	2,160	372	1,850	306	175	263	267	133
25	642	660	940	610	1,760	350	1,400	306	150	206	226	116
26	329	660	4,490	610	1,400	350	1,190	418	144	306	216	172
27	250	1,190	2,040	560	1,060	328	1,060	306	157	1,750	175	194
28	214	766	1,540	488	880	328	712	263	147	418	168	194
29	198	660	1,470	560	-----	328	635	267	144	280	183	194
30	171	712	1,060	560	-----	328	712	306	140	284	183	183
31	186	-----	880	560	-----	328	-----	306	-----	635	187	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	642	115	252	0.497	0.57
November	4,510	156	1,090	2.15	2.40
December	4,490	372	846	1.67	1.92
January	822	350	520	1.03	1.19
February	2,160	395	787	1.55	1.61
March	766	328	432	.852	.98
April	3,140	464	1,030	2.03	2.26
May	712	263	432	.852	.98
June	441	140	226	.446	.50
July	1,750	108	375	.740	.85
August	1,260	164	330	.651	.75
September	536	116	206	.406	.45
The year	4,510	108	541	1.07	14.46

WILLIS RIVER AT FLANAGAN MILLS, VA.

LOCATION.—Chain gage on highway bridge at Flanagan Mills, Cumberland County, 3 miles below Reynolds Creek.

DRAINAGE AREA.—247 square miles.

RECORDS AVAILABLE.—April, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,600 second-feet December 28 (gage height, 12.96 feet); minimum, 32 second-feet July 5 (gage height, 2.95 feet).

1926-27: Maximum discharge, that of December 28, 1926; minimum, 30 second-feet July 23, 1926 (gage height, 2.74 feet).

REMARKS.—Records good. Flow from Trice Lake, which forms only small part of total flow at station, is completely regulated during low stages and slightly affects the natural flow at gage.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	70	115	327	136	167	278	118	123	33	44	66
2	50	64	110	223	126	156	665	118	123	35	88	44
3	46	58	100	199	92	156	532	103	145	35	134	44
4	44	54	80	175	92	134	343	88	88	34	128	167
5	38	56	69	164	100	167	239	98	88	33	103	56
6	38	52	69	142	100	179	227	108	58	33	69	47
7	37	46	72	120	142	215	215	123	60	35	53	40
8	37	46	80	105	131	191	215	76	60	42	113	38
9	34	50	69	100	115	167	426	84	58	40	215	39
10	33	100	80	92	110	156	793	84	58	665	470	40
11	34	92	96	84	110	167	719	80	47	548	412	44
12	35	110	76	72	100	167	356	80	44	412	440	56
13	40	61	80	96	92	134	252	72	69	278	412	88
14	39	58	131	110	120	134	227	72	80	103	356	51
15	48	61	136	235	199	215	179	66	69	72	398	51
16	42	793	126	164	175	191	156	76	53	56	384	47
17	50	1,220	92	211	153	167	156	63	53	47	317	44
18	54	1,190	69	153	142	145	167	63	51	39	304	40
19	42	647	63	131	175	134	156	60	45	44	115	39
20	41	327	69	115	683	123	145	63	45	58	66	47
21	42	187	69	153	831	113	179	58	47	58	108	44
22	41	153	459	142	869	265	304	134	42	60	108	38
23	40	126	611	110	755	265	370	134	42	53	156	37
24	38	110	524	100	516	239	291	123	39	56	134	36
25	267	100	313	96	384	179	179	128	38	56	123	34
26	195	76	1,090	92	304	134	156	140	38	47	108	33
27	105	115	1,370	84	265	103	140	140	36	40	76	34
28	64	100	1,550	72	215	108	145	134	35	38	49	34
29	54	92	1,480	115	-----	88	140	128	36	36	47	33
30	50	96	1,190	142	-----	88	123	123	35	37	45	33
31	48	-----	1,170	153	-----	88	-----	128	-----	39	47	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	267	33	57.0	0.231	0.27
November	1,220	46	210	.850	.95
December	1,550	63	374	1.51	1.74
January	327	72	138	.559	.64
February	869	92	258	1.04	1.08
March	265	88	159	.644	.74
April	793	123	282	1.14	1.27
May	140	58	98.9	.400	.46
June	145	35	60.2	.244	.27
July	665	33	102	.413	.48
August	470	44	18	.733	.85
September	167	33	48.1	.195	.22
The year	1,550	33	164	.664	8.97

APPOMATTOX RIVER AT FARMVILLE, VA.

LOCATION.—Chain gage on highway bridge 1,000 feet north of Farmville, Prince Edward County, and 1½ miles below Buffalo Creek.

DRAINAGE AREA.—306 square miles.

RECORDS AVAILABLE.—March, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,930 second-feet December 29 (gage height, 13.30 feet); minimum, 10 second-feet July 30 (gage height, 2.55 feet).

1926-27: Maximum discharge, that of December 29, 1926; minimum, 9 second-feet August 13, 1926 (gage height, 2.53 feet).

REMARKS.—Records good except those for low stages, which are poor, owing to regulation. Flow regulated during low stages by operation of dam a short distance above gage.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	71	119	291	155	198	414	162	61	29	163	168
2	71	51	100	224	134	186	690	156	49	39	227	136
3	63	55	109	200	119	192	349	126	134	43	9'	104
4	31	47	95	182	124	222	268	139	137	32	139	88
5	92	47	82	177	122	248	248	180	110	50	75	67
6	55	59	95	155	144	274	228	139	84	43	45	63
7	67	75	48	144	129	198	210	168	115	50	59	24
8	55	59	95	150	122	228	180	150	110	36	63	63
9	24	139	100	129	119	228	543	137	89	92	1,230	44
10	55	216	109	114	109	210	986	120	74	287	414	83
11	79	150	134	104	124	204	509	110	74	294	242	210
12	75	97	109	77	109	186	307	112	74	242	84	135
13	67	102	119	104	166	174	248	98	60	116	83	80
14	88	79	188	172	328	168	242	102	93	92	92	68
15	84	84	182	172	263	180	210	120	124	138	213	84
16	47	898	114	188	172	168	198	98	84	92	125	46
17	75	750	55	150	172	156	204	91	74	66	84	28
18	63	305	72	166	166	150	192	92	58	41	79	60
19	75	305	64	155	244	156	180	122	76	150	120	76
20	47	277	59	150	1,250	156	156	162	74	127	13'	162
21	51	144	129	155	1,100	150	144	110	68	96	837	121
22	51	119	986	150	790	235	228	92	66	62	1,320	66
23	55	109	770	155	578	216	526	89	57	68	473	64
24	67	86	448	124	460	168	248	86	57	78	307	48
25	321	77	366	134	307	156	204	9	50	46	180	58
26	180	72	1,700	194	268	144	180	122	50	35	153	48
27	92	124	1,270	119	235	144	162	86	43	24	13'	60
28	63	139	750	104	204	128	168	65	50	33	107	56
29	75	104	1,850	160	-----	125	150	91	43	63	97	53
30	75	100	1,070	188	-----	109	156	95	41	33	71	22
31	67	-----	465	177	-----	128	-----	92	-----	107	71	-----
Month												
	Maximum			Minimum			Mean		Per square mile		Run-off in inches	
October	321			24			75.8		0.248		0.29	
November	898			47			165		.539		.60	
December	1,850			48			382		1.25		1.44	
January	291			77			155		.507		.58	
February	1,250			109			293		.958		1.00	
March	274			109			180		.588		.68	
April	986			144			291		.951		1.06	
May	180			65			116		.379		.44	
June	137			41			76.0		.248		.28	
July	294			24			87.2		.285		.33	
August	1,320			45			243		.794		.92	
September	210			22			79.5		.260		.29	
The year	1,850			22			178		.582		7.91	

APPOMATTOX RIVER AT MATTOAX, VA.

LOCATION.—Chain gage on Southern Railway bridge at Mattoax, Amelia County, one-fourth mile above Skinquarter Creek.

DRAINAGE AREA.—745 square miles.

RECORDS AVAILABLE.—August, 1900, to September, 1905, and March, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,850 second-feet December 2 (gage height, 17.85 feet); minimum, 42 second-feet October 13 (gage height 4.07 feet).

1900-1905, 1926-27: Maximum discharge, 12,200 second-feet May 2, 1901 (gage height, 24.6 feet, old datum); minimum, 42 second-feet September 28 and October 13, 1926.

REMARKS.—Records good. Discharge estimated October 19, 20, and December 20.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	78	189	324	2,930	436	532	532	414	212	88	121	17
2.....	93	212	324	794	396	512	1,550	414	204	88	260	2
3.....	98	189	292	662	358	512	1,550	396	378	83	360	2
4.....	93	168	260	596	340	572	880	378	378	78	342	2
5.....	83	147	260	536	322	572	678	492	342	83	260	2
6.....	84	147	244	496	358	634	656	612	276	78	228	1
7.....	74	147	244	436	416	856	612	452	244	70	168	1
8.....	70	134	212	396	396	880	532	452	276	88	134	1
9.....	66	175	244	376	340	678	832	396	260	78	378	2
10.....	58	955	276	358	322	592	2,020	342	228	244	1,490	2
11.....	70	744	342	322	322	552	2,190	324	212	612	722	2
12.....	66	432	342	254	304	532	1,310	308	189	378	414	1
13.....	66	212	324	270	304	472	744	292	168	396	244	3
14.....	74	228	414	340	596	472	656	276	182	244	182	1
15.....	66	204	572	618	862	512	612	260	292	212	182	1
16.....	93	1,580	472	662	838	512	552	260	276	196	378	1
17.....	93	2,680	360	516	536	472	532	260	228	189	276	1
18.....	88	2,780	292	476	516	432	552	228	204	168	196	1
19.....	85	1,310	175	476	496	414	572	260	168	140	154	1
20.....	120	856	189	476	1,910	396	492	308	168	127	161	11
21.....	109	612	342	456	2,640	414	472	360	161	147	292	10
22.....	103	452	1,400	416	2,890	552	656	292	154	308	1,550	10
23.....	109	378	2,400	396	2,890	656	1,400	260	140	196	1,760	10
24.....	103	342	2,580	358	1,340	552	1,310	212	121	134	862	11
25.....	189	324	1,220	358	1,060	452	766	244	127	103	536	8
26.....	472	308	2,540	340	880	414	592	228	115	127	358	8
27.....	378	324	2,780	322	744	378	532	244	109	98	358	7
28.....	212	360	3,090	286	612	360	492	228	103	83	286	7
29.....	168	342	3,850	304	-----	342	452	204	93	78	206	7
30.....	147	324	3,650	436	-----	324	414	212	93	74	176	9
31.....	127	-----	3,450	496	-----	342	-----	228	-----	98	162	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	472	58	120	0.161	0.1
November.....	2,780	134	575	.772	.8
December.....	3,850	175	1,080	1.45	1.6
January.....	2,930	254	521	.699	.8
February.....	2,890	304	837	1.12	1.1
March.....	880	324	513	.689	.7
April.....	2,190	414	838	1.12	1.2
May.....	612	204	317	.426	.4
June.....	378	93	203	.272	.3
July.....	612	70	164	.220	.2
August.....	1,760	121	426	.572	.6
September.....	556	72	171	.230	.2
The year.....	3,850	58	478	.642	8.7

APPOMATTOX RIVER NEAR PETERSBURG, VA.

LOCATION.—Water-stage recorder $1\frac{1}{2}$ miles above dam of Virginia Electric & Power Co. and 6 miles west of Petersburg, Dinwiddie County. Wallace Creek and Booths Branch enter from right half a mile and 1 mile below, respectively.

DRAINAGE AREA.—1,340 square miles.

RECORDS AVAILABLE.—May to September, 1927.

EXTREMES.—Maximum discharge for period May 28 to September 30, 1927, 3,970 second-feet August 23 (gage height, 5.78 feet); minimum, 38 second-feet August 1 (gage height, 1.24 feet).

REMARKS.—Records excellent.

Daily and monthly discharge, in second-feet, 1927

Day	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1.....	388	126	63	573	16.....		412	216	269	202
2.....	359	116	120	406	17.....		376	235	376	162
3.....	460	109	245	311	18.....		311	170	280	138
4.....	816	102	400	306	19.....		264	154	235	193
5.....	678	95	354	448	20.....		254	126	245	211
6.....	525	86	290	348	21.....		254	120	316	175
7.....	436	83	235	198	22.....		240	134	1,110	264
8.....	553	86	184	170	23.....		235	250	3,500	235
9.....	511	109	175	695	24.....		202	170	2,630	175
10.....	430	116	807	1,050	25.....		188	123	1,220	138
11.....	370	635	1,670	1,100	26.....		179	109	710	109
12.....	338	726	911	850	27.....		158	106	540	112
13.....	306	466	460	965	28.....	430	146	95	460	109
14.....	290	436	226	466	29.....	394	138	77	345	92
15.....	285	245	175	285	30.....	382	130	68	200	89
					31.....	382		77	245	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
June.....	816	130	341	0.254	0.28
July.....	726	68	186	.139	.16
August.....	3,500	63	615	.459	.53
September.....	1,100	89	352	.263	.29

DISMAL SWAMP BASIN

LAKE DRUMMOND IN DISMAL SWAMP, VA.

LOCATION.—Staff gage near outlet on county line between Nansemond and Norfolk Counties, 25 miles from Norfolk and 4 miles from North Carolina State line.

RECORDS AVAILABLE.—May, 1926, to September, 1927.

EXTREMES.—Maximum gage height during year, 5.90 feet May 11; minimum, 0.10 foot December 9.

1926-27: Maximum and minimum gage heights are those shown above.

REMARKS.—Lake is used as storage basin for Dismal Swamp Canal.

Daily gage height, in feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1.43	0.40	0.45	1.18	1.40	2.10	3.77	4.25	4.44	4.64	4.88	4.92
2.....	1.42	.34	.64	1.18	1.40	2.41	3.93	4.26	4.42	4.64	4.98	4.96
3.....	1.39	.45	.40	1.15	1.42	2.41	3.94	4.28	4.69	4.61	4.80	4.92
4.....	1.37	.38	.45	1.15	1.38	2.48	3.94	4.30	4.66	4.68	4.86	4.92
5.....	1.21	.27	.38	1.24	1.35	2.52	3.95	4.31	4.70	4.66	4.84	4.88
6.....	1.33	.20	.41	1.27	1.41	2.63	3.94	4.35	4.68	4.66	4.84	4.82
7.....	1.35	.22	.28	1.20	1.43	2.62	4.08	4.35	4.74	4.66	4.86	4.77
8.....	1.31	.17	.27	1.18	1.48	2.82	4.12	4.33	4.72	4.68	4.84	4.68
9.....	1.59	.23	.11	1.22	1.48	2.85	4.18	4.34	4.74	4.80	4.84	4.77
10.....	1.16	.96	.24	1.26	1.47	2.85	4.24	4.32	4.74	4.92	4.82	4.79
11.....	1.10	.82	.28	1.30	1.51	2.98	4.30	4.84	4.76	4.91	4.79	4.80
12.....	.95	.38	.18	1.26	1.54	3.09	4.32	4.40	4.78	4.73	4.77	4.76
13.....	.99	.26	.30	1.26	1.56	3.18	4.35	4.28	4.76	4.70	4.81	4.71
14.....	1.01	.22	.53	1.28	1.64	3.33	4.34	4.16	4.75	4.71	4.71	4.66
15.....	.91	.19	.72	1.32	1.66	3.34	4.39	4.16	4.73	4.65	4.72	4.70
16.....	.84	.49	.75	1.33	1.64	3.38	4.36	4.09	4.70	4.66	4.71	4.66
17.....	.93	.84	.62	1.31	1.70	3.52	4.38	4.04	4.66	4.69	4.68	4.66
18.....	.84	.50	.64	1.32	1.67	3.62	4.39	4.10	4.65	4.72	4.73	4.64
19.....	.67	.59	.56	1.34	1.66	3.68	4.40	4.15	4.68	4.89	4.78	4.63
20.....	.86	.62	.63	1.36	1.84	3.72	4.33	4.13	4.66	4.90	4.80	4.70
21.....	.69	.82	.55	1.39	1.90	3.82	4.28	4.11	4.66	4.84	4.83	4.72
22.....	.63	.74	.72	1.47	1.88	3.84	4.26	4.15	4.67	4.90	4.78	4.72
23.....	.59	.46	.74	1.47	1.99	3.75	4.22	4.19	4.69	4.82	4.78	4.70
24.....	.58	.40	.71	1.41	2.02	3.80	4.16	4.20	4.67	4.87	4.73	4.65
25.....	1.18	.34	.77	1.40	2.07	3.74	4.09	4.41	4.67	4.80	4.71	4.64
26.....	.66	.41	1.07	1.37	2.22	3.75	4.04	4.26	4.66	4.76	4.77	4.64
27.....	.65	.87	.82	1.41	2.17	3.78	4.18	4.23	4.64	4.75	4.76	4.64
28.....	.39	.58	.84	1.40	2.24	3.72	4.27	4.23	4.61	4.71	4.76	4.62
29.....	.20	.45	1.07	1.42	-----	3.66	4.19	4.38	4.62	4.73	4.76	4.60
30.....	.20	.53	1.08	1.46	-----	3.69	4.30	4.39	4.54	4.78	4.86	4.58
31.....	.26	-----	1.09	1.44	-----	3.74	-----	4.40	-----	4.70	4.85	-----

ROANOKE RIVER BASIN

ROANOKE RIVER AT ROANOKE, VA.

LOCATION.—Chain gage at Walnut Street highway bridge in Roanoke, Roanoke County.

DRAINAGE AREA.—388 square miles.

RECORDS AVAILABLE.—July, 1896, to September, 1927.

EXTREMES.—Maximum discharge during year, 6,950 second-feet February 19 (gage height, 8.52 feet); minimum, 53 second-feet November 7 (gage height, 0.58 foot).

1896-1927: Maximum discharge, 16,900 second-feet August 6, 1901 (gage height, 14.34 feet); practically no flow on December 23, 1909, when flow was retarded by freezing (gage height, 0.0 foot).

REMARKS.—Records fair.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75	91	175	670	219	446	315	356	126	84	157	138
2	76	78	168	560	223	446	684	315	131	494	123	108
3	71	70	162	456	230	400	545	296	172	520	122	106
4	70	64	156	406	223	356	446	276	177	104	131	104
5	66	58	148	382	212	336	494	276	164	100	123	102
6	64	55	137	312	219	315	470	258	145	94	122	104
7	62	53	134	291	212	276	446	258	131	164	122	104
8	58	71	129	266	198	296	910	258	126	98	122	100
9	56	78	168	242	188	315	1,970	258	119	155	122	94
10	55	89	270	230	184	356	1,500	240	115	128	122	104
11	55	115	358	226	188	336	1,030	258	113	150	122	111
12	58	108	482	198	178	315	713	240	119	113	126	115
13	97	102	508	162	614	296	572	224	150	119	122	102
14	168	97	560	230	560	315	713	224	145	128	150	100
15	100	162	508	270	508	315	654	207	138	140	131	102
16	87	508	382	254	560	296	572	207	126	177	126	104
17	78	926	270	230	1,080	276	520	201	119	150	123	104
18	70	560	266	234	1,240	276	446	192	115	128	126	104
19	66	406	242	226	6,950	276	400	177	111	143	177	102
20	68	335	212	212	2,270	258	400	169	104	122	182	104
21	76	270	194	198	1,590	240	2,870	155	102	131	207	102
22	87	172	2,720	194	1,500	240	3,280	153	100	136	258	104
23	100	159	1,160	188	1,320	224	2,370	150	102	276	240	104
24	230	151	670	178	1,230	207	1,500	138	98	207	177	104
25	270	134	4,600	191	1,070	207	744	148	94	186	138	86
26	188	162	6,360	175	744	207	545	138	96	195	136	102
27	112	156	1,780	162	598	201	470	136	92	150	131	102
28	97	132	1,240	154	494	192	423	150	92	131	164	102
29	87	162	2,140	198	-----	183	378	145	86	160	140	106
30	78	172	1,240	219	-----	172	336	143	84	186	150	104
31	110	-----	1,080	212	177	177	-----	148	-----	207	115	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	270	55	94.7	0.244	0.28
November	926	53	190	.490	.55
December	6,360	129	923	2.38	2.74
January	670	154	262	.675	.78
February	6,950	178	886	2.28	2.37
March	446	172	282	.727	.84
April	3,280	315	891	2.30	2.57
May	356	136	209	.539	.62
June	177	84	120	.309	.34
July	520	84	170	.438	.50
August	258	115	146	.376	.43
September	138	86	104	.268	.30
The year	6,950	53	352	.907	12.32

ROANOKE RIVER AT NIAGARA, VA.

LOCATION.—Water-stage recorder 500 feet below power plant of Appalachian Power Co. at Niagara, Roanoke County, and 2 miles below mouth of Tinker Creek.

DRAINAGE AREA.—511 square miles.

RECORDS AVAILABLE.—July, 1926, to September, 1927.

EXTREMES.—Maximum discharge during the period July 9, 1926, to September 30, 1927, about 9,230 second-feet December 26, 1926 (gage height, 12.23 feet); minimum, 14 second-feet July 11, 1926 (gage height, 0.45 foot).

REMARKS.—Records excellent except those for estimated period, which are fair. Discharge estimated July 10, 1927, and for periods for which mean discharge is shown by braced figures. No records July 24–29, August 21–31, September 1, 2, and 18–30, 1926. Flow regulated at dam and water-power plant located 500 feet above gage.

Daily discharge, in second-feet, 1926–27

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1926				1926				1926			
1		195		11	98	98	118	21	84		
2		192		12	94	98	95	22	76		
3		168	81	13	92	96	103	23	81		
4		139	97	14	84	95	108	24			
5		119	86	15	103	112	102	25			
6		126	260	16	96	115	85	26			
7		129	173	17	98	112	83	27			
8		128	118	18	95	164		28			
9	104	102	109	19	99	355		29			
10	111	100	118	20	82	451		30	383		
								31	275		

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1926-27												
1		134		1,000	366	788	723	648	250	168	353	386
2		120		800	381	733	1,090	529	242	356	294	226
3		128		723	335	679	800	514	352	658	250	218
4		132		652	342	590	734	511	290	226	294	188
5	125	116		576	311	535	763	491	266	178	226	196
6		114		499	332	584	722	447	291	166	226	182
7		113		439	319	557	648	460	253	250	226	164
8	110	120		414	326	590	557	447	254	164	216	154
9	99	166		360	293	557	1,550	415	220	138	204	164
10	97	209	440	396	308	557	2,310	418	228	238	190	201
11	104	198			305	586	1,470	488	212	339	174	210
12	98	169			305	458	1,110	390	216	210	171	277
13	156				368	476	925	380	255	212	170	170
14	206				757	564	1,060	380	292	266	437	184
15	168				762	505	1,010	403	276	221	300	192
16	142				606	502	914	372	235		202	162
17	108		399	350	1,020	454	863	333	217	300	168	186
18	112		372		1,200	475	708	360	216	300	198	131
19	120	557	322		7,540	427	648	333	215	749	364	162
20	128	526	298		4,780	408	644	311	226	328	914	151
21	129	329	381		2,740	414	741	313	196	251	461	
22	116	360	2,410		2,050	398	2,960	284	197		458	
23	119	279	1,570		4,310	414	2,030	280	217	570	608	
24	175	286	1,030	321	2,730	390	1,320	262	186		402	140
25	309	257	1,820	302	1,750	363	1,040	279	174	350	305	
26	228	304	7,260	302	1,350	344	894	282	184	331	305	
27	166		2,840	308	1,100	322	771	268	159		251	
28	151		2,210	285	937	304	686	277	163	350	304	128
29	152	290	3,100	320		335	628	254	163		286	121
30	147		1,790	335		301	594	286	148		271	126
31	139		1,240	369		298		292		557	238	

Monthly discharge, in second-feet, of Roanoke River at Niagara, Va., 1926-27

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	309	97	140	0.274	0.32
November		113	307	.601	.67
December	7,260		1,100	2.15	2.48
January	1,000	285	419	.820	.95
February	7,540	293	1,350	2.64	2.75
March	788	298	481	.941	1.08
April	2,960	557	1,030	2.02	2.25
May	648	254	378	.740	.85
June	352	148	226	.442	.49
July	749	138	334	.654	.75
August	914	168	306	.599	.69
September	386		175	.342	.38
The year	7,540	97	515	1.01	13.66

ROANOKE RIVER NEAR TOSHES, VA.

LOCATION.—Staff gage three-fourths mile below Smith Mountain Gap, 3 miles above Pigg River, and 7 miles northwest of Toshes, Pittsylvania County.

DRAINAGE AREA.—1,020 square miles.

RECORDS AVAILABLE.—September, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,400 second-feet February 19 (gage height, 13.02 feet); minimum, 195 second-feet October 9 and 10 (gage height, 1.10 feet).

1925-1927: Maximum discharge, that of February 19, 1927; minimum, 150 second-feet September 9, 10, and 13, 1925 (gage height, 1.00 foot).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	270	295	600	1,400	660	1,400	940	1,080	540	285	1,160	750
2-----	320	285	570	1,400	630	1,240	1,560	940	570	285	482	600
3-----	325	300	540	1,240	630	1,240	1,320	870	510	1,320	455	400
4-----	320	270	482	1,080	630	1,080	1,160	840	610	540	428	372
5-----	245	265	510	1,010	600	940	1,160	810	600	400	428	340
6-----	372	265	455	870	570	1,010	1,160	780	600	295	345	345
7-----	315	250	455	780	600	1,080	1,010	810	570	275	330	345
8-----	235	255	428	750	600	940	940	780	540	482	335	330
9-----	200	290	482	690	540	940	1,320	750	510	630	400	305
10-----	200	372	600	630	540	1,010	2,750	750	455	660	372	305
11-----	210	345	750	630	540	1,010	2,270	720	372	630	345	310
12-----	215	340	750	570	540	940	1,730	690	400	540	310	310
13-----	235	305	940	482	600	780	1,480	660	455	455	330	310
14-----	345	310	1,480	660	940	870	1,560	630	455	400	330	315
15-----	455	320	1,080	750	1,160	870	1,560	630	482	428	1,480	310
16-----	320	5,000	940	510	1,010	840	1,400	630	455	600	870	305
17-----	290	3,250	870	600	905	810	1,400	630	455	630	330	330
18-----	245	1,400	780	690	1,640	810	1,240	630	428	720	660	330
19-----	230	1,820	630	690	11,400	940	1,080	630	400	1,560	2,090	305
20-----	230	870	600	630	9,850	780	1,080	570	428	1,320	1,820	295
21-----	235	840	600	630	5,000	840	1,010	510	400	540	1,560	290
22-----	255	905	1,640	630	3,250	780	4,520	482	372	510	1,240	265
23-----	250	690	2,750	540	3,820	750	3,800	510	345	1,400	1,160	255
24-----	345	510	1,400	570	3,820	720	2,270	510	372	870	1,010	255
25-----	630	482	1,820	570	2,360	720	1,640	510	345	540	1,010	255
26-----	482	570	10,000	540	2,000	690	1,560	570	345	428	870	250
27-----	345	570	4,400	510	1,640	690	1,320	570	340	940	690	250
28-----	325	720	3,360	510	1,480	660	1,240	570	330	570	540	245
29-----	290	510	4,400	630	-----	600	1,080	570	310	510	455	240
30-----	285	600	2,850	660	-----	600	1,010	570	285	510	482	235
31-----	295	-----	1,820	660	-----	630	-----	540	-----	1,560	482	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October-----	630	200	300	0.294	0.34
November-----	5,000	250	773	.758	.85
December-----	10,000	428	1,580	1.55	1.79
January-----	1,400	482	726	.712	.82
February-----	11,400	540	2,080	2.04	2.12
March-----	1,400	600	878	.861	.99
April-----	4,520	940	1,590	1.56	1.74
May-----	1,080	482	669	.656	.76
June-----	690	285	449	.440	.49
July-----	1,560	275	672	.659	.76
August-----	2,090	310	735	.721	.83
September-----	750	235	325	.319	.36
The year-----	11,400	200	886	.872	11.85

ROANOKE RIVER NEAR GRETTA, VA.

LOCATION.—Chain gage on highway bridge at Tolers Ferry seven-eighths mile below Pigg River and 8 miles northwest of Gretna, Pittsylvania County.

DRAINAGE AREA.—1,430 square miles, revised.

RECORDS AVAILABLE.—March, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 20,700 second-feet February 19 (gage height, 20.00 feet); minimum, 280 second-feet October 10–12. 1925–1927: Maximum discharge, that of February 19, 1927; minimum, 170 second-feet July 23, 1926 (gage height, 2.90 feet).

Flood of September, 1924, reached a stage of 17.8 feet, determined by leveling to high-water mark.

REMARKS.—Records good. Discharge estimated December 19 and 20.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	340	380	900	2,160	780	1,520	1,240	1,310	670	360	1,039	1,170
2	595	340	780	1,840	840	1,520	1,170	1,240	570	380	720	720
3	420	300	720	1,520	840	1,520	1,520	1,030	670	1,760	520	570
4	380	360	520	1,380	780	1,520	1,520	1,030	720	1,030	670	570
5	380	340	570	1,240	720	1,520	1,450	1,100	720	570	620	520
6	470	320	570	1,100	840	1,380	1,450	1,100	670	420	470	520
7	420	320	570	1,100	780	1,380	1,380	1,030	670	380	400	420
8	300	400	470	900	720	1,380	1,450	1,100	620	340	380	340
9	300	420	545	960	670	1,310	1,520	1,030	545	1,600	520	570
10	280	645	670	840	720	1,380	3,860	900	495	1,840	420	360
11	280	570	645	840	720	1,240	2,680	840	570	1,240	470	620
12	280	420	670	720	720	1,310	2,320	960	445	840	420	570
13	360	380	1,310	720	840	1,100	2,770	780	670	670	400	570
14	670	445	2,080	960	1,600	1,170	2,590	720	645	900	465	420
15	570	780	1,600	1,100	1,680	1,240	1,840	780	670	960	1,840	420
16	420	4,920	1,310	780	1,520	1,240	1,380	720	620	1,600	620	470
17	380	5,030	840	720	1,520	1,170	1,100	670	570	960	470	420
18	340	2,680	670	960	2,000	1,100	1,030	670	470	1,170	720	420
19	300	3,060	620	960	20,700	1,760	1,100	720	570	3,060	1,380	470
20	300	1,680	550	840	12,600	1,030	1,380	670	520	1,520	5,500	470
21	340	1,380	780	840	5,860	1,100	1,920	720	570	960	2,500	420
22	300	900	2,160	840	4,160	1,240	5,380	670	470	840	1,380	380
23	300	840	3,460	780	5,620	1,030	4,810	620	570	840	1,840	340
24	340	780	2,320	840	4,590	960	2,770	670	520	1,240	1,030	340
25	960	780	2,160	840	3,060	960	2,240	645	420	720	780	340
26	720	720	14,500	840	2,590	900	2,080	670	420	840	720	340
27	520	2,410	5,620	840	2,000	840	1,680	670	420	1,100	620	320
28	420	1,310	3,060	720	1,760	840	1,680	720	380	520	645	300
29	360	780	6,900	780	780	780	1,520	720	380	520	840	340
30	360	780	3,860	840	840	900	1,450	720	380	840	720	360
31	380	-----	2,590	900	-----	840	-----	670	-----	1,170	840	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	960	280	412	0.288	0.33
November	5,030	300	1,150	.804	.89
December	14,500	470	2,070	1.45	1.67
January	2,160	720	990	.692	.80
February	20,700	670	2,900	2.03	2.11
March	1,760	780	1,200	.839	.97
April	5,380	1,030	2,010	1.41	1.57
May	1,310	620	835	.584	.67
June	720	380	554	.387	.43
July	3,060	340	1,010	.706	.81
August	5,500	380	967	.676	.78
September	1,170	300	470	.329	.37
The year	20,700	280	1,200	.839	11.40

ROANOKE RIVER AT BROOKNEAL, VA.

LOCATION.—Chain gage on highway bridge at Virginian Railway station at

Brookneal, Campbell County, 2¾ miles above Falling River.

DRAINAGE AREA.—2,420 square miles, revised.

RECORDS AVAILABLE.—April, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,800 second-feet December 26 (gage height, 18.22 feet); minimum, 460 second-feet October 12 (gage height, 3.02 feet).

1923-1927: Maximum discharge, about 31,000 second-feet October 1, 1924 (gage height, 31.46 feet, from high-water marks); minimum, 370 second-feet September 28, 1926 (gage height, 2.78 feet).

Flood of November, 1877, reached stage of about 36 feet and flood of March 15, 1923, reached stage of about 31 feet.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	510	635	1,260	3,890	1,680	3,080	2,470	2,300	1,330	710	1,330	1,900
2-----	560	660	1,190	*3,260	1,610	2,900	3,530	2,300	1,470	710	1,260	1,610
3-----	610	635	1,120	2,640	1,540	2,640	3,800	2,140	1,470		1,190	1,400
4-----	710	610	1,120	2,380	1,540	2,720	3,350	2,140	1,470		1,120	
5-----	635	560	1,190	2,220	1,470	2,810	2,720	2,060	1,330	*1,500	1,000	
6-----	560	560	1,060	1,980	*1,440	2,810	2,990	2,060	1,330		1,000	
7-----	710	*585	940	1,900	1,400	2,640	3,260	1,980	1,260	1,750	*970	760
8-----	660	610	940	1,820	1,400	2,640	3,170	*1,950	1,130	1,750	940	
9-----	535	820	940	1,820	1,330	2,470	3,260	*1,900	1,130	1,610	880	
10-----	510	880	1,060	1,750	1,260	2,470	*6,000	1,900	1,060	1,610	880	
11-----	510	1,000	1,260	1,900	1,260	2,470	3,530	1,680	1,000	1,610	940	
12-----	485	820	1,680	1,610	1,330	2,300	3,980	1,680	*1,000	1,680	760	
13-----	485	760	1,680	1,330	1,400	2,380	3,980	1,610	1,000	1,680	760	
14-----	940	760	3,170	2,060	2,300	2,500	3,890	1,540	940	*1,010		940
15-----	1,060	820	2,560	1,260	2,640	2,300	3,800	1,540	940	1,610	1,260	880
16-----	760	1,190	2,220	*2,500	2,380	2,300	3,530	1,470	880	1,680	1,400	880
17-----	635	10,500	1,680	2,060	2,380	2,220	3,440	1,470	880	1,680	1,120	880
18-----	610	5,880	1,330	1,820	2,220	2,140	2,810	1,470	880	1,980	1,750	880
19-----	535	5,680	*1,220	1,820	9,360	2,060	4,070	1,470	880	1,900	1,470	880
20-----	560	4,360	1,120	1,750	11,100	2,060	4,400	1,400	880	1,820	1,400	820
21-----	560	3,080	1,980	1,610	10,100	2,140	5,210	1,400	940	1,750	5,210	820
22-----	585	1,680	2,640	1,540	6,730	2,720	7,330	*1,360	820	1,750	3,350	710
23-----	560	1,470	5,210	1,540	6,640	2,380	8,130	1,330	820	1,680	2,640	635
24-----	585	1,330	4,160	1,540	7,930	2,060	5,300	1,400	760	*1,680	2,060	585
25-----	880	1,260	*3,500	1,470	5,590	1,980	4,920	1,400	880	1,680	1,680	
26-----	820	1,190	14,800	1,400	5,120	1,900	3,350	1,330	820	1,610	1,400	
27-----	760	2,380	13,500	1,400	4,160	1,820	2,810	1,330	760	1,540	1,120	
28-----	710	*3,500	11,500	1,330	3,260	1,820	2,640	1,330	760	1,260	*1,000	
29-----	660	1,610	11,200	1,400	-----	1,750	2,470	*1,360	760	1,260	1,000	
30-----	635	1,330	7,030	1,470	-----	1,680	2,380	1,400	710	1,400	1,060	
31-----	610	-----	5,500	1,750	-----	1,680	-----	1,330	-----	*1,800	1,260	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October-----	1,060	485	643	0.266	0.31
November-----	10,500	560	1,910	.789	.88
December-----	14,800	940	3,540	1.46	1.68
January-----	3,890	1,290	1,880	.777	.90
February-----	11,100	1,260	3,590	1.45	1.54
March-----	3,080	1,680	2,310	.955	1.10
April-----	8,130	2,380	3,890	1.61	1.80
May-----	2,300	1,330	1,650	.682	.79
June-----	1,400	710	1,010	.417	.47
July-----	1,980	710	1,570	.649	.75
August-----	5,210	760	1,430	.591	.68
September-----	1,900	-----	868	.359	.40
The year-----	14,800	485	2,010	.831	11.30

* Discharge estimated.

ROANOKE RIVER AT OLD GASTON, N. C.

LOCATION.—Water-stage recorder at bridge of Roanoke Railway Co. at Old Gaston, Northampton County, three-fourths of a mile downstream from Indian Creek.

DRAINAGE AREA.—8,350 square miles.

RECORDS AVAILABLE.—December, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, 54,200 second-feet February 22 (gage height, 9.10 feet); minimum, 1,160 second-feet October 1 and 3 (gage height, 0.90 foot).

1911-1927: Maximum discharge, 210,000 second-feet March 18, 1912 (gage height, 16.6 feet); minimum discharge, 790 second-feet October 1, 1914; minimum gage height, 0.80 foot September 27, 1926.

REMARKS.—Records good. Slight diurnal fluctuation caused by operation of power plant several miles upstream.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1,150	1,930	4,690	18,000	4,360	9,040	6,120	5,740	3,590	2,510	3,020	3,440
2.....	1,250	1,930	4,040	12,100	5,380	8,590	16,200	5,380	3,890	2,390	6,120	5,740
3.....	1,160	1,720	3,740	9,040	5,030	8,150	15,600	5,380	4,360	2,390	7,300	5,740
4.....	1,430	1,820	3,740	7,720	4,690	7,720	12,700	6,120	4,040	2,510	5,000	5,380
5.....	1,720	1,930	3,440	7,300	4,690	9,040	9,520	5,030	3,740	3,890	3,740	4,360
6.....	1,930	1,930	3,020	6,500	4,360	12,100	8,590	5,030	3,440	5,030	4,360	3,160
7.....	1,620	1,820	2,890	5,740	4,360	16,800	7,720	4,690	3,740	4,040	3,850	2,890
8.....	1,720	1,930	2,890	5,030	3,740	15,600	6,900	4,690	6,120	3,160	3,300	2,890
9.....	1,720	2,040	2,890	4,690	4,360	13,200	9,040	4,360	4,690	3,300	2,850	3,300
10.....	1,720	2,040	3,160	4,360	4,040	12,100	20,000	3,740	3,740	5,030	3,160	5,740
11.....	1,930	2,640	3,740	4,360	4,040	12,700	18,000	4,360	3,300	14,400	3,550	4,040
12.....	1,720	3,440	4,360	4,690	4,040	11,000	16,200	4,040	3,300	13,800	3,550	3,020
13.....	1,520	3,020	5,030	4,040	4,360	9,040	12,100	3,890	3,590	11,000	3,020	3,300
14.....	1,430	2,890	6,500	4,360	9,370	8,150	9,520	3,740	4,040	7,300	2,760	3,020
15.....	1,340	2,510	7,720	4,360	13,200	7,300	8,590	3,590	4,040	5,380	2,350	3,020
16.....	1,430	3,440	8,590	6,900	12,700	7,720	8,150	3,300	5,030	4,690	2,350	2,640
17.....	1,930	5,030	7,300	6,500	10,500	6,900	8,150	3,020	6,900	5,380	3,020	2,390
18.....	1,930	13,500	5,740	5,380	8,150	6,500	7,720	3,590	5,740	8,150	4,360	2,270
19.....	1,720	13,800	4,690	5,380	8,150	6,120	8,150	3,590	4,360	7,720	3,440	2,270
20.....	1,620	9,520	4,040	5,030	30,800	6,120	8,150	3,440	3,740	6,500	7,300	2,390
21.....	1,520	11,000	3,300	5,740	47,800	5,740	7,300	3,440	3,160	9,520	9,040	3,020
22.....	1,340	7,300	4,690	5,380	49,900	6,900	7,300	3,740	3,300	8,150	14,400	2,890
23.....	1,340	5,030	9,520	5,030	25,900	7,720	10,000	3,590	3,440	5,380	25,100	2,890
24.....	1,520	4,690	10,000	4,690	20,000	8,590	16,800	3,160	3,160	4,360	13,200	2,270
25.....	1,620	3,740	11,600	4,040	20,600	6,900	13,200	3,160	3,020	5,030	7,300	2,160
26.....	1,720	3,440	15,600	4,360	16,200	5,740	10,000	3,590	3,160	4,040	6,900	2,040
27.....	2,760	3,440	22,800	4,040	12,100	5,380	8,150	3,440	3,300	3,470	5,740	1,930
28.....	3,160	3,890	35,200	4,360	9,520	4,690	6,900	3,590	2,760	3,020	5,380	1,930
29.....	2,640	5,030	48,800	4,040	-----	4,690	6,500	3,740	2,510	2,640	4,360	1,930
30.....	2,160	6,120	42,800	4,360	-----	4,690	6,120	3,740	2,760	2,640	3,160	1,930
31.....	1,930	-----	31,700	4,360	-----	4,690	-----	3,440	-----	2,760	2,890	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	3,160	1,150	1,730	0.207	0.24
November.....	13,800	1,720	4,420	.529	.59
December.....	48,800	2,890	10,600	1.27	1.46
January.....	18,000	4,040	5,870	.703	.81
February.....	49,900	3,740	12,600	1.51	1.57
March.....	16,800	4,690	8,370	1.00	1.15
April.....	20,000	6,120	10,300	1.23	1.37
May.....	6,120	3,020	4,040	.484	.56
June.....	6,900	2,510	3,870	.463	.52
July.....	14,400	2,390	5,470	.655	.76
August.....	25,100	2,930	5,680	.680	.78
September.....	5,740	1,930	3,130	.375	.42
The year.....	49,900	1,150	6,300	.754	10.23

BLACKWATER RIVER NEAR UNION HALL, VA.

LOCATION.—Chain gage on highway bridge at Kemps Ford $1\frac{1}{2}$ miles above Gills Creek and 4 miles north of Union Hall, Franklin County.

DRAINAGE AREA.—208 square miles.

RECORDS AVAILABLE.—March, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 3,240 second-feet August 20 (gage height, 6.80 feet); minimum, 26 second-feet November 7 (gage height, 1.42 feet).

1925-1927: Maximum discharge, that of August 20, 1927; minimum, 16 second-feet September 23, 1926 (gage height, 1.32 feet).

REMARKS.—Records good. Discharge January 12 and May 13, estimated.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	49	112	344	135	229	160	174	152	53	436	96
2	101	42	75	163	122	167	125	106	106	80	85	71
3	96	38	106	233	103	246	263	174	189	160	96	49
4	101	29	101	193	109	189	138	138	174	80	125	106
5	96	46	49	201	142	125	106	132	152	71	85	119
6	53	71	88	142	156	160	174	174	119	75	71	75
7	49	26	122	122	142	167	189	167	106	53	49	66
8	42	53	98	142	122	119	212	152	106	280	85	53
9	35	75	68	156	103	138	138	132	96	390	145	80
10	35	85	208	178	83	96	298	112	96	436	119	90
11	32	66	149	216	116	197	254	182	80	484	90	132
12	53	64	156	250	51	204	204	125	75	167	75	93
13	62	75	216	460	163	189	189	254	112	119	96	75
14	80	85	250	895	225	204	204	167	96	106	90	90
15	125	167	294	605	142	152	246	90	75	101	272	119
16	145	145	135	321	178	132	197	119	119	460	35	138
17	71	390	109	413	116	112	204	132	112	182	167	80
18	42	212	122	460	109	152	189	101	125	220	93	93
19	62	630	83	225	225	125	167	125	75	2, 200	580	66
20	53	289	142	556	1, 560	189	145	96	90	532	3, 240	53
21	71	167	178	122	656	152	160	101	96	152	272	49
22	35	152	436	93	174	125	787	119	75	101	254	90
23	57	125	267	208	229	112	580	138	101	90	580	75
24	42	106	193	93	321	96	436	106	62	112	189	38
25	132	152	841	156	390	80	298	125	75	122	106	42
26	96	254	2, 520	122	246	90	254	106	75	85	119	53
27	80	272	605	178	204	132	204	174	62	90	80	66
28	57	167	1, 840	78	189	101	174	160	71	106	189	75
29	42	182	508	88	-----	96	298	174	53	101	90	85
30	32	132	163	122	-----	75	174	138	49	80	119	71
31	62	-----	321	156	-----	229	-----	132	-----	138	132	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	145	32	68.9	0.331	0.38
November	630	26	145	.697	.78
December	2, 520	49	340	1.63	1.88
January	895	78	248	1.19	1.37
February	1, 560	51	233	1.12	1.17
March	246	75	148	.712	.82
April	787	106	230	1.15	1.28
May	254	90	140	.673	.78
June	189	49	99.1	.476	.53
July	2, 200	53	240	1.15	1.33
August	3, 240	35	263	1.26	1.45
September	138	38	79.6	.383	.43
The year	3, 240	26	187	.899	12.20

GOOSE CREEK NEAR HUDDLESTON, VA.

LOCATION.—Chain gage at highway bridge midway between Stone Mountain and Huddleston, Bedford County. Rockcastle Creek enters 1,000 feet below.

DRAINAGE AREA.—188 square miles.

RECORDS AVAILABLE.—March, 1925, to September, 1927.

EXTREMES.—Maximum gage height during year, 9.70 feet February 19; minimum, 0.65 foot October 9–11.

1925–1927: Maximum gage height, that of February 19, 1927; minimum, 0.45 foot August 14, 1926.

REMARKS.—Gage-height record good. Records of discharge not determined.

The following discharge measurement was made:

August 12, 1927: Gage height, 1.18 feet; discharge, 52 second-feet.

Daily gage height, in feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.74	0.87	1.25	2.10	1.40	2.03	2.64	2.15	1.50	1.17	1.51	1.77
2.....	.74	.74	1.20	1.92	1.41	2.07	2.26	1.92	1.40	1.37	1.33	1.49
3.....	.87	.74	1.15	1.83	1.39	1.95	2.13	1.85	1.74	1.32	1.25	1.30
4.....	.78	.72	1.15	1.74	1.30	1.96	2.01	1.86	1.62	1.30	1.77	1.20
5.....	.69	.71	1.12	1.63	1.35	1.93	1.95	1.84	1.56	1.26	1.36	1.18
6.....	1.02	.71	1.09	1.53	1.37	1.91	1.89	1.78	1.48	1.20	1.24	1.12
7.....	.75	.70	1.06	1.52	1.39	1.91	1.75	1.79	1.53	1.22	1.20	1.09
8.....	.67	.74	1.11	1.48	1.35	1.90	1.76	1.77	1.54	1.53	1.20	1.09
9.....	.66	1.00	1.12	1.50	1.36	1.90	3.37	1.78	1.49	2.08	1.29	1.15
10.....	.65	.97	1.39	1.54	1.37	2.04	3.42	1.74	1.52	1.70	1.28	1.16
11.....	.65	.80	1.24	1.32	1.37	1.90	2.72	1.84	1.42	1.44	1.18	1.21
12.....	.67	.74	1.18	1.33	1.34	1.88	2.31	1.71	1.41	1.30	1.18	1.18
13.....	.80	.77	2.16	1.53	1.56	1.84	2.18	1.63	1.87	1.25	1.17	1.09
14.....	1.07	.77	2.05	1.71	1.95	1.87	2.18	1.66	2.08	2.05	1.15	1.06
15.....	.80	.80	1.58	1.63	1.72	1.92	1.99	1.81	1.68	1.69	1.93	1.04
16.....	.72	5.56	1.41	1.72	1.59	1.82	1.93	1.64	1.44	4.13	1.26	1.04
17.....	.70	2.21	1.24	1.69	1.83	1.80	1.91	1.59	1.39	1.63	1.20	1.04
18.....	.68	2.27	1.30	1.89	1.70	1.78	1.84	1.59	1.40	2.43	3.30	1.05
19.....	.69	2.14	1.13	1.71	9.20	1.77	2.72	1.67	1.44	1.76	1.44	1.22
20.....	.85	1.54	1.38	1.54	5.96	1.75	2.96	1.56	1.37	1.59	2.33	1.12
21.....	.75	1.31	1.30	1.47	3.94	1.91	2.67	1.50	1.32	1.35	2.23	1.08
22.....	.69	1.19	3.14	1.45	3.24	1.78	7.99	1.43	1.35	1.29	1.67	1.04
23.....	.68	1.11	2.34	1.42	5.63	1.70	4.06	1.49	1.29	2.59	1.70	1.61
24.....	.75	1.09	1.93	1.42	3.46	1.68	3.03	1.50	1.26	1.49	1.46	1.04
25.....	1.42	1.05	4.89	1.40	3.04	1.66	2.60	1.57	1.24	1.30	1.33	1.00
26.....	.84	1.21	6.62	1.40	2.68	1.65	2.39	1.64	1.23	1.23	1.36	1.01
27.....	.77	2.00	4.32	1.35	2.32	1.59	2.26	1.47	1.19	1.34	1.25	1.01
28.....	.75	1.46	3.89	1.34	2.15	1.59	2.12	1.46	1.16	1.22	1.30	1.02
29.....	.72	1.34	3.84	1.59	-----	1.59	2.02	1.54	1.18	1.17	1.32	1.04
30.....	.73	1.36	2.72	1.56	-----	1.60	2.00	1.57	1.17	2.35	1.20	1.03
31.....	.86	-----	2.35	1.47	-----	1.61	-----	1.54	-----	2.74	1.20	-----

DAN RIVER NEAR FRANCISCO, N. C.

LOCATION.—Chain gage at county highway bridge 3 miles east of Francisco, Stokes County, and 7.9 miles downstream from Little Dan River.

DRAINAGE AREA.—119 square miles.

RECORDS AVAILABLE.—August, 1924, to September, 1927.

EXTREMES.—Maximum discharge during period, May 1 to September 30, 1927, 725 second-feet August 18 (gage height, 2.84 feet); minimum, 48 second-feet September 27–30 (gage height, 1.04 feet).

1924–1927: Maximum discharge (estimated), 8,700 second-feet December 8, 1924 (gage height, 10.0 feet); minimum, 27 second-feet July 25, 1926 (gage height, 0.78 foot).

REMARKS.—Records good. No records October 1 to April 30. Slight diurnal fluctuation caused by operation of gristmills during low water.

Daily and monthly discharge, in second-feet, 1927

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1.....	136	157	62	113	81	16.....	113	103	485	75	66
2.....	136	115	70	79	77	17.....	113	92	252	64	68
3.....	136	113	70	75	73	18.....	110	110	690	510	68
4.....	133	128	62	77	64	19.....	108	115	177	198	79
5.....	133	120	59	152	61	20.....	106	94	130	146	75
6.....	133	103	57	70	57	21.....	103	96	113	130	73
7.....	133	110	64	166	57	22.....	98	94	115	101	59
8.....	133	118	201	160	73	23.....	108	98	113	96	61
9.....	163	123	303	86	96	24.....	113	92	103	96	61
10.....	149	101	252	75	90	25.....	141	92	92	94	57
11.....	130	98	286	75	338	26.....	146	97	90	90	56
12.....	123	96	174	75	146	27.....	96	79	86	86	48
13.....	120	103	96	75	81	28.....	123	66	83	83	48
14.....	118	115	96	70	73	29.....	130	61	123	83	48
15.....	108	123	204	90	66	30.....	168	61	130	83	48
						31.....	204	-----	120	83	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
May.....	204	96	128	1.08	1.24
June.....	157	61	102	.857	.96
July.....	690	57	160	1.34	1.54
August.....	510	64	111	.933	1.08
September.....	338	48	78.3	.658	.73

DAN RIVER AT SOUTH BOSTON, VA.

LOCATION.—Chain gage on Norfolk & Western Railway bridge at South Boston, Halifax County, 6 miles upstream from mouth of Banister River.

DRAINAGE AREA.—2,820 square miles.

RECORDS AVAILABLE.—August, 1900, to May, 1907, and April, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 17,700 second-feet December 26 (gage height, 18.95 feet); minimum, 420 second-feet September 28.

1900-1907, 1923-1927; Maximum discharge, 52,600 second-feet December 31, 1901 (gage height, 25.2 feet, old datum); minimum, 300 second-feet September 11, 1925 (gage height, 3.12 feet).

REMARKS.—Records good. The water supply for South Boston is diverted from river just above station. The flow at low stages is regulated to some extent by operations of dams and mills at Danville.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	480	650	1,890	3,740	2,170	2,480	1,860	1,440	1,440	650	2,000	1,310
2.....	650	900	1,540	2,700	2,310	2,400	4,170	1,790	1,310	860	2,800	910
3.....	1,180	950	1,420	2,540	1,890	2,400	5,610	2,160	1,010	1,130	2,000	1,010
4.....	950	900	1,480	2,170	1,750	2,640	3,120	1,720	1,130	1,370	1,580	1,070
5.....	770	900	1,300	2,310	1,540	2,720	2,400	1,580	1,010	1,250	1,580	690
6.....												
7.....	810	570	1,300	2,100	1,420	3,280	2,160	1,580	730	910	1,310	1,250
8.....	950	850	1,300	1,960	1,360	5,610	2,240	1,510	1,250	730	1,310	910
9.....	690	650	1,680	1,680	1,420	4,800	1,860	1,310	1,310	770	810	810
10.....	1,120	850	1,420	1,420	1,420	3,450	2,400	1,250	1,370	1,130	1,250	2,560
11.....	900	1,360	1,540	1,540	1,420	3,720	3,720	1,720	1,130	9,460	2,160	960
12.....												
13.....	610	510	1,420	1,540	1,240	3,900	4,800	1,250	1,010	6,890	1,370	1,510
14.....	540	1,480	2,030	1,420	1,420	3,280	3,120	1,510	1,010	5,100	1,250	1,510
15.....	480	1,300	2,030	1,240	1,610	2,560	2,640	1,250	1,010	2,480	960	1,190
16.....	570	1,000	2,940	1,300	3,980	2,800	2,560	1,010	1,310	1,930	1,010	1,510
17.....	570	690	2,940	1,820	5,300	2,560	2,640	960	3,810	2,000	650	1,010
18.....												
19.....	770	1,180	3,820	2,170	3,900	2,480	2,800	730	3,200	1,860	1,250	1,130
20.....	770	5,940	2,860	1,750	2,940	2,160	2,080	1,250	2,160	6,290	1,250	960
21.....	610	5,400	2,030	1,540	2,620	2,080	2,880	860	1,250	3,540	1,010	810
22.....	730	3,580	1,480	1,820	4,640	2,000	2,720	1,010	1,190	2,720	3,900	570
23.....	540	4,910	1,300	2,030	13,800	1,720	2,560	960	960	3,630	4,260	810
24.....												
25.....	690	2,620	1,360	2,170	17,400	1,930	2,400	1,010	1,250	2,800	3,040	1,790
26.....	610	1,960	2,310	1,680	8,400	2,720	2,240	1,310	1,010	1,650	3,630	1,070
27.....	850	1,890	2,780	1,540	4,800	3,280	2,880	770	910	1,250	2,480	910
28.....	900	1,180	2,780	1,420	5,000	3,200	2,640	960	810	1,650	1,790	860
29.....	1,180	1,360	3,020	1,750	6,530	2,560	2,400	910	1,510	1,010	1,250	540
30.....												
31.....	1,300	1,300	14,400	1,540	4,350	2,080	2,160	1,010	910	1,010	1,310	510
32.....	1,680	1,480	9,880	1,480	3,200	1,930	2,240	1,010	570	960	2,400	770
33.....	1,120	2,310	5,940	1,480	2,880	1,790	1,930	1,010	910	910	1,370	450
34.....	1,000	1,680	12,700	1,360	-----	1,790	1,510	1,250	770	650	860	570
35.....	900	1,480	14,900	1,420	-----	1,670	1,650	730	690	810	1,070	610
36.....	900	-----	6,410	1,680	-----	1,580	-----	1,250	-----	860	960	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	1,680	480	833	0.295	0.34
November.....	5,940	510	1,730	.613	.68
December.....	14,900	1,300	3,680	1.30	1.50
January.....	3,740	1,240	1,820	.645	.74
February.....	17,400	1,240	3,950	1.40	1.46
March.....	5,610	1,580	2,700	.957	1.10
April.....	5,610	1,510	2,680	.950	1.06
May.....	2,160	730	1,230	.436	.50
June.....	3,810	570	1,260	.447	.50
July.....	9,460	650	2,200	.780	.90
August.....	4,260	650	1,740	.617	.71
September.....	2,560	450	1,020	.362	.40
The year.....	17,400	450	2,060	.730	9.89

LEATHERWOOD CREEK NEAR OLD LIBERTY, VA.

LOCATION.—Chain gage on highway bridge $1\frac{1}{2}$ miles above mouth and 3 miles from Old Liberty, Henry County.

DRAINAGE AREA.—68 square miles.

RECORDS AVAILABLE.—September, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 481 second-feet December 29 (gage height, 4.90 feet); minimum, 9 second-feet September 24–27 (gage height, 1.72 feet).

1925–1927: Maximum discharge, 1,040 second-feet November 13, 1925 (gage height, 8.10 feet); minimum, 7 second-feet September 25, 1926 (gage height, 1.52 feet).

REMARKS.—Records fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	26	32	55	35	40	67	50	42	18	19	15
2	107	24	28	46	37	29	414	42	35	33	17	19
3	60	20	27	37	35	40	80	37	35	50	15	17
4	37	23	27	37	33	40	53	42	40	31	15	16
5	15	23	30	33	31	55	51	40	34	28	85	14
6	46	23	27	29	30	75	44	40	29	28	17	12
7	16	23	22	29	29	70	44	37	35	28	16	12
8	13	23	27	24	29	72	44	50	37	100	14	12
9	12	34	27	22	29	60	107	44	33	464	53	14
10	12	52	38	28	29	65	95	42	35	200	24	17
11	13	27	38	60	31	53	75	37	42	100	20	16
12	15	25	86	46	26	48	53	35	38	39	17	15
13	15	25	135	55	50	45	55	33	33	32	17	14
14	21	26	107	67	72	48	77	33	135	30	13	14
15	15	28	61	60	70	44	57	33	80	32	71	17
16	13	382	50	58	51	40	55	33	80	30	22	12
17	13	86	41	55	53	37	80	33	42	26	19	12
18	13	89	38	135	46	37	72	33	40	22	36	12
19	13	135	35	37	398	42	55	33	36	206	286	12
20	13	34	63	33	382	41	44	42	33	39	100	14
21	18	34	40	33	193	40	48	42	31	26	50	14
22	15	34	382	33	89	186	57	38	33	26	36	12
23	16	32	107	30	93	75	48	33	33	26	26	12
24	200	28	62	28	163	57	46	33	29	25	22	9
25	88	27	80	33	88	48	44	31	28	24	28	9
26	29	27	400	33	67	44	42	42	26	15	26	9
27	26	81	121	28	56	42	44	31	24	19	24	9
28	24	55	270	23	44	40	42	33	29	17	23	12
29	24	36	481	48	---	37	42	50	26	14	22	12
30	23	43	149	50	---	37	37	51	26	17	17	11
31	40	---	67	46	---	37	---	44	---	50	15	---

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	200	12	33.0	0.485	0.56
November	382	20	50.8	.747	.83
December	481	22	99.9	1.47	1.70
January	135	22	42.9	.631	.73
February	398	26	81.8	1.20	1.25
March	186	29	52.4	.771	.89
April	414	37	69.1	1.02	1.14
May	51	31	38.6	.588	.65
June	135	24	40.0	.588	.66
July	464	14	57.9	.851	.98
August	286	13	37.6	.553	.64
September	19	9	13.2	.194	.22
The year	481	9	51.3	.754	10.25

* Discharge estimated.

TAR RIVER BASIN

FISHING CREEK NEAR ENFIELD, N. C.

LOCATION.—Staff gage 2,000 feet downstream from Atlantic Coast Line Railroad bridge, 2 miles southwest of Enfield, Halifax County, and $4\frac{1}{4}$ miles below Rocky Creek.

DRAINAGE AREA.—462 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,480 second-feet December 31 (gage height, 12.2 feet); minimum, 40 second-feet October 2 (gage height, 0.90 foot).

1923-1927: Maximum discharge, 12,300 second-feet October 1 and 2, 1924 (gage height, 17.3 feet); minimum, 40 second-feet September 2, 26, 27, and October 2, 1926.

REMARKS.—Records fair.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	45	45	122	1,900	225	255	255	255	94	94	60	561
2.....	40	45	136	798	180	255	478	382	81	94	195	318
3.....	45	45	136	494	180	255	649	286	81	94	649	165
4.....	45	45	122	350	180	318	561	225	286	94	478	180
5.....	45	45	94	350	180	703	398	225	318	94	286	478
6.....	45	45	94	318	165	1,020	414	165	180	81	165	286
7.....	45	45	94	318	165	1,960	760	165	136	81	94	165
8.....	52	45	94	270	165	2,200	1,260	165	649	81	81	94
9.....	52	45	94	240	165	2,090	685	165	837	94	81	165
10.....	45	52	94	240	255	1,490	1,760	165	478	94	69	366
11.....	45	52	122	240	270	1,170	2,020	165	240	108	69	318
12.....	45	45	165	286	255	877	1,760	240	165	318	69	165
13.....	45	45	195	302	255	667	1,110	210	150	240	69	136
14.....	45	45	286	302	510	478	578	136	255	150	69	94
15.....	45	45	631	302	998	667	631	136	430	94	69	81
16.....	45	52	561	302	1,310	494	561	136	798	94	69	69
17.....	45	136	478	286	877	350	462	136	462	94	60	60
18.....	45	667	286	318	255	350	398	108	240	81	60	60
19.....	45	494	165	302	225	350	398	94	165	81	60	60
20.....	45	286	122	286	1,590	350	382	94	165	122	60	69
21.....	45	165	165	286	2,060	350	350	94	165	318	60	318
22.....	45	94	165	286	2,200	334	318	94	165	165	60	180
23.....	45	122	382	286	2,270	334	398	94	122	94	94	94
24.....	45	81	544	270	1,740	382	478	94	122	94	649	94
25.....	45	94	544	270	1,760	350	544	94	122	94	837	94
26.....	45	122	510	270	1,170	318	382	94	94	94	1,360	81
27.....	45	165	494	270	703	286	382	94	122	81	1,330	81
28.....	45	122	494	255	478	286	318	94	94	66	510	69
29.....	45	94	1,420	255	-----	270	286	94	94	66	286	60
30.....	45	122	2,200	255	-----	255	255	108	94	66	165	60
31.....	45	-----	2,480	225	-----	225	-----	94	-----	66	240	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	52	40	45.3	0.068	0.11
November.....	667	45	117	.278	.28
December.....	2,480	94	435	.972	1.09
January.....	1,900	225	359	.777	.90
February.....	2,270	165	742	1.67	1.68
March.....	2,200	225	635	1.37	1.58
April.....	2,020	255	641	1.39	1.55
May.....	382	94	152	.329	.38
June.....	837	81	247	.535	.60
July.....	318	69	113	.275	.28
August.....	1,360	60	271	.587	.68
September.....	561	60	167	.361	.40
The year.....	2,480	40	324	.701	9.53

NEUSE RIVER BASIN

FLAT RIVER AT BAHAMA, N. C.

LOCATION.—Water-stage recorder at head of Durham water-supply pond, 1½ miles upstream from Dial Creek and highway bridge at Bahama, Durham County.

DRAINAGE AREA.—150 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,580 second-feet December 29 (gage height, 7.32 feet); minimum, 1.8 second-feet November 8 (gage height, 0.67 foot).

1925-1927: Maximum discharge, that of December 29, 1926; minimum, 0.5 second-foot September 27, 30, and October 1, 1925 (gage height, 0.50 foot).

REMARKS.—Records good. Slight diurnal fluctuation caused by operation of old gristmills above.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.5	2.2	14	114	48	84	63	50	14	6.7	12	1,220
2	3.5	2.0	12	82	42	97	105	60	16	12	83	163
3	3.2	1.9	8.6	68	40	116	76	45	21	36	43	69
4	2.8	1.9	6.2	59	37	156	59	37	28	26	57	46
5	2.6	1.9	7.7	52	40	303	51	34	20	16	44	64
6	2.3	2.0	6.9	47	34	1,160	54	30	19	12	25	59
7	2.2	2.0	8.9	40	32	846	50	28	95	11	16	38
8	2.2	2.0	4.7	39	34	401	47	24	98	175	15	28
9	2.2	2.1	5.0	34	36	419	171	28	41	202	136	61
10	2.2	2.1	6.9	34	39	786	239	24	21	196	61	52
11	2.1	2.1	5.0	36	40	319	121	27	67	158	30	28
12	2.0	2.0	5.2	32	40	230	79	22	35	56	21	26
13	6.5	2.0	107	31	573	186	67	18	36	41	14	33
14	6.2	2.1	168	79	563	163	127	20	37	176	12	20
15	3.9	2.1	56	268	230	168	119	18	37	678	243	15
16	3.8	4.6	37	119	149	134	78	16	48	88	88	16
17	3.3	4.7	26	74	117	114	70	15	37	47	35	17
18	2.6	4.0	16	63	99	101	87	13	22	355	22	11
19	2.2	4.3	13	62	277	93	65	14	16	328	16	15
20	2.4	4.2	12	57	964	83	57	16	18	162	12	43
21	2.4	5.0	17	52	315	77	54	11	20	64	12	35
22	2.4	9.2	59	48	196	77	180	11	17	44	173	28
23	2.6	10	96	44	324	73	310	17	36	38	261	17
24	2.7	7.7	47	44	545	63	125	11	25	34	46	11
25	2.5	10	421	43	233	61	87	15	18	27	312	10
26	2.2	9.8	233	50	176	56	68	14	14	21	270	10
27	2.1	11	86	46	130	53	61	9.8	12	19	96	10
28	2.1	17	1,280	38	101	51	52	12	8.3	19	52	10
29	2.1	12	2,250	44	-----	48	47	11	6.2	13	42	10
30	2.1	14	278	56	-----	46	44	19	6.4	13	34	10
31	2.0	-----	153	55	-----	48	-----	18	-----	11	24	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	6.5	2.0	2.80	0.019	0.02
November	17	1.9	5.26	.035	.04
December	2,250	4.7	176	1.17	1.35
January	268	31	61.6	.411	.47
February	964	32	195	1.30	1.35
March	1,160	46	213	1.42	1.64
April	310	44	93.8	.625	.70
May	60	9.8	22.2	.148	.17
June	98	6.2	29.6	.197	.22
July	678	6.7	99.5	.663	.76
August	312	12	74.4	.496	.57
September	1,220	10	72.5	.483	.54
The year	2,250	1.9	86.7	.578	7.83

DIAL CREEK AT BAHAMA, N. C.

LOCATION.—Water-stage recorder three-eighths mile upstream from 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, 1927.

EXTREMES.—Maximum discharge during year, 120 second-feet December 28 (gage height, 3.25 feet); practically no flow during periods in October and November.

1925-1927: Maximum discharge, 330 second-feet February 25, 1926 (gage height, 4.5 feet); practically no flow during several periods in 1926.

REMARKS.—Records good except estimates and those for periods of ice effect, which are fair.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0	0.02	0.63	2.52	1.08	2.40	4.10	1.69	0.43	0.16	0.26	1.94
2.....	0	0.01	.41	2.00	1.08	2.28	5.00	1.36	.31	.63	2.33	.77
3.....	0	0.01	.30	1.74	1.04	2.22	2.58	1.20	2.46	.46	.37	.58
4.....	0	0	.25	1.54	1.04	2.16	2.22	1.01	1.01	.25	2.12	.46
5.....	0	0	.25	1.36	1.04	4.82	2.16	1.01	.77	.16	.58	.37
6.....	0	0	.23	1.24	1.04	21	2.28	.97	.97	.15	.15	.31
7.....	0	0	.20	1.04	1.01	17	1.94	.97	11.4	.74	.13	.28
8.....	0	0.02	.18	1.01	1.12	10.9	1.74	.84	2.28	2.71	2.71	12.2
9.....	0	0.09	.20	.94	1.36	11.2	5.2	.84	1.24	5.2	5.1	1.94
10.....	0	0.07	.41	1.24	1.28	12.2	4.37	.87	1.24	3.95	.77	.23
11.....	0	0.06	.46	1.12	1.20	6.9	2.84	.87	1.16	2.22	.41	.19
12.....	0	0.05	.35	1.08	1.08	5.1	2.46	.66	.77	1.01	.33	.15
13.....	.18	0.05	11.5	1.08	14.1	4.73	2.22	.63	.84	.66	.28	.13
14.....	1.38	0.05	2.84	6.3	18.6	4.04	6.0	.63	2.05	.84	.28	.11
15.....	.05	0.07	1.24	4.12	6.8	3.71	3.33	.58	2.16	1.24	.28	.10
16.....	0.02	3.41	.87	2.46	3.95	3.19	2.84	.50	.94	.50	.26	.09
17.....	0.01	.80	.68	1.94	3.71	2.84	2.78	.48	.84	.33	.20	.08
18.....	0.01	.35	.60	1.89	3.05	2.65	2.52	.48	.84	9.0	.18	.07
19.....	0	0.20	.55	1.89	14.2	2.52	2.05	.46	1.12	5.3	.18	1.45
20.....	0	.18	0.50	1.69	17.5	3.33	2.00	.41	.68	5.5	.18	.71
21.....	0	.12	.46	1.59	7.3	2.52	1.79	.35	.50	1.59	.18	.19
22.....	0	.08	1.94	1.54	4.55	2.58	8.5	.37	.52	1.12	3.01	.11
23.....	0	.07	1.32	1.54	9.7	2.22	5.8	.31	.97	1.04	1.08	.09
24.....	0	0.05	1.35	1.50	8.3	2.05	3.48	.30	.63	.68	.41	.07
25.....	0	0.05	15.3	1.45	5.3	1.94	2.71	1.91	.33	.46	15.6	.06
26.....	0	0.87	03.56	1.54	3.95	1.94	2.40	1.20	.30	.35	5.4	.05
27.....	0	03.19	1.84	1.20	3.19	1.89	1.94	.43	.28	.26	2.58	.05
28.....	0	.60	.41	1.20	2.58	1.69	1.69	.37	.23	.26	1.41	.05
29.....	0	.37	.36	1.64	-----	1.64	1.45	1.04	.20	.23	1.01	.05
30.....	0	.41	6.0	1.45	-----	1.59	1.36	.77	.19	.19	.71	.04
31.....	.01	-----	3.56	1.36	-----	1.54	-----	.55	-----	.23	.63	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	1.38	0	0.054	0.011	0.01
November.....	3.41	0	.375	.077	.09
December.....	41	.18	4.35	.888	1.02
January.....	6.3	.94	1.74	.355	.41
February.....	18.6	1.01	5.00	1.02	1.06
March.....	21	1.54	4.74	.967	1.11
April.....	8.5	1.36	3.06	.624	.70
May.....	1.91	.30	.776	.153	.18
June.....	11.4	.19	1.26	.257	.29
July.....	9.0	.15	1.52	.317	.36
August.....	15.6	.13	1.59	.324	.37
September.....	12.2	.04	.764	.153	.17
The year.....	41	0	2.09	.427	5.77

* Discharge estimated because of missing gage-height records or ice effect.

ROCKY CREEK NEAR BAHAMA, N. C.

LOCATION.—Staff gage $1\frac{1}{4}$ miles upstream from confluence with Flat River, 2 miles upstream from dam of Durham water supply, and 3 miles east of Bahama, Durham County.

DRAINAGE AREA.—2.7 square miles.

RECORDS AVAILABLE.—October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 88 second-feet June 7 (gage height, 3.40 feet); practically no flow during periods in October and November.

1925-1927: Maximum discharge, 88 second-feet February 25, 1926, and June 7, 1927 (gage height, 3.40 feet); practically no flow during several periods in 1925 and 1926.

REMARKS.—Records fair owing to theoretical determination of discharge.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.1	1.2	0.45	0.85	8.3	0.95	0.1	0.1	4.2	0.5
2	0	0	.05	.95	.40	1.1	3.05	.65	.1	.35	1.0	.25
3	0	0	.05	.75	.35	2.0	1.05	.5	1.2	.15	6.1	.2
4	0	0	.05	.6	.35	3.4	.9	.4	.35	.05	1.65	.15
5	0	0	.05	.55	.3	10.8	.85	.35	.2	.05	.3	.15
6	0	0	.05	.45	.3	19.0	1.8	.3	.2	.05	.25	.1
7	0	0	.05	.35	.3	9.5	.9	.3	21	.5	.2	.1
8	0	0	.05	.35	.35	6.1	.8	.25	.85	.55	2	4.55
9	0	.05	.05	.35	.4	6.6	13.0	.3	.5	.8	1.25	1.5
10	0	.05	.05	.35	.4	6.4	3.8	.25	.95	.6	.35	.5
11	0	.05	.05	.35	.4	3.25	1.2	.2	.45	.85	.25	.25
12	0	0	.05	.35	.4	1.9	.9	.2	.25	.5	.2	.2
13	4.05	0	6.3	.35	10.0	1.6	.85	.2	.4	.3	.2	.15
14	.2	0	.85	11.5	8.8	1.55	9.4	.2	.7	.2	.2	.15
15	.05	0	.35	3.1	2.85	1.4	1.8	.15	3.55	.3	.2	.1
16	0	2.4	.25	1.35	2.15	1.2	1.35	.15	.85	.15	.15	.1
17	0	.3	.15	.9	1.75	1.1	1.7	.15	.4	.1	.15	.1
18	0	.1	.15	.8	1.5	.95	1.1	.15	.35	.2	.15	.1
19	0	.05	.1	.75	16.0	.8	.95	.15	.4	.15	.15	2.65
20	0	0	.1	.7	8.1	.75	.8	.15	.3	.6	.15	1.65
21	0	0	.15	.6	3.05	.75	.7	.15	.2	.2	.1	.3
22	0	0	1.45	.5	1.9	.95	17.5	.1	.3	.15	.25	.1
23	0	0	.4	.5	9.9	.7	4.2	.1	.3	.15	2	.05
24	0	.05	.3	.5	4.65	.6	1.5	.1	.2	.1	.15	.05
25	0	.05	10.8	.55	2.7	.6	1.1	.15	.2	.1	3.95	.05
26	0	.05	1.95	.75	1.95	.55	.85	.15	.15	.05	9.9	.05
27	0	.35	.9	.6	1.25	.45	.75	.1	.1	.05	1.65	.05
28	0	.1	21	.45	.9	.4	.6	.15	.1	.05	.45	.05
29	0	.05	7.4	.8	-----	.4	.5	.15	.1	.05	.35	.05
30	0	.1	2.2	.6	-----	.5	.45	.15	.1	.05	.3	.05
31	0	-----	1.45	.5	-----	.5	-----	.1	-----	.05	.3	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4.05	0	0.139	0.051	0.06
November	2.40	0	.125	.046	.05
December	21	.05	1.84	.681	.79
January	11.5	.35	1.05	.389	.45
February	16	.30	2.92	1.08	1.12
March	19	.40	2.80	1.04	1.20
April	17.5	.45	2.76	1.02	1.14
May	.95	.10	.237	.088	.10
June	21	.10	1.16	.430	.48
July	.85	.05	.231	.086	.10
August	9.9	.10	1.13	.419	.48
September	4.55	.05	.475	.176	.20
The year	21	0	1.22	.451	6.17

CAPE FEAR RIVER BASIN

CAPE FEAR RIVER AT LILLINGTON, N. C.

LOCATION.—Chain gage at highway bridge just downstream from Norfolk Southern Railroad bridge at Lillington, Harnett County, and 1 mile downstream from Neill Creek.

DRAINAGE AREA.—3,530 square miles.

RECORDS AVAILABLE.—December, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 31,200 second-feet March 7 (gage height, 14.31 feet); minimum, 8 second-feet October 8 (gage height, 0.01 foot).

1923-1927: Maximum discharge, 51,800 second-feet September 30, 1924 (gage height, 18.7 feet); minimum, that of October 8, 1926.

REMARKS.—Records good except that of March 2, which was estimated. Large diurnal fluctuation caused by operation of Buckhorn power plant 14 miles upstream.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	74	181	296	3,730	1,340	2,750	2,210	576	345	508	764	1,180
2-----	51	94	597	3,380	1,510	2,890	708	2,140	224	668	3,880	2,540
3-----	40	76	940	2,960	1,110	3,030	829	2,210	214	1,220	2,820	1,690
4-----	37	48	514	2,080	1,080	2,610	1,440	2,080	315	4,650	2,400	1,140
5-----	29	184	181	2,020	716	4,970	668	1,070	244	2,340	2,610	1,630
6-----	22	143	134	1,880	365	10,400	1,880	788	119	847	788	2,680
7-----	15	74	484	950	604	24,000	2,210	1,400	838	1,060	920	1,760
8-----	8	88	166	1,630	1,050	29,200	2,140	412	484	7,370	315	1,220
9-----	10	71	276	1,510	646	22,600	1,880	1,440	508	14,600	1,100	1,120
10-----	11	240	280	788	970	22,200	3,100	668	970	17,200	676	2,020
11-----	11	124	320	390	1,290	18,400	2,890	1,290	1,140	13,000	847	2,680
12-----	57	114	160	330	660	9,210	2,750	1,690	1,400	7,250	970	2,280
13-----	172	335	141	355	676	5,320	2,540	660	1,760	4,490	1,120	1,390
14-----	187	129	296	472	4,330	4,490	1,760	436	1,630	2,610	1,340	874
15-----	172	88	2,020	280	7,250	2,680	1,630	370	1,950	2,750	874	748
16-----	138	268	3,170	901	4,490	3,240	2,280	514	2,820	1,450	632	436
17-----	94	360	1,820	2,140	3,590	3,030	1,690	320	2,750	1,630	788	340
18-----	87	148	1,130	2,610	2,890	1,950	1,880	360	2,280	1,430	920	296
19-----	94	1,110	562	2,470	2,610	2,470	1,510	466	2,470	2,210	1,150	365
20-----	112	812	472	1,050	7,670	2,210	1,510	208	2,340	3,450	901	829
21-----	211	508	611	1,130	11,200	1,950	1,340	252	1,510	4,180	1,950	740
22-----	88	276	380	653	8,750	1,760	1,440	129	1,320	2,540	2,820	527
23-----	44	315	780	534	6,250	1,760	3,310	390	920	2,610	2,540	829
24-----	40	256	632	1,280	18,200	2,140	3,380	345	748	2,750	1,950	330
25-----	40	385	370	838	17,200	2,020	2,820	244	748	1,400	4,510	190
26-----	44	380	4,330	569	6,840	1,040	2,210	256	1,180	874	16,500	320
27-----	153	508	4,030	756	4,650	1,090	1,120	272	1,200	838	10,400	340
28-----	148	310	2,750	472	3,590	1,880	1,280	276	708	625	4,490	406
29-----	141	169	16,300	340	-----	874	1,690	276	508	527	3,450	375
30-----	76	365	16,300	756	-----	708	1,690	276	472	562	2,340	385
31-----	69	-----	6,840	1,160	-----	1,210	-----	390	-----	466	829	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October-----	211	8	79.8	0.023	0.03
November-----	1,110	71	272	.077	.09
December-----	16,300	134	2,170	.615	.71
January-----	3,730	230	1,300	.368	.42
February-----	18,200	365	4,340	1.23	1.28
March-----	29,200	708	6,260	1.77	2.04
April-----	3,380	668	1,930	.547	.61
May-----	2,210	129	716	.203	.23
June-----	2,820	119	1,140	.323	.36
July-----	17,200	466	3,490	.989	1.14
August-----	16,500	315	2,500	.708	.82
September-----	2,680	190	1,060	.300	.33
The year-----	29,200	8	2,100	.595	8.06

REEDY FORK NEAR SUMMERFIELD, N. C.

LOCATION.—Water-stage recorder 50 feet downstream from highway bridge, half a mile upstream from Brush Creek, and 2 miles southeast of Summerfield, Guilford County.

DRAINAGE AREA.—34.1 square miles.

RECORDS AVAILABLE.—November, 1925, to September, 1927.

EXTREMES.—Maximum discharge during period, October 1, 1926 to September 2, 1927, 630 second-feet July 10 (gage height, 3.06 feet); minimum, 4.5 second-feet several times in October (gage height, 0.28 foot).

1925-1927: Maximum discharge, 690 second-feet January 19, 1926 (gage height, 3.16 feet); minimum, 4.4 second-feet August 30, 1926 (gage height, 0.20 foot).

REMARKS.—Records poor. Discharge estimated January 12-21, February 19-25, April 4-10, July 2-8, and 23-30. No record obtained September 3-30, Diurnal fluctuation caused by operation of gristmill.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	13	17	22	33	28	29	31	33	17	12	299	19
2.....	9.7	12	21	30	25	20	95	25	17	59	80	16
3.....	6.5	10	19	30	23	33	37	22	17	26	23	-----
4.....	7.2	9.7	19	28	23	35	34	20	17	14	23	-----
5.....	5.6	9.7	15	26	22	38	34	19	17	11	19	-----
6.....	7.8	9.7	16	24	19	77	33	19	17	9.4	23	-----
7.....	5.8	8.6	15	23	22	158	32	19	22	30	13	-----
8.....	5.4	10	17	23	20	95	29	18	17	84	17	-----
9.....	5.8	14	19	20	20	63	34	25	15	172	44	-----
10.....	5.1	22	25	19	22	138	34	22	16	347	32	-----
11.....	6.3	14	20	20	23	74	32	17	17	59	22	-----
12.....	7.0	11	17	19	21	44	27	17	17	28	24	-----
13.....	8.6	12	37	16	28	37	24	16	14	21	22	-----
14.....	9.7	10	59	50	112	37	34	16	53	18	15	-----
15.....	7.5	15	30	52	66	37	29	13	148	20	20	-----
16.....	7.0	57	27	26	39	34	26	16	83	76	15	-----
17.....	6.3	44	23	21	34	31	36	13	28	77	14	-----
18.....	7.2	28	22	21	31	29	32	13	24	30	14	-----
19.....	6.0	38	20	24	74	35	29	14	25	182	30	-----
20.....	6.3	27	22	24	71	31	26	14	21	62	223	-----
21.....	6.0	21	24	20	38	30	23	14	16	26	51	-----
22.....	6.3	19	30	26	30	32	31	12	18	20	31	-----
23.....	7.0	19	29	22	30	32	32	11	53	15	22	-----
24.....	9.7	19	25	23	31	27	20	14	22	13	18	-----
25.....	25	15	44	24	32	26	24	13	19	11	94	-----
26.....	12	21	103	24	37	24	23	14	16	11	250	-----
27.....	10	63	43	22	34	22	21	11	14	11	57	-----
28.....	10	29	52	21	34	24	20	12	17	9.8	28	-----
29.....	10	26	370	29	-----	20	20	12	13	9.4	23	-----
30.....	10	25	169	26	-----	22	21	14	12	8.7	20	-----
31.....	8.9	-----	50	30	-----	23	-----	14	-----	13	19	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	25	5.1	8.35	0.245	0.28
November.....	63	8.6	21.2	.622	.69
December.....	370	15	45.3	1.33	1.53
January.....	-----	-----	25.7	.754	.87
February.....	112	19	35.3	1.04	1.08
March.....	158	20	43.8	1.28	1.48
April.....	-----	20	30.8	.903	1.01
May.....	33	11	16.5	.484	.56
June.....	148	12	26.0	.762	.85
July.....	347	-----	47.9	1.55	1.79
August.....	299	13	51.1	1.50	1.73

HORSEPEN CREEK AT BATTLE GROUND, N. C.

LOCATION.—Water-stage recorder 1,000 feet upstream from highway bridge, 1 mile northwest of Battle Ground, Guilford County, and 2½ miles upstream from confluence with Reedy Fork.

DRAINAGE AREA.—15.9 square miles.

RECORDS AVAILABLE.—November, 1925, to August, 1927.

EXTREMES.—Maximum discharge during period October 1, 1926, to August 27, 1927, 331 second-feet July 9 (gage height, 6.74 feet); minimum, 2.3 second-feet several times in October (gage height, 0.95 foot).

1925-1927: Maximum discharge (estimated), 766 second-feet January 18, 1926 (gage height, 7.15 feet); minimum, 0.7 second-foot July 24, 1926 (gage height, 0.72 foot).

REMARKS.—Records between 3 and 50 second-feet, good; between 50 and 250 second-feet and for estimated periods, fair. Discharge estimated March 26 to May 10, July 10-15, August 11-13, 20, and 27. No record obtained on days for which discharge is not given. Slight diurnal fluctuation during low stages.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1.....	4.8	6.3	4.9	12	8.9	8.9	49	20	3.8	4.7	96
2.....	3.7	3.7	4.5	9.2	7.9	11	49	8	3.7	27	12
3.....	3.1	3.6	4.5	8.6	7.6	14	45	6	8.6	12	7.0
4.....	2.9	3.6	4.5	8.2	7.3	18	38	6	5.2	6.3	7.0
5.....	2.8	3.7	4.3	7.6	7.0	31	29	5	4.7	5.0	5.8
6.....	3.6	3.8	4.1	7.0	6.6	94	22	6	4.0	4.3	5.4
7.....	2.7	4.0	4.7	6.6	6.3	51	18	6	11	14	5.2
8.....	2.4	4.0	4.1	6.0	6.0	30	16	7	6.0	81	16
9.....	2.5	4.3	4.5	6.0	6.0	36	16	7	5.0	170	27
10.....	2.5	4.7	5.2	8.9	6.0	55	13	4.0	14	151	13
11.....	2.7	4.1	4.7	11	6.3	25	9	3.6	6.0	22	14
12.....	2.8	4.1	4.9	8.9	6.3	18	8	3.6	4.3	13	13
13.....	4.1	4.1	39	7.3	64	15	8	3.3	10	10	7.0
14.....	3.7	4.1	16	23	62	17	14	3.6	70	13	-----
15.....	3.1	79	9.2	24	23	15	8	3.3	54	32	-----
16.....	2.9	40	7.0	12	16	13	7	3.2	19	46	-----
17.....	3.3	6.6	6.3	9.7	14	12	18	3.3	10	27	-----
18.....	3.1	18	5.4	9.7	11	10	10	3.2	12	35	-----
19.....	3.2	9.7	8.6	11	53	9.2	9	3.2	10	38	-----
20.....	3.1	5.8	5.2	11	-----	8.9	8	3.3	7.6	15	16
21.....	3.3	5.2	5.4	9.2	-----	8.6	6	3.3	6.3	10	50
22.....	3.4	4.9	16	8.2	-----	8.6	22	3.2	13	7.9	70
23.....	3.6	4.9	8.9	7.9	-----	8.6	16	3.2	10	7.0	13
24.....	4.9	4.7	7.9	7.6	-----	7.9	11	3.3	7.0	5.8	8.6
25.....	12.2	4.7	80	7.9	-----	7.9	9	3.4	60	5.2	117
26.....	3.4	4.7	30	7.9	15	7.6	9	3.7	19	5.0	21
27.....	3.3	5.0	16	7.0	12	7.0	8	3.4	8.6	4.9	20
28.....	3.3	4.7	113	7.0	9.7	6.8	8	3.8	6.0	4.5	-----
29.....	3.6	4.7	157	14	-----	6.6	7	4.3	5.4	4.3	-----
30.....	3.6	5.0	24	14	-----	6.4	9	4.7	4.9	4.0	-----
31.....	5.7	-----	15	13	-----	9.0	-----	4.3	-----	47	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	12.2	2.4	3.65	0.230	0.27
November.....	79	3.6	8.86	.557	.62
December.....	157	4.1	20.2	1.27	1.46
January.....	24	6.0	10.0	.630	.73
March.....	94	-----	18.6	1.17	1.35
April.....	-----	-----	16.6	1.04	1.16
May.....	-----	3.2	4.81	.303	.35
June.....	70	3.7	13.6	.855	.95
July.....	170	4.0	26.8	1.69	1.95

MORGAN CREEK NEAR CHAPEL HILL, N. C.

LOCATION.—Water-stage recorder just downstream from Neville Creek, 2½ miles southwest of Chapel Hill, Orange County, and 7 miles upstream from mouth of creek.

DRAINAGE AREA.—29 square miles.

RECORDS AVAILABLE.—January, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,620 second-feet July 8 (gage height, 8.32 feet); minimum, 1.0 second-foot October 9 (gage height, 1.50 feet).

1923-1927: Maximum discharge, about 30,000 second-feet August 4, 1924 (gage height, about 25.0 feet); minimum, 0.47 second-foot September 11, 1925 (gage height, 0.54 foot).

REMARKS. Records good except those for October 19-31 and November 1, which were estimated. Since July, 1925, water is diverted a short distance upstream for water supply of Chapel Hill. The tables of discharge herewith include this diversion.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.6	2.6	7.2	22	8.8	22	21	24	4.4	2.3	46	53
2	3.0	2.2	5.0	17.0	8.6	22	18.2	12.4	4.6	7.0	9.8	11.7
3	2.3	2.1	4.2	14.3	8.6	30	14.3	10.8	22	17.0	6.9	9.6
4	2.3	1.9	4.1	11.7	8.5	34	13.0	10.2	7.8	5.3	8.2	7.8
5	1.5	1.9	4.0	11.0	8.2	76	11.7	9.2	6.9	3.4	5.1	8.6
6	1.4	1.9	3.9	10.0	8.0	278	26	9.1	5.2	2.8	4.0	7.4
7	1.4	1.9	3.5	9.2	8.0	212	17.0	8.8	12.0	60	3.7	7.1
8	1.2	24	3.6	8.5	8.4	148	17.0	8.2	8.4	427	3.3	8.7
9	1.1	9.3	4.0	8.6	9.2	105	39	9.7	6.5	477	4.4	25
10	1.2	4.0	4.4	9.2	9.0	109	30	9.0	5.3	83	4.4	90
11	1.4	3.0	4.1	8.7	8.8	57	22	8.0	8.0	32	4.2	16.2
12	1.2	2.5	3.9	7.7	8.2	44	19.0	7.3	5.2	21	4.3	10.4
13	2.6	2.5	38	13.0	83	38	19.8	6.8	5.8	14.3	3.9	8.6
14	3.3	2.5	22	59	80	34	37	6.9	9.2	11.7	3.4	7.7
15	1.9	2.8	10.7	41	34	31	23	6.8	15.8	10.4	3.2	6.4
16	1.8	12.7	8.1	24	26	28	21	5.8	9.2	9.2	3.0	5.6
17	1.6	5.9	7.1	15.0	22	26	19.0	5.3	5.8	9.2	2.5	5.0
18	1.3	4.7	6.0	13.4	19	24	17.4	5.7	8.6	11.0	2.6	4.7
19	2.1	4.7	5.4	12.7	66	23	15.0	5.6	11.7	13.4	4.5	5.1
20		4.1	5.6	11.7	152	23	14.0	4.9	7.4	9.4	4.2	5.6
21		3.3	5.8	11.4	45	22	12.0	4.7	5.0	7.6	3.9	4.8
22	1.7	3.2	7.8	10.8	32	23	44	4.8	4.7	7.2	4.0	4.0
23		3.2	7.3	10.4	202	19.0	32	4.6	5.0	8.8	3.8	3.8
24		3.1	6.4	10.4	99	17.8	21	4.2	4.0	6.9	3.0	3.6
25		3.0	37	10.3	45	18.6	17.0	6.1	4.0	5.4	220	3.6
26		7.1	16.2	9.9	35	17.8	14.3	9.0	4.6	4.9	84	3.6
27	1.5	1.4	10.0	9.4	29	16.2	12.4	4.7	3.2	4.8	23	3.6
28		5.8	96	9.0	24	15.0	11.6	4.4	2.6	4.6	12.4	3.6
29		4.9	113	11.0	-----	14.3	10.9	5.5	2.5	4.0	9.6	3.5
30	1.5	7.4	35	10.4	-----	14.3	10.4	5.7	2.5	3.9	7.9	3.5
31		-----	24	9.8	-----	15.0	-----	5.3	-----	3.8	7.2	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3.6	1.1	1.83	0.063	0.07
November	24	1.4	4.65	.160	.18
December	113	3.5	16.6	.672	.66
January	59	8.5	14.2	.490	.56
February	202	8.0	39.1	1.35	1.41
March	278	14.3	50.2	1.73	1.99
April	44	10.4	20.0	.690	.77
May	24	4.2	7.53	.260	.30
June	22	2.5	6.93	.239	.27
July	477	2.3	41.6	1.43	1.65
August	220	2.5	16.5	.569	.66
September	90	3.5	11.4	.393	.44
The year	477	1.1	19.1	.659	8.96

DEEP RIVER AT RAMSEUR, N. C.

LOCATION.—Water-stage recorder 2,000 feet downstream from railroad station at Ramseur, Randolph County, and 1½ miles downstream from Sandy Creek.

DRAINAGE AREA.—343 square miles.

RECORDS AVAILABLE.—November, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,690 second-feet December 29 (gage height, 14.14 feet); minimum, 10 second-feet October 14 (gage height, 0.39 foot).

1923-1927: Maximum discharge, 14,700 second-feet, revised, March 13, 1923 (gage height, 19.22 feet); minimum, 10 second-feet August 4 and in October, 1925, and October 14, 1926.

REMARKS.—Records good. Continual regulation, caused by operation of power plants, but as no plant has more than 10 hours' storage, the weekly and monthly mean discharge is representative of the natural flow.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	21	77	340	202	872	166	400	54	144	198	110
2	20	20	83	253	168	268	192	302	66	1,900	725	92
3	14	19	79	216	142	415	139	186	71	385	192	73
4	17	18	42	196	136	508	164	143	61	119	107	46
5	15	17	24	163	76	861	166	138	43	154	103	120
6	14	16	49	158	101	2,850	162	125	53	114	86	139
7	13	16	50	131	115	3,270	138	108	82	489	60	98
8	12	16	54	86	176	1,470	144	82	106	1,350	91	142
9	11	18	82	97	216	1,150	195	376	85	1,200	93	136
10	11	30	35	146	150	1,150	234	238	112	1,210	277	593
11	11	42	45	147	156	774	255	134	523	1,030	142	167
12	11	49	28	111	118	585	198	126	159	385	117	137
13	11	40	605	110	897	463	159	119	143	175	201	113
14	10	35	711	183	2,230	441	198	80	845	358	54	94
15	11	43	317	706	728	428	225	45	897	300	72	92
16	11	418	176	249	459	364	160	79	585	128	75	91
17	11	351	128	248	339	292	135	82	256	149	109	68
18	11	147	93	224	298	268	213	84	295	517	84	42
19	12	134	48	180	940	242	165	81	406	1,390	203	67
20	12	139	96	204	2,180	217	169	75	229	905	725	142
21	12	58	98	162	875	234	176	48	156	290	654	160
22	13	83	103	139	526	232	193	38	116	165	593	114
23	13	93	168	142	2,710	199	369	54	116	109	207	90
24	12	83	101	158	2,180	180	208	69	171	139	108	62
25	12	39	1,940	171	755	172	231	77	114	158	1,230	38
26	12	46	866	148	514	152	162	68	71	128	553	63
27	13	257	346	169	376	111	135	61	112	105	216	66
28	13	105	2,480	131	323	171	116	45	97	132	208	82
29	13	118	5,520	125	-----	174	124	42	86	117	156	76
30	13	99	893	163	-----	155	97	68	69	43	132	71
31	20	-----	485	231	-----	147	-----	61	-----	24	120	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	28	10	13.3	0.039	0.04
November	418	16	85.7	.250	.28
December	5,520	28	510	1.46	1.72
January	706	86	190	.554	.64
February	2,710	76	646	1.86	1.96
March	3,270	111	607	1.77	2.04
April	369	97	180	.525	.59
May	400	38	117	.341	.39
June	897	43	206	.60 ^a	.67
July	1,900	43	445	1.30	1.50
August	1,230	54	255	.743	.86
September	593	38	113	.32 ^a	.37
The year	5,520	10	279	.813	11.06

PEE DEE RIVER BASIN

YADKIN RIVER AT NORTH WILKESBORO, N. C.

LOCATION.—Chain gage at bridge 3,870 feet downstream from Southern Railway station at North Wilkesboro, Wilkes County.

DRAINAGE AREA.—500 square miles.

RECORDS AVAILABLE.—April, 1903, to June, 1909, and October, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,020 second-feet November 16 (gage height, 7.15 feet); minimum, 210 second-feet November 14 (gage height, 0.60 foot).

1903-1909, 1920-1927: Maximum discharge, 22,300 second-feet November 19, 1906 (gage height, 18.8 feet, old gage datum); minimum, 161 second-feet July 25, 1926 (gage height, 0.34 foot).

REMARKS.—Records good. Very slight regulation from mill dams upstream.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	300	272	605	664	452	532	414	618	760	379	331	396
2.....	315	260	582	574	452	492	379	574	618	362	452	379
3.....	300	272	540	532	414	452	396	532	532	346	492	362
4.....	285	260	500	532	414	396	574	532	492	379	396	331
5.....	260	260	462	492	492	452	452	492	414	492	379	331
6.....	410	260	650	492	492	452	414	492	396	414	362	316
7.....	375	285	605	492	452	414	396	492	379	379	346	302
8.....	360	285	560	492	414	379	379	492	452	1,220	452	288
9.....	360	272	500	452	414	362	379	574	618	532	452	275
10.....	375	260	560	452	414	362	362	532	574	414	492	262
11.....	392	248	582	414	396	574	379	492	492	362	532	316
12.....	375	235	540	492	396	532	618	492	492	414	414	316
13.....	360	222	500	492	396	492	532	492	452	452	397	302
14.....	345	210	480	452	414	492	492	492	414	414	362	288
15.....	330	260	605	414	414	452	492	452	452	396	346	275
16.....	300	2,630	695	414	396	414	452	452	574	379	452	262
17.....	330	1,190	650	396	396	396	414	414	492	346	379	262
18.....	360	1,090	582	532	379	396	396	414	452	346	760	316
19.....	345	1,090	540	492	414	379	396	492	396	396	664	302
20.....	345	790	462	492	1,170	362	379	532	379	379	574	275
21.....	330	605	428	452	964	346	362	452	379	379	532	262
22.....	315	520	560	452	860	362	396	452	379	379	414	250
23.....	300	462	560	574	860	452	492	414	618	346	396	237
24.....	285	445	500	492	760	414	452	492	618	492	362	237
25.....	272	410	480	452	712	379	414	574	532	492	362	226
26.....	260	695	2,650	452	664	379	396	532	492	452	492	262
27.....	285	890	2,700	414	574	362	396	452	452	396	414	275
28.....	330	740	2,160	414	532	362	379	414	414	379	414	262
29.....	315	650	1,750	396	-----	492	362	396	414	362	396	262
30.....	300	605	1,380	379	-----	452	379	379	396	346	379	250
31.....	285	-----	964	492	-----	414	-----	492	-----	331	379	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	410	260	326	0.652	0.75
November.....	2,630	210	556	1.11	1.24
December.....	2,700	428	817	1.63	1.88
January.....	664	379	475	.950	1.10
February.....	1,170	379	540	1.08	1.12
March.....	574	346	426	.852	.98
April.....	618	362	424	.848	.95
May.....	618	379	487	.974	1.12
June.....	760	379	484	.968	1.08
July.....	1,220	331	424	.848	.98
August.....	760	331	437	.874	1.01
September.....	396	226	280	.578	.64
The year.....	2,700	210	474	.948	12.85

YADKIN RIVER NEAR SALISBURY, N. C.

LOCATION.—Staff gage at highway bridge 1,000 feet upstream from Southern Railway bridge and 6 miles northeast of Salisbury, Rowan County.

DRAINAGE AREA.—3,400 square miles.

RECORDS AVAILABLE.—September, 1895, to December, 1909; September, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, 27,200 second-feet February 21 (gage height, 8.10 feet); minimum, 845 second-feet October 10 and 12 (gage height, 1.50 feet).

1895-1909, 1911-1927: Maximum discharge, 121,000 second-feet July 18, 1916 (gage height, 23.8 feet); minimum, 700 second-feet several times in August and September, 1925, and July 24, 1926 (gage height, 1.4 feet).

REMARKS.—Records good. During low stages flow may be somewhat affected by developed powers on river and tributaries.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	1,260	1,640	2,420	5,760	3,070	4,080	2,940	2,940	3,200	1,540	2,180	1,850
2-----	1,350	1,260	2,420	4,400	2,680	4,080	3,340	3,480	2,680	1,540	1,540	1,900
3-----	1,170	1,170	2,180	3,780	2,420	4,400	3,780	2,940	2,300	1,540	1,440	2,070
4-----	1,260	1,170	1,960	3,480	2,420	4,400	3,200	2,680	2,070	1,740	1,540	1,350
5-----	1,080	1,170	1,850	3,200	2,300	5,080	2,800	2,420	2,180	1,540	1,350	1,350
6-----	1,080	1,170	1,960	2,940	2,300	7,500	2,860	2,420	2,180	1,350	1,350	1,350
7-----	1,080	1,170	1,850	2,680	2,420	9,800	2,680	2,420	1,960	1,260	1,540	1,170
8-----	1,350	1,170	1,740	2,680	2,180	7,860	2,680	2,940	2,420	3,480	1,260	1,170
9-----	1,170	1,080	1,740	2,420	2,180	7,500	2,680	3,930	2,420	7,500	2,550	1,080
10-----	1,000	2,070	2,180	2,680	2,180	10,600	3,200	3,780	2,180	7,140	2,070	1,740
11-----	1,000	2,680	2,940	2,420	2,300	9,000	3,480	2,800	3,200	7,860	2,300	2,680
12-----	922	1,640	2,680	2,180	2,300	6,440	3,070	2,420	2,420	2,940	2,070	1,850
13-----	1,080	1,440	3,480	1,960	2,420	5,080	2,940	2,180	2,800	2,300	1,540	1,540
14-----	1,170	1,260	6,160	2,180	6,440	4,740	2,940	2,180	4,740	2,180	1,350	1,350
15-----	1,170	1,540	4,740	3,340	7,140	4,400	3,200	2,070	6,440	4,080	1,350	1,170
16-----	1,170	4,740	3,480	2,680	5,080	4,080	2,940	2,180	5,080	4,400	1,540	1,170
17-----	1,170	13,600	2,940	1,960	3,630	3,780	2,940	1,960	3,200	3,200	1,170	1,080
18-----	1,170	6,440	2,680	2,070	3,200	3,340	3,070	1,960	2,680	3,200	1,260	1,000
19-----	1,000	5,760	2,300	3,200	5,870	4,400	2,940	1,960	2,800	8,240	1,740	1,440
20-----	1,000	5,760	2,420	2,550	22,300	6,780	3,480	1,960	2,940	6,440	6,440	2,680
21-----	1,000	3,480	2,300	2,180	24,400	4,400	3,200	1,960	2,180	2,680	6,440	4,400
22-----	1,000	2,680	2,180	2,180	11,800	4,400	3,200	2,180	2,180	2,070	5,080	1,960
23-----	1,000	2,300	2,550	2,180	9,000	6,100	4,400	1,960	3,200	2,420	3,200	1,440
24-----	1,000	2,180	2,420	2,300	12,700	4,080	3,630	1,850	4,080	1,740	2,420	1,350
25-----	1,350	1,960	4,400	2,180	10,200	3,480	3,780	1,960	2,940	1,960	2,800	1,080
26-----	2,300	1,960	9,400	2,420	6,440	3,340	3,200	2,180	2,180	1,540	3,480	1,170
27-----	1,960	3,200	10,600	2,420	5,080	3,200	3,070	2,180	2,070	1,540	2,180	1,000
28-----	1,440	3,780	9,000	2,420	4,400	3,200	2,940	1,960	1,740	1,350	2,070	1,080
29-----	1,170	2,940	20,300	2,420	-----	2,940	2,680	1,740	1,740	1,350	1,960	1,000
30-----	1,170	2,550	17,300	2,940	-----	2,800	2,680	2,550	1,540	1,440	2,180	922
31-----	1,170	-----	8,620	3,200	-----	2,940	-----	2,680	-----	1,540	1,740	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October-----	2,300	922	1,200	0.333	0.41
November-----	13,600	1,080	2,830	.832	.93
December-----	20,300	1,740	4,620	1.3	1.57
January-----	5,760	1,960	2,750	.809	.93
February-----	24,400	2,180	6,030	1.77	1.84
March-----	10,600	2,800	5,100	1.50	1.73
April-----	4,400	2,680	3,130	.921	1.03
May-----	3,930	1,740	2,400	.706	.81
June-----	6,440	1,540	2,790	.821	.92
July-----	8,240	1,260	3,000	.802	1.02
August-----	6,440	1,170	2,290	.674	.78
September-----	4,400	922	1,550	.436	.51
The year-----	24,400	922	3,120	.978	12.48

YADKIN RIVER AT HIGH ROCK, N. C.

LOCATION.—Water-stage recorder at Brinkles Ferry at High Rock, Davidson County, 2 miles upstream from mouth of Lick Creek. Gage datum is mean sea level.

DRAINAGE AREA.—3,930 square miles.

RECORDS AVAILABLE.—January, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year (estimated), 31,600 second-feet February 21 (gage height, 600.00 feet); minimum, 866 second-feet October 11 (gage height, 593.44 feet).

1919-1927: Maximum discharge, 104,000 second-feet July 21, 1919 (gage height, 605.9 feet); minimum discharge, that of October 11, 1926; minimum gage height, 593.27 feet August 31, 1925.

Maximum stage known, 612.1 feet July, 1916 (discharge, 184,000 second-feet).

REMARKS.—Records good except those for estimated period, January 7 to February 20, which are fair. Slight diurnal fluctuation during low-water periods caused by power developments on tributaries. Daily gage-height record December 29 to January 6 and February 22 to April 14 furnished by Tallassee Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	1,160	1,350	2,400	6,250	2,800	4,290	2,910	4,220	3,360	1,570	1,570	1,680
2-----	1,240	1,470	2,350	4,690		4,090	3,190	3,870	2,990	1,570	2,130	1,950
3-----	1,210	1,260	2,220	3,970		4,350	3,780	3,130	2,480	1,570	1,570	1,910
4-----	1,140	1,140	2,060	3,480		5,300	3,250	2,650	2,280	1,660	1,470	1,570
5-----	1,110	1,070	1,910	3,250		5,870	2,910	2,350	2,260	1,620	1,350	1,410
6-----	1,040	1,090	1,930	2,860	2,300	9,550	2,810	2,350	2,400	1,460	1,290	1,380
7-----	1,090	1,100	1,870	2,700		13,300	2,650	2,450	2,260	1,350	1,240	1,240
8-----	1,210	1,070	1,790			10,400	2,650	2,650	2,580	2,730	1,190	1,190
9-----	1,140	1,160	1,790			9,550	2,600	3,480	2,680	9,820	4,060	1,170
10-----	1,030	1,510	1,950			12,600	2,860	4,290	2,750	17,000	3,250	1,400
11-----	940	2,260	2,650	2,400	5,000	10,200	3,540	3,190	6,680	8,680	2,810	2,260
12-----	1,020	1,950	2,750			7,240	3,190	2,450	3,130	4,290	2,220	1,970
13-----	1,000	1,510	3,630			5,680	2,910	2,220	3,020	3,190	1,680	1,590
14-----	1,070	1,290	6,060			4,940	2,810	2,080	5,870	2,500	1,440	1,290
15-----	1,110	1,380	5,120			4,350	3,190	1,950	6,440	3,250	1,440	1,190
16-----	1,070	3,780	3,780		2,600	4,220	3,050	1,990	6,440	5,870	1,790	1,140
17-----	1,160	11,600	3,080			3,540	2,810	1,910	4,220	3,970	1,380	1,090
18-----	1,020	7,440	2,750			3,540	3,080	1,870	4,000	4,420	1,320	1,070
19-----	1,070	5,680	2,400			3,660	3,020	1,830	4,620	9,880	1,370	1,250
20-----	1,000	5,870	2,310			26,000	6,250	3,340	1,830	4,420	10,700	6,060
21-----	1,000	3,780	2,240		2,300	29,800	5,120	3,080	1,990	2,650	4,240	4,450
22-----	960	2,880	2,400			13,800	3,970	3,360	1,790	2,600	2,480	2,330
23-----	1,000	2,310	2,620			14,300	5,490	4,030	1,830	2,970	2,310	3,600
24-----	1,020	2,170	2,480			16,300	4,760	5,490	1,830	4,690	2,170	2,700
25-----	1,100	2,040	5,330			12,000	3,720	4,060	1,950	3,630	1,830	2,830
26-----	1,710	1,950	8,890		2,800	7,440	3,480	3,360	2,170	2,450	1,710	3,630
27-----	2,170	3,130	9,550			6,440	3,250	3,020	2,260	2,130	1,570	3,050
28-----	1,470	4,090	10,400			4,760	3,080	2,830	2,170	1,950	1,410	2,400
29-----	1,240	3,250	20,800				2,970	2,650	1,830	1,640	1,510	1,950
30-----	1,160	2,550	17,900				2,810	2,600	2,260	1,640	1,380	1,990
31-----	1,160		10,000				2,750		2,860		1,470	1,910

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October-----	2,170	940	1,160	0.295	0.34
November-----	11,600	1,070	2,770	.705	.79
December-----	20,800	1,790	4,760	1.21	1.40
January-----	6,250	-----	2,800	.712	.82
February-----	-----	-----	7,140	1.82	1.90
March-----	13,300	2,750	5,620	1.43	1.65
April-----	5,490	2,600	3,170	.807	.90
May-----	4,290	1,790	2,440	.621	.72
June-----	6,680	1,640	3,340	.850	.95
July-----	10,700	1,350	3,620	.921	1.06
August-----	7,040	1,190	2,520	.641	.74
September-----	4,450	1,020	1,530	.389	.43
The year-----	20,800	940	3,380	.860	11.70

FISHER RIVER NEAR DOBSON, N. C.

LOCATION.—Chain gage at Turkey Ford highway bridge on Dobson-Ararat highway 2 miles east of Dobson, Surry County.

DRAINAGE AREA.—109 square miles.

RECORDS AVAILABLE.—September, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,420 second-feet November 16 (gage height, 5.89 feet); minimum, 32 second-feet October 20 (gage height, 0.18 foot).

1920-1927: Maximum discharge, 6,700 second-feet March 16, 1923 (gage height, 10.1 feet); minimum, 16 second-feet August 30, 1925 (gage height, 0.03 foot).

REMARKS.—Records good for discharge to 800 second-feet; fair above.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	52	56	121	161	105	142	110	130	108	54	80	197
2.....	50	56	108	151	102	151	110	124	94	66	75	173
3.....	48	60	102	148	105	161	118	124	82	80	70	154
4.....	64	66	102	145	94	157	121	121	77	82	62	80
5.....	48	68	105	136	92	151	124	116	75	94	62	97
6.....	87	58	118	133	94	167	139	113	80	108	52	99
7.....	56	56	130	127	89	164	151	121	80	116	47	105
8.....	45	52	136	121	87	170	167	127	84	139	48	89
9.....	39	148	133	124	89	164	193	121	92	139	80	99
10.....	45	97	161	127	84	151	167	121	99	80	62	84
11.....	48	92	133	133	87	161	142	110	89	80	58	62
12.....	52	64	108	139	89	157	127	102	89	84	62	47
13.....	48	68	121	148	92	130	151	94	97	92	54	50
14.....	50	64	133	127	99	121	200	97	127	102	50	47
15.....	45	70	127	116	105	127	164	94	133	118	44	44
16.....	42	1,340	116	110	94	133	139	105	84	127	50	54
17.....	52	228	105	105	105	139	139	94	92	139	270	62
18.....	45	540	94	97	127	145	139	94	97	130	116	44
19.....	36	258	97	92	678	133	127	94	89	228	127	228
20.....	33	170	102	94	1,000	139	170	89	82	142	151	70
21.....	44	136	105	99	364	146	295	89	75	89	154	56
22.....	48	121	108	97	228	154	214	84	80	89	940	44
23.....	36	108	99	94	247	164	154	84	80	89	197	47
24.....	52	105	113	92	287	164	124	89	72	84	177	48
25.....	145	121	133	89	232	151	127	116	62	84	157	40
26.....	87	133	291	89	203	139	133	97	54	84	154	48
27.....	66	136	232	97	151	121	139	82	62	80	164	42
28.....	64	124	207	108	145	110	139	105	62	70	186	45
29.....	68	118	190	116	-----	118	139	118	62	64	157	50
30.....	68	133	177	118	-----	116	133	127	58	72	154	45
31.....	54	-----	173	110	-----	121	-----	118	-----	84	210	-----
Month					Maximum		Minimum		Mean		Per square mile	Run-off in inches
October.....					145		33		55.4		0.508	0.59
November.....					1,340		52		162		1.49	1.66
December.....					291		94		135		1.24	1.43
January.....					161		89		118		1.08	1.24
February.....					1,000		84		188		1.72	1.79
March.....					170		110		144		1.32	1.52
April.....					295		110		150		1.38	1.54
May.....					130		82		106		.972	1.12
June.....					133		54		83.9		.777	.86
July.....					228		54		99.6		.914	1.05
August.....					940		44		138		1.27	1.46
September.....					228		40		78.3		.719	.80
The year.....					1,340		33		121		1.11	15.06

SANTÉE RIVER BASIN

SANTÉE RIVER AT FERGUSON, S. C.

LOCATION.—Water-stage recorder at Ferguson, Orangeburg County, 4 miles downstream from mouth of Eutaw Creek.

DRAINAGE AREA.—14,800 square miles.

RECORDS AVAILABLE.—December, 1907, to September, 1927.

EXTREMES.—Maximum discharge during year, 32,500 second-feet March 2 (gage height, 13.3 feet); minimum, 3,200 second-feet October 20 (gage height, 0.67 foot).

1907-1927: Maximum discharge (estimated), 368,000 second-feet July 22, 1916 (gage height, 24.5 feet); minimum, 2,570 second-feet September 2, 1925 (gage height, -0.75 foot). Minimum stage caused by regulation of storage reservoirs upstream.

REMARKS.—Records good. No daily fluctuations, but very distinct weekly fluctuations during average and low-water periods due to power plants at Parr Shoals Reservoir on Broad River and Camden Reservoir on Wateree River.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,890	5,020	4,560	16,700	6,060	28,800	12,700	9,040	4,060	8,330	10,900	4,830
2	6,170	3,910	5,730	16,100	5,730	32,500	12,300	8,050	5,730	7,660	7,660	6,060
3	5,730	3,700	6,290	15,900	7,920	30,500	12,400	6,650	7,660	7,140	6,060	8,160
4	5,020	4,740	6,770	17,200	9,190	27,200	11,200	7,920	8,190	7,140	7,140	9,790
5	4,140	5,220	7,010	15,700	9,190	26,000	9,790	10,600	8,330	5,840	8,050	7,660
6	4,060	5,420	6,290	13,600	9,040	26,000	10,100	10,900	6,890	5,520	9,790	5,420
7	5,120	5,730	4,740	14,600	8,190	26,000	12,200	10,300	4,560	6,650	10,400	5,120
8	5,420	5,320	4,220	15,000	5,840	26,000	13,600	9,190	3,980	9,190	9,040	5,420
9	5,420	4,220	5,520	13,600	5,520	25,000	13,600	7,920	5,320	9,340	6,650	5,420
10	5,320	4,300	6,890	12,960	7,920	23,400	12,900	5,620	6,170	9,340	6,410	6,290
11	4,740	5,950	7,530	7,400	9,950	22,800	10,800	4,830	6,890	13,600	9,790	7,920
12	3,840	5,950	8,050	6,410	10,100	22,200	8,190	6,060	7,400	15,700	13,100	7,790
13	3,700	5,840	7,010	10,300	9,950	22,800	7,660	6,890	7,270	15,700	14,000	7,400
14	4,920	5,950	5,320	9,490	9,190	25,000	9,490	7,400	5,220	14,400	13,300	9,340
15	5,730	5,730	5,620	10,800	6,770	28,800	10,600	7,920	4,740	13,100	10,300	9,040
16	5,730	4,380	13,600	11,100	6,770	30,500	11,300	7,270	7,400	14,000	6,770	7,140
17	5,520	5,320	15,500	11,300	9,340	28,800	11,100	5,120	10,300	15,900	5,950	6,170
18	4,920	7,660	15,500	9,490	10,900	26,000	9,340	4,140	11,100	17,000	6,170	5,840
19	3,770	11,600	14,600	7,400	11,600	24,100	6,410	5,320	10,300	17,600	6,410	5,420
20	3,270	13,600	13,300	7,790	12,200	22,200	6,060	5,730	8,750	18,100	6,890	4,300
21	4,060	14,400	6,890	9,190	14,200	20,500	7,920	5,730	6,060	19,200	8,610	3,980
22	5,420	12,300	6,530	9,040	17,000	16,700	11,400	5,520	5,730	20,100	8,750	5,320
23	5,840	7,920	7,010	9,340	18,600	14,600	12,900	5,220	8,050	21,300	6,410	6,530
24	5,220	6,170	7,530	8,750	19,800	14,000	12,000	4,140	9,950	22,200	7,140	6,410
25	4,920	6,530	8,190	5,950	21,300	14,000	10,100	3,510	11,400	22,800	7,400	6,170
26	3,630	6,650	6,890	5,120	22,800	14,200	8,190	4,220	12,300	23,400	6,770	5,520
27	3,910	6,290	4,830	7,660	25,000	14,800	8,750	4,830	11,100	21,700	6,170	4,220
28	4,740	6,290	4,060	9,340	26,000	14,800	10,300	5,520	7,920	19,200	6,770	3,840
29	5,120	6,890	4,560	9,950	-----	12,000	9,950	5,520	7,530	16,700	5,840	4,920
30	5,420	5,020	7,530	10,100	-----	11,300	9,340	5,220	8,610	14,400	4,300	5,220
31	5,520	-----	14,200	8,890	-----	12,300	-----	4,220	-----	12,900	3,910	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	6,890	3,270	4,940	0.334	0.39
November	14,400	3,700	6,600	.446	.50
December	15,500	4,060	7,820	.528	.61
January	17,200	5,120	10,800	.730	.84
February	26,000	5,520	12,000	.811	.84
March	32,500	11,300	22,100	1.49	1.72
April	13,600	6,060	10,400	.703	.78
May	10,900	3,510	6,470	.437	.50
June	12,300	3,980	7,630	.516	.58
July	23,400	5,520	14,400	.973	1.12
August	14,000	3,910	7,960	.538	.62
September	9,790	3,840	6,230	.421	.47
The year	32,500	3,270	9,780	.661	8.97

LINVILLE RIVER AT BRANCH, N. C.

LOCATION.—Staff gage at highway bridge 800 feet from Branch post office, Burke County, and a quarter of a mile upstream from Lake James

DRAINAGE AREA.—65 square miles.

RECORDS AVAILABLE.—June, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,350 second-feet November 16 (gage height, 4.95 feet); minimum, 20 second-feet September 29 (gage height, 1.47 feet).

1922-1927: Maximum discharge, 3,880 second-feet January 11 and September 28, 1924 (gage height, 6.2 feet); minimum, 7 second-feet September 8, 1925 (gage height, 1.28 feet).

REMARKS.—Records of discharge below 1,300 second-feet, good; others, fair.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	45	45	144	247	116	185	116	145	104	60	68	48
2.....	67	39	134	200	107	157	110	117	84	51	62	40
3.....	52	39	119	185	107	147	102	112	139	51	48	35
4.....	76	41	113	170	107	157	97	104	172	59	51	36
5.....	63	39	107	160	102	157	89	101	115	50	50	33
6.....	54	38	107	144	107	174	99	91	93	51	46	42
7.....	46	39	99	134	107	239	91	88	136	59	42	39
8.....	43	35	91	122	107	272	86	88	109	77	39	36
9.....	39	55	102	125	97	333	86	84	96	84	48	64
10.....	38	144	188	110	97	405	125	82	93	66	45	62
11.....	38	72	134	281	107	333	154	79	84	70	45	48
12.....	55	59	119	144	97	289	119	72	88	60	45	51
13.....	52	48	157	102	107	260	107	70	88	60	42	42
14.....	72	52	177	125	264	289	102	70	112	66	39	33
15.....	55	59	167	119	174	264	102	70	132	55	39	31
16.....	48	1,020	170	107	150	239	102	66	158	59	39	31
17.....	45	380	137	99	140	215	102	68	115	115	42	31
18.....	41	356	131	107	134	196	102	66	129	104	42	31
19.....	43	333	122	102	167	185	110	60	182	216	46	55
20.....	38	260	122	102	456	170	170	62	132	98	39	48
21.....	39	207	116	107	289	163	170	59	109	62	39	36
22.....	39	174	137	102	235	163	769	59	145	75	36	33
23.....	35	154	125	99	268	150	355	55	168	120	42	28
24.....	45	137	119	97	430	134	265	57	120	93	39	27
25.....	67	125	223	91	311	137	216	51	109	62	36	31
26.....	59	144	540	94	260	134	182	48	98	57	33	26
27.....	48	281	311	107	223	128	158	48	84	55	38	24
28.....	45	188	456	97	200	119	145	50	75	55	45	23
29.....	41	163	540	113	-----	104	136	62	70	48	42	23
30.....	43	163	356	113	-----	102	120	224	64	72	33	23
31.....	41	-----	289	131	-----	107	-----	165	-----	79	48	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	76	35	48.9	0.752	0.87
November.....	1,020	35	163	2.51	2.80
December.....	540	91	189	2.91	3.36
January.....	281	91	130	2.00	2.31
February.....	456	97	181	2.78	2.90
March.....	405	102	197	3.03	3.49
April.....	769	86	156	2.40	2.68
May.....	224	48	83.0	1.28	1.48
June.....	182	64	113	1.74	1.94
July.....	216	48	73.8	1.14	1.31
August.....	68	33	43.5	.669	.77
September.....	64	23	37.0	.569	.63
The year.....	1,020	23	117	1.80	24.54

HENRY FORK NEAR HENRY RIVER, N. C.

LOCATION.—Water-stage recorder at highway bridge at Old Link ford, Catawba County, $1\frac{1}{2}$ miles downstream from county line and 2 miles downstream from Henry River, Burke County.

DRAINAGE AREA.—80.0 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,100 second-feet February 20 (gage height, 5.60 feet); minimum, 7.0 second-feet October 5 (gage height, 0.58 foot). Not including diversions.

1925-1927: Maximum discharge (estimated), 5,520 second-feet January 18, 1926 (gage height, 9.5 feet); minimum, 4.1 second-feet July 19 and 20, 1926 (gage height, 0.49 foot). Not including diversions.

REMARKS.—Records good except those for periods of estimates, May 1-8, 29, and 30, which are fair. Diurnal regulation caused by Henry River Manufacturing Co. 2 miles upstream. Diversions upstream for water supply for Morganton and State Hospital for the Insane, 5 second-feet (estimated).

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	32	40	47	97	50	75	58		64	36	26	36
2-----	7.7	38	42	84	44	86	57		57	21	44	32
3-----	7.7	37	37	76	32	75	57		43	9.8	45	19
4-----	7.4	36	35	69	43	75	58		42	16	45	23
5-----	32	33	38	66	42	91	55	50	41	52	44	44
6-----	32	23	56	58	39	112	55		50	36	22	33
7-----	33	8.6	39	51	48	134	52		44	43	8.1	37
8-----	34	8.6	39	47	38	122	49		40	37	35	36
9-----	7.7	38	43	51	33	234	51	46	40	20	35	31
10-----	7.7	52	41	62	24	348	70	48	41	20	34	24
11-----	31	38	24	50	33	178	68	52	51	68	33	41
12-----	36	34	26	43	41	132	56	42	50	50	32	48
13-----	32	22	74	39	60	116	53	37	63	51	19	34
14-----	24	17	78	53	118	103	53	32	54	36	9.0	34
15-----	30	47	66	45	90	91	49	40	68	43	30	34
16-----	9.4	174	64	43	69	83	49	56	62	183	39	35
17-----	9.4	70	50	69	63	78	57	43	45	78	35	28
18-----	9.4	72	47	58	57	72	54	38	64	92	49	12
19-----	39	67	46	55	275	71	110	39	86	67	123	86
20-----	40	50	57	55	1,040	71	91	42	78	64	74	68
21-----	39	48	52	47	232	71	71	22	41	86	101	45
22-----	38	51	46	32	143	71	112	35	28	92	68	38
23-----	23	40	41	41	154	67	118	49	67	52	44	36
24-----	14	38	33	53	232	67	94	36	34	45	40	32
25-----	40	18	151	46	147	67	80	39	36	56	105	9.8
26-----	39	78	213	41	108	64	71	42	42	40	54	42
27-----	38	70	140	42	94	65	65	34	56	44	23	33
28-----	38	55	228	40	83	64	62	40	42	44	30	36
29-----	30	59	400	49	-----	61	62	40	36	43	46	9.8
30-----	21	48	174	59	-----	62	52	52	38	21	32	41
31-----	11	-----	115	63	-----	57	-----	86	-----	9.4	39	-----

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October-----	40	7.4	25.6	May-----	86	22	44.8
November-----	174	8.6	47.0	June-----	86	28	50.0
December-----	400	24	82.0	July-----	183	9.4	50.2
January-----	97	32	54.3	August-----	128	8.1	44.0
February-----	1,040	24	123	September-----	86	9.8	35.3
March-----	348	57	98.8				
April-----	118	49	66.3	The year---	1,040	7.4	59.7

LITTLE SUGAR CREEK NEAR CHARLOTTE, N. C.

LOCATION.—Water-stage recorder just upstream from sewage disposal plant of city of Charlotte one-quarter mile downstream from Brier Creek and 5 miles south of Charlotte, Mecklenburg County. Staff gage at same site used to April 24, 1927.

DRAINAGE AREA.—41.4 square miles.

RECORDS AVAILABLE.—July, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 2,600 second-feet February 23 (gage height, over 10.1 feet); minimum, 2.8 second-feet October 27 (gage height, 0.54 foot).

1924-1927: Maximum discharge (estimated), 3,500 second-feet August 5, 1925 (gage height, about 12.5 feet); minimum, 1.6 second-feet July 30 and August 1, 1925 (gage height, 0.48 foot).

REMARKS.—Records good except those for estimated periods (August 18, 19, 21-27, 29-31, and September 6-20), which are fair.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	4.0	3.6	6.2	17.7	11.8	17.7	21	53	12	6.3	25	6.9
2-----	4.0	4.0	5.6	11.3	11.3	29	19.1	16	8.9	18	7.4	9.4
3-----	4.0	4.0	5.6	11.3	10.9	57	15.4	15	10	16	5.9	5.6
4-----	4.0	4.0	5.3	11.3	10.9	104	15.4	13	10	7.9	5.6	5.6
5-----	3.6	4.0	5.9	11.8	10.9	117	16	12	8.9	20	5.6	5.3
6-----	4.6	4.0	5.9	10.9	10.4	90	17.7	13	8.9	7.4	5.6	5.0
7-----	3.6	4.0	5.6	10.9	10.4	53	17	16	42	6.6	5.6	
8-----	3.4	5.6	5.3	10.0	10.4	73	16	11	10	10	5.3	
9-----	3.4	5.6	6.6	10.0	14.4	491	19.1	10	9.4	48	67	
10-----	3.4	4.0	6.2	10.9	16.0	104	22	10	8.9	13	12	
11-----	5.9	4.0	5.6	10.0	12.3	50	16.5	10	7.9	16	8.4	5.0
12-----	4.3	4.3	6.2	9.5	12.3	39	14.9	9.4	8.4	10	6.9	
13-----	4.3	4.0	111	9.5	12.3	34	17.7	8.4	8.9	8.9	5.6	
14-----	4.0	4.0	39	26	19.1	34	14.9	7.9	9.4	94	5.6	
15-----	4.0	4.6	16.5	16.5	14.4	29	14.9	7.9	9.4	12	5.3	
16-----	4.3	41	11.8	10.0	13.4	26	14.9	7.9	8.4	10	5.6	80
17-----	4.3	6.9	7.7	10.0	12.3	25	14.4	7.9	7.4	196	5.3	
18-----	3.6	14.4	8.1	10.9	12.3	23	14.9	7.4	41	181	15	
19-----	3.6	8.6	7.2	10.4	52	23	19.8	8.4	18	44	120	
20-----	3.6	5.9	7.2	10.9	80	22	14.9	8.4	8.4	28	13	
21-----	3.4	5.6	7.7	10.9	32	20.5	14	7.4	19	12	9.0	4.7
22-----	3.2	5.3	8.1	10.9	24	21	115	6.9	41	12		4.7
23-----	3.6	5.3	7.7	10.0	614	17.7	16	6.9	18	16		4.3
24-----	3.8	5.3	7.7	10.4	90	33	17	7.9	18	10		4.3
25-----	3.8	5.3	23	10.9	43	23	15	7.9	9.4	8.4		4.3
26-----	3.6	5.3	11.3	14.4	37	18.4	13	7.9	7.4	7.9	5.6	4.7
27-----	3.2	17.7	11.3	12.3	20.5	18.4	12	6.6	6.9	6.9		5.0
28-----	3.6	8.1	188	11.3	19.8	17	12	6.3	6.9	6.9		4.3
29-----	3.8	5.9	69	13.9	-----	17	11	9.4	6.6	13	6.0	4.0
30-----	4.0	9.0	30	12.3	-----	16.5	175	23	6.6	6.3	7	3.7
31-----	4.0	-----	17.7	12.3	-----	17	-----	16	-----	14	60	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October-----	5.9	3.2	3.87	0.093	0.11
November-----	41	3.6	7.11	.172	.19
December-----	188	5.3	21.3	.514	.59
January-----	26	9.5	11.9	.287	.33
February-----	614	10.4	44.2	1.07	1.11
March-----	491	16.5	53.6	1.29	1.49
April-----	175	11	24.6	.594	.66
May-----	53	6.3	11.6	.280	.32
June-----	42	6.6	13.2	.319	.36
July-----	196	6.3	28.0	.676	.78
August-----	120	5.3	17.6	.425	.49
September-----	80	3.7	8.23	.199	.22
The year-----	614	3.2	20.3	.490	6.65

BROAD RIVER NEAR CHIMNEY ROCK, N. C.

LOCATION.—Water-stage recorder 1,000 feet downstream from Lake Lure Dam, $1\frac{1}{2}$ miles upstream from old gaging station at Uree, and 3 miles east of Chimney Rock, Rutherford County.

DRAINAGE AREA.—97 square miles.

RECORDS AVAILABLE.—March to September, 1927.

EXTREMES.—Maximum discharge during period, 2,220 second-feet March 25 (gage height, 4.04 feet); minimum, 2.1 second-feet September 27 (gage height, 0.43 foot) caused by regulation.

REMARKS.—Records good except that for May 30, which was estimated. Large diurnal fluctuation caused by operation of power plant at dam. Monthly computations are representative of natural flow as power plant is permitted only 3-inch drawdown on Lake Lure.

Daily and monthly discharge, in second-feet, 1927

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....		193	14	326	94	106	6.3
2.....		153	238	100	59	13	74
3.....		22	175	134	4.7	100	53
4.....		105	88	56	68	64	5.5
5.....		96	90	61	149	9.4	100
6.....		98	86	67	29	44	280
7.....		122	132	86	111	7.1	156
8.....		196	16	85	88	45	51
9.....		98	152	8.8	116	173	70
10.....		28	152	24	13	4.3	90
11.....	33	106	26	15	131	87	45
12.....	111	99	92	34	80	92	126
13.....	252	144	167	305	48	50	5.5
14.....	308	159	78	175	165	6.7	81
15.....	194	207	10	92	11	98	4.3
16.....	148	75	162	72	91	5.9	88
17.....	123	20	130	113	13	79	44
18.....	160	181	13	123	162	70	4.7
19.....	245	68	94	187	63	110	89
20.....	144	143	93	63	72	109	87
21.....	238	172	71	103	13	11	5.9
22.....	186	417	11	150	52	132	89
23.....	161	326	126	168	140	8.8	6.7
24.....	138	61	182	67	18	71	64
25.....	264	262	75	71	18	11	7.1
26.....	98	226	84	4.7	96	65	95
27.....	36	94	72	126	14	17	3.3
28.....	253	162	44	117	87	22	2.3
29.....	165	81	6.3	62	13	120	3.1
30.....	99	110	115	35	92	4.7	2.5
31.....	51		248		13	102	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
March 11-31.....	308	33	162	1.67	1.30
April.....	417	20	141	1.45	1.62
May.....	248	6.3	96.1	1.01	1.16
June.....	326	4.7	107	1.04	1.16
July.....	165	4.7	68.5	.706	.81
August.....	173	4.3	59.3	.611	.70
September.....	280	2.3	58.0	.598	.67

BROAD RIVER NEAR BOILING SPRINGS, N. C.

LOCATION.—Water-stage recorder half a mile upstream from Sandy Run Creek and 3½ miles southwest of Boiling Springs, Cleveland County.

DRAINAGE AREA.—815 square miles.

RECORDS AVAILABLE.—June, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 7,550 second-feet April 19 (gage height, 6.25 feet); minimum, 243 second-feet several times in October (gage height, 0.44 foot).

1925-1927: Maximum discharge, 12,000 second-feet, revised determination, January 18, 1926 (gage height, 8.53 feet); minimum, 186 second-feet September 21 and 22, 1925 (gage height, 0.29 foot).

REMARKS.—Records good except those for August 3-25, which were estimated. Diurnal regulation caused by operation of power plants on Second Broad and Green Rivers.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	338	620	985	1,520	672	1,030	1,300	1,170	1,160	658	564	564
2.....	419	524	994	1,030	665	1,240	1,090	815	898	467	695	455
3.....	269	425	898	815	550	1,400	940	807	735	425	650	359
4.....	369	397	940	1,320	658	1,090	735	914	642	327	650	498
5.....	369	467	585	1,420	492	940	958	940	967	397	650	658
6.....	511	322	606	1,080	397	1,030	985	791	767	620	600	831
7.....	364	279	815	864	518	985	855	688	1,120	425	450	985
8.....	312	550	530	815	727	1,240	855	585	799	1,590	350	620
9.....	380	550	564	550	727	2,830	1,180	864	599	3,290	600	443
10.....	247	823	485	585	703	3,420	940	985	658	1,100	1,100	530
11.....	369	606	425	695	688	2,260	775	775	613	775	900	658
12.....	327	397	620	1,010	767	1,860	743	585	688	1,120	750	518
13.....	333	524	1,220	923	658	1,420	985	613	1,090	872	600	498
14.....	327	397	1,360	906	1,120	1,420	1,000	783	1,050	872	450	359
15.....	317	592	1,060	855	1,070	1,570	1,130	443	985	1,430	350	485
16.....	298	3,370	940	518	735	1,380	1,300	455	872	1,750	500	369
17.....	322	2,170	880	518	695	1,420	1,030	823	1,110	1,170	400	353
18.....	380	1,450	799	783	855	1,220	807	799	1,100	775	550	403
19.....	585	1,380	585	658	1,960	1,130	4,680	635	985	1,830	1,200	898
20.....	414	1,260	658	485	3,820	1,030	1,620	672	855	1,820	850	889
21.....	322	839	898	823	2,080	1,030	1,280	620	783	1,170	600	550
22.....	380	695	620	823	1,620	1,320	2,250	485	1,110	1,400	700	557
23.....	322	658	585	550	2,900	1,210	1,960	467	1,030	1,170	650	467
24.....	397	775	1,030	550	3,630	1,260	1,260	735	898	680	650	348
25.....	1,300	775	735	658	2,230	1,320	985	680	775	550	500	348
26.....	703	743	1,080	751	1,750	1,300	1,360	688	642	703	397	585
27.....	467	1,320	1,080	735	1,260	1,170	1,030	550	518	949	338	485
28.....	369	940	2,200	898	1,030	815	855	550	831	524	443	467
29.....	419	658	3,680	940	-----	1,260	940	599	1,130	504	620	327
30.....	327	635	2,110	585	-----	1,120	923	767	695	425	585	348
31.....	288	-----	1,520	585	-----	1,080	-----	1,280	-----	338	485	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	1,300	247	405	0.497	0.57
November.....	3,370	279	838	1.03	1.15
December.....	3,680	425	1,020	1.25	1.44
January.....	1,520	485	814	.999	1.15
February.....	3,820	397	1,250	1.53	1.59
March.....	3,420	815	1,380	1.69	1.95
April.....	4,680	735	1,230	1.51	1.68
May.....	1,280	443	728	.893	1.03
June.....	1,160	467	854	1.05	1.17
July.....	3,290	327	972	1.19	1.37
August.....	-----	338	607	.745	.86
September.....	985	327	528	.648	.72
The year.....	4,680	247	882	1.08	14.68

BROAD RIVER AT RICHTEX, S. C.

LOCATION.—Water-stage recorder 1 mile upstream from mouth of Little River at Richtex, Fairfield County.

DRAINAGE AREA.—4,800 square miles.

RECORDS AVAILABLE.—November, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 28,400 second-feet February 25 (gage height, 9.14 feet); minimum (estimated), 190 second-feet August 30 (gage height, 0.35 foot).

1925-1927: Maximum discharge, 40,300 second-feet January 20, 1926 (gage height, 12.01 feet); minimum, that of August 30, 1927.

Highest known flood, that of July, 1916; estimated gage height, 29.6 feet (estimated discharge, 208,000 second-feet).

REMARKS.—Records good except those for May 11 to June 25, which were estimated. Complete regulation by operation of Parr Sials hydroelectric plant 11 miles upstream.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,130	1,540	2,930	7,820	2,900	5,940	3,950	2,660	4,320	2,100	1,010	5,650
2	1,180	1,340	2,930	4,780	3,150	6,810	3,950	4,500	2,770	2,870	1,920	4,220
3	754	1,640	3,070	4,880	2,430	8,680	3,410	4,500	4,550	1,600	1,770	2,550
4	1,100	1,860	2,560	4,020	2,900	8,680	3,680	4,220	3,350	2,100	2,320	1,800
5	1,070	1,420	1,110	4,290	2,780	7,400	3,950	3,410	900	3,410	2,100	2,430
6	1,200	1,290	1,950	4,560	1,320	6,810	3,950	3,410	1,680	5,070	1,800	1,680
7	1,550	1,320	2,150	4,980	2,430	7,400	3,680	2,320	2,200	3,410	2,320	1,600
8	1,680	1,670	2,490	3,830	2,320	6,520	3,410	1,170	2,210	2,730	1,400	2,330
9	1,090	1,450	2,040	1,190	3,150	6,900	2,660	1,400	3,330	5,070	1,140	3,960
10	1,350	1,430	2,280	2,590	2,660	22,200	1,700	2,100	3,900	11,500	1,900	3,040
11	852	1,470	2,700	3,000	3,680	23,000	3,410	2,600	4,010	9,360	3,840	4,860
12	1,050	2,350	1,410	2,780	3,680	13,300	3,680	2,680	1,540	6,230	4,780	7,100
13	1,450	1,400	2,120	3,620	852	8,340	3,410	3,850	2,340	5,070	3,950	4,220
14	1,480	1,090	5,300	4,110	2,540	7,400	3,680	1,790	4,810	3,950	1,600	1,620
15	1,400	1,720	5,510	2,740	3,410	6,230	3,150	3,280	4,870	5,070	2,100	1,780
16	949	3,920	5,920	1,350	5,070	5,650	2,210	880	5,470	6,810	1,330	1,520
17	673	4,780	5,650	2,100	4,220	5,360	895	1,700	3,740	10,000	1,600	1,830
18	1,590	6,210	3,700	1,500	4,780	4,500	2,900	1,360	4,080	10,000	1,220	1,060
19	1,460	6,720	1,230	3,150	4,220	4,500	3,410	1,480	889	9,700	3,190	1,700
20	1,480	4,200	2,730	2,540	15,800	3,950	7,750	1,450	2,160	13,000	6,650	1,900
21	760	1,900	3,080	3,410	21,000	3,950	7,100	2,580	4,190	10,000	1,800	2,210
22	1,650	3,040	2,960	2,660	13,000	4,220	4,780	1,640	3,840	7,700	3,680	2,000
23	1,150	2,870	4,150	895	8,020	4,500	4,220	980	5,460	6,520	2,520	1,920
24	782	2,750	1,800	1,500	21,400	3,950	3,950	1,290	5,489	3,410	2,900	1,810
25	1,410	2,360	1,350	2,210	25,800	5,070	4,500	1,390	5,150	4,780	1,500	1,010
26	1,610	3,000	1,240	2,660	17,100	5,650	3,950	2,000	1,400	3,640	2,430	1,600
27	1,410	2,750	3,010	2,900	10,000	4,220	3,680	2,180	3,410	2,110	1,510	1,120
28	2,700	966	4,600	2,660	6,810	3,950	3,410	2,420	3,270	2,730	1,500	1,270
29	2,000	3,080	14,600	3,150	-----	3,950	3,410	1,910	2,000	2,660	1,170	1,190
30	1,340	2,930	17,900	895	-----	3,950	2,540	1,200	1,630	2,850	987	1,130
31	935	-----	12,600	2,540	-----	3,950	-----	1,860	-----	2,000	1,410	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,700	673	1,300	0.271	0.31
November	6,720	966	2,480	.517	.58
December	17,900	1,110	4,100	.854	.98
January	7,820	895	3,070	.640	.74
February	25,800	852	7,050	1.47	1.53
March	23,000	3,950	7,000	1.46	1.68
April	7,750	895	3,680	.767	.86
May	4,500	880	2,260	.471	.54
June	5,480	880	3,300	.688	.77
July	13,000	1,600	5,400	1.12	1.29
August	5,650	987	2,200	.458	.53
September	7,100	1,010	2,400	.500	.56
The year	25,800	673	3,670	.704	10.37

SANTEE RIVER BASIN

65

SECOND BROAD RIVER AT CLIFFSIDE, N. C.

LOCATION.—Water-stage recorder at Cliffside, Rutherford County, 2 miles upstream from mouth of river.

DRAINAGE AREA.—230 square miles.

RECORDS AVAILABLE.—June, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,450 second-feet February 24 (gage height, 2.89 feet); minimum, 16 second-feet several times in January and February (gage height, 0.55 foot).

1925-1927: Maximum discharge, 3,860 second-feet January 19, 1926 (gage height, 4.74 feet); minimum, 9.6 second-feet June 21, 1925 (gage height, 0.44 foot).

REMARKS.—Records good. Large diurnal fluctuation caused by operation of Cliffside Mills, a quarter of a mile upstream.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	105	44	110	160	162	248	183	142	177	100	217	122
2.....	156	57	140	110	143	240	127	267	120	115	206	129
3.....	38	52	110	170	138	324	97	175	148	36	163	78
4.....	76	45	100	220	148	261	233	134	129	38	148	38
5.....	120	43	40	230	105	194	189	165	25	102	128	128
6.....	39	47	172	193	35	266	137	164	157	98	96	266
7.....	50	31	121	178	187	325	174	113	152	99	53	235
8.....	60	96	85	111	147	260	183	124	199	396	167	151
9.....	62	119	95	105	125	669	129	194	169	765	299	142
10.....	64	170	80	231	148	940	63	159	146	235	181	155
11.....	66	143	70	183	148	560	229	141	93	291	163	189
12.....	83	134	95	148	110	393	148	131	77	230	126	205
13.....	108	96	230	130	41	333	171	159	213	212	93	141
14.....	128	35	261	137	350	352	161	107	184	158	38	110
15.....	111	160	200	107	286	295	164	20	162	228	132	112
16.....	97	461	210	40	216	238	105	116	146	611	139	111
17.....	76	450	210	176	191	250	102	145	161	288	125	97
18.....	66	231	130	164	203	247	257	104	113	282	123	50
19.....	74	204	110	149	270	152	962	92	177	867	244	128
20.....	57	132	150	150	1,080	136	382	91	214	901	242	277
21.....	45	110	230	137	765	304	276	61	159	436	221	181
22.....	40	234	210	124	428	218	527	18	159	122	163	142
23.....	31	151	150	77	782	150	429	119	195	170	139	132
24.....	28	170	130	162	1,130	206	216	119	175	109	121	95
25.....	48	120	110	151	590	212	323	97	139	212	120	39
26.....	66	160	110	157	401	135	230	104	51	139	119	114
27.....	57	190	170	156	322	114	159	136	183	125	90	104
28.....	32	160	370	139	351	269	186	94	153	133	39	100
29.....	32	100	530	112	-----	203	198	21	134	153	121	93
30.....	30	85	300	69	-----	147	166	153	102	74	131	95
31.....	27	-----	180	207	-----	154	-----	248	-----	35	122	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	156	27	66.8	0.290	0.33
November.....	461	31	141	.613	.68
December.....	530	40	168	.730	.84
January.....	231	40	148	.643	.74
February.....	1,130	35	322	1.40	1.46
March.....	940	114	284	1.23	1.42
April.....	962	63	230	1.00	1.12
May.....	267	18	126	.548	.63
June.....	214	25	147	.639	.71
July.....	901	35	250	1.09	1.26
August.....	299	38	144	.626	.72
September.....	277	38	132	.574	.64
The year.....	1,130	18	179	.778	10.55

SANDY RUN CREEK NEAR BOILING SPRINGS, N. C.

LOCATION.—Staff gage at county highway bridge half a mile downstream from Gray Creek and 2½ miles southwest of Boiling Springs, Cleveland County.

DRAINAGE AREA.—67 square miles.

RECORDS AVAILABLE.—May, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,580 second-feet (estimated), April 19 (gage height, 6.30 feet); minimum, 14 second-feet, November 9–13 and 16 (gage height, 0.32 foot).

1925–1927: Maximum discharge, that of April 19, 1927; minimum, 14 second-feet several times in September, 1925, and September and November, 1926 (gage height, 0.32 foot).

REMARKS.—Records of discharge below 300 second-feet, good; above that, fair except for November 27–30, December 13–16, 27–31, January 9–29, February 13–28, and March 1–27, for which they were estimated. Possibly slight regulation from old gristmill upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	25	17	52	62	40	120	56	70	34	25	26	25
2.....	25	17	46	59	37	130	53	46	34	24	25	25
3.....	36	17	43	53	35	120	51	46	32	22	25	25
4.....	46	16	39	47	32	120	51	46	30	22	24	21
5.....	32	15	38	46	31	110	51	45	109	21	22	20
6.....	21	15	38	44	31	100	51	42	54	21	22	54
7.....	33	15	39	42	29	100	48	40	37	20	19	38
8.....	30	15	44	38	29	92	48	38	38	67	17	27
9.....	25	14	42	40	61	160	46	38	38	91	180	25
10.....	25	14	41	50	100	230	44	38	31	40	124	108
11.....	25	14	39	40	94	215	44	37	32	159	42	35
12.....	25	14	38	40	90	170	42	36	115	36	38	29
13.....	24	14	130	35	200	150	42	36	100	36	30	25
14.....	25	15	190	40	460	130	40	35	84	34	29	25
15.....	25	15	120	35	210	120	40	34	41	31	25	25
16.....	25	14	80	30	120	110	39	32	32	186	25	22
17.....	34	96	59	35	70	100	38	31	77	124	25	22
18.....	30	90	53	30	50	100	62	31	61	116	206	22
19.....	25	81	48	30	46	100	605	31	45	525	245	21
20.....	25	52	45	30	725	90	124	31	37	168	54	31
21.....	25	32	39	30	300	90	84	31	31	124	245	29
22.....	24	64	57	30	190	90	51	31	133	86	53	27
23.....	22	108	86	30	200	90	48	31	61	59	38	26
24.....	21	78	85	30	550	100	46	31	33	38	31	24
25.....	21	52	142	30	300	90	46	31	26	32	25	21
26.....	18	46	375	35	220	90	46	30	61	29	25	21
27.....	18	80	220	35	170	138	46	29	41	28	25	21
28.....	18	60	340	40	140	116	48	29	31	29	25	18
29.....	18	50	440	45	-----	100	48	44	25	29	22	18
30.....	17	50	230	51	-----	78	48	79	25	27	21	22
31.....	17	-----	120	44	-----	66	-----	42	-----	27	21	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	46	17	25.2	0.376	0.43
November.....	108	14	39.3	.587	.65
December.....	375	38	108	1.61	1.86
January.....	62	30	39.5	.590	.68
February.....	725	29	163	2.43	2.53
March.....	230	66	117	1.75	2.02
April.....	605	38	69.5	1.04	1.16
May.....	79	29	38.4	.573	.66
June.....	133	25	50.6	.755	.84
July.....	325	20	67.0	1.00	1.15
August.....	245	17	56.1	.837	.96
September.....	108	18	28.4	.424	.47
The year.....	725	14	66.2	.988	13.41

SALUDA RIVER AT CHAPPELLE, S. C.

LOCATION.—Water-stage recorder at highway bridge at Chapelle, Newberry County, $8\frac{1}{4}$ miles upstream from mouth of Little River. Staff gage at same site used May 16 to June 26, 1927. Zero of gage is 364.21 feet above mean sea level.

DRAINAGE AREA.—1,290 square miles.

RECORDS AVAILABLE.—May to September, 1927.

EXTREMES.—Maximum discharge during period, 7,300 second-feet July 19 (gage height, 14.93 feet); minimum, 226 second-feet September 29 (gage height, 1.02 feet).

REMARKS.—Records good. Diurnal regulation caused by operation of Ware Shoals power plant.

Daily and monthly discharge, in second-feet, 1927

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1		1,120	606	518	2,570	16	358	2,160	2,390	794	546
2		1,230	957	1,080	2,120	17	896	1,590	5,310	576	462
3		862	1,630	896	1,080	18	896	1,590	3,730	518	408
4		696	636	896	698	19	518	1,350	6,650	546	408
5		576	636	1,010	434	20	490	1,010	4,890	490	896
6		382	1,310	896	862	21	462	1,390	2,300	576	794
7		1,270	1,720	666	1,590	22	490	1,940	1,720	334	518
8		1,010	932	382	1,200	23	310	1,980	2,080	490	462
9		828	3,150	730	1,310	24	896	2,300	1,470	490	462
10		1,080	6,790	1,120	1,040	25	606	1,940	1,160	382	518
11		828	2,550	576	932	26	666	1,270	1,430	382	288
12		730	1,040	666	576	27	666	762	1,040	408	385
13		730	2,260	518	1,080	28	576	1,200	932	490	310
14		2,300	1,670	576	794	29	546	1,010	828	382	288
15		2,210	1,430	434	606	30	698	828	794	382	310
						31	1,590		666	666	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
May 16-31	1,590	310	666	0.516	0.31
June	2,300	382	1,270	.984	1.10
July	6,790	606	2,090	1.62	1.87
August	1,120	334	609	.472	.54
September	2,570	288	797	.618	.69

SALUDA RIVER NEAR SILVERSTREET, S. C.

LOCATION.—Staff gage 500 feet upstream from Higgins Ferry Bridge, 1 mile downstream from Little River, and 2½ miles south of Silverstreet, Newberry County.

DRAINAGE AREA.—1,570 square miles.

RECORDS AVAILABLE.—January to September, 1927.

EXTREMES.—Maximum discharge during period, 8,210 second-feet February 20 (gage height, 14.9 feet); minimum, 248 second-feet September 29 (gage height, 3.60 feet).

REMARKS.—Records good. Diurnal fluctuation caused by operation of power plants upstream.

Daily and monthly discharge, in second-feet, 1927

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		1,120	2,320	1,380	1,020	1,800	653	471	2,580
2		1,220	4,300	1,800	1,380	1,280	653	913	2,640
3		1,120	3,640	1,740	1,430	1,070	2,000	1,020	1,170
4		1,170	3,160	1,070	1,120	757	757	809	757
5		1,070	2,420	1,480	1,020	653	1,120	1,070	471
6		861	2,160	1,430	913	545	2,000	965	757
7		627	1,690	1,170	1,120	1,070	1,120	705	1,430
8		1,280	2,060	1,280	913	1,170	2,370	397	1,220
9		1,380	3,100	1,280	601	1,070	6,790	913	1,380
10		1,850	5,580	1,120	1,020	965	3,360	1,170	1,280
11		1,590	6,790	861	913	965	1,170	913	1,070
12		1,170	4,070	1,430	1,020	913	2,060	705	601
13		1,170	3,230	1,220	965	861	2,580	523	913
14		1,480	2,370	1,170	1,020	1,740	1,850	575	1,070
15		2,640	2,420	1,170	809	2,260	1,540	523	627
16		2,470	2,060	1,120	445	2,110	2,110	757	523
17		2,000	2,160	1,220	757	1,590	5,840	601	497
18	1,590	1,430	1,900	705	705	1,590	5,490	497	497
19	1,220	2,320	1,850	965	601	1,900	6,980	601	471
20	1,020	7,860	1,850	1,120	549	1,710	7,080	523	809
21	1,120	7,180	1,280	1,070	575	1,330	2,580	575	861
22	1,070	2,860	1,640	1,070	549	2,000	1,950	356	575
23	1,020	2,520	1,740	1,020	705	2,110	2,210	549	471
24	705	5,660	1,800	1,220	1,020	2,260	1,800	523	471
25	1,120	5,660	2,640	1,380	757	2,320	1,220	397	523
26	1,170	4,840	1,900	1,280	757	1,430	1,120	376	356
27	1,220	3,500	1,380	1,220	913	1,120	965	445	356
28	1,120	2,370	1,690	1,070	705	1,280	861	421	356
29	1,220	1,640	1,070	1,070	653	1,170	757	376	274
30	1,120	1,540	1,170	809	965	1,070	376	356	356
31	1,020	1,430	1,430	1,540	1,540	757	653	653	-----

Month	Maximum	Minimum	Mean	Per square mile	Run off in inches
January 18-31	1,590	705	1,120	0.713	0.37
February	7,860	627	2,510	1.60	1.67
March	6,790	1,280	2,510	1.60	1.84
April	1,800	705	1,210	.771	.86
May	1,540	445	881	.561	.65
June	2,320	549	1,380	.879	.98
July	7,080	653	2,350	1.60	1.73
August	1,170	356	635	.404	.47
September	2,640	274	845	.538	.60

.SALUDA RIVER NEAR CHAPIN, S. C.

LOCATION.—Water-stage recorder at Wise Ferry highway bridge just downstream from Johns Creek and 7¾ miles southeast of Chapin, Lexington County. Chain gage at same site used January 15 to June 21, 1927.

DRAINAGE AREA.—2,320 square miles.

RECORDS AVAILABLE.—January to September, 1927.

EXTREMES.—Maximum discharge during period, 15,100 second-feet February 20 (gage height, 7.30 feet); minimum, 281 second-feet September 30 (gage height, 0.86 foot).

REMARKS.—Records good except those for estimated periods, which are fair. Discharge estimated January 16, June 30, July 8, August 14-19, and September 4-7. Moderate diurnal regulation caused by operation of power plant at Ware Shoals.

Daily and monthly discharge, in second-feet, 1927

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....		1,320	2,460	1,490	1,260	1,740	812	718	1,480
2.....		1,380	10,200	1,860	1,160	1,260	812	613	3,170
3.....		1,160	6,310	2,000	1,490	1,260	1,500	1,160	1,740
4.....		1,260	3,950	1,490	1,260	1,110	1,490	1,210	1,210
5.....		1,160	2,990	908	1,110	718	1,000	2,560	812
6.....		1,210	2,630	2,000	1,060	718	1,260	1,610	492
7.....		860	2,300	1,490	1,160	517	1,740	1,110	860
8.....		955	2,000	1,380	1,160	1,210	2,630	718	1,740
9.....		2,300	5,060	1,380	765	1,160	7,680	478	1,320
10.....		1,740	10,200	1,380	651	1,160	7,260	2,080	1,380
11.....		1,740	8,270	1,110	1,160	1,260	2,700	1,320	1,260
12.....		1,000	6,050	1,060	908	1,000	1,490	1,000	1,000
13.....		1,490	3,550	1,490	1,000	860	2,810	765	670
14.....		1,740	3,170	1,320	908	955	2,460	534	1,160
15.....		2,630	2,630	1,260	860	2,460	2,500	534	908
16.....	1,110	2,630	2,460	1,260	604	2,630	2,630	369	670
17.....	860	2,300	2,300	1,260	407	2,000	3,950	718	642
18.....	1,000	1,860	2,140	1,210	765	1,610	6,310	492	542
19.....	1,610	2,140	2,000	670	604	2,000	7,950	1,160	470
20.....	1,110	11,600	2,000	1,320	567	1,490	10,900	765	632
21.....	1,160	9,210	1,740	1,110	509	1,210	4,950	622	860
22.....	1,160	3,950	1,320	1,110	478	1,610	3,360	670	860
23.....	1,110	3,950	2,000	1,210	485	2,630	2,460	517	584
24.....	1,060	9,540	1,860	1,260	382	2,630	2,990	470	485
25.....	718	7,110	2,990	1,380	908	2,990	1,610	575	492
26.....	1,210	6,570	2,630	1,260	718	2,300	1,380	456	558
27.....	1,160	4,600	2,000	1,320	718	1,490	1,490	427	375
28.....	1,210	2,810	1,610	1,210	718	1,000	1,110	463	345
29.....	1,210	-----	1,210	1,110	670	860	1,000	517	375
30.....	1,380	-----	1,860	1,110	718	765	955	434	317
31.....	1,110	-----	1,610	-----	1,110	-----	908	394	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
January 15-31.....	1,380	718	1,140	0.491	0.31
February.....	11,600	860	3,240	1.40	1.46
March.....	10,200	1,210	3,340	1.44	1.66
April.....	2,000	670	1,310	.565	.63
May.....	1,490	382	848	.366	.42
June.....	2,990	517	1,490	.642	.72
July.....	10,900	812	2,970	1.28	1.48
August.....	2,560	369	821	.354	.41
September.....	3,170	317	914	.394	.44

SALUDA RIVER NEAR COLUMBIA, S. C.

LOCATION.—Water-stage recorder a quarter of a mile upstream from site of old Saluda mill and 2 miles upstream from confluence of Saluda and Broad Rivers, which form the Congaree at Columbia, Richland County.

DRAINAGE AREA.—2,450 square miles.

RECORDS AVAILABLE.—August, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 12,300 second-feet July 20 (gage height, 5.62 feet); minimum, 294 second-feet September 28 (gage height, 0.64 foot).

1925-1927: Maximum discharge, 23,300 second-feet March 31, 1926 (gage height, 7.75 feet); minimum, 125 second-feet September 10, 1925 (gage height, 0.25 foot).

REMARKS.—Records good. Slight diurnal regulation produced by mills on headwaters.

Daily and monthly discharge, in second-feet, 1925-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	670	625	1,280	5,640	1,090	2,790	1,560	1,410	1,700	1,090	915	888
2.....	532	518	1,340	3,000	1,280	8,970	1,700	1,210	1,470	862	762	3,220
3.....	502	625	1,150	2,210	1,280	7,870	1,950	1,560	1,370	1,160	972	2,300
4.....	480	862	1,090	2,120	1,210	5,030	1,700	1,480	1,150	1,780	1,280	1,210
5.....	451	625	972	2,120	1,210	3,680	1,150	1,210	870	1,540	1,830	972
6.....	409	625	1,080	1,630	1,150	3,000	1,780	1,090	775	1,410	2,300	582
7.....	582	625	1,560	1,560	972	2,790	1,700	1,030	670	2,120	1,210	715
8.....	915	625	1,280	1,480	972	2,120	1,410	1,280	1,070	1,630	915	1,590
9.....	715	488	1,210	1,410	2,040	4,220	1,410	972	1,270	5,800	582	1,280
10.....	625	532	1,090	1,210	1,780	9,950	1,340	670	1,270	7,220	1,830	1,480
11.....	510	762	1,030	1,090	1,860	2,830	1,210	1,060	1,370	3,220	1,480	1,210
12.....	444	670	1,030	1,410	1,700	7,220	972	972	1,270	1,480	1,210	1,150
13.....	430	670	862	1,340	1,410	4,460	1,560	1,030	1,070	2,790	915	715
14.....	582	670	4,030	1,280	1,560	3,680	1,410	1,030	975	2,790	715	1,050
15.....	525	762	6,260	1,340	2,490	2,790	1,410	915	2,370	2,970	670	915
16.....	488	762	4,460	1,280	2,790	2,790	1,340	762	2,790	2,590	582	715
17.....	525	3,110	3,220	1,090	2,490	2,300	1,340	540	2,490	3,440	762	715
18.....	582	5,330	2,300	762	2,040	2,120	1,340	679	1,870	6,580	715	670
19.....	582	3,920	1,700	1,410	2,210	2,040	915	762	1,950	7,540	1,040	510
20.....	862	2,590	1,340	1,280	8,880	1,950	1,150	625	1,700	11,500	862	625
21.....	810	2,210	1,150	1,150	9,950	1,860	1,210	582	1,370	8,200	670	810
22.....	625	1,410	1,480	1,280	5,940	1,410	1,210	540	2,070	4,740	715	915
23.....	540	1,210	1,480	1,150	4,990	1,860	1,280	540	2,490	3,000	582	670
24.....	532	1,410	1,410	1,090	9,950	1,860	1,280	502	2,790	3,440	480	480
25.....	582	1,340	1,410	810	7,870	2,490	1,410	430	3,070	2,300	625	502
26.....	444	1,280	1,280	1,210	6,900	2,790	1,340	915	2,490	1,630	510	582
27.....	625	1,090	1,210	1,340	5,640	2,210	1,410	715	2,070	1,780	402	437
28.....	915	1,150	1,340	1,340	3,440	1,780	1,280	810	1,480	1,560	502	312
29.....	862	1,150	4,140	1,280	-----	1,280	1,150	810	1,560	1,410	540	395
30.....	762	1,210	7,540	1,340	-----	1,780	1,150	810	1,270	1,210	488	324
31.....	480	-----	8,200	1,210	-----	1,700	-----	810	-----	1,030	402	-----
Month				Maximum		Minimum		Mean		Per square mile		Run-off in inches
October.....				915		409		607		0.245		0.28
November.....				5,330		488		1,300		.531		.59
December.....				8,200		862		2,227		.906		1.04
January.....				5,640		762		1,547		.629		.73
February.....				9,950		972		3,407		1.39		1.45
March.....				9,950		1,280		3,547		1.44		1.66
April.....				1,950		915		1,377		.559		.62
May.....				1,560		430		897		.365		.42
June.....				3,000		670		1,669		.677		.76
July.....				11,500		862		3,227		1.31		1.51
August.....				2,300		402		887		.362		.42
September.....				3,220		312		937		.380		.42
The year.....				11,500		312		1,797		.731		9.90

SAVANNAH RIVER BASIN

CHATTOOGA RIVER NEAR TALLULAH FALLS, GA.

LOCATION.—Water-stage recorder 300 feet upstream from Camp Creek, 5½ miles upstream from confluence with Tallulah River, and 8 miles east of Tallulah Falls, Rabun County.

DRAINAGE AREA.—256 square miles.

RECORDS AVAILABLE.—January, 1917, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,470 second-feet December 26 (gage height, 5.78 feet); minimum, 214 second-feet September 28 (gage height, 0.49 foot).

1917-1927: Maximum discharge, 13,900 second-feet March 24, 1917 (gage height, 12.2 feet); minimum, 94 second-feet September 21 and 22, 1925 (gage height, —0.02 foot).

REMARKS.—Records good except those for estimated period, which are fair.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1.....	300	330	542	1,240	565	820	820	610	520	365	382	382
2.....	315	285	480	1,080	542	820	765	565	460	365	365	315
3.....	300	285	480	1,010	542	710	710	565	440	365	348	300
4.....	300	270	460	945	520	765	710	542	440	365	365	300
5.....	300	270	440	880	520	765	660	542	420	382	365	300
6.....	365	270	440	820	500	765	710	542	400	365	330	315
7.....	315	270	420	765	500	820	660	565	520	348	315	300
8.....	285	270	420	710	520	1,240	660	542	460	382	366	285
9.....	270	584	440	710	520	1,980	660	542	460	400	382	315
10.....	270	610	440	710	500	1,710	710	542	440	440	330	330
11.....	300	420	420	660	480	1,240	710	520	420	460	542	348
12.....	300	365	440	610	520	1,080	660	500	500	520	480	300
13.....	480	348	1,430	610	1,110	1,080	660	480	480	610	400	270
14.....	400	348	1,010	765	1,390	1,160	610	480	520	440	348	270
15.....	348	592	820	710	880	1,080	610	480	520	542	382	255
16.....	330	2,200	765	610	710	945	610	480	565	765	348	255
17.....	382	945	660	660	660	945	610	480	520	710	315	240
18.....	330	945	610	610	660	880	610	480	660	542	330	270
19.....	300	945	565	610	710	880	660	460	610	520	315	285
20.....	285	710	565	610	880	820	610	460	520	460	300	285
21.....	270	610	542	610	765	820	765	480	480	565	300	255
22.....	255	565	710	565	710	820	1,080	460	542	610	300	240
23.....	265	542	660	565	1,470	820	765	440	520		300	227
24.....	285	520	765	542	1,390	820	710	440	500		300	227
25.....	382	500	2,350	542	1,080	820	660	440	520		270	214
26.....	315	664	3,400	565	945	765	660	440	460	400	270	214
27.....	300	880	1,710	610	820	765	610	400	420		300	227
28.....	285	660	2,450	610	765	710	610	420	400		330	227
29.....	270	610	2,550	660		710	610	460	400		315	227
30.....	270	610	1,710	610		710	610	500	382	365	330	227
31.....	300		1,390	565		820		542		365	440	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	480	255	312	1.22	1.41
November.....	2,200	270	581	2.27	2.53
December.....	3,400	420	970	3.79	4.37
January.....	1,240	542	702	2.74	3.16
February.....	1,470	480	756	2.95	3.07
March.....	1,980	710	938	3.66	4.22
April.....	1,080	610	683	2.67	2.98
May.....	610	400	497	1.94	2.24
June.....	660	382	483	1.89	2.11
July.....	765	348	453	1.77	2.04
August.....	542	270	347	1.36	1.57
September.....	382	214	274	1.07	1.19
The year.....	3,400	214	582	2.27	30.89

TUGALOO RIVER NEAR HARTWELL, GA.

LOCATION.—Water-stage recorder three-fourths of a mile upstream from Beaverdam Creek and 11 miles north of Hartwell, Hart County.

DRAINAGE AREA.—905 square miles.

RECORDS AVAILABLE.—April, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,140 second-feet December 29 (gage height, 5.67 feet); minimum, 300 second-feet September 27. (gage height, 0.40 foot).

1925-1927: Maximum discharge (estimated), 15,400 second-feet January 18, 1926 (gage height, 7.76 feet); minimum (estimated), 190 second-feet October 11, 1925 (gage height, -0.10 foot).

REMARKS.—Records good except those for estimated period, November 13-19, which are poor. Marked diurnal fluctuation caused by operation of power plant upstream.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1.....	1,080	450	1,240	2,850	1,650	1,830	1,950	1,400	1,690	1,220	602	792
2.....	1,080	368	1,140	1,580	1,810	2,180	1,940	695	1,450	1,130	1,210	1,210
3.....	829	1,010	1,080	960	1,590	2,020	1,740	1,440	1,190	986	1,180	1,640
4.....	410	1,220	1,450	1,990	1,410	1,910	962	1,530	1,410	630	1,110	668
5.....	1,230	1,120	1,120	1,600	1,440	2,110	2,110	1,450	1,290	634	1,050	372
6.....	1,420	971	612	1,570	1,020	1,490	2,000	1,520	470	872	944	1,250
7.....	1,290	560	1,180	1,920	520	1,260	1,820	1,570	1,290	1,110	560	1,190
8.....	820	517	1,260	1,930	1,840	2,750	1,580	1,630	1,290	1,960	462	967
9.....	817	1,040	1,530	1,330	2,000	4,130	1,700	620	1,300	1,840	1,610	890
10.....	832	1,310	1,340	550	1,440	4,530	1,490	1,410	1,340	936	1,170	1,170
11.....	410	945	1,340	1,760	1,310	3,440	1,030	1,350	1,370	1,130	1,180	724
12.....	1,100	909	1,111	1,410	1,590	2,660	1,800	1,430	1,170	1,470	1,120	555
13.....	1,110	600	2,680	1,360	2,400	1,780	1,880	1,460	630	1,120	1,440	885
14.....	1,380	550	5,560	1,760	4,360	1,400	1,750	1,540	1,290	1,350	803	1,040
15.....	1,520	500	2,350	1,640	2,880	2,630	1,550	914	1,340	1,420	520	1,250
16.....	1,730	2,400	2,070	1,050	1,840	2,300	1,490	550	1,330	1,710	994	1,220
17.....	1,520	4,200	2,000	550	1,600	2,310	1,290	1,250	1,600	1,320	1,270	1,110
18.....	520	3,400	1,690	1,440	1,580	2,010	730	1,380	1,650	1,070	1,230	770
19.....	950	3,000	1,380	1,780	2,100	1,960	1,780	1,280	992	1,670	1,200	482
20.....	1,050	2,750	615	1,530	1,430	1,350	1,980	1,350	930	1,310	925	1,050
21.....	1,270	1,440	1,950	1,350	960	1,420	2,420	1,510	1,410	1,820	763	1,080
22.....	1,060	1,240	1,750	1,270	1,600	2,570	3,760	1,280	2,330	1,330	372	1,020
23.....	1,040	2,200	1,520	1,270	3,070	2,310	1,950	675	1,690	1,280	970	925
24.....	1,280	1,520	1,650	550	5,560	2,520	1,270	1,420	1,830	953	1,010	808
25.....	865	1,100	1,830	1,260	2,820	2,530	877	1,490	1,690	550	1,050	425
26.....	1,080	730	4,640	1,440	2,300	2,400	1,980	1,560	932	1,160	1,010	300
27.....	1,180	1,580	4,010	1,860	1,820	1,050	1,680	1,080	890	1,320	1,030	741
28.....	1,020	1,720	4,480	1,490	1,230	1,050	1,620	913	1,090	1,260	758	824
29.....	1,100	550	7,380	1,860	-----	2,210	1,610	1,010	1,290	1,570	528	934
30.....	1,000	1,530	4,220	1,210	-----	2,600	1,840	865	1,090	1,340	1,040	985
31.....	730	-----	3,090	620	-----	2,260	-----	1,200	-----	970	753	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	1,730	410	1,060	1.17	1.35
November.....	-----	450	1,400	1.55	1.73
December.....	7,380	612	2,230	2.46	2.84
January.....	2,850	550	1,440	1.59	1.83
February.....	5,560	520	1,970	2.18	2.27
March.....	4,530	1,050	2,230	2.46	2.84
April.....	3,760	730	1,720	1.90	2.12
May.....	1,630	550	1,250	1.38	1.59
June.....	2,320	490	1,290	1.43	1.60
July.....	1,960	550	1,240	1.37	1.58
August.....	1,610	372	960	1.06	1.22
September.....	1,640	300	900	1.00	1.12
The year.....	7,380	300	1,470	1.62	22.09

SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.—Water stage recorder at Center Street Bridge in Augusta, Richmond County. Zero of gage is 103.83 feet above mean sea level.

DRAINAGE AREA.—7,304 square miles.

RECORDS AVAILABLE.—January, 1884, to December, 1891; January, 1899, to December, 1906; June to September, 1927.

EXTREMES.—Maximum discharge during period, 27,300 second-feet July 9 (gage height, 20.4 feet) minimum, 890 second-feet August 29, September 26, 29, and 30 (gage height, 4.4 feet).

1884-1891, 1899-1906, 1927: Maximum discharge, about 310,000 second-feet September 11, 1888 (gage height, 38.7 feet); minimum mean daily discharge, 1,450 second-feet October 9, 16, 23 and 30, 1904 (gage height, 3.8 feet).

REMARKS.—Considerable regulation caused by operation of power plants upstream. Records collected by Alabama Power Co. under general supervision of Geological Survey, in connection with a Federal Power Commission project.

Daily and monthly discharge, in second-feet, 1927

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1.....		2,680	3,810	2,810	16.....	6,990	9,030	3,400	2,770
2.....		2,960	4,470	2,970	17.....	8,190	10,300	2,630	2,440
3.....		2,850	4,520	3,520	18.....	11,000	11,200	3,170	1,730
4.....		3,100	4,840	2,630	19.....	10,600	16,000	4,170	2,750
5.....		5,620	9,030	4,070	20.....	9,390	14,800	3,880	2,510
6.....		5,970	6,910	3,530	21.....	7,040	12,000	2,990	2,220
7.....		5,380	4,910	2,790	22.....	6,580	9,710	2,490	2,210
8.....		6,260	4,700	6,350	23.....	6,650	8,490	2,970	2,940
9.....		23,600	4,220	4,640	24.....	7,450	11,100	2,320	2,620
10.....		22,600	2,860	3,180	25.....	8,380	10,300	2,340	1,300
11.....	4,520	14,500	2,290	1,770	26.....	5,740	6,950	2,380	1,760
12.....	3,080	12,800	3,120	3,560	27.....	6,590	5,730	2,180	1,630
13.....	3,410	15,700	4,720	3,260	28.....	6,300	4,270	1,160	1,480
14.....	5,070	12,800	3,010	2,890	29.....	4,190	4,610	2,260	1,290
15.....	5,380	7,540	3,680	2,820	30.....	2,950	5,260	2,480	1,380
					31.....		3,450	2,720	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
June 11-30.....	11,000	2,950	6,480	0.887	0.66
July.....	23,600	2,680	9,280	1.27	1.46
August.....	9,030	1,160	3,570	.489	.56
September.....	6,350	1,290	2,730	.374	.42

BROAD RIVER NEAR BELL, GA.

LOCATION.—Staff gage at Elberton & Eastern Railroad bridge, $1\frac{1}{2}$ miles below Long Creek and 1 mile southeast of Bell, Elbert County. Zero of gage is 355.18 feet above mean sea level.

DRAINAGE AREA.—1,440 square miles.

RECORDS AVAILABLE.—November, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,830 second-feet December 29 (gage height, 13.5 feet); minimum, 380 second-feet September 27, 29, and 30 (gage height, 3.35 feet).

REMARKS.—Records collected by Alabama Power Co. under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1-----	560	700	1,700	905	1,460	1,770	1,090	700	530	1,090	665
2-----	700	700	1,640	905	4,400	1,160	1,090	700	530	1,230	1,160
3-----	630	700	1,380	870	2,850	1,310	870	700	530	535	870
4-----	560	700	1,230	870	1,930	1,160	800	630	470	1,380	735
5-----	560	700	1,120	800	1,540	1,050	800	630	1,310	1,930	735
6-----	560	630	1,050	800	1,460	1,380	800	630	1,050	1,010	870
7-----	530	630	1,050	800	1,460	1,160	800	560	770	800	2,320
8-----	530	630	1,050	905	1,380	1,090	735	560	3,020	735	800
9-----	560	630	1,050	1,620	4,900	1,090	1,160	700	4,700	800	1,010
10-----	870	735	975	1,460	8,100	1,090	1,120	835	3,660	630	2,320
11-----	975	735	905	1,160	3,840	1,540	905	700	2,850	800	530
12-----	630	735	870	1,160	2,160	1,460	800	700	5,200	905	700
13-----	530	800	800	1,460	1,930	1,120	800	700	2,160	700	700
14-----	530	7,240	800	5,700	1,700	1,090	735	700	1,930	530	530
15-----	530	3,660	800	5,300	1,540	1,050	700	1,050	2,490	470	530
16-----	6,410	3,020	800	2,490	1,380	975	700	1,160	2,120	835	530
17-----	2,320	1,460	800	1,770	1,310	975	630	1,090	1,770	630	530
18-----	1,380	1,090	800	1,620	1,160	975	560	2,080	2,680	530	470
19-----	1,310	1,090	800	1,540	1,090	975	560	1,540	2,020	530	700
20-----	1,090	1,050	800	1,930	1,090	975	530	1,090	2,000	530	530
21-----	870	1,050	800	1,540	1,090	975	530	800	2,240	530	530
22-----	870	1,090	800	1,380	1,310	2,160	530	1,090	2,850	530	470
23-----	800	1,160	800	3,840	1,230	2,160	530	2,000	3,200	530	410
24-----	800	1,090	800	7,130	1,160	1,050	530	1,460	3,400	470	410
25-----	735	1,090	800	4,210	1,230	1,050	700	1,230	2,850	470	410
26-----	735	1,310	800	2,490	1,160	1,050	1,090	870	1,460	470	410
27-----	735	1,310	800	1,770	1,090	1,010	870	800	1,230	470	380
28-----	735	1,540	1,850	1,540	1,090	905	770	700	940	470	470
29-----	700	9,720	1,310	-----	1,090	905	700	560	735	470	380
30-----	700	5,600	1,230	-----	1,090	870	700	530	800	470	380
31-----	-----	2,750	1,050	-----	1,090	-----	700	-----	870	470	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
November-----	6,410	530	982	0.682	0.76
December-----	9,720	630	1,790	1.24	1.43
January-----	1,850	800	1,010	.701	.81
February-----	7,130	800	2,070	1.44	1.50
March-----	8,100	1,090	1,910	1.33	1.53
April-----	2,160	870	1,180	.819	.91
May-----	1,160	530	769	.534	.62
June-----	2,080	530	917	.637	.71
July-----	5,200	470	2,080	1.44	1.66
August-----	1,930	470	718	.499	.58
September-----	2,320	380	716	.497	.55

ST. MARYS RIVER BASIN

NORTH PRONG OF ST. MARYS RIVER AT MONIAC, GA.¹

LOCATION.—Staff gage at new highway bridge between Baxter, Fla., and Moniac, Charlton County, Ga., 150 feet upstream from Georgia Southern & Florida Railway trestle. Zero of gage is 92.51 feet above mean sea level.

DRAINAGE AREA.—240 square miles.

RECORDS AVAILABLE.—January, 1921, to December, 1923, and January to September, 1927.

EXTREMES.—Maximum discharge during period January 26 to September 30, 1927, 1,100 second-feet July 23 (gage height, 8.2 feet); no flow May 19 to June 9.

1921-1923, 1927: Maximum discharge (estimated), 2,200 second-feet sometime during period July 30 to August 1, 1921; no flow June 16-24 and 28, 1921, and May 19 to June 9, 1927.

REMARKS.—Records below 2,600 second-feet good except those for extremely low-water periods and those for July 30, 31, and August 1, 1921, August 13, and September 19, 1927, which were estimated. Water pumped from river just above control. The amount diverted is small, but during extremely low stages the entire flow of the stream is utilized and no water passes the control.

Daily discharge, in second-feet, 1921-1923 and 1927

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1921												
1.					140	59	22	4.7	2.6	0.02	2,000	43
2.					140	56	21	3.3	1.4	.30	1,790	38
3.					140	53	19	2.3	.91	3.7	1,520	36
4.					132	48	18	1.3	.82	8.3	1,100	33
5.					164	48	18	.91	.82	16	945	29
6.					164	46	17	.59	1.2	24	875	25
7.					156	43	15	.35	.46	33	875	20
8.					148	43	14	.19	.16	36	805	17
9.					140	71	13	.11	.06	59	605	15
10.					132	77	13	.06	.03	83	515	12
11.					140	71	11	.04	.03	132	440	12
12.					132	65	10	.05	.02	164	390	11
13.					118	62	9.6	.30	.02	230	330	10
14.					104	59	8.8	.30	.01	280	295	9.6
15.					97	53	8.3	.91	.01	172	250	9.0
16.					97	50	7.3	3.5	0	172	220	8.3
17.					90	50	6.8	4.1	0	180	180	7.8
18.					83	48	7.0	3.3	0	172	156	7.8
19.					80	46	6.0	3.3	0	156	140	7.8
20.					77	46	5.1	2.9	0	118	111	5.6
21.					77	38	4.1	11	0	86	97	4.1
22.					74	36	3.1	24	0	90	86	3.1
23.					71	33	12	22	0	111	77	1.7
24.					68	33	12	19	0	148	90	.91
25.					71	31	10	16	.01	240	71	.11
26.				172	68	31	9.3	14	.01	330	71	.05
27.				190	65	29	8.0	11	.01	295	62	.05
28.				180	62	27	7.3	7.8	0	280	53	.30
29.				172	25	25	6.8	7.3	.01	665	48	.05
30.				164	23	23	6.0	5.8	.02	2,100	46	.05
31.				156	22	22	3.7			2,200	48	

¹ Formerly published as "St. Marys River at Moniac, Ga."

Daily discharge, in second-feet, of North Prong of St. Marys River at Moniac, Ga., 1921-1923 and 1927—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1921-22												
1	0.05	0.05	0.30	29	71	156	48	0.16	111	4.1	21	68
2	.03	.05	.30	27	90	140	43	.30	125	6.3	21	53
3	.02	.05	.59	27	104	125	38	.66	172	25	77	43
4	.02	.05	1.0	25	111	148	40	2.3	140	38	111	40
5	.02	.05	2.3	25	111	164	46	2.3	125	43	118	38
6	.02	.05	4.1	18	190	156	36	1.0	140	40	74	33
7	.02	.05	3.5	18	250	156	29	1.6	140	36	77	31
8	.02	.05	3.3	18	265	280	31	.66	148	25	77	29
9	.02	.30	2.3	18	250	265	25	.30	172	18	77	25
10	.02	.59	7.6	18	190	250	21	1.0	172	19	156	48
11	.02	1.0	8.8	25	156	240	23	.30	97	17	190	48
12	.02	1.0	12	25	140	250	18	.40	71	13	210	46
13	.02	1.0	12	25	125	210	16	1.6	56	12	230	43
14	.02	1.0	11	21	118	190	13	.59	36	10	210	38
15	.02	1.0	11	21	111	172	12	.30	29	7.6	190	36
16	.02	1.0	11	21	97	148	8.8	.30	25	6.3	164	33
17	.02	1.0	11	23	97	97	8.0	.59	21	6.3	190	29
18	.02	1.0	21	48	86	90	7.3	.30	13	6.3	350	200
19	.02	1.0	27	48	80	97	4.1	.30	12	13	350	370
20	.02	1.0	29	43	74	111	3.3	.30	12	29	350	350
21	.02	1.0	29	43	68	118	2.8	.46	10	33	330	280
22	.02	.59	29	43	62	125	1.0	1.1	8.8	38	310	220
23	.02	.30	33	43	59	97	1.0	1.7	8.8	43	265	190
24	.03	.30	33	46	53	80	.74	1.0	11	43	230	156
25	.13	.91	33	48	48	68	.30	1.7	8.8	40	180	125
26	.30	.91	29	56	43	62	.13	1.6	7.6	36	148	104
27	.13	.91	29	71	97	59	.30	3.1	6.3	33	125	68
28	.05	.66	27	77	156	59	.30	12	7.6	25	125	50
29	.05	.74	25	77	---	50	.30	71	7.6	25	111	48
30	.05	.52	25	71	---	46	.13	62	6.3	25	97	46
31	.05	---	25	71	---	43	---	62	---	21	80	---
1922-23												
1	43	295	25	140	71	56	230	33	280	250	310	38
2	43	250	21	156	65	56	210	33	250	230	350	38
3	38	230	21	220	65	59	190	29	220	280	390	38
4	43	210	21	310	65	53	180	29	350	240	490	38
5	43	180	21	415	68	50	172	33	440	250	515	33
6	43	156	21	605	97	43	148	38	490	250	490	33
7	38	140	21	670	111	40	132	43	440	265	390	33
8	38	125	21	670	111	38	132	38	390	280	350	33
9	33	111	18	575	97	33	125	36	390	265	280	38
10	33	97	21	490	86	31	111	33	440	250	240	65
11	31	97	21	390	65	29	111	27	440	240	210	77
12	29	83	21	350	68	29	97	25	390	240	180	77
13	29	77	21	310	71	29	97	25	440	230	156	74
14	29	68	21	280	77	31	90	25	515	230	132	71
15	132	65	21	250	80	36	86	53	440	240	111	71
16	390	59	21	230	90	38	83	111	370	250	97	71
17	440	56	21	210	97	46	77	172	350	250	80	77
18	545	50	21	172	104	172	71	190	370	240	68	97
19	670	48	21	156	111	220	71	172	350	350	59	97
20	635	46	38	140	118	230	65	156	310	670	50	97
21	545	43	97	125	118	210	59	164	280	635	43	86
22	490	40	97	111	111	172	53	350	240	605	38	88
23	440	38	97	111	97	140	48	370	200	545	36	88
24	390	36	97	104	83	125	48	350	164	515	33	104
25	310	31	90	97	68	111	43	310	156	490	33	132
26	265	31	90	97	65	111	43	280	156	415	33	156
27	230	29	90	90	65	97	38	280	310	350	33	172
28	190	29	83	83	59	97	36	365	390	350	33	172
29	172	27	77	83	---	104	33	350	310	310	36	156
30	210	25	71	80	---	111	33	250	310	265	38	132
31	200	---	65	77	---	230	---	265	---	280	38	---

*Daily discharge, in second-feet, of North Prong of St. Marys River at Moniac, Ga.,
1921-1923 and 1927—Continued*

Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	
1923				1923				1923				
1	104	21	4.1	11	38	21	8.8	21	29	10	8.8	
2	97	21	4.1	12	33	21	6.3	22	29	8.8	8.8	
3	80	21	4.1	13	33	18	6.3	23	29	8.8	12	
4	68	21	5.1	14	33	18	6.3	24	25	8.8	12	
5	59	21	8.8	15	29	14	6.3	25	25	8.8	12	
6	59	21	8.8	16	29	14	8.8	26	25	8.8	12	
7	59	21	8.8	17	25	14	8.8	27	21	8.8	12	
8	59	21	8.8	18	25	14	8.8	28	21	6.3	12	
9	48	21	8.8	19	33	14	8.8	29	21	6.3	12	
10	43	21	8.8	20	33	12	8.8	30	21	5.1	12	
								31	21	-----	12	
Day				Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1927												
1					20	265	46	7.8	0	43	350	132
2					20	295	40	7.3	0	31	370	111
3					20	265	36	6.3	0	25	465	97
4					19	230	31	4.5	0	20	310	80
5					18	210	29	4.1	0	18	240	71
6					17	172	27	4.3	0	14	190	62
7					16	156	25	2.3	0	12	200	53
8					16	132	38	1.0	0	20	280	48
9					16	118	36	1.0	0	125	240	43
10					16	111	38	1.0	.05	125	172	38
11					16	104	43	.74	.02	80	180	33
12					16	97	40	.46	.02	59	190	29
13					15	97	38	.26	.01	48	154	33
14					17	77	33	.13	.01	156	118	31
15					18	71	36	.11	.04	515	140	33
16					17	65	29	.05	.82	490	440	31
17					17	59	25	.04	5.1	390	280	29
18					16	56	24	.02	12	265	220	24
19					46	50	22	0	13	240	200	31
20					50	48	20	0	12	265	220	38
21					46	43	18	0	29	230	210	19
22					43	53	17	0	74	390	164	19
23					43	90	16	0	80	1,100	390	15
24					132	80	13	0	490	910	310	14
25					390	71	12	0	545	805	280	12
26				23	465	65	12	0	310	805	295	14
27				22	390	59	11	0	240	840	280	15
28				22	350	53	9.6	0	140	735	250	14
29				21		53	8.6	0	77	575	220	14
30				21		46	8.0	0	50	490	190	13
31				21		43		0		415	156	-----

SURFACE WATER SUPPLY, 1927, PART II

Monthly discharge, in second-feet, of North Prong of St. Marys River at Moniac, Ga.,
1921-1923 and 1927

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
1921					
January 26-31.....	190	156	172	0.717	0.20
February.....	164	62	108	.450	.47
March.....	77	22	45.9	.191	.22
April.....	22	3.1	11.0	.046	.05
May.....	24	.04	5.62	.023	.03
June.....	2.6	0	.29	.0012	.001
July.....	2,200	.02	277	1.15	1.33
August.....	2,000	46	461	1.92	2.21
September.....	43	.05	12.2	.051	.06
1921-22					
October.....	.30	.02	.04	.00017	.0002
November.....	1.0	.05	.60	.0025	.003
December.....	33	.30	16.0	.067	.08
January.....	77	18	37.7	.157	.18
February.....	265	43	118	.492	.51
March.....	280	43	137	.571	.66
April.....	48	.13	15.9	.066	.07
May.....	71	.16	7.51	.031	.04
June.....	172	6.3	63.3	.264	.29
July.....	43	4.1	23.8	.099	.11
August.....	350	21	169	.704	.81
September.....	370	25	96.3	.401	.45
The year.....	370	.02	56.8	.236	3.20
1922-23					
October.....	670	29	218	.908	1.05
November.....	295	25	92.4	.385	.43
December.....	97	18	44.9	.187	.22
January.....	670	77	252	1.05	1.21
February.....	118	59	85.1	.355	.37
March.....	230	29	91.2	.380	.44
April.....	230	33	97.1	.405	.45
May.....	370	25	146	.608	.70
June.....	515	156	341	1.42	1.58
July.....	670	230	331	1.38	1.59
August.....	515	33	172	.717	.83
September.....	172	33	82.4	.343	.38
The year.....	670	18	164	.683	9.25
1923					
October.....	104	21	40.5	.169	.19
November.....	21	5.1	15.0	.062	.07
December.....	12	4.1	8.83	.037	.04
1927					
January 26-31.....	23	21	21.7	.090	.02
February.....	465	15	80.9	.337	.35
March.....	295	43	108	.450	.50
April.....	46	8.0	26.0	.108	.12
May.....	7.8	0	1.34	.0056	.006
June.....	545	0	69.3	.289	.32
July.....	1,100	12	330	1.38	1.59
August.....	465	118	249	1.04	1.20
September.....	132	12	39.9	.166	.19

ST. MARYS RIVER NEAR MACCLENNY, FLA.

LOCATION.—Staff gage at Stokes Bridge 1 mile below junction of North and South Prongs and 6 miles northeast of Macclenny, Baker County. Zero of gage is 40.00 feet above mean sea level.

DRAINAGE AREA.—720 square miles.

RECORDS AVAILABLE.—October, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,070 second-feet August 24 (gage height, 12.4 feet); minimum, 14 second-feet June 4 and 5 (gage height, 0.04 foot).

REMARKS.—Records good. Slight diversion at Moniac, Ga., during extremely low stages after May 1, 1927. See North Prong of St. Marys River at Moniac, Ga.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1,610	120	370	210	94	2,330	170	49	15	140	1,790	1,430
2.....	1,530	110	370	210	90	2,090	170	46	15	125	1,580	1,160
3.....	1,030	110	355	190	90	1,940	150	46	15	82	1,500	905
4.....	880	190	325	170	86	1,820	140	41	14	82	1,480	705
5.....	705	190	280	160	86	1,610	130	39	14	70	1,430	605
6.....	645	180	265	625	82	1,400	120	37	15	56	1,260	505
7.....	585	170	250	150	82	1,230	110	36	16	49	1,030	430
8.....	525	160	235	140	78	1,080	110	33	20	56	930	370
9.....	430	160	220	140	78	930	120	31	24	98	1,230	340
10.....	400	160	210	130	78	830	120	31	25	160	1,200	280
11.....	340	210	200	130	78	785	140	30	26	235	960	250
12.....	295	280	220	130	78	705	160	27	27	200	830	220
13.....	250	265	250	120	78	625	150	25	36	210	880	200
14.....	220	285	250	130	82	545	140	24	31	180	1,030	200
15.....	220	265	220	130	102	485	140	24	25	200	1,080	180
16.....	200	905	220	140	130	430	140	23	24	705	1,560	170
17.....	180	1,790	235	130	115	400	150	23	37	930	2,520	160
18.....	160	1,790	235	120	102	355	150	22	35	830	2,470	140
19.....	160	1,580	265	120	140	325	140	20	37	585	2,210	130
20.....	150	1,560	235	120	445	280	120	20	60	505	2,130	120
21.....	140	1,400	220	110	545	250	106	20	70	465	2,210	110
22.....	130	1,380	210	110	430	235	94	19	86	465	2,050	150
23.....	120	1,330	210	110	355	280	86	19	94	625	2,210	140
24.....	120	830	200	110	385	370	78	18	160	1,580	3,070	125
25.....	110	765	200	102	1,460	355	74	18	370	1,760	2,910	110
26.....	130	725	190	102	2,090	310	70	18	585	1,700	2,520	106
27.....	130	665	180	102	2,910	265	66	18	505	1,700	2,640	102
28.....	130	525	170	98	2,640	250	60	16	355	1,880	2,910	102
29.....	120	465	160	98	-----	220	56	16	235	2,090	2,520	102
30.....	110	400	210	98	-----	200	52	16	190	2,170	2,090	94
31.....	110	-----	220	94	-----	190	-----	15	-----	1,970	1,730	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	1,610	110	383	0.532	0.61
November.....	1,790	110	632	.878	.96
December.....	370	160	238	.331	.38
January.....	625	94	146	.203	.23
February.....	2,910	78	465	.646	.67
March.....	2,330	190	746	1.04	1.20
April.....	170	52	117	.162	.18
May.....	49	15	26.5	.037	.04
June.....	585	14	105	.146	.16
July.....	2,170	49	707	.982	1.13
August.....	3,070	830	1,810	2.51	2.89
September.....	1,430	94	321	.446	.50
The year.....	3,070	14	476	.661	8.97

SUWANNEE RIVER BASIN

SUWANNEE RIVER AT FARGO, GA.

LOCATION.—Staff gage at Georgia Southern & Florida Railway bridge at Fargo, Clinch County, 12 miles below Nixons Ferry dam site.

DRAINAGE AREA.—1,050 square miles.

RECORDS AVAILABLE.—January, 1921, to September, 1923, and January to September, 1927.

REMARKS.—Records good except those for estimated periods, which are fair. Discharge estimated May 8, 9, and 22–31. No record on days for which discharge is not given.

Daily and monthly discharge, in second-feet, 1927

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		224	367	250	84			250	313
2		216	385	233	88			233	295
3		216	466	216	72			224	286
4		216	475	208	64			208	242
5		216	448	199	56			182	216
6			208	421	190	52		182	199
7			208	403	182	49		182	190
8			199	385	174	45		165	182
9			199	376	174	40		148	174
10			199	394	174	36		140	165
11			199	403	165	33		156	148
12			199	376	156	30		165	131
13			199	358	156	29		165	114
14			199	349	148	28		182	131
15			199	340	140	26		199	165
16			199	313	131	22		208	148
17			208	304	131	20		216	131
18			242	295	122	18		224	106
19			259	277	122	17		250	88
20			268	268	114	16		268	84
21			268	277	106	15		394	80
22		259	250	313	106	14		457	72
23			259	340	101	13		439	60
24			286	358	101	12		412	49
25			340	331	93	11		394	46
26			376	313	88	11		439	43
27			376	286	84	10	304	376	44
28		233	367	277	80	9	295	394	46
29			233	286	68	8	286	376	49
30			233	277	72	8	295	358	41
31		224		268		7	268	304	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
February	376	199	243	0.231	0.24
March	475	268	346	.330	.38
April	250	68	143	.136	.15
May	88	7	30.4	.029	.03
August	457	140	267	.254	.29
September	313	41	135	.129	.14

SUWANNEE RIVER AT WHITE SPRINGS, FLA.

LOCATION.—Staff gage at highway bridge in White Springs, Hamilton County, 500 feet upstream from large spring (White Springs).

DRAINAGE AREA.—2,160 square miles.

RECORDS AVAILABLE.—May, 1906, to December, 1908; February to September, 1927.

EXTREMES.—Maximum discharge during period February 8 to September 30, 1927, 2,610 second-feet July 27 (gage height, 9.8 feet); minimum, 12 second-feet June 5-8 (gage height, 1.90 feet).

1906-1908, 1927: Maximum discharge, 9,490 second-feet July 16, 1906 (gage height, 23.2 feet); minimum, that of June 5-8, 1927.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1927

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....		1,500	500	99	13	223	1,640	1,040
2.....		1,600	470	97	13	199	1,500	940
3.....		1,920	440	93	13	175	1,320	800
4.....		1,920	410	89	13	149	1,180	740
5.....		1,720	385	87	12	125	905	650
6.....		1,540	335	81	12	110	870	560
7.....		1,430	335	81	12	99	835	500
8.....	285	1,290	310	73	12	89	770	470
9.....	285	1,180	310	64	19	79	650	470
10.....	285	1,180	285	55	26	81	560	470
11.....	285	1,120	285	53	38	81	500	440
12.....	285	1,120	272	51	41	83	500	440
13.....	272	1,010	260	50	38	85	530	440
14.....	272	870	248	50	35	105	590	440
15.....	272	800	235	48	40	122	560	410
16.....	272	800	235	44	44	145	870	385
17.....	272	770	223	38	51	158	1,430	322
18.....	272	740	211	35	62	175	1,760	310
19.....	360	680	199	35	71	211	1,720	272
20.....	470	620	187	32	75	272	1,880	260
21.....	530	590	163	30	79	500	2,080	260
22.....	500	620	161	29	93	835	2,280	260
23.....	500	870	158	26	138	1,290	2,480	248
24.....	740	940	158	23	187	1,640	2,520	235
25.....	1,430	870	154	20	235	1,920	2,200	223
26.....	1,960	800	145	19	248	2,400	1,840	211
27.....	2,000	740	131	16	235	2,610	1,760	211
28.....	1,720	940	120	15	235	2,520	1,720	199
29.....		710	114	15	248	2,440	1,670	187
30.....		560	108	13	235	2,120	1,360	175
31.....		530	-----	13		1,840	1,150	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
February 8-28.....	2,000	272	632	0.293	0.23
March.....	1,920	530	1,030	.477	.55
April.....	500	108	252	.117	.13
May.....	99	13	47.5	.022	.02
June.....	248	12	85.8	.040	.04
July.....	2,610	79	738	.342	.39
August.....	2,520	500	1,340	.620	.73
September.....	1,040	175	419	.194	.22

SUWANNEE RIVER AT ELLAVILLE, FLA.

LOCATION.—Staff gage at Ellaville, Madison County, 200 feet above Seaboard Air Line Railway trestle and 200 feet below Withlacoochee River.

DRAINAGE AREA.—6,840 square miles.

RECORDS AVAILABLE.—January to September, 1927.

EXTREMES.—Maximum discharge during period January 31 to September 30, 1927, 5,900 second-feet August 28 (gage height, 6.0 feet); minimum, 1,250 second-feet May 29 to June 17 (gage height, 2.5 feet).

REMARKS.—Records good except those for low stages, which are fair.

Daily and monthly discharge, in second-feet, 1927

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		2,030	4,370	2,940	1,640	1,250	2,030	3,720	4,110
2		2,030	4,370	2,810	1,640	1,250	2,030	3,590	3,720
3		2,030	4,500	2,810	1,640	1,250	2,030	3,460	3,460
4		2,030	4,500	2,680	1,640	1,250	1,900	3,460	3,200
5		2,030	4,500	2,550	1,640	1,250	1,770	3,330	3,070
6		2,030	4,370	2,550	1,580	1,250	1,770	3,070	2,940
7		2,030	4,240	2,420	1,580	1,250	1,640	2,940	2,680
8		1,900	4,110	2,290	1,510	1,250	1,640	2,810	2,680
9		1,900	3,980	2,290	1,510	1,250	1,640	2,680	2,550
10		1,900	3,860	2,290	1,510	1,250	1,580	2,550	2,420
11		1,900	3,860	2,290	1,510	1,250	1,510	2,420	2,290
12		1,900	3,860	2,160	1,510	1,250	1,440	2,420	2,290
13		1,900	3,980	2,160	1,440	1,250	1,510	2,290	2,290
14		1,900	3,720	2,160	1,440	1,250	1,440	2,420	2,160
15		1,900	3,590	2,030	1,440	1,250	1,440	2,420	2,160
16		2,030	3,590	2,030	1,380	1,250	1,510	2,550	2,160
17		2,030	3,460	2,030	1,380	1,250	1,510	2,940	2,160
18		2,030	3,460	2,030	1,380	1,320	1,580	3,590	2,030
19		2,160	3,460	1,900	1,380	1,320	1,640	3,980	1,900
20		2,290	3,460	1,900	1,380	1,380	1,770	4,240	1,900
21		2,550	3,330	1,900	1,380	1,440	1,770	4,370	1,900
22		2,680	3,200	1,900	1,320	1,440	2,030	4,370	1,900
23		2,680	3,200	1,770	1,320	1,510	2,420	4,500	1,900
24		2,940	3,330	1,770	1,320	1,640	2,680	4,640	1,900
25		3,200	3,460	1,770	1,320	1,900	2,940	4,920	1,770
26		3,850	3,460	1,770	1,320	2,030	3,200	5,200	1,770
27		4,240	3,200	1,770	1,320	1,900	3,460	5,760	1,640
28		4,370	3,070	1,640	1,320	1,900	3,720	5,900	1,640
29			2,940	1,640	1,250	1,900	3,850	5,620	1,640
30			2,940	1,640	1,250	2,030	3,850	4,920	1,640
31	2,030		2,940		1,250		3,850	4,500	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
February	4,370	1,900	2,370	0.346	0.36
March	4,500	2,940	3,690	.539	.62
April	2,940	1,640	2,130	.311	.35
May	1,640	1,250	1,440	.210	.24
June	2,030	1,250	1,490	.209	.23
July	3,850	1,440	2,170	.317	.37
August	5,900	2,290	3,730	.545	.63
September	4,110	1,640	2,530	.341	.38

SUWANNEE RIVER AT LURAVILLE, FLA.

LOCATION.—Staff gage at highway bridge 1 mile south of Luraville, Suwannee County, and 3 miles above Grants Ferry Shoals. A large spring discharges into the river 500 feet above bridge on left bank.

DRAINAGE AREA.—7,360 square miles.

RECORDS AVAILABLE.—February to September, 1927.

EXTREMES.—Maximum discharge during period February 3 to September 30, 1927, 6,090 second-feet August 29 (gage height, 5.8 feet); minimum, 1,740 second-feet June 1-8, 10, 13-16.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1927

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		4,790	3,480	2,120	1,740	2,370	4,180	5,050
2		4,790	3,370	2,120	1,740	2,370	4,060	4,920
3	2,550	4,920	3,370	2,120	1,740	2,370	3,940	4,540
4	2,550	5,050	3,260	2,120	1,740	2,370	3,820	3,300
5	2,460	5,050	3,150	2,120	1,740	2,280	3,820	4,060
6	2,460	5,050	3,040	2,120	1,740	2,200	3,590	3,820
7	2,460	5,050	2,940	2,120	1,740	2,120	3,480	3,590
8	2,460	4,790	2,940	2,120	1,740	2,120	3,260	3,370
9	2,460	4,790	2,840	2,040	1,810	2,120	3,150	3,150
10	2,460	4,660	2,840	2,040	1,740	2,040	3,040	3,150
11	2,460	4,540	2,740	2,040	1,810	2,040	2,940	3,150
12	2,460	4,540	2,740	1,960	1,810	2,040	2,840	2,940
13	2,370	4,540	2,640	1,960	1,740	1,960	2,740	2,840
14	2,370	4,420	2,640	1,960	1,740	1,960	2,740	2,740
15	2,460	4,300	2,550	1,960	1,740	1,960	2,740	2,740
16	2,460	4,300	2,550	1,880	1,740	1,960	2,840	2,740
17	2,460	4,180	2,550	1,880	1,810	1,960	3,040	2,640
18	2,550	4,180	2,460	1,880	1,810	1,960	3,590	2,640
19	2,640	4,180	2,460	1,880	1,810	2,040	4,060	2,640
20	2,640	4,060	2,370	1,880	1,880	2,120	4,420	2,640
21	2,740	3,940	2,370	1,880	1,880	2,120	4,540	2,550
22	2,940	3,940	2,370	1,880	1,880	2,200	4,660	2,460
23	3,040	3,820	2,280	1,880	1,880	2,460	4,790	2,460
24	3,370	3,820	2,280	1,810	1,960	2,740	4,920	2,460
25	3,370	3,940	2,280	1,810	2,120	3,040	5,050	2,370
26	3,940	3,940	2,200	1,810	2,280	3,150	5,570	2,370
27	4,300	3,820	2,200	1,810	2,280	3,480	5,830	2,280
28	4,660	3,820	2,200	1,810	2,280	3,820	5,960	2,280
29		3,700	2,200	1,810	2,280	3,940	6,090	2,200
30		3,590	2,200	1,810	2,280	4,060	5,830	2,200
31		3,480		1,810		4,180	5,440	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
February 3-28	4,660	2,370	2,810	0.382	0.37
March	5,050	3,480	4,320	.587	.68
April	3,480	2,200	2,650	.360	.40
May	2,120	1,810	1,950	.265	.31
June	2,280	1,740	1,880	.255	.28
July	4,180	1,960	2,500	.340	.39
August	6,090	2,740	4,100	.557	.64
September	5,050	2,200	3,040	.413	.46

OCHLOCKONEE RIVER BASIN

OCHLOCKONEE RIVER AT OCHLOCKONEE, FLA.

LOCATION.—Staff gage at highway bridge 100 feet upstream from Seaboard Air Line Railway bridge and half a mile west of Ochlockonee, Leon County.

DRAINAGE AREA.—1,050 square miles.

RECORDS AVAILABLE.—June, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,770 second-feet October 1 (gage height, 20.0 feet); minimum, 27 second-feet June 5 (gage height, 8.62 feet).

1926-27: Maximum discharge, 6,850 second-feet September 25-27, 1926 (gage height, 23.8 feet); minimum, that of June 5, 1927.

REMARKS.—Records good. Discharge interpolated May 8-17.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,770	339	464	622	273	960	289	96	32	289	445	160
2	1,850	339	445	643	289	888	289	96	31	212	483	138
3	1,330	339	427	664	273	819	273	107	30	177	391	131
4	1,080	409	409	622	289	819	242	119	30	144	373	113
5	936	445	427	581	273	751	242	102	29	138	339	107
6	842	445	445	541	273	729	198	90	36	131	322	96
7	773	445	427	483	273	664	184	85	31	107	289	96
8	729	409	427	464	257	622	198	81	32	90	242	85
9	664	391	427	427	273	601	170	77	46	90	212	80
10	622	373	391	409	273	518	170	74	39	85	289	75
11	561	356	391	409	289	622	157	70	61	85	227	70
12	521	322	391	373	305	664	170	67	65	75	184	75
13	483	305	391	391	305	622	184	63	75	75	157	75
14	483	289	391	356	373	581	184	59	80	75	177	70
15	445	289	391	356	427	521	212	56	75	75	373	70
16	409	427	391	356	445	521	212	52	70	75	445	96
17	409	601	409	356	464	464	212	49	107	102	464	90
18	427	796	483	356	427	445	184	45	107	107	427	80
19	409	960	561	339	751	464	164	43	107	107	409	65
20	373	984	581	339	960	427	144	42	102	107	751	70
21	373	936	601	339	1,010	427	131	41	157	227	707	65
22	339	865	601	339	1,060	409	125	40	170	305	502	63
23	322	773	581	356	1,010	409	125	39	157	257	391	59
24	322	707	561	339	984	427	119	39	170	322	373	57
25	339	662	541	339	1,330	427	131	39	2 2	445	322	63
26	356	561	561	322	1,630	445	119	38	2 2	427	289	80
27	339	561	581	322	1,460	409	102	36	2 2	483	273	75
28	339	541	561	339	1,130	391	96	34	198	561	257	65
29	339	521	581	289	-----	356	90	34	2 9	685	242	57
30	322	502	581	289	-----	339	85	33	3 2	622	212	53
31	339	-----	601	289	-----	339	-----	32	-----	464	177	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,770	322	640	0.610	0.70
November	984	289	528	.608	.56
December	601	391	485	.462	.53
January	664	289	408	.389	.45
February	1,630	257	611	.682	.61
March	960	339	553	.527	.61
April	289	85	173	.165	.18
May	119	32	61	.058	.07
June	322	29	106	.104	.12
July	685	75	230	.219	.25
August	751	157	347	.330	.38
September	130	53	82	.078	.09
The year	2,770	29	352	.335	4.55

OCHLOCKONEE RIVER NEAR BLOXHAM, FLA.

LOCATION.—Staff gage at highway bridge on Tallahassee-Bristol highway 1 mile west of Bloxham, Leon County.

DRAINAGE AREA.—1,660 square miles.

RECORDS AVAILABLE.—June, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,480 second-feet October 1 (gage height, 12.4 feet); minimum, 98 second-feet June 7 (gage height, -0.95 foot).

1926-27: Maximum discharge, 8,050 second-feet September 27, 1926 (gage height, 15.5 feet); minimum, that of June 7, 1927.

REMARKS.—Records good. Possibly slight diurnal regulation caused by operation of small gristmills on tributaries above gage.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	5,480	655	780	880	530	1,920	530	224	122	530	830	290
2.....	4,050	690	755	910	510	1,720	530	233	122	450	920	270
3.....	3,010	755	730	940	510	1,470	510	233	122	372	830	250
4.....	2,030	805	705	855	510	1,330	450	233	122	334	890	230
5.....	1,640	780	705	830	510	1,220	450	242	106	296	770	215
6.....	1,440	805	705	805	490	1,090	410	233	106	296	680	192
7.....	1,300	755	705	730	490	1,090	391	224	106	296	650	208
8.....	1,160	705	705	705	490	1,030	372	215	172	278	600	200
9.....	1,090	680	705	680	510	940	372	206	490	330	600	200
10.....	1,000	655	680	655	655	730	353	189	470	375	770	175
11.....	940	630	705	610	610	730	334	189	450	400	625	178
12.....	880	610	730	610	570	1,030	372	189	610	375	500	178
13.....	830	590	705	610	590	970	372	189	630	310	450	260
14.....	805	590	730	610	610	910	391	180	530	270	425	230
15.....	805	655	755	610	705	780	372	180	372	240	550	200
16.....	755	1,190	780	610	705	730	372	172	410	330	880	200
17.....	780	1,300	730	610	705	705	372	172	430	350	830	200
18.....	755	1,300	755	610	2,030	705	353	155	450	400	860	192
19.....	730	1,500	805	630	2,180	680	334	138	490	500	1,040	215
20.....	705	1,580	830	610	2,180	680	315	130	490	500	1,010	192
21.....	655	1,470	830	590	1,890	655	296	130	680	625	1,100	192
22.....	630	1,300	830	590	1,750	780	296	130	755	740	980	260
23.....	610	1,160	830	590	1,580	805	334	122	705	680	770	240
24.....	630	1,060	830	570	1,860	755	334	122	550	710	625	215
25.....	705	1,000	805	570	1,580	730	315	122	590	980	550	200
26.....	705	940	855	550	2,140	705	296	130	705	1,370	475	192
27.....	680	940	880	550	2,380	705	278	138	550	1,280	450	192
28.....	655	940	880	550	2,260	655	260	130	490	1,280	425	185
29.....	630	855	940	550	-----	730	242	130	490	1,280	400	170
30.....	610	830	910	530	-----	655	224	122	550	1,220	350	162
31.....	610	-----	910	530	-----	590	-----	122	-----	1,010	330	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	5,480	610	1,200	0.723	0.83
November.....	1,580	590	922	.555	.62
December.....	940	680	781	.470	.54
January.....	940	530	654	.394	.45
February.....	2,380	490	1,130	.681	.71
March.....	1,920	590	910	.548	.63
April.....	530	224	361	.217	.24
May.....	242	122	172	.104	.12
June.....	755	106	429	.258	.29
July.....	1,370	240	594	.358	.41
August.....	1,100	330	680	.410	.47
September.....	290	162	210	.127	.14
The year.....	5,480	106	669	.403	5.45

APALACHICOLA RIVER BASIN

CHATTAHOOCHEE RIVER AT WEST POINT, GA.

LOCATION.—Water-stage recorder just below Oseligee Creek and 1 mile upstream from West Point, Troup County.

DRAINAGE AREA.—3,300 square miles.

RECORDS AVAILABLE.—July, 1896, to September, 1927.

EXTREMES.—Maximum discharge during year, 24,100 second-feet February 14 (gage height, 12.2 feet); minimum, 576 second-feet September 28 (gage height, 2.03 feet).

1896-1927: Maximum discharge, 134,000 second-feet December 10, 1919 (gage height, 30.0 feet); minimum, 224 second-feet September 12, 1925 (gage height, 1.64 feet).

REMARKS.—Records good. Discharge estimated December 5. Discharge based on staff-gage readings October 1 to November 6, November 23 to December 8, and January 1-10. Operation of power plants upstream causes some diurnal fluctuation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,460	1,510	2,170	9,120	2,860	5,590	3,940	3,060	1,960	1,920	2,580	1,260
2	1,360	1,620	2,120	6,440	2,760	7,760	4,540	3,150	2,290	1,960	2,860	1,730
3	1,260	1,570	1,950	5,560	2,670	7,100	5,590	3,150	2,090	1,940	3,640	2,090
4	1,200	1,510	1,950	4,490	2,670	5,590	4,640	3,060	2,010	1,820	2,680	1,500
5	1,060	1,510	1,980	4,280	2,580	5,060	4,040	2,680	2,010	1,560	3,840	1,650
6	1,260	1,420	2,000	3,860	2,760	4,750	3,840	2,860	1,670	1,290	3,060	2,350
7	1,200	1,430	1,620	3,760	2,580	4,640	3,840	3,060	1,650	1,400	2,350	1,560
8	1,020	1,380	1,620	3,460	2,580	4,640	4,040	3,150	2,290	1,430	2,130	1,370
9	1,060	1,420	1,860	3,460	4,070	9,580	3,940	2,960	2,040	2,490	2,170	1,240
10	1,120	2,390	2,100	3,060	3,360	17,000	4,140	2,680	2,680	2,770	2,220	1,260
11	1,060	2,960	2,760	2,960	3,060	15,900	6,880	2,400	2,680	2,770	4,140	1,290
12	1,160	3,260	3,060	2,860	3,160	12,700	10,300	2,490	2,680	3,540	6,880	1,210
13	1,260	2,860	2,860	2,860	6,000	8,430	7,760	2,260	3,940	9,350	5,800	1,320
14	1,200	2,260	10,500	2,860	21,300	14,200	5,590	2,270	2,490	7,320	3,240	1,270
15	1,120	2,260	16,400	3,060	22,100	11,200	4,540	2,400	3,640	6,660	2,220	1,090
16	1,260	8,200	15,400	2,960	20,200	7,540	4,240	2,090	6,220	4,960	1,900	962
17	1,780	8,200	8,200	2,760	12,200	6,440	4,040	2,010	3,940	5,800	1,820	881
18	1,310	7,320	5,450	2,860	7,760	5,590	4,040	2,040	5,170	4,340	2,490	770
19	1,310	6,440	4,490	2,760	7,760	5,280	3,440	1,990	5,380	7,760	2,680	2,680
20	1,830	3,960	3,760	2,760	6,660	5,060	3,340	1,920	5,280	9,350	2,490	2,400
21	1,310	3,460	3,360	2,670	5,380	4,750	3,150	2,010	4,860	4,960	1,770	1,400
22	1,120	3,160	3,660	2,760	4,640	4,750	3,240	2,020	5,170	3,440	1,310	1,600
23	1,120	2,580	4,700	2,860	6,440	4,860	4,040	1,920	4,960	4,640	1,310	1,610
24	1,020	2,580	3,960	2,670	15,200	4,440	5,060	1,800	4,640	10,000	1,370	1,000
25	1,060	2,230	4,180	2,580	12,400	4,340	4,440	2,040	4,240	8,430	1,160	881
26	1,020	2,000	5,560	2,580	12,400	4,240	3,540	2,200	4,240	7,320	1,030	816
27	1,310	2,000	6,220	2,860	8,660	4,750	3,340	2,490	7,320	9,120	976	660
28	1,620	2,300	12,400	3,260	6,440	4,440	3,150	2,580	3,640	4,540	1,050	699
29	1,510	2,000	15,700	3,260	-----	3,840	2,960	2,490	2,680	2,960	1,050	842
30	1,460	2,170	14,600	3,360	-----	3,640	3,060	2,180	2,490	2,330	1,000	764
31	1,460	-----	14,900	3,160	-----	3,740	-----	2,060	-----	2,290	1,290	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,830	1,020	1,270	0.385	0.44
November	8,200	1,380	2,930	.888	.99
December	16,400	1,620	5,850	1.77	2.04
January	9,120	2,580	3,490	1.06	1.22
February	22,100	2,580	7,530	2.28	2.37
March	17,000	3,640	6,830	2.07	2.39
April	10,300	2,960	4,410	1.34	1.50
May	3,150	1,800	2,430	.763	.85
June	7,320	1,650	3,540	1.07	1.19
July	10,000	1,290	4,530	1.37	1.58
August	6,880	976	2,420	.733	.85
September	2,680	660	1,330	.403	.45
The year	22,100	660	3,860	1.17	15.87

FLINT RIVER NEAR VIENNA, GA.

LOCATION.—Staff gage at bridge on Americus-Vienna highway 300 feet below Lumpkins or Pennahatchee Creek and 12 miles west of Vienna, Dooly County.

DRAINAGE AREA.—3,400 square miles.

RECORDS AVAILABLE.—November, 1926, to September, 1927.

EXTREMES.—Maximum discharge during period not determined; minimum (estimated), 910 second-feet September 15-17 and 26-30.

REMARKS.—Records good. Discharge estimated September 15-18 and 24-29. Discharge December 19-21, 28-31, and January 1-4 in excess of 4,000 second-feet (water was over top of gage).

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		2,050		2,500	7,140	2,980	1,500	1,120	2,500	3,690	1,180
2		1,890		2,440	6,600	2,910	1,500	1,080	2,180	2,840	1,120
3		1,920		2,310	6,000	2,770	1,560	1,040	1,920	2,440	1,220
4		2,050		2,120	5,660	2,700	1,620	1,040	1,330	2,380	1,280
5		2,240	3,760	2,120	5,480	2,640	1,560	990	1,220	2,240	1,180
6		1,920	3,620	2,120	4,840	2,640	1,500	950	1,220	2,240	1,220
7		1,920	3,260	2,120	4,680	2,570	1,500	910	1,440	1,920	1,180
8		1,860	3,050	2,120	4,360	2,570	1,380	910	2,050	1,680	1,280
9		1,860	2,570	2,120	3,990	2,570	1,380	990	2,180	1,560	1,120
10	1,440	1,860	2,380	2,310	6,000	2,500	1,330	1,800	2,050	1,620	1,180
11	1,440	1,860	2,380	2,440	7,410	2,440	1,280	1,620	1,980	1,800	1,080
12	1,440	1,860	2,380	2,570	7,050	2,380	1,280	1,300	1,920	2,050	1,040
13	1,620	1,920	2,310	2,570	7,680	2,500	1,220	1,560	1,800	2,910	1,040
14	1,620	2,240	2,310	3,470	8,040	2,770	1,220	1,560	2,570	3,330	950
15	1,560	2,440	2,310	4,600	8,310	2,700	1,220	1,440	3,260	3,050	910
16	1,860	2,910	2,310	5,740	8,400	2,570	1,180	1,330	4,220	2,500	910
17	3,540	3,840	2,310	6,510	7,590	2,380	1,180	1,680	4,600	2,120	910
18	5,000	3,990	2,240	6,960	6,080	2,120	1,220	1,560	3,260	3,470	950
19	5,240		2,240	7,230	4,680	1,980	1,120	1,920	3,120	2,980	1,040
20	5,080		2,240	6,870	4,290	1,920	1,120	3,050	3,260	3,920	1,080
21	4,360		2,240	5,820	3,990	1,860	1,080	3,990	3,260	4,680	1,120
22	3,620	3,260	2,240	5,320	4,220	1,800	1,040	4,290	4,220	3,760	1,180
23	2,980	2,980	2,240	4,600	4,840	1,800	1,040	3,470	4,920	2,440	1,040
24	2,700	2,980	2,240	4,220	4,680	1,800	1,040	3,260	4,920	2,120	950
25	2,500	2,980	2,180	5,080	4,220	1,800	1,040	3,840	4,520	2,440	950
26	2,380	3,050	2,120	6,870	3,540	1,740	1,040	4,360	5,480	2,380	910
27	2,310	3,050	2,240	7,500	3,470	1,680	1,040	3,990	6,600	1,560	910
28	2,120		2,310	7,230	3,260	1,620	1,040	3,120	7,500	1,380	910
29	2,050		2,380		3,260	1,620	1,080	2,840	6,870	1,330	910
30	2,050		2,570		3,190	1,560	1,080	2,840	5,740	1,280	910
31			2,570		3,120		1,080		4,760	1,180	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
November 10-30	5,240	1,440	2,710	0.797	0.62
December	7,500	2,120	4,210	1.24	1.29
January	8,400	3,120	5,360	1.58	1.82
February	2,980	1,560	2,260	.665	.74
March	1,620	1,040	1,240	.365	.42
April	4,360	910	2,130	.626	.70
May	7,500	1,220	3,450	1.01	1.16
June	4,680	1,180	2,430	.715	.82
July	1,280	910	1,060	.312	.35

CHIPOLA RIVER NEAR ALTHA, FLA.

LOCATION.—Chain gage on Willis highway bridge 3 miles above mouth of Ten-mile Creek and 4 miles southwest of Altha, Calhoun County.

DRAINAGE AREA.—740 square miles.

RECORDS AVAILABLE.—November, 1912, to December, 1913, and September, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year not determined, probably occurred during October; minimum, 487 second-feet September 1, 2, and 29.

1912-13; 1921-1927: Maximum discharge, 25,000 second-feet September, 1926 (gage height, 33.55 feet); minimum, 430 second-feet October 20, 1925.

REMARKS.—Records good. Gage destroyed October 1 to November 12. Slight fluctuation during low water caused by operation of small power plant on Dry Creek.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		1,900	* 1,600	1,140	1,860	1,040	* 627	655	1,140	928	487
2		1,860	* 1,630	1,140	1,780	982	627	655	1,140	874	487
3		1,820	1,660	1,090	1,700	* 955	599	627	* 1,120	928	655
4		1,740	1,660	1,090	1,570	928	599	599	1,090	820	* 641
5		* 1,720	1,620	1,090	1,530	928	627	* 599	1,040	820	627
6		1,700	1,530	* 1,060	* 1,500	928	627	599	874	* 874	627
7		1,700	1,480	1,040	1,480	928	599	571	928	* 847	599
8		1,660	1,440	1,040	1,440	928	* 627	655	874	820	599
9		1,660	* 1,390	1,090	1,440	928	655	710	* 820	765	599
10		1,570	1,340	1,140	1,390	* 901	599	710	765	710	571
11		1,620	1,290	1,090	1,390	874	599	820	710	655	* 571
12		* 1,580	1,290	1,090	1,390	874	543	* 792	710	682	571
13	1,570	1,530	1,240	* 1,160	* 1,360	874	571	765	655	682	543
14	* 1,340	1,740	1,340	1,240	1,340	874	599	710	655	* 668	571
15	2,100	1,780	1,290	1,290	1,390	874	* 614	710	655	655	571
16	2,330	1,820	* 1,260	1,290	1,390	820	* 629	874	* 655	627	515
17	2,100	1,860	1,240	1,240	1,290	* 820	* 644	874	655	682	515
18	2,180	1,860	1,240	1,240	1,240	820	* 659	982	765	710	* 629
19	2,330	* 1,880	1,240	1,620	1,190	820	* 674	* 982	655	765	543
20	2,570	1,900	1,240	* 1,660	* 1,190	820	* 690	982	874	655	515
21	* 2,620	1,940	1,190	1,700	1,190	765	* 705	1,040	928	* 627	543
22	2,680	1,940	1,190	* 1,900	1,190	765	* 720	1,040	820	599	571
23	2,600	1,820	* 1,190	2,100	1,140	710	* 735	1,090	* 847	599	515
24	2,490	1,740	1,190	2,180	1,190	* 682	* 750	1,140	874	599	543
25	* 2,380	* 1,700	1,140	2,140	1,140	655	765	1,140	928	599	* 529
26	2,260	* 1,660	1,140	2,060	1,190	655	765	* 1,160	1,040	599	515
27	2,180	1,620	1,140	* 2,000	* 1,160	627	874	1,190	1,040	543	543
28	* 2,060	1,620	982	1,940	1,140	627	874	1,290	1,040	* 515	515
29	1,940	1,660	1,040	-----	1,090	599	* 819	1,290	982	487	487
30	1,940	1,570	1,090	-----	1,040	627	* 764	1,240	* 964	515	515
31	-----	1,570	1,140	-----	1,040	-----	* 710	-----	* 946	515	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
November 13-30	2,680	1,340	2,200	2.97	1.99
December	1,940	1,530	1,730	2.34	2.70
January	1,660	982	1,300	1.76	2.03
February	2,180	1,040	1,420	1.92	2.00
March	1,860	1,040	1,330	1.80	2.08
April	1,040	599	821	1.11	1.24
May	874	543	674	.911	1.05
June	1,290	571	833	1.19	1.33
July	1,140	655	877	1.19	1.37
August	928	487	689	.931	1.07
September	655	487	554	.749	.84

* Discharge estimated.

CHOCTAWHATCHEE RIVER BASIN

CHOCTAWHATCHEE RIVER NEAR NEWTON, ALA.

LOCATION.—Water-stage recorder just above bridge on Newton-Ozark Road 1 mile north of Newton, Dale County, and 1 mile below Atlantic Coast Line Railroad bridge.

DRAINAGE AREA.—720 square miles.

RECORDS AVAILABLE.—June, 1906, to August, 1908; October, 1911, to August, 1912; and November, 1921, to September, 1927, discontinued.

EXTREMES.—Maximum discharge during year, 3,760 second-feet February 18, (gage height, 6.4 feet); minimum, 120 second-feet June 5 (gage height, -0.34 foot).

1906-1908, 1911-12, 1921-1927: Maximum discharge, not determined; maximum gage height, 28 feet or more January 17, 1925; minimum discharge, 62 second-feet several days in September, 1925 (gage height, -1.30 feet).

REMARKS.—Records below 1,500 second-feet, good; others, fair. Discharge August 7-19 estimated. Slight fluctuation during low water caused by operation of gristmills above gage. Gage-height record furnished by Mr. B. H. Hardaway.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,040	495	855	1,190	625	1,130	665	260	149	209	374	170
2	945	536	800	1,060	600	1,320	630	248	135	182	526	156
3	885	718	745	945	580	1,290	590	242	131	167	540	160
4	800	718	745	855	580	1,130	550	238	128	152	540	149
5	915	690	690	772	580	1,040	545	275	120	140	885	155
6	1,040	620	690	745	575	975	540	434	128	155	915	144
7	855	580	690	718	536	915	615	540	131	148	828	142
8	772	536	665	690	555	885	630	504	140	149	665	130
9	690	610	665	690	640	915	640	430	164	179	555	131
10	640	690	690	640	718	975	640	352	182	170	513	128
11	605	690	690	640	690	1,320	625	290	201	178	434	120
12	640	630	690	625	772	1,260	690	242	209	209	438	127
13	640	580	690	615	1,390	1,060	625	225	223	221	828	155
14	640	550	1,040	665	2,780	1,160	531	238	203	211	690	228
15	605	1,810	1,160	665	3,630	1,040	482	245	356	207	540	207
16	560	2,590	1,190	635	2,780	975	442	223	406	213	426	167
17	555	2,200	1,100	635	2,330	915	430	215	450	296	360	148
18	526	2,140	1,040	640	2,590	828	394	197	550	665	394	130
19	508	1,810	945	640	3,440	828	390	191	442	490	975	155
20	486	1,520	828	640	2,850	745	370	185	342	468	915	232
21	454	1,220	800	625	2,330	800	352	182	438	434	518	278
22	446	1,040	745	615	1,940	2,200	342	178	422	430	356	305
23	434	975	745	630	1,550	1,740	352	179	402	438	299	299
24	580	885	745	615	1,390	1,520	356	221	438	690	287	205
25	640	855	772	595	1,220	1,260	323	250	495	828	238	166
26	625	800	885	610	1,190	1,100	317	215	398	800	215	152
27	580	745	915	620	1,130	945	305	205	342	690	195	152
28	565	745	1,040	665	1,040	800	293	195	317	745	182	146
29	531	690	1,740	610	-----	745	287	176	290	665	185	135
30	477	915	1,390	620	-----	690	275	162	238	526	179	134
31	490	-----	1,190	620	-----	690	-----	144	-----	352	173	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,040	434	651	0.904	1.04
November	2,590	495	986	1.37	1.53
December	1,740	665	890	1.24	1.43
January	1,190	595	695	.965	1.11
February	3,630	536	1,470	2.04	2.12
March	2,200	690	1,070	1.49	1.72
April	690	275	474	.658	.73
May	540	144	254	.353	.41
June	550	120	286	.397	.44
July	828	140	368	.511	.59
August	975	173	489	.679	.78
September	305	120	170	.236	.26
The year	3,630	120	645	.896	12.16

MOBILE RIVER BASIN

COOSAWATTEE RIVER NEAR CARTERS, GA.

LOCATION.—Water-stage recorder 1 mile upstream from mouth of Talking Rock Creek and 1½ miles upstream from highway bridge at Carters, Murray County.

DRAINAGE AREA.—376 square miles.

RECORDS AVAILABLE.—September, 1925, to September, 1927. At old station 1½ miles downstream August, 1896, to December, 1908, and December, 1918, to September, 1923.

EXTREMES.—Maximum discharge during year, about 16,400 second-feet April 10 (gage height, 12.40 feet); minimum, 150 second-feet November 6 (gage height, 0.99 foot).

1925-1927: Maximum discharge, that of April 10, 1927; minimum, 59 second-feet September 22, 1925 (gage height, 0.68 foot).

REMARKS.—Records good except those for August 17 and 18 which were estimated. Slight diurnal fluctuation caused by operation of old gristmills upstream.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	228	204	471	1,410	712	1,160	1,600	1,240	712	615	1,190	368
2	1,070	184	418	1,240	679	1,240	1,240	1,160	712	584	930	344
3	526	181	418	1,160	646	1,240	1,160	1,080	712	584	818	368
4	368	165	368	1,080	646	1,160	1,160	1,080	712	555	782	368
5	316	158	368	1,000	615	1,160	1,320	1,080	712	555	782	368
6	316	232	368	930	584	1,160	1,320	1,080	679	555	712	344
7	280	212	368	855	646	1,080	1,160	782	646	555	712	344
8	254	212	610	782	679	2,090	1,080	818	646	555	679	320
9	236	498	1,080	747	679	2,720	1,080	818	615	526	646	320
10	228	555	818	747	679	2,230	8,670	818	584	930	646	344
11	254	368	679	747	646	1,700	3,930	818	584	818	646	344
12	302	320	646	712	679	1,410	2,010	892	782	1,000	615	316
13	694	320	2,040	679	1,730	1,320	1,900	892	712	930	584	302
14	555	298	1,900	747	2,230	1,600	1,600	855	747	855	584	284
15	368	722	1,240	747	1,410	1,320	1,410	855	855	930	584	275
16	320	776	1,000	615	1,240	1,160	1,320	855	855	712	526	266
17	298	712	818	679	1,160	1,080	1,240	855	782	892	646	262
18	275	615	747	646	1,080	1,000	1,240	855	818	1,500	1,410	377
19	275	615	679	615	1,080	1,000	1,240	855	855	1,240	712	940
20	262	526	646	615	1,080	930	1,240	855	818	1,000	471	368
21	254	471	615	615	1,000	855	1,340	855	747	892	444	311
22	245	471	747	615	1,000	930	1,700	818	747	782	418	280
23	241	418	747	615	1,610	930	1,240	782	818	1,000	418	271
24	241	418	930	615	1,700	930	1,240	782	1,080	930	393	275
25	249	418	3,410	615	646	930	1,240	782	892	818	393	258
26	236	471	4,510	615	1,240	855	1,240	747	782	747	368	258
27	254	679	2,010	615	1,240	818	1,240	712	747	679	393	254
28	220	555	4,850	555	1,240	782	1,160	712	679	646	498	258
29	280	498	5,550	747	747	747	1,160	712	679	615	393	275
30	320	498	2,230	782	747	747	1,240	712	646	584	344	275
31	275	-----	1,600	747	-----	1,800	-----	712	-----	730	344	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,070	220	330	0.878	1.01
November	776	158	426	1.13	1.26
December	5,550	368	1,580	3.67	4.23
January	1,410	555	771	2.05	2.36
February	2,230	584	1,020	2.71	2.82
March	2,720	747	1,230	3.27	3.77
April	8,670	1,080	1,660	4.41	4.92
May	1,240	712	867	2.31	2.66
June	1,080	584	745	1.98	2.21
July	1,500	526	784	2.09	2.41
August	-----	344	616	1.64	1.89
September	940	254	331	.880	.98
The year	8,670	158	846	2.25	30.52

COOSA RIVER AT GADSDEN, ALA.

LOCATION.—Water-stage recorder at highway bridge in Gadsden, Etowah County, 700 feet below Louisville & Nashville Railroad bridge. Zero of gage is 485.16 feet above mean sea level.

DRAINAGE AREA.—5,790 square miles.

RECORDS AVAILABLE.—October, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 41,400 second-feet December 29 (gage height, 23.6 feet); minimum, 1,690 second-feet September 27-30. Lower stage may have occurred during period September 1-25 when recorder was not operating.

REMARKS.—Records good except those for periods when recorder was not operating, which are fair. Discharge December 28 to January 6 based on chain-gage readings. Discharge estimated September 1-25.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,840	2,060	5,600	36,400	5,900	14,100	7,620	6,050	3,920	3,660	2,910	2,500
2	1,890	2,000	4,600	33,600	5,900	14,800	9,700	5,900	4,320	3,400	3,150	
3	1,890	2,060	4,320	31,400	5,750	16,200	13,000	6,200	4,600	3,270	5,160	
4	1,790	2,160	4,050	27,400	5,450	16,200	12,400	6,050	3,790	3,150	7,140	
5	2,000	2,220	3,790	15,700	5,160	14,800	10,200	5,600	3,530	2,970	5,160	
6	2,550	2,160	3,530	9,700	5,020	12,600	8,580	5,600	3,400	2,790	4,320	2,600
7	2,160	2,160	3,400	8,420	4,880	11,100	8,580	6,050	3,400	2,730	4,460	
8	1,890	2,060	3,270	7,620	5,450	12,400	11,000	8,580	3,270	2,670	4,460	
9	1,940	3,270	3,270	6,980	6,980	18,500	11,300	7,620	3,270	2,790	3,920	
10	1,840	5,450	3,400	6,500	7,620	24,300	10,800	6,660	3,270	2,910	3,530	
11	1,790	5,600	4,050	6,200	7,300	27,900	14,300	5,750	3,270	3,530	3,790	2,100
12	1,790	5,450	5,450	5,900	8,260	28,700	20,600	5,450	3,400	7,780	4,050	
13	2,000	4,880	8,420	5,600	13,800	27,200	23,900	5,160	4,050	9,540	5,900	
14	2,110	3,530	15,800	5,450	23,400	26,400	24,900	4,740	4,740	8,100	5,750	
15	2,500	5,450	20,600	5,450	29,800	26,000	23,700	4,600	4,460	6,050	4,320	
16	2,850	13,800	21,200	5,450	30,800	24,300	21,000	4,320	5,900	6,350	3,400	1,800
17	3,150	16,400	17,200	5,300	30,800	20,100	15,500	4,320	6,350	6,200	3,030	
18	2,610	15,200	11,500	5,020	28,300	16,200	11,300	4,320	6,660	5,750	2,790	
19	2,280	10,200	8,420	4,740	20,400	13,100	9,700	4,180	5,600	6,660	2,670	
20	2,060	7,780	6,660	4,880	15,300	11,300	8,900	4,050	4,880	11,300	2,550	
21	2,060	6,350	5,900	4,880	14,300	10,200	8,100	3,920	4,880	11,900	2,910	2,700
22	1,890	5,450	5,900	4,740	13,000	9,380	7,620	3,920	6,200	9,220	2,730	
23	1,840	4,600	6,980	4,600	11,900	8,900	8,580	3,790	7,460	6,500	2,440	
24	1,790	4,180	11,000	4,460	17,600	8,580	11,300	3,660	6,820	4,740	2,440	
25	1,740	3,920	20,800	4,460	24,900	8,260	11,500	3,790	8,420	4,880	2,330	
26	1,740	3,790	31,200	4,460	25,600	8,100	10,500	3,790	8,580	5,450	2,220	1,740
27	1,790	4,050	35,000	4,880	23,000	7,940	8,740	3,790	6,660	4,320	2,110	1,690
28	1,840	6,200	40,000	5,160	18,100	7,460	7,300	4,050	5,750	3,530	2,110	1,690
29	2,000	6,820	41,400	5,300	-----	6,980	6,660	4,050	4,740	3,270	2,110	1,690
30	2,000	6,500	40,800	5,450	-----	6,980	6,350	3,790	4,050	3,270	2,220	1,690
31	2,110	-----	38,000	5,600	-----	7,460	-----	3,790	-----	3,030	2,500	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,150	1,740	2,060	0.356	6.41
November	16,400	2,000	5,520	.953	1.06
December	41,400	3,270	14,100	2.44	2.81
January	36,400	4,460	9,410	1.62	1.87
February	30,800	4,880	14,800	2.56	2.67
March	28,700	6,980	15,000	2.59	2.99
April	24,900	6,350	12,100	2.09	2.33
May	8,580	3,660	4,950	.855	.99
June	8,580	3,270	4,990	.862	.96
July	11,900	2,670	5,220	.902	1.04
August	7,140	2,110	3,500	.604	.70
September	-----	1,690	2,230	.385	.43
The year	41,400	1,690	7,790	1.35	18.26

COOSA RIVER AT CHILDERSBURG, ALA.

LOCATION.—Water-stage recorder at Central of Georgia Railway bridge half a mile west of Childersburg, Talladega County. Zero of gage is 421.00 feet above mean sea level.

DRAINAGE AREA.—8,390 square miles.

RECORDS AVAILABLE.—February, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, 71,600 second-feet February 14 (gage height, 17.8 feet); minimum, 2,280 second-feet September 22 (gage height, 1.30 feet).

1914-1927: Maximum discharge, 121,000 second-feet July 11, 1916 (gage height, 24.7 feet); minimum, 1,300 second-feet occurred on 10 days in September, 1925.

REMARKS.—Records good. Complete records furnished by Alabama Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,060	3,060	7,900	56,700	7,460	24,600	12,800	8,050	5,000	5,730	4,040	2,940
2	2,940	3,060	6,900	52,600	7,600	22,000	11,900	7,750	5,120	5,120	3,920	3,060
3	2,820	2,940	6,120	48,600	7,600	22,800	13,500	7,320	5,360	4,880	3,920	2,940
4	2,700	2,820	5,600	43,700	7,460	23,300	16,900	7,600	5,860	4,760	5,940	2,940
5	2,700	2,820	5,360	33,200	7,320	22,000	15,800	7,600	5,240	4,400	9,260	3,300
6	2,700	2,820	5,120	18,500	6,770	20,000	13,500	9,100	4,760	4,160	6,900	3,380
7	2,820	2,820	4,760	13,200	6,770	17,300	11,400	9,100	4,520	4,040	5,600	3,300
8	3,060	2,940	4,760	11,300	6,770	18,100	11,300	8,800	4,400	3,810	5,480	3,480
9	2,940	5,860	4,520	10,400	7,900	27,800	15,800	10,800	4,400	3,920	5,730	3,480
10	2,700	6,510	4,880	9,420	9,900	36,400	18,500	9,740	4,400	4,280	5,240	3,300
11	2,700	7,040	5,600	8,800	9,740	40,000	19,700	8,500	4,400	3,920	5,240	3,060
12	2,700	7,040	6,250	8,350	11,300	41,800	25,400	7,320	4,520	4,160	5,860	2,820
13	3,480	6,380	11,900	7,900	42,200	41,800	29,600	6,770	4,520	8,500	5,240	2,700
14	3,060	6,120	22,800	7,900	67,800	42,200	31,000	6,640	5,000	10,900	6,640	2,700
15	2,940	10,800	28,300	7,600	58,300	41,800	33,200	6,250	6,770	9,420	7,040	2,590
16	3,060	17,700	30,500	7,460	52,100	39,000	30,500	5,860	6,380	7,460	5,730	2,590
17	3,380	20,400	28,700	7,320	48,200	34,100	26,600	5,600	7,180	7,750	4,760	2,590
18	3,700	22,400	22,000	7,180	49,600	27,400	19,700	5,600	8,350	7,600	4,280	2,480
19	3,700	19,300	14,600	6,900	47,200	22,000	14,600	5,480	8,950	7,180	3,920	2,590
20	3,300	13,900	11,300	6,770	32,300	18,100	12,300	5,360	8,950	7,660	3,700	2,480
21	2,940	10,100	9,420	6,640	24,200	15,800	11,300	5,240	8,500	12,400	3,480	2,380
22	2,820	8,350	10,100	6,640	21,200	14,800	10,800	5,120	8,200	13,200	3,480	2,280
23	2,700	7,180	10,200	6,510	21,200	13,200	10,400	5,120	9,900	11,600	3,590	3,180
24	2,700	6,380	13,400	6,380	24,600	12,100	11,100	5,000	11,800	8,650	3,380	4,040
25	2,590	5,860	33,200	6,120	30,000	11,900	13,500	5,000	9,740	6,510	3,300	3,590
26	2,480	5,480	57,200	6,120	37,700	11,600	13,500	5,000	10,400	5,940	3,060	3,180
27	2,380	5,240	65,100	6,640	36,400	11,900	12,400	4,880	10,900	6,510	3,060	2,820
28	2,380	5,360	64,600	7,750	31,000	11,600	10,900	5,000	8,800	5,730	2,940	2,590
29	2,380	7,320	68,400	7,600	-----	10,600	9,100	5,360	7,460	4,760	2,820	2,480
30	2,480	8,050	65,100	7,460	-----	10,100	8,500	5,600	6,510	4,400	2,700	2,380
31	3,380	-----	61,400	7,460	-----	12,400	-----	5,360	-----	4,280	2,700	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,700	2,380	2,890	0.344	0.40
November	22,400	2,820	7,870	.938	1.05
December	68,400	4,520	22,500	2.68	3.09
January	56,700	6,120	14,500	1.73	1.99
February	67,800	6,770	25,700	3.06	3.19
March	42,200	10,100	23,100	2.76	3.17
April	32,200	8,500	16,500	1.97	2.20
May	10,800	4,880	6,640	.791	.91
June	11,800	4,400	6,880	.820	.92
July	13,200	3,810	6,570	.783	.90
August	9,260	2,700	4,610	.549	.63
September	4,040	2,280	2,920	.348	.39
The year	68,400	2,280	11,600	1.38	18.84

COOSA RIVER AT MITCHELL DAM, NEAR VERBENA, ALA.

LOCATION.—Water-stage recorder in sec. 15, T. 21 N., R. 16 E., half a mile below Mitchell Dam and 6 miles northeast of Verbena. Zero of gage is 270.00 feet above mean sea level.

DRAINAGE AREA.—9,830 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 135,000 second-feet February 13 (gage height, about 21.0 feet); minimum, 120 second-feet October 23, 24, 31, and November 1 (gage height, 1.40 feet).

1925-1927: Maximum discharge, that of February 13, 1927; minimum 80 second-feet August 16 and October 4, 1925 (gage height, 1.25 feet*).

REMARKS.—Records above 5,000 second-feet, good; others, fair. Discharge estimated March 6-12 and partly estimated February 13 and 14. Large diurnal fluctuation caused by operation of Mitchell Dam. Complete records furnished by Alabama Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3,900	2,610	10,800	63,700	9,780	29,500	17,500	11,800	6,970	11,500	5,970	3,590
2.....	2,480	4,830	10,000	58,200	9,330	24,400	12,300	11,100	5,790	6,820	5,400	3,210
3.....	399	6,500	10,400	51,200	11,800	27,100	12,200	8,570	6,060	487	5,530	2,650
4.....	4,330	2,630	4,920	47,200	11,800	26,800	15,700	9,180	2,190	2,860	6,470	3,210
5.....	5,300	2,650	1,410	39,100	11,400	25,900	18,400	8,640	4,710	5,890	9,720	4,840
6.....	4,200	299	7,070	23,700	8,770	23,400	19,100	20,700	5,250	6,220	7,770	4,240
7.....	2,890	140	7,070	20,900	8,850	20,300	13,500	12,600	6,300	4,980	3,770	4,230
8.....	3,890	3,350	5,990	20,600	10,100	21,200	12,200	7,130	7,020	5,190	6,570	3,430
9.....	646	7,430	4,740	10,800	10,200	32,600	14,700	8,880	5,800	3,900	6,970	2,640
10.....	145	8,090	5,950	11,400	9,150	42,500	17,100	9,420	4,730	1,000	6,970	422
11.....	3,310	8,030	6,280	10,800	10,200	46,700	21,600	10,900	2,350	5,110	6,070	3,830
12.....	3,330	8,220	3,660	11,600	11,800	48,900	27,000	10,200	2,170	5,920	6,270	2,990
13.....	3,230	8,240	11,800	11,300	98,300	49,300	29,500	10,500	4,490	9,820	7,370	3,590
14.....	4,150	7,690	31,800	85,300	53,900	32,200	5,580	6,790	11,400	7,370	3,740	3,740
15.....	4,030	13,100	32,900	10,100	66,000	53,400	33,700	1,060	8,180	11,400	7,650	3,110
16.....	2,020	21,200	34,700	6,130	62,700	43,700	33,900	6,760	9,790	11,200	7,670	2,820
17.....	201	20,400	31,700	9,730	51,100	42,900	32,400	5,700	8,500	5,950	7,770	620
18.....	4,500	28,900	30,800	9,640	65,500	31,100	26,200	5,900	8,830	9,110	7,570	398
19.....	5,790	23,700	11,600	9,940	66,000	28,600	20,000	6,840	9,480	9,120	5,970	2,740
20.....	6,400	16,000	17,600	8,540	43,200	18,900	18,700	6,850	10,600	11,400	1,410	3,080
21.....	4,130	9,580	17,000	8,160	22,600	22,200	12,300	7,190	9,460	11,700	277	1,720
22.....	4,500	12,600	18,600	6,060	24,600	22,200	12,100	1,060	10,100	12,600	3,170	3,380
23.....	126	14,600	12,100	3,160	26,200	16,500	9,350	5,830	12,000	12,600	4,370	2,860
24.....	2,170	13,600	15,000	8,620	32,600	15,900	8,000	6,970	12,600	10,100	3,770	187
25.....	5,820	9,270	42,800	10,000	33,700	15,500	11,400	6,010	12,900	11,000	3,370	3,590
26.....	4,600	8,410	72,900	9,280	41,500	12,200	12,200	6,480	2,800	6,890	4,270	4,950
27.....	4,510	1,850	66,600	11,000	44,500	12,200	12,200	5,450	12,300	7,910	1,420	3,290
28.....	3,640	1,420	70,700	8,340	33,700	12,200	12,200	5,100	12,400	7,370	370	3,350
29.....	4,420	9,400	73,800	5,220	14,200	12,200	12,200	1,530	12,000	7,830	3,070	3,570
30.....	1,520	11,000	70,500	2,360	14,300	12,200	12,200	5,190	11,800	3,080	3,070	3,820
31.....	137	65,800	8,110	13,300	4,850	-----	-----	-----	-----	597	3,270	---

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	6,400	126	3,250	0.331	0.38
November.....	23,900	140	9,520	.968	1.08
December.....	73,800	1,410	26,000	2.65	3.06
January.....	63,700	2,360	16,900	1.72	1.98
February.....	98,300	9,150	32,900	3.35	3.49
March.....	53,500	12,200	27,800	2.83	3.26
April.....	33,500	8,000	18,100	1.84	2.05
May.....	20,000	1,060	7,550	.768	.88
June.....	1,000	2,170	8,130	.827	.92
July.....	12,600	487	7,450	.758	.87
August.....	9,720	297	5,170	.526	.61
September.....	4,950	187	3,000	.305	.34
The year.....	98,300	126	13,700	1.39	18.91

COOSA RIVER AT LOCK 18, NEAR WETUMPKA, ALA.

LOCATION.—Water-stage recorder in sec. 22, T. 19 N., R. 18 E., half a mile downstream from Lock 18 dam site and 7 miles above junction with Tallapoosa River at 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, and December, 1925 to September, 1927.

EXTREMES.—Maximum discharge during year, 138,000 second-feet February 13 (gage height, 28.8 feet); minimum, 265 second-feet October 10 and 11 (gage height, 3.05 feet).

1912-1914, 1925-1927: Maximum discharge, that of February 13, 1927; minimum, 250 second-feet September 20 and 27, 1926.

REMARKS.—Records for November to April, inclusive, good; for remaining time, fair to poor. Flow almost completely regulated during low and medium stages by hydroelectric plants at Lock 12 and Mitchell Dam. Complete records furnished by Alabama Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3,460	1,240	*11,000	63,300	8,340	29,500	17,900	11,200	6,050	10,400	2,730	2,810
2.....	2,990	*4,000	*10,000	57,700	7,520	26,100	13,100	11,100	5,450	7,260	5,130	2,650
3.....	1,270	*6,000	*10,500	50,500	10,600	26,900	11,900	7,800	6,090	2,640	4,540	2,140
4.....	1,890	*5,000	*7,000	48,200	*11,500	27,400	14,600	8,710	2,990	634	4,980	1,420
5.....	6,180	*3,000	*3,000	42,100	*11,500	25,300	18,600	8,040	*4,000	3,680	8,620	5,020
6.....	3,230	*2,000	*5,000	27,300	*10,000	23,300	20,800	19,000	*5,000	4,850	8,250	3,050
7.....	3,220	*1,000	7,590	21,500	*9,000	22,000	12,700	14,600	*6,000	4,680	8,340	3,880
8.....	3,100	*3,000	6,540	*21,000	*9,500	20,900	12,600	6,760	*7,100	3,720	4,840	3,580
9.....	2,010	*5,500	4,530	*14,000	*10,000	33,200	14,800	7,680	7,170	3,450	5,770	2,990
10.....	620	7,980	5,560	*11,000	7,640	42,900	16,800	8,250	8,850	1,760	6,740	1,450
11.....	1,490	7,920	6,010	*11,500	9,450	44,400	21,400	10,100	8,540	1,790	5,550	1,440
12.....	3,510	8,070	2,790	*11,500	11,100	47,300	27,200	9,410	2,350	4,930	5,340	3,410
13.....	3,130	8,070	10,600	*11,000	8,860	46,800	29,900	9,760	2,240	8,050	6,450	2,970
14.....	3,640	7,780	*32,000	9,330	108,000	52,300	32,200	7,790	5,510	10,500	6,280	3,530
15.....	4,070	11,000	*33,000	9,790	69,800	50,500	34,100	1,560	6,480	10,500	6,790	3,190
16.....	3,360	22,100	33,200	7,310	61,900	42,300	34,100	4,120	8,450	10,500	6,940	3,280
17.....	755	21,300	*33,000	7,440	50,600	41,700	32,800	5,560	7,870	5,620	6,960	1,460
18.....	2,170	28,200	31,100	9,520	62,900	31,600	27,800	4,770	7,150	8,180	7,000	568
19.....	4,890	25,200	15,200	8,890	64,600	27,800	18,900	6,410	8,950	7,530	6,070	1,260
20.....	5,520	16,800	17,500	8,550	45,900	19,600	20,200	5,830	8,870	10,300	2,560	2,330
21.....	4,490	8,150	*17,000	7,600	24,800	23,200	11,600	6,410	8,080	10,700	797	1,790
22.....	4,890	12,400	*18,000	6,630	24,400	22,000	11,600	2,640	8,330	11,500	1,230	2,260
23.....	1,290	13,900	*15,000	2,830	26,500	17,600	9,280	3,920	16,700	11,500	3,260	2,840
24.....	286	13,100	16,500	5,570	32,200	15,400	6,730	5,970	11,900	9,500	3,290	1,560
25.....	0,180	10,500	26,000	9,600	31,600	16,000	10,200	6,120	11,900	9,860	2,350	723
26.....	4,310	6,280	74,700	8,270	38,200	11,900	11,500	6,080	11,800	6,660	3,760	5,350
27.....	4,550	4,530	67,200	10,200	42,400	11,900	11,600	5,260	12,200	6,560	2,670	3,100
28.....	3,340	918	*72,000	8,930	33,900	11,900	11,500	4,830	11,500	6,020	973	3,080
29.....	3,180	6,100	*75,000	5,390	-----	13,400	11,600	2,420	11,300	7,920	1,420	2,930
30.....	3,280	10,800	*71,800	1,830	-----	15,100	11,600	3,600	10,500	4,250	2,420	3,200
31.....	682	-----	66,000	5,730	-----	12,500	-----	4,680	-----	1,010	2,740	-----
Month												
Maximum	Minimum	Mean	Per square mile	Run-off in inches								
October.....	6,180	286	3,100	0.305	0.35							
November.....	28,200	918	9,390	.923	1.03							
December.....	75,000	2,790	25,900	2.54	2.93							
January.....	63,300	1,830	16,900	1.66	1.91							
February.....	108,000	7,520	32,900	3.23	3.36							
March.....	52,300	11,900	27,500	2.71	3.12							
April.....	34,100	6,730	18,000	1.77	1.98							
May.....	19,000	1,560	7,110	.700	.81							
June.....	12,200	2,240	7,500	.737	.82							
July.....	11,500	634	6,660	.656	.76							
August.....	8,620	797	4,540	.447	.51							
September.....	5,350	568	2,640	.260	.29							
The year.....	108,000	286	13,400	1.32	17.87							

* Discharge estimated; recorder not operating.

TALLAPOOSA RIVER NEAR CRAGFORD, ALA.

LOCATION.—Water-stage recorder in sec. 28, T. 20 S., R. 10 E., 400 feet above mouth of Crooked Creek and $2\frac{1}{2}$ miles east of Cragford. Zero of gage is 657.75 feet above mean sea level.

DRAINAGE AREA.—1,460 square miles.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 31,600 second-feet February 13 (gage height, 14.7 feet); minimum, 225 second-feet September 15–18 (gage height, 1.25 feet).

1922–1927: Maximum discharge, 46,300 second-feet, revised, January 18, 1925 (gage height, 19.6 feet); minimum, 30 second-feet September 11, 1925 (gage height, 0.65 foot).

REMARKS.—Records good. Complete records furnished by Alabama Power Co

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	450	1,060	755	2,080	1,060	2,460	2,080	1,110	610	805	755	370
2	490	855	755	1,730	1,010	3,700	1,940	1,110	755	755	905	295
3	450	755	755	1,530	1,010	2,990	1,800	1,060	805	655	805	295
4	450	655	755	1,410	960	2,370	1,590	1,010	755	610	1,230	295
5	410	570	805	1,290	960	2,080	1,530	1,060	655	530	1,530	295
6	570	490	805	1,170	960	2,010	1,590	1,850	610	490	1,000	530
7	450	490	755	1,110	960	1,940	1,530	1,800	570	450	900	410
8	410	490	655	1,110	1,170	2,520	1,470	1,470	570	370	1,000	330
9	370	2,040	655	1,060	1,290	7,060	2,010	1,230	570	570	855	295
10	370	1,890	1,800	1,060	1,230	7,420	1,940	1,060	570	805	1,410	260
11	370	1,060	1,660	1,010	1,110	4,670	3,840	1,010	1,610	755	4,150	370
12	370	755	1,230	960	1,230	3,480	4,070	960	1,170	1,090	3,230	410
13	410	655	2,560	905	17,200	3,200	2,650	855	1,060	3,530	2,900	295
14	490	570	8,880	960	27,000	8,080	1,940	855	1,170	3,250	2,000	260
15	490	4,900	5,990	960	16,600	6,260	1,730	855	6,730	2,080	1,350	260
16	410	5,700	2,900	960	13,100	4,180	1,590	855	3,150	2,370	855	225
17	370	2,700	2,010	960	4,000	3,310	1,470	755	1,940	3,460	755	225
18	330	2,010	1,550	905	3,910	2,670	1,410	755	2,370	2,370	1,000	225
19	370	1,410	1,290	960	3,820	2,520	1,410	705	1,660	2,870	705	2,750
20	330	1,230	1,170	960	3,310	2,220	1,350	655	2,220	2,220	570	1,890
21	330	1,010	1,060	960	2,830	2,220	1,350	655	3,150	1,940	610	1,350
22	260	960	1,880	960	2,370	2,080	1,800	655	4,550	1,410	530	960
23	260	905	2,110	960	5,080	2,080	1,870	655	3,150	1,560	460	570
24	285	805	1,590	905	8,340	2,010	1,590	610	2,220	1,860	460	410
25	330	755	3,030	905	5,510	2,080	1,470	610	1,530	1,230	460	370
26	330	755	7,230	960	4,180	2,010	1,350	610	1,980	1,790	370	330
27	330	855	5,070	1,170	3,310	2,220	1,290	755	2,400	1,530	320	330
28	370	805	4,040	1,290	2,670	1,940	1,290	755	1,590	1,800	370	330
29	370	755	6,630	1,290	1,730	1,230	1,230	905	1,110	1,530	370	295
30	410	755	4,300	1,170	1,660	1,110	1,110	805	905	960	370	260
31	655	2,520	1,110	1,170	2,080	705	705	705	855	370	370	260

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	655	260	397	0.272	0.31
November	5,700	490	1,290	.884	.99
December	8,880	655	2,490	1.71	1.97
January	2,080	905	1,120	.767	.88
February	27,000	960	4,860	3.33	3.47
March	8,080	1,660	3,140	2.15	2.48
April	4,070	1,110	1,780	1.22	1.36
May	1,850	610	927	.635	.73
June	6,730	570	1,740	1.19	1.33
July	3,530	370	1,500	1.03	1.19
August	4,150	330	1,070	.733	.85
September	2,750	225	516	.353	.39
The year	27,000	225	1,710	1.17	15.95

TALLAPOOSA RIVER AT WADLEY, ALA.

LOCATION.—Staff gage in sec. 12, T. 22 S., R. 10 E., in Wadley, Randolph County, 13 miles below Crooked Creek dam site. Zero of gage is 600.78 feet above mean sea level.

DRAINAGE AREA.—1,660 square miles.

RECORDS AVAILABLE.—September, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 33,700 second-feet February 14 (gage height, 20.0 feet); minimum, 220 second-feet September 17, 18, and 28-30 (gage height, 2.65 feet).

1923-1927: Maximum discharge, 46,900 second-feet, revised determination, January 18, 1925 (gage height, 26.3 feet); minimum, 60 second-feet on eight days in September, 1925 (gage height, 2.2 feet).

REMARKS.—Records good. Slight diurnal fluctuation during extremely low water caused by small mill dams. Complete records furnished by Alabama Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	400	1,070	820	2,340	1,070	2,590	2,340	1,200	730	880	880	300
2-----	400	880	820	1,950	950	4,300	2,080	1,200	820	760	1,010	300
3-----	400	700	700	1,640	950	3,220	1,950	1,070	1,070	700	760	300
4-----	400	640	700	1,450	950	2,710	1,760	1,070	820	640	1,130	300
5-----	400	520	700	1,380	950	2,460	1,700	1,010	670	640	1,700	300
6-----	520	520	700	1,260	950	2,340	1,760	2,460	670	640	1,070	520
7-----	520	520	700	1,200	950	2,210	1,700	1,700	670	580	1,010	460
8-----	400	520	700	1,200	1,450	2,710	1,640	1,510	700	520	1,010	300
9-----	400	1,950	700	1,070	1,260	9,540	2,210	1,260	670	760	1,010	300
10-----	300	2,080	820	950	1,200	8,460	2,080	1,070	670	700	1,320	300
11-----	350	1,260	2,340	1,010	1,130	5,760	4,150	1,070	1,450	820	3,740	300
12-----	400	950	1,640	1,070	1,130	3,870	4,450	950	1,130	1,260	3,870	460
13-----	520	700	2,080	1,010	16,000	3,350	3,220	950	1,070	3,870	3,090	300
14-----	520	640	12,200	1,130	29,100	10,000	2,340	950	1,130	3,870	1,950	300
15-----	460	4,010	6,870	1,130	18,200	7,650	1,820	880	5,410	2,210	1,320	300
16-----	520	6,680	3,350	1,070	14,900	5,070	1,700	820	3,870	2,460	950	260
17-----	460	3,220	2,210	1,070	4,910	3,740	1,640	820	1,700	4,450	700	220
18-----	400	2,340	1,640	1,070	4,450	3,090	1,570	820	2,590	2,340	1,130	220
19-----	400	1,820	1,380	1,070	4,450	2,590	1,570	700	1,820	2,960	880	2,840
20-----	400	1,320	1,200	1,070	3,740	2,340	1,450	700	2,070	2,460	640	2,460
21-----	400	1,130	1,200	1,070	3,090	2,340	1,320	700	3,480	2,210	580	1,260
22-----	400	1,010	1,950	950	2,590	2,340	1,640	700	5,410	1,570	520	950
23-----	400	880	2,340	950	4,300	2,340	1,820	700	3,670	1,200	520	580
24-----	350	820	1,950	950	10,000	2,210	1,640	700	2,460	2,960	460	400
25-----	300	820	4,010	950	5,930	2,210	1,450	700	1,570	2,210	400	350
26-----	350	820	8,050	1,010	5,580	2,080	1,320	700	1,820	2,210	300	300
27-----	400	820	6,300	1,260	4,150	2,590	1,320	760	2,840	1,320	350	260
28-----	400	760	4,300	1,450	2,960	2,210	1,200	820	1,760	1,820	400	220
29-----	400	700	7,450	1,260	-----	1,820	1,200	1,260	1,200	1,760	400	220
30-----	400	820	5,240	1,130	-----	1,950	1,070	880	1,370	1,130	350	220
31-----	580	-----	3,090	1,070	-----	2,590	-----	820	-----	1,070	300	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October-----	580	300	418	0.252	0.29
November-----	6,680	520	1,360	.819	.91
December-----	12,200	700	2,840	1.71	1.97
January-----	2,340	950	1,200	.723	.85
February-----	29,100	950	5,260	3.17	3.30
March-----	10,000	1,820	3,630	2.19	2.52
April-----	4,450	1,070	1,960	1.14	1.27
May-----	2,460	700	968	.601	.69
June-----	5,410	520	1,830	1.10	1.23
July-----	4,450	520	1,710	1.08	1.19
August-----	3,870	300	1,060	.657	.76
September-----	2,840	220	527	.317	.35
The year-----	29,100	220	1,880	1.13	15.31

TALLAPOOSA RIVER AT CHEROKEE BLUFFS, NEAR TALLASSEE, ALA.

LOCATION.—Water-stage recorder in sec. 36, T. 20 N., R. 21 E., 1,000 feet below Wind Creek, three-fourths mile below Martin Dam, and 9 miles north of Tallassee, Elmore County. Zero of gage is 337.95 feet above mean sea level.

DRAINAGE AREA.—3,000 square miles.

RECORDS AVAILABLE.—July, 1912, to September, 1914, and October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,320 second-feet August 23 and 24 (gage height, 3.30 feet); minimum, 45 second-feet October 31, November 1, and 13-15 (gage height, -0.05 foot) caused by shutting off flow at Martin Dam.

1912-1914, 1922-1927: Maximum discharge, 87,500 second-feet January 19, 1925 (gage height, 10.8 feet); minimum, 6 second-feet July 19-22, 1926 (gage height, -0.70 foot) caused by regulation.

REMARKS.—Records good. Discharge January 1-15, 23-29, March 11, and 12 determined from Martin Dam power-house records. Flow completely regulated by operation of Martin power dam. Complete records furnished by Alabama Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	4,740	2,530	7,150	670	484	3,300	1,340	580	1,360	1,740	2,880	4,720
2.....	3,430	2,850	6,330	90	378	3,900	725	1,660	1,390	787	2,840	4,760
3.....	261	2,580	4,920	4,980	106	3,810	147	1,550	1,420	314	2,660	5,250
4.....	3,440	3,040	5,300	5,630	495	4,050	1,320	1,330	704	343	1,860	530
5.....	3,890	3,860	2,840	4,180	171	1,760	1,250	1,240	121	1,580	1,430	3,880
6.....	5,190	1,790	4,670	2,920	111	200	1,200	1,290	1,600	1,450	429	4,560
7.....	4,510	296	6,240	1,900	81	1,980	1,280	80	1,390	1,330	487	6,030
8.....	4,950	3,730	6,620	780	97	2,220	1,280	81	1,440	1,280	2,370	5,240
9.....	2,210	4,060	5,080	650	467	2,120	540	1,460	1,390	587	1,970	4,880
10.....	560	3,650	5,110	4,690	116	1,330	645	1,220	1,400	471	2,580	2,530
11.....	4,020	3,590	3,860	5,360	100	1,420	1,240	1,260	136	1,740	2,780	116
12.....	4,400	3,430	256	7,120	407	400	1,230	1,250	137	1,880	1,940	4,460
13.....	4,610	1,520	1,300	7,480	313	235	1,210	1,260	1,820	1,630	1,000	4,420
14.....	4,440	45	1,110	7,100	1,400	1,760	1,220	545	1,350	1,650	342	4,630
15.....	4,740	3,870	885	2,420	3,270	1,910	1,120	234	1,460	1,400	2,580	5,930
16.....	3,340	3,730	392	826	3,650	1,790	121	1,520	1,120	756	2,160	6,240
17.....	237	3,020	1,760	3,380	3,550	1,490	121	1,380	1,340	594	4,400	4,600
18.....	4,420	2,430	1,110	3,490	4,100	1,620	1,210	1,400	166	1,980	4,340	4,070
19.....	5,170	2,290	1,400	3,860	1,880	622	1,250	1,400	434	1,360	4,910	6,230
20.....	4,990	1,110	3,470	2,820	1,790	166	1,440	1,450	1,800	1,460	1,190	6,750
21.....	3,440	170	5,290	2,250	3,520	1,870	1,330	313	1,400	1,600	2,100	6,880
22.....	3,460	3,140	5,200	93	3,010	2,300	1,330	121	1,590	1,240	5,200	6,830
23.....	2,620	3,400	5,000	180	2,770	2,520	880	1,520	1,180	152	6,100	6,230
24.....	746	4,230	520	1,210	1,980	1,450	170	1,390	1,380	403	6,390	3,270
25.....	3,950	4,820	127	1,320	2,040	2,090	1,680	1,340	624	2,100	5,400	136
26.....	3,030	2,910	154	3,070	792	832	1,630	1,390	498	2,110	5,130	6,100
27.....	3,210	8,260	2,190	1,350	224	171	1,490	1,410	2,400	2,140	4,810	6,330
28.....	3,020	5,550	2,240	1,260	3,650	1,450	1,420	508	2,110	2,100	1,880	6,610
29.....	2,860	6,950	1,550	100	-----	1,340	1,260	157	2,530	2,500	4,270	6,740
30.....	1,470	7,890	1,880	296	-----	1,350	117	1,530	2,780	2,460	5,600	6,670
31.....	45	-----	3,350	827	-----	1,430	-----	1,460	-----	1,210	6,130	-----

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October.....	5,190	45	3,270	1.09	1.26
November.....	8,260	45	3,360	1.12	1.25
December.....	7,150	127	3,140	1.05	1.21
January.....	7,480	90	2,660	.887	1.02
February.....	4,100	81	1,440	.480	.50
March.....	4,050	166	1,710	.570	.66
April.....	1,680	117	1,040	.347	.39
May.....	1,660	80	1,080	.360	.42
June.....	2,780	121	1,280	.427	.48
July.....	2,500	152	1,370	.457	.53
August.....	6,390	342	3,370	1.12	.29
September.....	6,880	116	4,850	1.62	.81
The year.....	8,260	45	2,380	.793	10.82

MISCELLANEOUS DISCHARGE MEASUREMENTS

In addition to the records of flow obtained at the gaging stations and reported in the preceding pages, measurements were made at other points, as shown by the following table:

Miscellaneous discharge measurements in south Atlantic and eastern Gulf of Mexico basins during the year ending September 30, 1927

Date	Stream	Tributary to—	Locality	Gage height	Discharge
				<i>Feet</i>	<i>Sec.-ft.</i>
Apr. 13	Dan River.....	Roanoke River.....	Former gaging station near Asbury, N. C.	1.02	91.9
Do...	do.....	do.....	Former gaging station at Pine Hall, N. C.	2.10	446
Oct. 7	Neuse River.....	Pamlico Sound.....	County highway bridge below Perry Creek, near Neuse, N. C.	-----	28.1
Oct. 8	do.....	do.....	Former gaging station near Selma, N. C.	-----	82.7
Dec. 13	Little Creek.....	Neuse River.....	Former gaging station near Zebulon, N. C.	.96	6.95
Dec. 8	West Fork of Deep River.....	Deep River.....	Former gaging station near High Point, N. C.	1.16	7.92
June 25	Saluda River.....	Broad River.....	Dam site of Lexington Water Power Co. near Columbia, S. C.	4.34	2,830
Sept. 10	do.....	do.....	Dreher Shoals Dam, near Columbia, S. C.	2.50	1,230
Oct. 23	Savannah River.....	Atlantic Ocean.....	Former gaging station near Calhoun Falls, S. C.	2.78	1,870
May 15	Black Creek.....	St Johns River.....	Near Middleburg, Fla.	-----	3.13
Do...	Yellow Water Creek.....	Black Creek.....	Near Maxville, Fla.	-----	1.59
May 9	Suwannee River.....	Gulf of Mexico.....	Mixon's Ferry, 11 miles above Fargo, Ga.	-----	35.9
May 14	do.....	do.....	do.....	-----	25.1
May 10	do.....	do.....	Half a mile above Cypress Creek, 2½ miles below Fargo, Ga.	-----	37.1
Do...	do.....	do.....	Near Dayton, Ga., 5½ miles below Fargo, Ga.	-----	39.5
Do...	do.....	do.....	Near Dayton, Ga., 7½ miles below Fargo, Ga.	-----	40.6
May 11	do.....	do.....	2 miles above Bony Bluff Bridge, 9 miles below Fargo, Ga.	-----	39.5
Do...	do.....	do.....	Bony Bluff Bridge, 11 miles below Fargo, Ga.	-----	39.4
Do...	do.....	do.....	Near Blounts Ferry, Fla., 1 mile below Georgia-Florida State Line.	-----	40.7
Do...	do.....	do.....	Near Blounts Ferry, Fla., 2½ miles below Georgia-Florida State line.	-----	43.2
Do...	do.....	do.....	1½ miles above Turners Bridge, 4½ miles below Georgia-Florida State line.	-----	40.8
May 12	do.....	do.....	1 mile below Turners Bridge.	-----	45.8
Do...	do.....	do.....	Near Belmont, Fla., 4 miles below Turners Bridge.	-----	41.3
May 13	do.....	do.....	Near Benton, Fla., 6 miles above Cohns Bridge.	-----	43.0
Do...	do.....	do.....	At bridge 6½ miles above White Springs, Fla.	-----	56.6
Do...	do.....	do.....	5 miles above White Springs, Fla.	-----	50.3
Feb. 8	do.....	do.....	2 miles above White Springs, Fla.	-----	279
May 13	do.....	do.....	1½ miles above White Springs, Fla.	-----	47.0
May 8	do.....	do.....	Below mouth of White Springs at White Springs, Fla.	2.30	140
May 13	do.....	do.....	do.....	-----	113
May 9	do.....	do.....	2½ miles below White Springs, Fla.	-----	137
Do...	do.....	do.....	4 miles below White Springs, Fla.	-----	140

Miscellaneous discharge measurements in south Atlantic and eastern Gulf of Mexico basins during the year ending September 30, 1927—Continued

Date	Stream	Tributary to—	Locality	Gage height	Discharge
				<i>Feet</i>	<i>Sec.-ft.</i>
May 10	Suwannee River.....	Gulf of Mexico.....	1 mile below Woods Ferry, 5½ miles below White Springs, Fla.	-----	178
Do.	do	do	9 miles below White Springs, Fla.	-----	175
May 10	do	do	Near Live Oak, Fla., 5 miles above Atlantic Coast Line Railroad bridge.	-----	188
Do.	do	do	Atlantic Coast Line Railroad bridge 2 miles below Suwannee, Fla.	-----	228
May 11	do	do	6 miles below Suwannee, Fla.	-----	262
Do.	do	do	County highway bridge near Live Oak, Fla.	-----	850
May 12	do	do	6 miles below Ellaville, Fla.	-----	1,660
May 13	do	do	3 miles above Dowling Park, Fla.	-----	1,540
Do.	do	do	Dowling Park, Fla.	-----	1,650
Do.	do	do	6½ miles below Dowling Park, Fla.	-----	1,720
May 14	do	do	6 miles below Luraville, Fla.	-----	2,060
May 15	do	do	Welshs Ferry, 9 miles above Branford, Fla.	-----	2,210
Feb. 4	do	do	Branford, Fla.	-----	3,050
May 15	do	do	do	-----	2,450
May 13	Deep Creek	Suwannee River	9½ miles above White Springs, Fla.	-----	2.4
May 8	White Springs	do	White Springs, Fla.	-----	67.2
May 13	do	do	do	-----	58.0
May 9	Creek	do	5 miles below White Springs, Fla.	-----	.65
May 10	Spring	do	7½ miles below White Springs, Fla.	-----	3.24
May 11	do	do	8 miles below Suwannee, Fla.	-----	7.9
Do.	do	do	10 miles below Suwannee, Fla.	-----	13.7
Do.	Rock Spring (Alapaha River)	do	600 feet above county highway bridge near Live Oak, Fla.	-----	424
Jan. 31	Withlacoochee River	do	Near Ellaville, Fla.	-----	673
May 12	do	do	200 feet above mouth, near Ellaville, Fla.	-----	569
May 13	Spring	do	6 miles below Ellaville, Fla.	-----	6.3
Do.	do	do	2 miles above Dowling Park, Fla.	-----	9.1
Do.	Charles Spring	do	4½ miles below Dowling Park, Fla.	-----	7.4
Do.	Creek	do	6½ miles below Dowling Park, Fla.	-----	16.4
May 14	Spring	do	7 miles below Dowling Park, Fla.	-----	61.3
Do.	do	do	Half a mile above Luraville, Fla.	-----	20.6
Do.	do	do	500 feet above highway bridge at Luraville, Fla.	-----	34.9
Do.	do	do	2,000 feet below old Live Oak, Perry & Gulf Railroad bridge near Luraville, Fla.	-----	77.0
Do.	do	do	1 mile below old Live Oak, Perry & Gulf Railroad bridge near Luraville, Fla.	-----	17.0
Do.	do	do	5½ miles below Luraville, Fla.	-----	9.0
Do.	do	do	6½ miles below Luraville, Fla.	-----	11.1
Do.	Morrison Spring	do	One-fourth mile above Welshs Ferry, 10 miles above Branford, Fla.	-----	51.6
May 15	Gray Spring	do	8½ miles above Branford, Fla.	-----	111
Do.	Spring	do	7½ miles above Branford, Fla.	-----	4.0
Do.	do	do	5 miles above Branford, Fla.	-----	55.2
Do.	do	do	Branford, Fla.	-----	12.4
May 12	S u w a n a c o o c h e e Spring.	Withlacoochee River	Near Ellaville, Fla.	-----	22.7
Nov. 11	Ochlockonee River	Gulf of Mexico	Stuarts Bridge near Havana, Fla.	73.54	251
Oct. 22	Chattahoochee River	Apalachicola River	Former gaging station near Norcross, Ga.	1.55	642
Aug. 2	Blue Spring	Chipola River	Marianna, Fla.	1.09	185
Oct. 20	Oostanaula River	Coosa River	Former gaging station at Resaca, Ga.	1.98	585

INDEX

		Page	Page
A			
Accuracy of data and results, degrees of.....	4-5	Chimney Rock, N. C., Broad River near.....	62
Acre-foot, definition of.....	2	Chipola River near Altha, Fla.....	88
Alapaha River, Fla. <i>See</i> Rock Spring.		Choctawhatchee River near Newton, Ala.....	89
Altha, Fla., Chipola River near.....	88	Cliffside, N. C., Second Broad River at.....	65
Apalachicola River Basin, Ga.-Fla., gaging- station records in.....	86-88	Clifton Forge, Va., Cowpasture River near.....	17
Appomattox River at Farmville, Va.....	29	Columbia, S. C., Saluda River near.....	70
at Mattox, Va.....	30	Computations, results of, accuracy of.....	4-5
near Petersburg, Va.....	31	Concord, Va., Wreck Island Creek near.....	23
Appropriation, record of.....	1	Control, definition of.....	2
Arvonja, Va., Slate River near.....	26	Cooperation, record of.....	9
Augusta, Ga., Savannah River at.....	73	Coosa River at Childersburg, Ala.....	92
B		at Gadsden, Ala.....	91
Bahama, N. C., Dial Creek at.....	47	at Lock 18, near Wetumpka, Ala.....	94
Flat River at.....	46	at Mitchell Dam, near Verbena, Ala.....	93
Rocky Creek near.....	48	Coosawattee River near Carters, Ga.....	90
Barber, Va., Jackson River at.....	10	Cowpasture River near Clifton Forge, Va.....	17
Battle Ground, N. C., Horsepen Creek at.....	51	Cragford, Ala., Tallapoosa River near.....	95
Bell, Ga., Broad River near.....	74	Craig Creek at Parr, Va.....	18
Bent Creek, Va., James River at.....	14	D	
Black Creek, Fla., discharge measurement of.....	98	Dan River at South Boston, Va.....	43
Blackwater River near Union Hall, Va.....	40	discharge measurements of.....	98
Bloxham, Fla., Ochlockonee River near.....	85	near Francisco, N. C.....	42
Blue Spring, Fla., discharge measurement of.....	99	Data, accuracy of.....	4-5
Boiling Springs, N. C., Broad River near.....	63	explanation of.....	2-4
Sandy Run Creek near.....	66	Deep Creek, Fla., discharge measurement of.....	99
Branch, N. C., Linville River at.....	59	Deep River at Ramseur, N. C.....	53
Broad River at Richtex, S. C.....	64	West Fork of, N. C., discharge measure- ment of.....	98
near Bell, Ga.....	74	Dial Creek at Bahama, N. C.....	47
near Boiling Springs, N. C.....	63	Dismal Swamp, Va., Lake Drummond in.....	32
near Chimney Rock, N. C.....	62	Dismal Swamp Basin, Va., gaging-station record in.....	32
Brookneal, Va., Roanoke River at.....	38	Dobson, N. C., Fisher River near.....	57
Buchanan, Va., James River at.....	12	E	
C		Ellaville, Fla., Suwannee River at.....	82
Cape Fear River at Lillington, N. C.....	49	Enfield, N. C., Fishing Creek near.....	45
Cape Fear River Basin, N. C., gaging-station records in.....	49-53	F	
Carters, Ga., Coosawattee River near.....	90	Fargo, Ga., Suwannee River at.....	80
Cartersville, Va., James River at.....	16	Farmville, Va., Appomattox River at.....	29
Chapel Hill, N. C., Morgan Creek near.....	52	Fisher River near Dobson, N. C.....	57
Chapin, S. C., Saluda River near.....	69	Ferguson, S. C., Santee River at.....	58
Chappells, S. C., Saluda River at.....	67	Fishing Creek near Enfield, N. C.....	45
Charles Spring, Fla., discharge measurement of.....	99	Flanagan Mills, Va., Willis River at.....	28
Charlotte, N. C., Little Sugar Creek near.....	61	Flat River at Bahama, N. C.....	46
Charlottesville, Va., Rivanna River near.....	27	Flint River near Vienna, Ga.....	87
Chattahoochee River at West Point, Ga.....	86	Francisco, N. C., Dan River near.....	42
discharge measurement of.....	99	G	
Chattooga River near Tallulah Falls, Ga.....	71	Gadsden, Ala., Coosa River at.....	91
Childersburg, Ala., Coosa River at.....	92	Goose Creek near Huddleston, Va.....	41

	Page		Page
Goshen, Va., North River at.....	20	Old Gaston, N. C., Roanoke River at.....	39
Gray Spring, Fla., discharge measurement of.....	99	Oostanaula River, Ga., discharge measurement of.....	99
Gretna, Va., Roanoke River near.....	37		
H		P	
Hardware River near Scottsville, Va.....	25	Parr, Va., Craig Creek at.....	18
Hartwell, Ga., Tugaloo River near.....	72	Pee Dee River Basin, N. C., gaging-station records in.....	54-57
Henry Fork near Henry River, N. C.....	60	Petersburg, Va., Appomattox River near.....	31
Henry River, N. C., Henry Fork near.....	60	Publications, information concerning.....	5-8
High Rock, N. C., Yadkin River at.....	56	obtaining or consulting of.....	6
Horsepen Creek at Battle Ground, N. C.....	51	on stream flow, lists of.....	7, 8
Huddleston, Va., Goose Creek near.....	41		
J		R	
Jackson River at Barber, Va.....	10	Ramseur, N. C., Deep River at.....	53
James River at Bent Creek, Va.....	14	Reedy Fork near Summerfield, N. C.....	50
at Buchanan, Va.....	12	Richtex, S. C., Broad River at.....	64
at Cartersville, Va.....	16	Rivanna River below Moores Creek, near Charlottesville, Va.....	27
at Lick Run, Va.....	11	Roanoke River at Brookneal, Va.....	38
at Salt Creek, Va.....	13	at Niagara, Va.....	34-35
at Scottsville, Va.....	15	at Old Gaston, N. C.....	39
James River Basin, Va., gaging-station records in.....	10-31	at Roanoke, Va.....	33
Johns Creek at Newcastle, Va.....	19	near Gretna, Va.....	37
Kerrs Creek near Lexington, Va.....	22	near Tushes, Va.....	36
L		Roanoke River Basin, Va.-N. C., gaging-station records in.....	33-34
Lake Drummond in Dismal Swamp, Va.....	32	Rock Spring, Fla., discharge measurement of.....	99
Leatherwood Creek near Old Liberty, Va.....	44	Rocky Creek near Bahama, N. C.....	48
Lexington, Va., Kerrs Creek near.....	22	Roseland, Va., Tye River at.....	24
North River near.....	21	Run-off in inches, definition of.....	2
Lick Run, Va., James River at.....	11		
Lillington, N. C., Cape Fear River at.....	49	S	
Linville River at Branch, N. C.....	59	St. Marys River near Macclenny, Fla.....	79
Little Creek, N. C., discharge measurements of.....	98	North Prong of, at Moniac, Ga.....	75-78
Little Sugar Creek near Charlotte, N. C.....	61	Salisbury, N. C., Yadkin River near.....	55
Luraville, Fla., Suwannee River at.....	83	Salt Creek, Va., James River at.....	13
M		Saluda River at Chappells, S. C.....	67
Macclenny, Fla., St. Marys River near.....	79	discharge measurements of.....	98
Mattoax, Va., Appomattox River at.....	30	near Chapin, S. C.....	69
Mobile River Basin, Ga.-Ala., gaging-station records in.....	90-97	near Columbia, S. C.....	70
Moniac, Ga., North Prong of St. Marys River at.....	75-78	near Silverstreet, S. C.....	68
Morgan Creek near Chapel Hill, N. C.....	52	Sandy Run Creek near Boiling Springs, N. C.....	66
Morrison Spring, Fla., discharge measurement of.....	99	Santee River at Ferguson, S. C.....	58
N		Santee River Basin, S. C.-N. C., gaging-station records in.....	58-70
Neuse River, N. C., discharge measurements of.....	98	Savannah River at Augusta, Ga.....	73
Neuse River Basin, N. C., gaging-station records in.....	46-48	discharge measurement of.....	98
Newcastle, Va., Johns Creek at.....	19	Savannah River Basin, Ga., gaging station records in.....	71-75
Newton, Ala., Choctawhatchee River near.....	89	Scottsville, Va., Hardware River near.....	25
Niagara, Va., Roanoke River at.....	34-35	James River at.....	15
North River at Goshen, Va.....	20	Second Broad River at Cliffside, N. C.....	65
near Lexington, Va.....	21	Second-feet per square mile, definition of.....	2
North Wilkesboro, N. C., Yadkin River at.....	54	Second-foot, definition of.....	2
O		Silverstreet, S. C., Saluda River near.....	68
Ochlockonee River at Ochlockonee, Fla.....	84	Slate River near Arvonis, Va.....	26
discharge measurement of.....	99	South Boston, Va., Dan River at.....	43
near Bloxham, Fla.....	85	Stage-discharge relation, definition of.....	2
Old Liberty, Va., Leatherwood Creek near.....	44	Summerfield, N. C., Reedy Fork near.....	50
		Suwanacoochee Spring, Fla., discharge measurement of.....	99
		Suwannee River at Ellaville, Fa.....	82
		at Fargo, Ga.....	80
		at Luraville, Fla.....	83
		at White Springs, Fla.....	81
		discharge measurements of.....	98-99

T	Page	W	Page
Tallapoosa River at Cherokee Bluffs, near		Wadley, Ala., Tallapoosa River at.....	96
Tallasse, Ala.....	97	West Point, Ga., Chattahoochee River at...	86
at Wadley, Ala.....	96	Wetumpka, Ala., Coosa River near.....	94
near Cragford, Ala.....	95	White Springs, Fla., Suwannee River at.....	81
Tallasse, Ala., Tallapoosa River near.....	97	White Springs, Fla., discharge measurements	
Tallulah Falls, Ga., Chattooga River near...	71	of.....	99
Tar River Basin, N. C., gaging-station record		Willis River at Flanagan Mills, Va.....	26
in.....	45	Withlacoochee River, Fla., discharge meas-	
Terms, definition of.....	2	urements of.....	99
Toshes, Va., Roanoke River near.....	36	Work, authorization of.....	1
Tugaloo River near Hartwell, Ga.....	72	division of.....	9
Tye River at Roseland, Va.....	24	scope of.....	1-2
		Wreck Island Creek near Concord, Va.....	23
U		Y	
Union Hall, Va., Blackwater River near.....	40	Yadkin River at High Rock, N. C.....	56
		at North Wilkesboro, N. C.....	54
		near Salisbury, N. C.....	55
V		Yellow Water Creek, Fla., discharge measure-	
Verbena, Ala., Coosa River near.....	93	ment of.....	98
Vienna, Ga., Flint River near.....	87		





